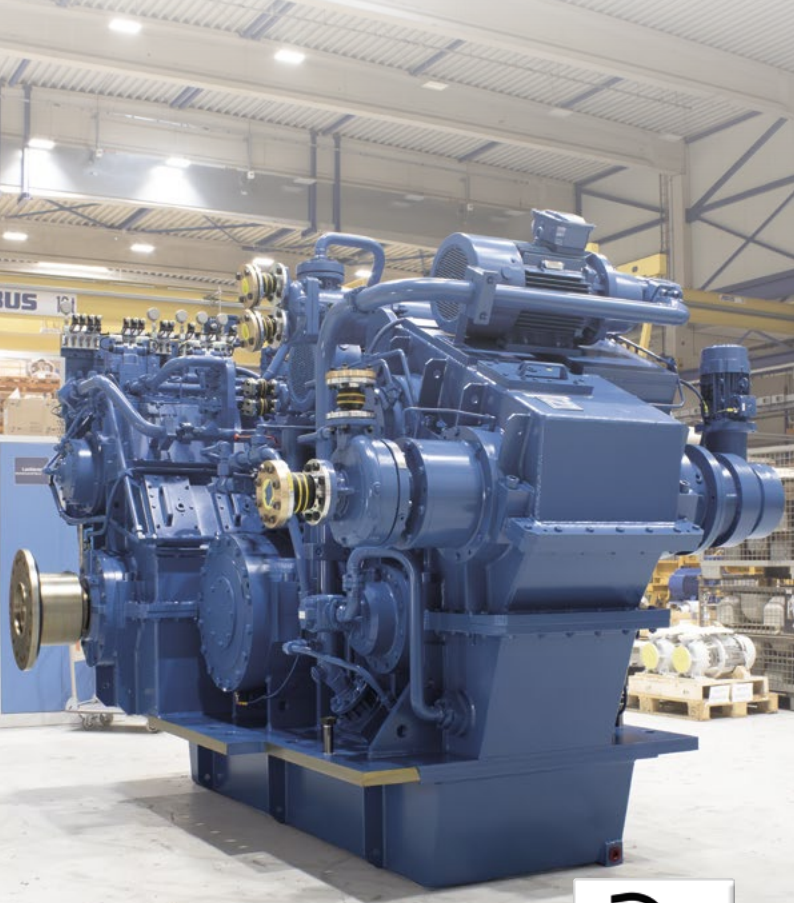


# PRODUCT GUIDE

## 2024 | MARINE



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This document and the technical data contained herein are subject to technical modifications and are non-binding. The data serve informational purposes and cannot be guaranteed in any way. In addition, our gearboxes will be assessed and determined individually for each project. This is necessary due to differing characteristics of each project like specific site and operational conditions. If this document is delivered in another language than English and in case of divergences of interpretation between the different language texts, the English text shall prevail.

Gearbox standard design dry. Following lists only show an extract of gearboxes available. Additional sizes, offset configurations and variations are available on request.

Dimensions and dry weights are approximate and may vary with housing or by input and ratio. Specifications are subject to change without notice. Please contact your REINTJES distributor for current information and binding data.



## Gearbox Characteristics

### WF

|                    |  |
|--------------------|--|
| Gearbox type:      | Small reverse reduction gearbox  |
| Main application:  | Workboats  |
| Driven component:  | Fixed Pitch Propeller  |
| Shaft rotation:    | Co- or Counter-rotating shafts   |
| Reduction ratios:  | Standard and custom (on request)   |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Roller bearings (standard) or Slide bearings (large sizes, on request)           |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing / close-coupled with SAE housings (small sizes)                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

### WAF

|                    |  |
|--------------------|--|
| Gearbox type:      | Reverse reduction gearbox  |
| Main application:  | Workboats  |
| Driven component:  | Fixed Pitch Propeller  |
| Shaft rotation:    | Co- or Counter-rotating shafts   |
| Reduction ratios:  | Standard and custom (on request)   |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Roller bearings (standard) or Slide bearings (large sizes, on request)           |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing / close-coupled with SAE housings (small sizes)                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

### WGF

|                    |  |
|--------------------|--|
| Gearbox type:      | Reverse reduction gearbox with attached gear step                                |
| Main application:  | Workboats  |
| Driven component:  | Fixed Pitch Propeller  |
| Shaft rotation:    | Co- or Counter-rotating shafts   |
| Reduction ratios:  | Standard and custom (on request)   |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

### WVS

|                    |   |
|--------------------|---|
| Gearbox type:      | Reverse reduction gearbox   |
| Main application:  | Fast vessels  |
| Driven component:  | Fixed Pitch Propeller or Waterjet   |
| Shaft rotation:    | Co- or Counter-rotating shafts  |
| Reduction ratios:  | Standard and custom (on request)  |
| Shaft arrangement: | Parallel input and output shafts, U-drive or opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)   |
| Bearing type:      | Roller bearings   |
| Gearbox housing:   | Aluminium alloy, weight optimized design  |
| Mounting:          | Free-standing / close-coupled / U-drive SAE housings (small sizes)                        |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)  |



## Gearbox Characteristics

### WVSA

|                    |   |
|--------------------|---|
| Gearbox type:      | Reverse reduction gearbox                               |
| Main application:  | Fast vessels  |
| Driven component:  | Fixed Pitch Propeller                                   |
| Shaft rotation:    | Co- or Counter-rotating shafts                          |
| Reduction ratios:  | Custom (on request)                                     |
| Shaft arrangement: | Down angle, shafts on opposite sides, vertically offset |
| Clutch(es):        | Hydraulically operated clutch(es)                       |
| Bearing type:      | Roller bearings   |
| Gearbox housing:   | Aluminium alloy, weight optimized design                |
| Mounting:          | Free-standing   |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                |

### WVSFA

|                    |  |
|--------------------|--|
| Gearbox type:      | Reverse reduction gearbox                |
| Main application:  | Fast vessels                             |
| Driven component:  | Fixed Pitch Propeller                    |
| Shaft rotation:    | Co- or Counter-rotating shafts           |
| Reduction ratios:  | Custom (on request)                      |
| Shaft arrangement: | Down angle, V-drive, vertically offset   |
| Clutch(es):        | Hydraulically operated clutch(es)        |
| Bearing type:      | Roller bearings                          |
| Gearbox housing:   | Aluminium alloy, weight optimized design |
| Mounting:          | Free-standing                            |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional) |

### ZWAF

|                    |  |
|--------------------|--|
| Gearbox type:      | Two-speed reverse reduction gearbox  |
| Main application:  | Workboats  |
| Driven component:  | Fixed Pitch Propeller  |
| Shaft rotation:    | Ahead: co-rotating shafts<br>Astern: counter-rotating shafts                     |
| Reduction ratios:  | Custom (on request)  |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

### ZWVS

|                    |  |
|--------------------|--|
| Gearbox type:      | Two-speed reverse reduction gearbox  |
| Main application:  | Fast vessels   |
| Driven component:  | Fixed Pitch Propeller  |
| Shaft rotation:    | Ahead: co-rotating shafts<br>Astern: counter-rotating shafts                     |
| Reduction ratios:  | Custom (on request)  |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Aluminium alloy, weight optimized design   |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |



# Gearbox Characteristics

## ZWVSA

|                    |  |
|--------------------|--|
| Gearbox type:      | Two-speed reverse reduction gearbox                          |
| Main application:  | Fast vessels   |
| Driven component:  | Fixed Pitch Propeller  |
| Shaft rotation:    | Ahead: counter-rotating shafts<br>Astern: co-rotating shafts |
| Reduction ratios:  | Custom (on request)  |
| Shaft arrangement: | Down angle, V-drive,<br>vertically offset                    |
| Clutch(es):        | Hydraulically operated clutch(es)                            |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Aluminium alloy, weight optimized design                     |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                     |

## ZSVAL

|                    |  |
|--------------------|--|
| Gearbox type:      | Two-speed reduction gearbox  |
| Main application:  | Workboats  |
| Driven component:  | Controllable Pitch Propeller   |
| Shaft rotation:    | Counter-rotating input and output shafts   |
| Reduction ratios:  | Custom (on request)  |
| Shaft arrangement: | Parallel input and output shafts on<br>opposite sides,<br>vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Slide bearings   |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

## EF

|                    |  |
|--------------------|--|
| Gearbox type:      | Reduction gearbox  |
| Main application:  | Workboats, ideal for electric drive  |
| Driven component:  | Controllable or Fixed Pitch Propeller  |
| Shaft rotation:    | Counter-rotating input and output shafts   |
| Reduction ratios:  | Standard and custom (on request)   |
| Shaft arrangement: | Parallel input and output shafts on<br>opposite sides,<br>vertically offset (standard) |
| Clutch(es):        | None   |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

## AF

|                    |  |
|--------------------|--|
| Gearbox type:      | Reduction gearbox  |
| Main application:  | Workboats, ideal for electric drive  |
| Driven component:  | Controllable or Fixed Pitch Propeller  |
| Shaft rotation:    | Counter-rotating input and output shafts   |
| Reduction ratios:  | Standard and custom (on request)   |
| Shaft arrangement: | Parallel input and output shafts on<br>opposite sides,<br>vertically offset (standard) |
| Clutch(es):        | None   |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |



## Gearbox Characteristics

### LF

|                    |  |
|--------------------|--|
| Gearbox type:      | Reduction gearbox  |
| Main application:  | Workboats  |
| Driven component:  | Controllable Pitch Propeller   |
| Shaft rotation:    | Co- or Counter-rotating shafts   |
| Reduction ratios:  | Standard and custom (on request)   |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing / close-coupled with SAE housings (small sizes)                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

### LAF

|                    |  |
|--------------------|--|
| Gearbox type:      | Reduction gearbox  |
| Main application:  | Workboats  |
| Driven component:  | Controllable Pitch Propeller   |
| Shaft rotation:    | Co- or Counter-rotating shafts   |
| Reduction ratios:  | Standard and custom (on request)   |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing / close-coupled with SAE housings (small sizes)                    |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

### LGF

|                    |  |
|--------------------|--|
| Gearbox type:      | Reduction gearbox with attached gear step  |
| Main application:  | Workboats  |
| Driven component:  | Controllable Pitch Propeller   |
| Shaft rotation:    | Co- or Counter-rotating shafts   |
| Reduction ratios:  | Standard and custom (on request)   |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

### WLS

|                    |   |
|--------------------|---|
| Gearbox type:      | Reduction gearbox   |
| Main application:  | Fast vessels  |
| Driven component:  | Controllable Pitch Propeller  |
| Shaft rotation:    | Co- or Counter-rotating shafts  |
| Reduction ratios:  | Standard and custom (on request)  |
| Shaft arrangement: | Parallel input and output shafts, U-drive or opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)   |
| Bearing type:      | Roller bearings   |
| Gearbox housing:   | Aluminium alloy, weight optimized design  |
| Mounting:          | Free-standing / close-coupled / U-drive SAE housings (small sizes)                        |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)  |



# Gearbox Characteristics

## VLJ

|                    |  |
|--------------------|--|
| Gearbox type:      | Reduction gearbox  |
| Main application:  | Waterjets  |
| Driven component:  | Jet Propulsion   |
| Shaft rotation:    | Counter-rotating input and output shafts   |
| Reduction ratios:  | Standard and custom (on request)   |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Roller bearings (standard) or Slide bearings (large sizes, on request)           |
| Gearbox housing:   | Aluminium alloy  |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

## VA

|                    |  |
|--------------------|--|
| Gearbox type:      | Reduction gearbox  |
| Main application:  | Workboats  |
| Driven component:  | Controllable Pitch Propeller   |
| Shaft rotation:    | Counter-rotating input and output shafts   |
| Reduction ratios:  | Custom (on request)  |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | None   |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

## SVA

|                    |  |
|--------------------|--|
| Gearbox type:      | Reduction gearbox  |
| Main application:  | Workboats  |
| Driven component:  | Controllable Pitch Propeller   |
| Shaft rotation:    | Counter-rotating input and output shafts   |
| Reduction ratios:  | Custom (on request)  |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | None   |
| Bearing type:      | Slide bearings   |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |

## SVAL

|                    |  |
|--------------------|--|
| Gearbox type:      | Reduction gearbox  |
| Main application:  | Workboats  |
| Driven component:  | Controllable Pitch Propeller   |
| Shaft rotation:    | Counter-rotating input and output shafts   |
| Reduction ratios:  | Custom (on request), two-speed versions available                                |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Slide bearings   |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing  |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)   |



## Gearbox Characteristics

### DLG

|                    |   |
|--------------------|---|
| Gearbox type:      | Twin input / single output reduction gearbox                        |
| Main application:  | Workboats, Ferries  |
| Driven component:  | Controllable Pitch Propeller  |
| Shaft rotation:    | Counter-rotating input and output shafts                            |
| Reduction ratios:  | Custom (on request)   |
| Shaft arrangement: | 2 parallel input and 1 output shaft, horizontally offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                   |
| Bearing type:      | Rolling or slide bearings (size dependent)                          |
| Gearbox housing:   | Steel / Cast iron design  |
| Mounting:          | Free-standing   |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                            |

### DLGF

|                    |   |
|--------------------|---|
| Gearbox type:      | Twin input shafts with attached gear step                           |
| Main application:  | Workboats   |
| Driven component:  | Controllable Pitch Propeller  |
| Shaft rotation:    | Counter-rotating input and output shafts                            |
| Reduction ratios:  | Custom (on request)   |
| Shaft arrangement: | 2 parallel input and 1 output shaft, horizontally offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                   |
| Bearing type:      | Rolling or slide bearings (size dependent)                          |
| Gearbox housing:   | Steel / Cast iron design  |
| Mounting:          | Free-standing   |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                            |

### DUG

|                    |   |
|--------------------|---|
| Gearbox type:      | Twin input / single output reduction gearbox                        |
| Main application:  | Workboats, Ferries with electric drive                              |
| Driven component:  | Controllable or Fixed Pitch Propeller                               |
| Shaft rotation:    | Counter-rotating input and output shafts                            |
| Reduction ratios:  | Custom (on request)   |
| Shaft arrangement: | 2 parallel input and 1 output shaft, horizontally offset (standard) |
| Clutch(es):        | None  |
| Bearing type:      | Rolling or slide bearings (size dependent)                          |
| Gearbox housing:   | Steel / Cast iron design  |
| Mounting:          | Free-standing   |
| Propulsion system: | Electric propulsion   |

### DVLJ

|                    |   |
|--------------------|---|
| Gearbox type:      | Twin input / single output reduction gearbox                        |
| Main application:  | Waterjets   |
| Driven component:  | Jet Propulsion  |
| Shaft rotation:    | Counter-rotating input and output shafts                            |
| Reduction ratios:  | Custom (on request)   |
| Shaft arrangement: | 2 parallel input and 1 output shaft, horizontally offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)                                   |
| Bearing type:      | Roller bearings   |
| Gearbox housing:   | Aluminium alloy   |
| Mounting:          | Free-standing   |
| Propulsion system: | Diesel-mechanic, hybrid ready (optional)                            |





## Gearbox Characteristics

### RDG

|                    |  |
|--------------------|--|
| Gearbox type:      | Reduction gearbox  |
| Main application:  | Dredgers   |
| Driven component:  | Dredger pump   |
| Shaft rotation:    | Counter-rotating input and output shafts   |
| Reduction ratios:  | Custom (on request)  |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | None   |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing  |
| Propulsion system: | Electric propulsion  |

### RDGL

|                    |  |
|--------------------|--|
| Gearbox type:      | Reduction gearbox  |
| Main application:  | Dredgers   |
| Driven component:  | Dredger pump   |
| Shaft rotation:    | Counter-rotating input and output shafts   |
| Reduction ratios:  | Custom (on request)  |
| Shaft arrangement: | Parallel input and output shafts on opposite sides, vertically offset (standard) |
| Clutch(es):        | Hydraulically operated clutch(es)  |
| Bearing type:      | Roller bearings  |
| Gearbox housing:   | Steel / Cast iron design   |
| Mounting:          | Free-standing  |

# Important Notes

## REINTJES Marine Gearboxes

### Warranty

The marine gearboxes are subject to the standard REINTJES warranty conditions. Modifications of the gearbox are only permissible in consultation with REINTJES.

### Torsional Responsibility

The torsional couplings are selected according to engine torque. In the event that different couplings are required as a result of the torsional vibration calculation, the costs for this change will be for the purchaser's account. Torsional vibration analysis can be made by the engine builders, independent consultants etc. The responsibility for ensuring torsional compatibility of the propulsion system rests with the assembler of the equipment. REINTJES cannot be held liable for damages due to inadmissible high alternating moments on the units supplied by us. These will disengage us from any warranty agreement.

### Ratings

Ratings are for diesel engines only, at the rated speeds. The models, ratings, texts, and data contained in this publication are subject to change without prior notice. REINTJES considers standard rotation engines to be counterclockwise (ccw) in rotation, when viewed onto the flywheel end. Please advise REINTJES of engine rotation prior to gearbox selection.

### Safety Information

The majority of accidents which occur during operation, maintenance, and repair are caused by failure to observe basic safety rules and accident-prevention precautions. Accidents can often be avoided by correct assessment of potentially hazardous situations. The operating personnel must, at all times, be alert to potential hazards. Furthermore, they must be fully trained, skilled operators provided with the necessary tools and equipment required to perform these functions correctly. Supplementary to the operating manual, all generally valid legal and other binding regulations for accident prevention and pollution control have to be observed and adhered to.

### Classification

Classification ratings are available on request.

### Options

Information regarding options such as trolling propulsion system, PTO, etc. are available on separate product sheets.

## Marine Duty Profiles



### Continuous Duty

Typical applications: commercial vessels  
Engine speed and power: continuous operation with little or no variations  
Average engine operating hours: unlimited  
Typical hull forms: displacement



### Medium Duty

Typical applications: private, charter, commercial craft, naval and governmental ships  
Engine speed and power: intermittent operation with some variations  
Average engine operating hours: 4000 hours/year  
Typical hull forms: planing, semi-planing, displacement, catamaran



### Light Duty

Typical applications: private, charter, sport and pleasure craft, naval and governmental ships  
Engine speed and power: intermittent operation with large variations  
Average engine operating hours: 2500 hours/year  
Typical hull forms: planing, semi-planing, displacement



### Pleasure Duty

Typical applications: private, noncommercial, noncharter, sport and leisure activities  
Engine speed and power: intermittent operation with very large variations  
Average engine operating hours: 500 hours/year  
Typical hull forms: planing, semi-planing



### Super Pleasure Duty

Typical applications: private, non-commercial, non-charter, sport and leisure activities  
Engine speed and power: intermittent operation with very large variations and very low full power share  
Average engine operating hours: <500 hours/year  
Typical hull forms: planing, semi-planing

## REINTJES Product Portfolio

### ■ WAF

Wendeuntersetzungsgetriebe  
(reverse reduction gearbox)

Achsversetzt  
(shafts offset)

Anflanschführung  
(version with flange)

### ■ WGF

Wendeuntersetzungsgetriebe aus  
WAF (reverse reduction gearbox  
derived from WAF)

Vorsatzstufe angeflanscht  
(flange-connected housing for two-  
step gearbox)

### ■ WVS

Wendeuntersetzungsgetriebe  
(reverse reduction gearbox)

Achsversetzt  
(shafts offset)

für schnelle Schiffe  
(for fast vessels)

### ■ WWSA

WWS in Down-Angle-Ausführung  
(WWS in down angle design)

### ■ WWSFA

WWS in Down-Angle-V-Drive-Aus-  
führung  
Vorsatzstufe angeflanscht  
(flange-connected housing for two-  
step gearbox in down angle design,  
V-drive)

### ■ ZWAF

Zweigang-Wendeuntersetzungs-  
getriebe  
(two-speed reverse reduction  
gearbox)

Achsversetzt  
(shafts offset)

Anflanschführung  
(version with flange)

### ■ ZWVS

Zweigang-Wendeuntersetzungsget-  
riebe aus WVS  
(two-speed reverse reduction gear-  
box derived from WVS)

### ■ ZWWSA

Zweigang-Wendeuntersetzungsget-  
riebe aus WWSA  
(two-speed reverse reduction gear-  
box derived from WWSA)

### ■ ZSVAL

Zweigang-Untersetzungsgetriebe  
(two-speed reduction gearbox)

Slide bearings  
(slide bearings)

Verstellpropeller  
(for controllable pitch propeller)

Achsversetzt  
(shafts offset)

mit Lamellenkupplung  
(with disc clutch)

### ■ AF

Achsversetzt  
(shafts offset)

Anflanschführung  
(version with flange)

### ■ LAF

Untersetzungsgetriebe  
mit Lamellenkupplung  
(reduction gearbox with disc clutch)

Achsversetzt  
(shaft offset)

Anflanschführung  
(version with flange)

### ■ LGF

Untersetzungsgetriebe mit  
Lamellenkupplung  
(reduction gearbox with disc clutch)

ähnlich WGF  
(like WGF)

Vorsatzstufe angeflanscht  
(flange-connected housing for two-  
step gearboxes)

### ■ WLS

Untersetzungsgetriebe aus WWS  
(reduction gearbox derived from  
WWS)

mit Lamellenkupplung (with disc  
clutch)

### ■ VLJ

Achsversetztes Untersetzungsget-  
riebe  
(reduction gearbox with offset  
shafts)

mit Lamellenkupplung  
(with disc clutch)

für WaterJet  
(for water-jet)

### ■ VA

Untersetzungsgetriebe für Verstell-  
propeller  
(reduction gearbox for controllable  
pitch propeller)

Achsversetzt (shafts offset)

### ■ SVA

Untersetzungsgetriebe mit  
„Slide bearings“  
(reduction gearbox with slide  
bearings)

Verstellpropeller  
(for controllable pitch propeller)

Achsversetzt  
(shafts offset)

### ■ SVAL

Untersetzungsgetriebe mit  
„Slide bearings“  
(reduction gearbox with slide  
bearings)

Verstellpropeller  
(for controllable pitch propeller)

Achsversetzt  
(shafts offset)

mit Lamellenkupplung  
(with disc clutch)

### ■ SVLJ

Untersetzungsgetriebe mit  
„Slide bearings“  
(reduction gearbox with slide  
bearings)

Achsversetzt  
(with offset shafts)

mit Lamellenkupplung  
(with disc clutch)

für WaterJet  
(for water-jet)

### ■ DLG

Doppeluntersetzungsgetriebe  
(twin input/single output reduction  
gearbox)

mit Lamellenkupplung  
(with disc clutch)

Gleiche Höhe  
(same height of the input shafts)

### ■ DUG

Doppeluntersetzungsgetriebe  
(twin input/single output reduction  
gearbox)

Horizontal, gleiche Höhe  
(horizontal, equal height)

### ■ RDG

REINTJES Dredging Gearbox  
(REINTJES Dredging Gearbox)

### ■ RDGL

REINTJES Dredging Gearbox  
(REINTJES Dredging Gearbox)  
mit Lamellenkupplung  
(with disc clutch)

## Abbreviations used after the Type designation

### ■ L

Limited torque version of gearbox  
type

### ■ DL

Diagonal Left offset of input shaft in  
view of output shaft

### ■ DR

Diagonal Right offset of input shaft in  
view of output shaft

### ■ HL

Horizontal Left offset of input shaft  
in view of output shaft

### ■ HR

Horizontal Right offset of input shaft  
in view of output shaft

### ■ U

U - Drive, input and output on the  
same side

### ■ HSnn

Hybrid System, gearbox with  
electrical motor of 10 x nn kW

# Marine Propulsion Packages

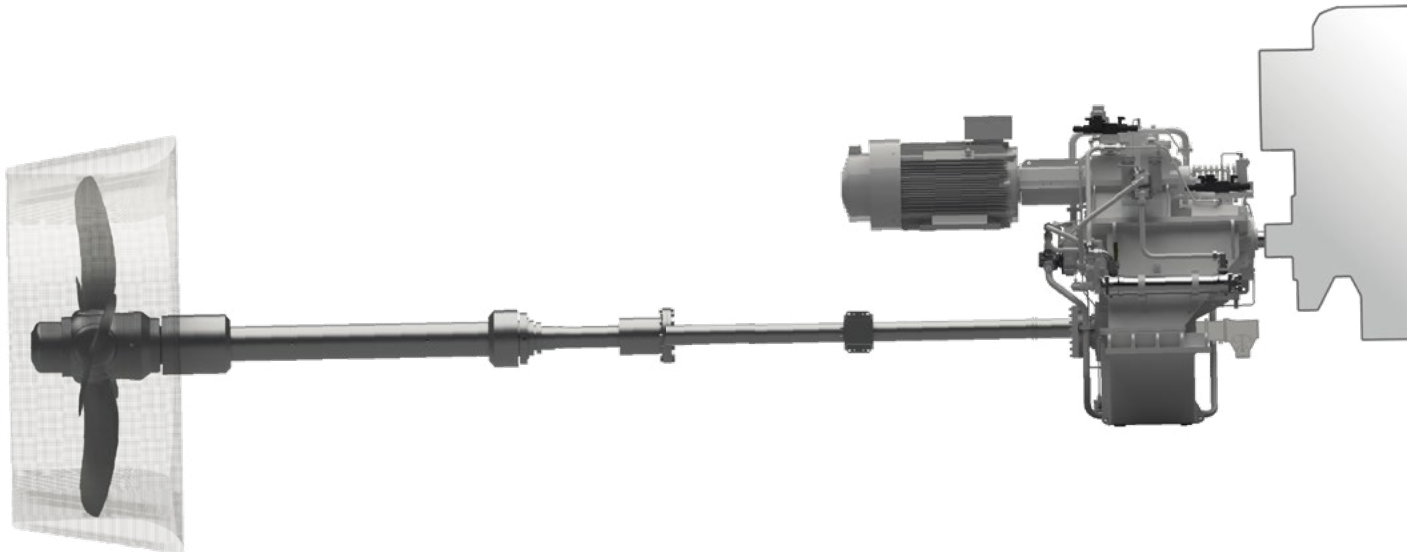
## Based on REINTJES Gearboxes

can consist of multiple features like

- Propeller and nozzle
- Shafts (incl. tail shaft and intermediate shaft)
- Shafting arrangement and calculations
- Couplings
- PTI / PTO
- Hybrid Package  
(incl. electric motor and frequency converter)
- Control system
- Monitoring system
- Powertrain consultancy
- and more

REINTJES offers various packages independently from other suppliers. The expertise developed by REINTJES in more than 100 years of experience in marine Powertrain Solutions and the strong network within marine industry enable REINTJES to find the best package solution for your demand. Please contact our sales team for your customised marine package.

## CPP



# Marine Propulsion Packages

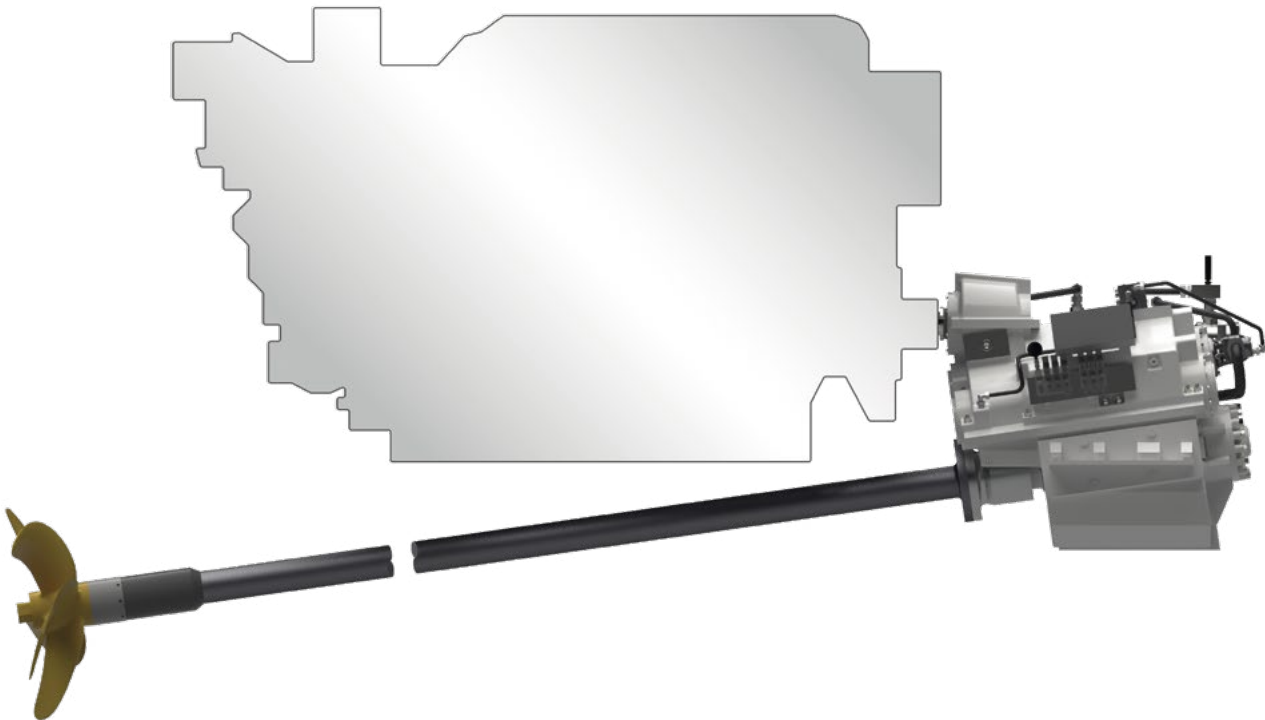
## Based on REINTJES Gearboxes

can consist of multiple features like

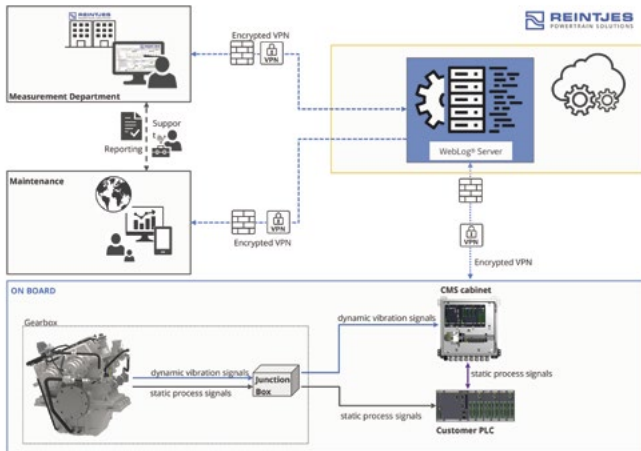
- Propeller
- Shafts (incl. tail shaft and intermediate shaft)
- Shafting arrangement and calculations
- Couplings
- PTI / PTO
- Hybrid Package  
(incl. electric motor and frequency converter)
- Control system
- Monitoring system
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- and more

REINTJES offers various packages independently from other suppliers. The expertise developed by REINTJES in more than 100 years of experience in marine Powertrain Solutions and the strong network within marine industry enable REINTJES to find the best package solution for your demand. Please contact our sales team for your customised marine package.

FPP



## Condition Monitoring System



- Continuous monitoring of highly dynamic vibrations and process values
- Automatic trend monitoring of frequency-selective characteristic values for early wear detection
- Supporting customers with preventive measures and machine diagnostics
- Support for condition-based maintenance and increasing machine availability

## REINTJES Control System



- Modular system architecture for standard and customized applications
- Engine control, speed curves and engine stall protection
- Gear operation, reversing maneuver curves
- Control of PTO and PTI, Trolling and Slip & Grip
- Wide range of hybrid propulsion solutions
- Internal software PLC to add special functions
- Designed to meet all requirements of classification societies
- Connected to all common marine engines and transmissions
- Interfaces to DP systems, autopilot or VDR can be provided
- Wide range of parameters to adapt the system to the requirements

| Functions             | GBX-A | GBX-C |
|-----------------------|-------|-------|
| Ahead                 | X     | X     |
| Astern                | X     | X     |
| ADS                   | X     | X     |
| Shaft Brake           | X     |       |
| PTI /PTO              | X     |       |
| 2nd Gear              | X     |       |
| Visualisation via HMI | X     |       |

| GBX-A available for: |                         |          |
|----------------------|-------------------------|----------|
| Down Angle           | WVSA                    | Standard |
|                      | WVSFA                   | Standard |
| Small Gears          | WF 350-580              | Option   |
| Medium Gears         | WAF/LAF 665-1973        | Option   |
|                      | WGF/LGF 665-1963        | Option   |
| Light Gears          | WVS / WLS small 234-430 | Option   |
|                      | WVS / WLS mid 730-2240  | Option   |
|                      | VLJ mid 430-2230        | Option   |



WGF 863 with GBX-A

|                              |  | Gearbox Type |     |     |     |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     |     |      |   |
|------------------------------|--|--------------|-----|-----|-----|------|-------|------|------|---|-------|-------|----|-----|-----|-----|------|----|-----|------|-----|-----|-----|------|---|
|                              |  | WF           | WAF | WGF | WVS | WVSA | WV5FA | ZWAF | ZWVS |   | ZWVSA | ZSVAL | AF | LAF | LGF | WLS | V LJ | VA | SVA | SVAL | DLG | DUG | RDG | RDGL |   |
| Application Driven component | Workboats                                | x            | x   |     |     |      |       |      |      |   |       |       |    | x   |     |     |      |    |     |      |     |     |     |      |   |
|                              | Fishing vessels                          | x            | x   | x   |     |      |       | x    |      |   |       | x     |    | x   | x   |     |      |    | x   | x    |     |     |     |      |   |
|                              | Inland waterway vessels                  | x            | x   |     |     |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     |     |      |   |
|                              | Tug boats                                | x            | x   |     |     |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     |     |      |   |
|                              | Cargo vessels                            | x            | x   |     |     |      |       |      |      |   |       |       |    |     | x   |     |      |    | x   | x    | x   |     |     |      |   |
|                              | Patrol vessels                           |              |     |     | x   | x    |       |      | x    |   | x     |       |    |     |     |     | x    |    |     |      |     |     | x   |      |   |
|                              | Crew transfer vessels                    |              |     |     | x   |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     |     |      |   |
|                              | Fast yachts                              |              |     |     | x   |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     |     |      |   |
|                              | Yachts                                   |              |     |     |     | x    | x     |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     |     |      |   |
|                              | Wind farm maintenance and supply vessels |              |     |     |     |      | x     |      |      |   | x     |       |    |     |     |     |      |    |     |      |     |     |     |      |   |
|                              | Full electric vessels                    |              |     |     |     |      |       |      |      |   |       |       |    | x   |     |     |      |    |     |      |     |     |     |      |   |
|                              | Fast ferries                             |              |     |     |     |      |       |      |      |   |       |       |    |     |     |     |      | x  |     |      |     |     |     |      |   |
|                              | Ro Ro ferries                            |              |     |     |     |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     | x   |      |   |
|                              | Corvettes                                |              |     |     |     |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     | x   |      |   |
|                              | Frigates                                 |              |     |     |     |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     | x   |      |   |
|                              | Electric drive vessels                   |              |     |     |     |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     |     | x    |   |
| Dredgers                     |  |              |     |     |     |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     |     | x    | x |
| Driven component             | FPP                                      | x            | x   | x   | x   | x    | x     | x    | x    |   | x     |       | x  |     |     |     |      |    |     |      |     |     |     |      |   |
|                              | CPP                                      |              |     |     |     |      |       |      |      |   |       |       | x  | x   | x   | x   |      | x  | x   | x    | x   | x   |     |      |   |
|                              | Waterjet                                 |              |     |     |     |      |       |      |      |   |       |       |    |     |     |     |      | x  |     |      |     |     |     |      |   |
|                              | Dredger pump                             |              |     |     |     |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     |     | x    | x |
| Gearbox Characteristics      | Reverse reduction                        | x            | x   | x   | x   | x    | x     | x    | x    |   | x     |       |    |     |     |     |      |    |     |      |     |     |     |      |   |
|                              | clutchable                               | x            | x   | x   | x   | x    | x     | x    | x    |   | x     | x     |    | x   | x   | x   | x    |    |     |      | x   | x   |     |      | x |
|                              | Two speed                                |              |     |     |     |      |       | x    | x    |   | x     | x     |    |     |     |     |      |    |     |      |     |     |     |      |   |
|                              | Down Angle                               |              |     |     |     |      | x     | x    |      |   | x     |       |    |     |     |     |      |    |     |      |     |     |     |      |   |
|                              | Twin in - single out                     |              |     |     |     |      |       |      |      |   |       |       |    |     |     |     |      |    |     |      |     |     | x   | x    |   |
|                              | Cast iron / steel housing                | x            | x   | x   | x   |      |       | x    |      |   |       | x     | x  | x   | x   |     |      |    | x   | x    | x   | x   | x   | x    | x |
| Aluminium housing            |  |              |     | x   | x   | x    |       | x    |      | x |       |       |    |     |     | x   | x    |    |     |      |     |     |     |      |   |

This table provides a general overview. It is not strictly binding and may vary from project to project.





# WF series

|               |                        |              |  | kW/rpm | kg   | kW       | (BHP)    | kW         | (BHP)  | kW   | (BHP)  |
|---------------|------------------------|--------------|--|--------|------|----------|----------|------------|--------|------|--------|
| <b>WF 350</b> | <b>Continuous Duty</b> |              |  |        | 695  | 1600 rpm | 1950 rpm | 2300 rpm * |        |      |        |
| <b>4.190</b>  | <b>4.737</b>           | <b>5.056</b> |  | 0.34   |      | 544      | (730)    | 663        | (889)  | 782  | (1049) |
| <b>WF 370</b> | <b>Continuous Duty</b> |              |  |        | 730  | 1600 rpm | 1950 rpm | 2300 rpm * |        |      |        |
| <b>5.381</b>  | <b>6.053</b>           | <b>6.444</b> |  | 0.34   |      | 544      | (730)    | 663        | (889)  | 782  | (1049) |
| <b>WF 380</b> | <b>Continuous Duty</b> |              |  |        | 1205 | 1600 rpm | 1950 rpm | 2300 rpm * |        |      |        |
| <b>6.714</b>  | <b>7.526</b>           | <b>8.000</b> |  | 0.34   |      | 544      | (730)    | 663        | (889)  | 782  | (1049) |
| <b>WF 450</b> | <b>Continuous Duty</b> |              |  |        | 875  | 1600 rpm | 1950 rpm | 2300 rpm * |        |      |        |
| <b>4.190</b>  | <b>4.737</b>           | <b>5.056</b> |  | 0.48   |      | 768      | (1030)   | 936        | (1255) | 1104 | (1480) |
| <b>WF 470</b> | <b>Continuous Duty</b> |              |  |        | 1145 | 1600 rpm | 1950 rpm | 2300 rpm * |        |      |        |
| <b>5.381</b>  | <b>6.053</b>           | <b>6.444</b> |  | 0.48   |      | 768      | (1030)   | 936        | (1255) | 1104 | (1480) |
| <b>WF 480</b> | <b>Continuous Duty</b> |              |  |        | 1565 | 1600 rpm | 1950 rpm | 2300 rpm * |        |      |        |
| <b>6.714</b>  | <b>7.526</b>           | <b>8.000</b> |  | 0.48   |      | 768      | (1030)   | 936        | (1255) | 1104 | (1480) |
| <b>WF 550</b> | <b>Continuous Duty</b> |              |  |        | 1200 | 1400 rpm | 1800 rpm | 2300 rpm * |        |      |        |
| <b>4.190</b>  | <b>4.737</b>           | <b>5.056</b> |  | 0.63   |      | 882      | (1183)   | 1134       | (1521) | 1449 | (1943) |
| <b>WF 570</b> | <b>Continuous Duty</b> |              |  |        | 1425 | 1400 rpm | 1800 rpm | 2300 rpm * |        |      |        |
| <b>5.381</b>  | <b>6.053</b>           | <b>6.444</b> |  | 0.63   |      | 882      | (1183)   | 1134       | (1521) | 1449 | (1943) |
| <b>WF 580</b> | <b>Continuous Duty</b> |              |  |        | 1850 | 1400 rpm | 1800 rpm | 2300 rpm * |        |      |        |
| <b>6.714</b>  | <b>7.526</b>           | <b>8.000</b> |  | 0.63   |      | 882      | (1183)   | 1134       | (1521) | 1449 | (1943) |



# WAF 164 series

|                                 |              |              | kW/rpm | kg  | kW       | (BHP) | kW       | (BHP) | kW         | (BHP) |
|---------------------------------|--------------|--------------|--------|-----|----------|-------|----------|-------|------------|-------|
| <b>WAF 164L Continuous Duty</b> |              |              |        | 525 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>3.964</b>                    | <b>4.560</b> | <b>5.043</b> | 0.20   |     | 320      | (429) | 360      | (483) | 420        | (563) |
| <b>5.950</b>                    |              |              | 0.16   |     | 256      | (343) | 288      | (386) | 336        | (451) |
| <b>WAF 164 Continuous Duty</b>  |              |              |        | 525 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>3.964</b>                    | <b>4.560</b> | <b>5.043</b> | 0.22   |     | 352      | (472) | 396      | (531) | 462        | (620) |
| <b>5.950</b>                    |              |              | 0.21   |     | 336      | (451) | 378      | (507) | 441        | (591) |
| <b>WAF 164L Medium Duty</b>     |              |              |        | 525 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>3.964</b>                    | <b>4.560</b> | <b>5.043</b> | 0.22   |     | 352      | (472) | 396      | (531) | 462        | (620) |
| <b>5.950</b>                    |              |              | 0.20   |     | 320      | (429) | 360      | (483) | 420        | (563) |
| <b>WAF 164 Medium Duty</b>      |              |              |        | 525 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>3.964</b>                    | <b>4.560</b> | <b>5.043</b> | 0.23   |     | 368      | (493) | 414      | (555) | 483        | (648) |
| <b>5.950</b>                    |              |              | 0.21   |     | 336      | (451) | 378      | (507) | 441        | (591) |
| <b>WAF 164L Light Duty</b>      |              |              |        | 525 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>3.964</b>                    | <b>4.560</b> | <b>5.043</b> | 0.23   |     | 368      | (493) | 414      | (555) | 483        | (648) |
| <b>5.950</b>                    |              |              | 0.21   |     | 336      | (451) | 378      | (507) | 441        | (591) |
| <b>WAF 164 Light Duty</b>       |              |              |        | 525 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>3.964</b>                    | <b>4.560</b> | <b>5.043</b> | 0.24   |     | 384      | (515) | 432      | (579) | 504        | (676) |
| <b>5.950</b>                    |              |              | 0.22   |     | 352      | (472) | 396      | (531) | 462        | (620) |
| <b>WAF 164L Pleasure Duty</b>   |              |              |        | 525 | 1900 rpm |       | 2100 rpm |       | 2300 rpm * |       |
| <b>3.964</b>                    | <b>4.560</b> | <b>5.043</b> | 0.24   |     | 456      | (611) | 504      | (676) | 552        | (740) |
| <b>5.950</b>                    |              |              | 0.22   |     | 418      | (561) | 462      | (620) | 506        | (679) |
| <b>WAF 164 Pleasure Duty</b>    |              |              |        | 525 | 1900 rpm |       | 2100 rpm |       | 2300 rpm * |       |
| <b>3.964</b>                    | <b>4.560</b> | <b>5.043</b> | 0.25   |     | 475      | (637) | 525      | (704) | 575        | (771) |
| <b>5.950</b>                    |              |              | 0.23   |     | 437      | (586) | 483      | (648) | 529        | (709) |



# WAF 244 series

|                                 |              |              | kW/rpm | kg  | kW       | (BHP) | kW       | (BHP) | kW         | (BHP) |
|---------------------------------|--------------|--------------|--------|-----|----------|-------|----------|-------|------------|-------|
| <b>WAF 244L Continuous Duty</b> |              |              |        | 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>2.037</b>                    | <b>2.538</b> | <b>2.957</b> | 0.25   |     | 400      | (536) | 450      | (603) | 525        | (704) |
| <b>3.522</b>                    |              |              | 0.23   |     | 368      | (493) | 414      | (555) | 483        | (648) |
| <b>WAF 244 Continuous Duty</b>  |              |              |        | 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>2.037</b>                    | <b>2.538</b> |              | 0.29   |     | 464      | (622) | 522      | (700) | 609        | (817) |
| <b>2.957</b>                    |              |              | 0.27   |     | 432      | (579) | 486      | (652) | 567        | (760) |
| <b>3.478</b>                    | <b>3.522</b> |              | 0.24   |     | 384      | (515) | 432      | (579) | 504        | (676) |
| <b>3.952</b>                    |              |              | 0.23   |     | 368      | (493) | 414      | (555) | 483        | (648) |
| <b>WAF 244L Medium Duty</b>     |              |              |        | 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>2.037</b>                    | <b>2.538</b> |              | 0.28   |     | 448      | (601) | 504      | (676) | 588        | (789) |
| <b>2.957</b>                    |              |              | 0.26   |     | 416      | (558) | 468      | (628) | 546        | (732) |
| <b>3.522</b>                    |              |              | 0.24   |     | 384      | (515) | 432      | (579) | 504        | (676) |
| <b>3.952</b>                    |              |              | 0.22   |     | 352      | (472) | 396      | (531) | 462        | (620) |
| <b>WAF 244 Medium Duty</b>      |              |              |        | 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>2.037</b>                    | <b>2.538</b> |              | 0.29   |     | 464      | (622) | 522      | (700) | 609        | (817) |
| <b>2.957</b>                    |              |              | 0.27   |     | 432      | (579) | 486      | (652) | 567        | (760) |
| <b>3.478</b>                    | <b>3.522</b> |              | 0.25   |     | 400      | (536) | 450      | (603) | 525        | (704) |
| <b>3.952</b>                    |              |              | 0.23   |     | 368      | (493) | 414      | (555) | 483        | (648) |
| <b>WAF 244L Light Duty</b>      |              |              |        | 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>2.037</b>                    | <b>2.538</b> |              | 0.28   |     | 448      | (601) | 504      | (676) | 588        | (789) |
| <b>2.957</b>                    |              |              | 0.27   |     | 432      | (579) | 486      | (652) | 567        | (760) |
| <b>3.522</b>                    |              |              | 0.25   |     | 400      | (536) | 450      | (603) | 525        | (704) |
| <b>3.952</b>                    |              |              | 0.23   |     | 368      | (493) | 414      | (555) | 483        | (648) |
| <b>WAF 244 Light Duty</b>       |              |              |        | 455 | 1600 rpm |       | 1800 rpm |       | 2100 rpm * |       |
| <b>2.037</b>                    | <b>2.538</b> |              | 0.29   |     | 469      | (629) | 527      | (707) | 615        | (825) |
| <b>2.957</b>                    |              |              | 0.28   |     | 448      | (601) | 504      | (676) | 588        | (789) |
| <b>3.478</b>                    | <b>3.522</b> |              | 0.26   |     | 416      | (558) | 468      | (628) | 546        | (732) |
| <b>3.478</b>                    | <b>3.522</b> |              | 0.26   |     | 411      | (551) | 463      | (620) | 540        | (724) |
| <b>3.952</b>                    |              |              | 0.24   |     | 384      | (515) | 432      | (579) | 504        | (676) |
| <b>WAF 244L Pleasure Duty</b>   |              |              |        | 455 | 1900 rpm |       | 2100 rpm |       | 2300 rpm * |       |
| <b>2.037</b>                    | <b>2.538</b> | <b>2.957</b> | 0.28   |     | 532      | (713) | 588      | (789) | 644        | (864) |



## WAF 244 series

|                               |              |              |  | kW/rpm | kg  | kW              | (BHP) | kW              | (BHP) | kW                | (BHP) |
|-------------------------------|--------------|--------------|--|--------|-----|-----------------|-------|-----------------|-------|-------------------|-------|
| <b>WAF 244L Pleasure Duty</b> |              |              |  |        | 455 | <b>1900 rpm</b> |       | <b>2100 rpm</b> |       | <b>2300 rpm *</b> |       |
| <b>3.522</b>                  |              |              |  | 0.26   |     | 494             | (662) | 546             | (732) | 598               | (802) |
| <b>3.952</b>                  |              |              |  | 0.24   |     | 456             | (611) | 504             | (676) | 552               | (740) |
| <b>WAF 244 Pleasure Duty</b>  |              |              |  |        | 455 | <b>1900 rpm</b> |       | <b>2100 rpm</b> |       | <b>2300 rpm *</b> |       |
| <b>2.037</b>                  | <b>2.538</b> | <b>2.957</b> |  | 0.29   |     | 557             | (747) | 615             | (825) | 674               | (904) |
| <b>2.037</b>                  | <b>2.538</b> | <b>2.957</b> |  | 0.29   |     | 551             | (739) | 609             | (817) | 667               | (894) |
| <b>3.522</b>                  |              |              |  | 0.27   |     | 513             | (688) | 567             | (760) | 621               | (833) |
| <b>3.478</b>                  |              |              |  | 0.26   |     | 488             | (655) | 540             | (724) | 591               | (793) |
| <b>3.952</b>                  |              |              |  | 0.25   |     | 475             | (637) | 525             | (704) | 575               | (771) |



## WAF 264 series

|                                 |              |              |              | kW/rpm | kg  | kW              | (BHP) | kW              | (BHP) | kW                | (BHP) |
|---------------------------------|--------------|--------------|--------------|--------|-----|-----------------|-------|-----------------|-------|-------------------|-------|
| <b>WAF 264L Continuous Duty</b> |              |              |              |        | 700 | <b>1600 rpm</b> |       | <b>1800 rpm</b> |       | <b>2100 rpm *</b> |       |
| <b>3.519</b>                    | <b>4.083</b> | <b>4.500</b> | <b>5.050</b> | 0.25   |     | 400             | (536) | 450             | (603) | 525               | (704) |
| <b>5.476</b>                    |              |              |              | 0.24   |     | 384             | (515) | 432             | (579) | 504               | (676) |
| <b>5.800</b>                    |              |              |              | 0.22   |     | 352             | (472) | 396             | (531) | 462               | (620) |
| <b>WAF 264 Continuous Duty</b>  |              |              |              |        | 700 | <b>1600 rpm</b> |       | <b>1800 rpm</b> |       | <b>2100 rpm *</b> |       |
| <b>3.519</b>                    | <b>4.083</b> | <b>4.500</b> | <b>4.762</b> | 0.29   |     | 464             | (622) | 522             | (700) | 609               | (817) |
| <b>5.050</b>                    |              |              |              | 0.27   |     | 432             | (579) | 486             | (652) | 567               | (760) |
| <b>5.476</b>                    |              |              |              | 0.26   |     | 416             | (558) | 468             | (628) | 546               | (732) |
| <b>5.800</b>                    |              |              |              | 0.24   |     | 384             | (515) | 432             | (579) | 504               | (676) |
| <b>WAF 264L Medium Duty</b>     |              |              |              |        | 700 | <b>1600 rpm</b> |       | <b>1800 rpm</b> |       | <b>2100 rpm *</b> |       |
| <b>3.519</b>                    | <b>4.083</b> | <b>4.500</b> |              | 0.28   |     | 448             | (601) | 504             | (676) | 588               | (789) |
| <b>5.050</b>                    |              |              |              | 0.26   |     | 416             | (558) | 468             | (628) | 546               | (732) |
| <b>5.476</b>                    |              |              |              | 0.24   |     | 384             | (515) | 432             | (579) | 504               | (676) |
| <b>5.800</b>                    |              |              |              | 0.23   |     | 368             | (493) | 414             | (555) | 483               | (648) |
| <b>WAF 264 Medium Duty</b>      |              |              |              |        | 700 | <b>1600 rpm</b> |       | <b>1800 rpm</b> |       | <b>2100 rpm *</b> |       |
| <b>3.519</b>                    | <b>4.083</b> | <b>4.500</b> | <b>4.762</b> | 0.29   |     | 464             | (622) | 522             | (700) | 609               | (817) |
| <b>5.050</b>                    |              |              |              | 0.27   |     | 432             | (579) | 486             | (652) | 567               | (760) |
| <b>5.476</b>                    |              |              |              | 0.26   |     | 416             | (558) | 468             | (628) | 546               | (732) |
| <b>5.800</b>                    |              |              |              | 0.24   |     | 384             | (515) | 432             | (579) | 504               | (676) |



# WAF 264 series

|                               |              |              |              |              | kW/rpm | kg | kW              | (BHP) | kW              | (BHP) | kW                | (BHP) |
|-------------------------------|--------------|--------------|--------------|--------------|--------|----|-----------------|-------|-----------------|-------|-------------------|-------|
| <b>WAF 264L Light Duty</b>    |              |              |              |              | 700    |    | <b>1600 rpm</b> |       | <b>1800 rpm</b> |       | <b>2100 rpm *</b> |       |
| <b>3.519</b>                  | <b>4.083</b> | <b>4.500</b> |              |              | 0.28   |    | 448             | (601) | 504             | (676) | 588               | (789) |
| <b>5.050</b>                  |              |              |              |              | 0.27   |    | 432             | (579) | 486             | (652) | 567               | (760) |
| <b>5.476</b>                  |              |              |              |              | 0.26   |    | 416             | (558) | 468             | (628) | 546               | (732) |
| <b>WAF 264L Light Duty</b>    |              |              |              |              | 700    |    | <b>1600 rpm</b> |       | <b>1800 rpm</b> |       | <b>2100 rpm *</b> |       |
| <b>5.800</b>                  |              |              |              |              | 0.24   |    | 384             | (515) | 432             | (579) | 504               | (676) |
| <b>WAF 264 Light Duty</b>     |              |              |              |              | 700    |    | <b>1600 rpm</b> |       | <b>1800 rpm</b> |       | <b>2100 rpm *</b> |       |
| <b>3.519</b>                  | <b>4.083</b> | <b>4.500</b> | <b>4.762</b> |              | 0.29   |    | 469             | (629) | 527             | (707) | 615               | (825) |
| <b>5.050</b>                  |              |              |              |              | 0.28   |    | 448             | (601) | 504             | (676) | 588               | (789) |
| <b>5.476</b>                  |              |              |              |              | 0.27   |    | 432             | (579) | 486             | (652) | 567               | (760) |
| <b>5.800</b>                  |              |              |              |              | 0.25   |    | 400             | (536) | 450             | (603) | 525               | (704) |
| <b>WAF 264L Pleasure Duty</b> |              |              |              |              | 700    |    | <b>1900 rpm</b> |       | <b>2100 rpm</b> |       | <b>2300 rpm *</b> |       |
| <b>3.519</b>                  | <b>4.083</b> | <b>4.500</b> | <b>5.050</b> |              | 0.28   |    | 532             | (713) | 588             | (789) | 644               | (864) |
| <b>5.476</b>                  |              |              |              |              | 0.27   |    | 513             | (688) | 567             | (760) | 621               | (833) |
| <b>5.800</b>                  |              |              |              |              | 0.25   |    | 475             | (637) | 525             | (704) | 575               | (771) |
| <b>WAF 264 Pleasure Duty</b>  |              |              |              |              | 700    |    | <b>1900 rpm</b> |       | <b>2100 rpm</b> |       | <b>2300 rpm *</b> |       |
| <b>3.519</b>                  | <b>4.083</b> | <b>4.500</b> | <b>4.762</b> | <b>5.050</b> | 0.29   |    | 557             | (747) | 615             | (825) | 674               | (904) |
| <b>3.519</b>                  | <b>4.083</b> | <b>4.500</b> | <b>4.762</b> | <b>5.050</b> | 0.29   |    | 551             | (739) | 609             | (817) | 667               | (894) |
| <b>5.476</b>                  |              |              |              |              | 0.28   |    | 532             | (713) | 588             | (789) | 644               | (864) |
| <b>5.800</b>                  |              |              |              |              | 0.26   |    | 494             | (662) | 546             | (732) | 598               | (802) |



# WAF 274 series

|                 |                        | kW/rpm | kg  | kW (BHP)  | kW (BHP)  | kW (BHP)   | kW (BHP) |
|-----------------|------------------------|--------|-----|-----------|-----------|------------|----------|
| <b>WAF 274L</b> | <b>Continuous Duty</b> |        | 725 | 1600 rpm  | 1800 rpm  | 2100 rpm * |          |
| <b>6.400</b>    |                        | 0.26   |     | 416 (558) | 468 (628) | 546 (732)  |          |
| <b>6.115</b>    | <b>7.043</b>           | 0.25   |     | 400 (536) | 450 (603) | 525 (704)  |          |
| <b>7.409</b>    |                        | 0.24   |     | 384 (515) | 432 (579) | 504 (676)  |          |
| <b>WAF 274</b>  | <b>Continuous Duty</b> |        | 725 | 1600 rpm  | 1800 rpm  | 2100 rpm * |          |
| <b>6.115</b>    | <b>6.400</b>           | 0.29   |     | 464 (622) | 522 (700) | 609 (817)  |          |
| <b>7.043</b>    |                        | 0.27   |     | 432 (579) | 486 (652) | 567 (760)  |          |
| <b>7.409</b>    |                        | 0.25   |     | 400 (536) | 450 (603) | 525 (704)  |          |
| <b>WAF 274L</b> | <b>Medium Duty</b>     |        | 725 | 1600 rpm  | 1800 rpm  | 2100 rpm * |          |
| <b>6.115</b>    | <b>6.400</b>           | 0.28   |     | 448 (601) | 504 (676) | 588 (789)  |          |
| <b>7.043</b>    |                        | 0.26   |     | 416 (558) | 468 (628) | 546 (732)  |          |
| <b>7.409</b>    |                        | 0.24   |     | 384 (515) | 432 (579) | 504 (676)  |          |
| <b>WAF 274</b>  | <b>Medium Duty</b>     |        | 725 | 1600 rpm  | 1800 rpm  | 2100 rpm * |          |
| <b>6.115</b>    | <b>6.400</b>           | 0.29   |     | 464 (622) | 522 (700) | 609 (817)  |          |
| <b>7.043</b>    |                        | 0.27   |     | 432 (579) | 486 (652) | 567 (760)  |          |
| <b>7.409</b>    |                        | 0.25   |     | 400 (536) | 450 (603) | 525 (704)  |          |
| <b>WAF 274L</b> | <b>Light Duty</b>      |        | 725 | 1600 rpm  | 1800 rpm  | 2100 rpm * |          |
| <b>6.115</b>    | <b>6.400</b>           | 0.28   |     | 448 (601) | 504 (676) | 588 (789)  |          |
| <b>7.043</b>    |                        | 0.27   |     | 432 (579) | 486 (652) | 567 (760)  |          |
| <b>7.409</b>    |                        | 0.25   |     | 400 (536) | 450 (603) | 525 (704)  |          |
| <b>WAF 274</b>  | <b>Light Duty</b>      |        | 725 | 1600 rpm  | 1800 rpm  | 2100 rpm * |          |
| <b>6.115</b>    | <b>6.400</b>           | 0.29   |     | 469 (629) | 527 (707) | 615 (825)  |          |
| <b>7.043</b>    |                        | 0.28   |     | 448 (601) | 504 (676) | 588 (789)  |          |
| <b>7.409</b>    |                        | 0.26   |     | 416 (558) | 468 (628) | 546 (732)  |          |
| <b>WAF 274L</b> | <b>Pleasure Duty</b>   |        | 725 | 1900 rpm  | 2100 rpm  | 2300 rpm * |          |
| <b>6.115</b>    | <b>6.400</b>           | 0.28   |     | 532 (713) | 588 (789) | 644 (864)  |          |
| <b>7.043</b>    | <b>7.409</b>           | 0.26   |     | 494 (662) | 546 (732) | 598 (802)  |          |
| <b>WAF 274</b>  | <b>Pleasure Duty</b>   |        | 725 | 1900 rpm  | 2100 rpm  | 2300 rpm * |          |
| <b>6.115</b>    | <b>6.400</b>           | 0.29   |     | 557 (747) | 615 (825) | 674 (904)  |          |
| <b>7.043</b>    | <b>7.409</b>           | 0.27   |     | 513 (688) | 567 (760) | 621 (833)  |          |



# WAF 344 series

|                                 |              |              | kW/rpm | kg  | kW (BHP)  | kW (BHP)   | kW (BHP)   | kW (BHP)   |
|---------------------------------|--------------|--------------|--------|-----|-----------|------------|------------|------------|
| <b>WAF 344L Continuous Duty</b> |              |              |        | 730 | 1600 rpm  |            | 1800 rpm   | 2100 rpm * |
| <b>1.972</b>                    | <b>2.452</b> | <b>2.963</b> | 0.33   |     | 528 (708) | 594 (797)  | 693 (929)  |            |
| <b>3.571</b>                    |              |              | 0.29   |     | 464 (622) | 522 (700)  | 609 (817)  |            |
| <b>4.053</b>                    |              |              | 0.28   |     | 448 (601) | 504 (676)  | 588 (789)  |            |
| <b>WAF 344 Continuous Duty</b>  |              |              |        | 730 | 1600 rpm  |            | 1800 rpm   | 2100 rpm * |
| <b>1.972</b>                    | <b>2.452</b> | <b>2.963</b> | 0.36   |     | 576 (772) | 648 (869)  | 756 (1014) |            |
| <b>3.280</b>                    | <b>3.571</b> |              | 0.33   |     | 528 (708) | 594 (797)  | 693 (929)  |            |
| <b>4.053</b>                    |              |              | 0.31   |     | 496 (665) | 558 (748)  | 651 (873)  |            |
| <b>WAF 344L Medium Duty</b>     |              |              |        | 730 | 1600 rpm  |            | 1800 rpm   | 2100 rpm * |
| <b>1.972</b>                    | <b>2.452</b> | <b>2.963</b> | 0.35   |     | 560 (751) | 630 (845)  | 735 (986)  |            |
| <b>3.571</b>                    |              |              | 0.32   |     | 512 (687) | 576 (772)  | 672 (901)  |            |
| <b>4.053</b>                    |              |              | 0.30   |     | 480 (644) | 540 (724)  | 630 (845)  |            |
| <b>WAF 344 Medium Duty</b>      |              |              |        | 730 | 1600 rpm  |            | 1800 rpm   | 2100 rpm * |
| <b>1.972</b>                    | <b>2.452</b> | <b>2.963</b> | 0.36   |     | 576 (772) | 648 (869)  | 756 (1014) |            |
| <b>3.280</b>                    | <b>3.571</b> |              | 0.33   |     | 528 (708) | 594 (797)  | 693 (929)  |            |
| <b>4.053</b>                    |              |              | 0.31   |     | 496 (665) | 558 (748)  | 651 (873)  |            |
| <b>WAF 344L Light Duty</b>      |              |              |        | 730 | 1600 rpm  |            | 1800 rpm   | 2100 rpm * |
| <b>1.972</b>                    | <b>2.452</b> | <b>2.963</b> | 0.36   |     | 576 (772) | 648 (869)  | 756 (1014) |            |
| <b>3.571</b>                    |              |              | 0.33   |     | 528 (708) | 594 (797)  | 693 (929)  |            |
| <b>4.053</b>                    |              |              | 0.31   |     | 496 (665) | 558 (748)  | 651 (873)  |            |
| <b>WAF 344 Light Duty</b>       |              |              |        | 730 | 1600 rpm  |            | 1800 rpm   | 2100 rpm * |
| <b>1.972</b>                    | <b>2.452</b> | <b>2.963</b> | 0.37   |     | 592 (794) | 666 (893)  | 777 (1042) |            |
| <b>3.280</b>                    | <b>3.571</b> |              | 0.34   |     | 544 (730) | 612 (821)  | 714 (957)  |            |
| <b>4.053</b>                    |              |              | 0.32   |     | 512 (687) | 576 (772)  | 672 (901)  |            |
| <b>WAF 344L Pleasure Duty</b>   |              |              |        | 730 | 1900 rpm  |            | 2100 rpm   | 2300 rpm * |
| <b>1.972</b>                    | <b>2.452</b> | <b>2.963</b> | 0.37   |     | 703 (943) | 777 (1042) | 851 (1141) |            |
| <b>3.571</b>                    |              |              | 0.33   |     | 627 (841) | 693 (929)  | 759 (1018) |            |
| <b>4.053</b>                    |              |              | 0.31   |     | 589 (790) | 651 (873)  | 713 (956)  |            |
| <b>WAF 344 Pleasure Duty</b>    |              |              |        | 730 | 1900 rpm  |            | 2100 rpm   | 2300 rpm * |
| <b>1.972</b>                    | <b>2.452</b> | <b>2.963</b> | 0.38   |     | 722 (968) | 798 (1070) | 874 (1172) |            |
| <b>3.280</b>                    | <b>3.571</b> |              | 0.35   |     | 665 (892) | 735 (986)  | 805 (1080) |            |
| <b>4.053</b>                    |              |              | 0.33   |     | 627 (841) | 693 (929)  | 759 (1018) |            |



# WAF 364 series

|                                 |              |              |              |              | kW/rpm | kg  | kW       | (BHP) | kW       | (BHP)  | kW         | (BHP)  |
|---------------------------------|--------------|--------------|--------------|--------------|--------|-----|----------|-------|----------|--------|------------|--------|
| <b>WAF 364L Continuous Duty</b> |              |              |              |              |        | 810 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>3.485</b>                    | <b>3.933</b> | <b>4.481</b> | <b>4.920</b> | <b>5.435</b> | 0.33   |     | 528      | (708) | 594      | (797)  | 693        | (929)  |
| <b>6.048</b>                    |              |              |              |              | 0.30   |     | 480      | (644) | 540      | (724)  | 630        | (845)  |
| <b>WAF 364 Continuous Duty</b>  |              |              |              |              |        | 810 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>3.485</b>                    | <b>3.933</b> | <b>4.481</b> | <b>4.920</b> | <b>5.435</b> | 0.36   |     | 576      | (772) | 648      | (869)  | 756        | (1014) |
| <b>6.048</b>                    |              |              |              |              | 0.34   |     | 544      | (730) | 612      | (821)  | 714        | (957)  |
| <b>WAF 364L Medium Duty</b>     |              |              |              |              |        | 810 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>3.485</b>                    | <b>3.933</b> | <b>4.481</b> | <b>4.920</b> | <b>5.435</b> | 0.35   |     | 560      | (751) | 630      | (845)  | 735        | (986)  |
| <b>6.048</b>                    |              |              |              |              | 0.34   |     | 544      | (730) | 612      | (821)  | 714        | (957)  |
| <b>WAF 364 Medium Duty</b>      |              |              |              |              |        | 810 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>3.485</b>                    | <b>3.933</b> | <b>4.481</b> | <b>4.920</b> | <b>5.435</b> | 0.36   |     | 576      | (772) | 648      | (869)  | 756        | (1014) |
| <b>6.048</b>                    |              |              |              |              | 0.35   |     | 560      | (751) | 630      | (845)  | 735        | (986)  |
| <b>WAF 364L Light Duty</b>      |              |              |              |              |        | 810 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>3.485</b>                    | <b>3.933</b> | <b>4.481</b> | <b>4.920</b> | <b>5.435</b> | 0.36   |     | 576      | (772) | 648      | (869)  | 756        | (1014) |
| <b>6.048</b>                    |              |              |              |              | 0.35   |     | 560      | (751) | 630      | (845)  | 735        | (986)  |
| <b>WAF 364 Light Duty</b>       |              |              |              |              |        | 810 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>3.485</b>                    | <b>3.933</b> | <b>4.481</b> | <b>4.920</b> | <b>5.435</b> | 0.37   |     | 592      | (794) | 666      | (893)  | 777        | (1042) |
| <b>6.048</b>                    |              |              |              |              | 0.36   |     | 576      | (772) | 648      | (869)  | 756        | (1014) |
| <b>WAF 364L Pleasure Duty</b>   |              |              |              |              |        | 810 | 1900 rpm |       | 2100 rpm |        | 2300 rpm * |        |
| <b>3.485</b>                    | <b>3.933</b> | <b>4.481</b> | <b>4.920</b> | <b>5.435</b> | 0.37   |     | 703      | (943) | 777      | (1042) | 851        | (1141) |
| <b>6.048</b>                    |              |              |              |              | 0.36   |     | 684      | (917) | 756      | (1014) | 828        | (1110) |
| <b>WAF 364 Pleasure Duty</b>    |              |              |              |              |        | 810 | 1900 rpm |       | 2100 rpm |        | 2300 rpm * |        |
| <b>3.485</b>                    | <b>3.933</b> | <b>4.481</b> | <b>4.920</b> | <b>5.435</b> | 0.38   |     | 722      | (968) | 798      | (1070) | 874        | (1172) |
| <b>6.048</b>                    |              |              |              |              | 0.37   |     | 703      | (943) | 777      | (1042) | 851        | (1141) |





# WAF 374 series

|                                 |              |              |              | kW/rpm | kg   | kW       | (BHP) | kW       | (BHP)  | kW         | (BHP)  |
|---------------------------------|--------------|--------------|--------------|--------|------|----------|-------|----------|--------|------------|--------|
| <b>WAF 374L Continuous Duty</b> |              |              |              |        | 1200 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>7.091</b> |              | 0.32   |      | 512      | (687) | 576      | (772)  | 672        | (901)  |
| <b>7.476</b>                    |              |              |              | 0.29   |      | 464      | (622) | 522      | (700)  | 609        | (817)  |
| <b>WAF 374 Continuous Duty</b>  |              |              |              |        | 1200 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>6.739</b> | <b>7.091</b> | 0.36   |      | 576      | (772) | 648      | (869)  | 756        | (1014) |
| <b>7.476</b>                    |              |              |              | 0.33   |      | 528      | (708) | 594      | (797)  | 693        | (929)  |
| <b>WAF 374L Medium Duty</b>     |              |              |              |        | 1200 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>7.091</b> |              | 0.35   |      | 560      | (751) | 630      | (845)  | 735        | (986)  |
| <b>7.476</b>                    |              |              |              | 0.32   |      | 512      | (687) | 576      | (772)  | 672        | (901)  |
| <b>WAF 374 Medium Duty</b>      |              |              |              |        | 1200 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>6.739</b> | <b>7.091</b> | 0.36   |      | 576      | (772) | 648      | (869)  | 756        | (1014) |
| <b>7.476</b>                    |              |              |              | 0.33   |      | 528      | (708) | 594      | (797)  | 693        | (929)  |
| <b>WAF 374L Light Duty</b>      |              |              |              |        | 1200 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>7.091</b> |              | 0.36   |      | 576      | (772) | 648      | (869)  | 756        | (1014) |
| <b>7.476</b>                    |              |              |              | 0.33   |      | 528      | (708) | 594      | (797)  | 693        | (929)  |
| <b>WAF 374 Light Duty</b>       |              |              |              |        | 1200 | 1600 rpm |       | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>6.739</b> | <b>7.091</b> | 0.37   |      | 592      | (794) | 666      | (893)  | 777        | (1042) |
| <b>7.476</b>                    |              |              |              | 0.34   |      | 544      | (730) | 612      | (821)  | 714        | (957)  |
| <b>WAF 374L Pleasure Duty</b>   |              |              |              |        | 1200 | 1900 rpm |       | 2100 rpm |        | 2300 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>7.091</b> |              | 0.37   |      | 703      | (943) | 777      | (1042) | 851        | (1141) |
| <b>7.476</b>                    |              |              |              | 0.34   |      | 646      | (866) | 714      | (957)  | 782        | (1049) |
| <b>WAF 374 Pleasure Duty</b>    |              |              |              |        | 1200 | 1900 rpm |       | 2100 rpm |        | 2300 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>6.739</b> | <b>7.091</b> | 0.38   |      | 722      | (968) | 798      | (1070) | 874        | (1172) |
| <b>7.476</b>                    |              |              |              | 0.35   |      | 665      | (892) | 735      | (986)  | 805        | (1080) |



# WAF 444 series

|                 |                        | kW/rpm | kg  | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|-----------------|------------------------|--------|-----|----------|--------|----------|--------|------------|--------|
| <b>WAF 444L</b> | <b>Continuous Duty</b> |        | 760 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>2.962</b>    | <b>3.522</b>           | 0.40   |     | 640      | (858)  | 720      | (966)  | 840        | (1126) |
| <b>3.952</b>    |                        | 0.35   |     | 560      | (751)  | 630      | (845)  | 735        | (986)  |
| <b>WAF 444</b>  | <b>Continuous Duty</b> |        | 760 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>2.962</b>    |                        | 0.44   |     | 704      | (944)  | 792      | (1062) | 924        | (1239) |
| <b>3.522</b>    |                        | 0.42   |     | 672      | (901)  | 756      | (1014) | 882        | (1183) |
| <b>3.952</b>    |                        | 0.40   |     | 640      | (858)  | 720      | (966)  | 840        | (1126) |
| <b>WAF 444L</b> | <b>Medium Duty</b>     |        | 760 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>2.962</b>    |                        | 0.45   |     | 720      | (966)  | 810      | (1086) | 945        | (1267) |
| <b>3.522</b>    |                        | 0.41   |     | 656      | (880)  | 738      | (990)  | 861        | (1155) |
| <b>3.952</b>    |                        | 0.39   |     | 624      | (837)  | 702      | (941)  | 819        | (1098) |
| <b>WAF 444</b>  | <b>Medium Duty</b>     |        | 760 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>2.962</b>    |                        | 0.46   |     | 736      | (987)  | 828      | (1110) | 966        | (1295) |
| <b>3.522</b>    |                        | 0.42   |     | 672      | (901)  | 756      | (1014) | 882        | (1183) |
| <b>3.952</b>    |                        | 0.40   |     | 640      | (858)  | 720      | (966)  | 840        | (1126) |
| <b>WAF 444L</b> | <b>Light Duty</b>      |        | 760 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>2.962</b>    |                        | 0.46   |     | 736      | (987)  | 828      | (1110) | 966        | (1295) |
| <b>3.522</b>    |                        | 0.43   |     | 688      | (923)  | 774      | (1038) | 903        | (1211) |
| <b>3.952</b>    |                        | 0.40   |     | 640      | (858)  | 720      | (966)  | 840        | (1126) |
| <b>WAF 444</b>  | <b>Light Duty</b>      |        | 760 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>2.962</b>    |                        | 0.47   |     | 752      | (1008) | 846      | (1134) | 987        | (1324) |
| <b>3.522</b>    |                        | 0.44   |     | 704      | (944)  | 792      | (1062) | 924        | (1239) |
| <b>3.952</b>    |                        | 0.41   |     | 656      | (880)  | 738      | (990)  | 861        | (1155) |
| <b>WAF 444L</b> | <b>Pleasure Duty</b>   |        | 760 | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
| <b>2.962</b>    | <b>3.522</b>           | 0.46   |     | 874      | (1172) | 966      | (1295) | 1058       | (1419) |
| <b>3.952</b>    |                        | 0.41   |     | 779      | (1045) | 861      | (1155) | 943        | (1265) |
| <b>WAF 444</b>  | <b>Pleasure Duty</b>   |        | 760 | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
| <b>2.962</b>    | <b>3.522</b>           | 0.48   |     | 912      | (1223) | 1008     | (1352) | 1104       | (1480) |
| <b>WAF 444</b>  | <b>Pleasure Duty</b>   |        | 760 | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
| <b>3.952</b>    |                        | 0.42   |     | 798      | (1070) | 882      | (1183) | 966        | (1295) |



# WAF 464 series

|                                 |              |              |              |              | kW/rpm | kg   | kW  | (BHP)    | kW   | (BHP)    | kW   | (BHP)      |
|---------------------------------|--------------|--------------|--------------|--------------|--------|------|-----|----------|------|----------|------|------------|
| <b>WAF 464L Continuous Duty</b> |              |              |              |              |        | 1260 |     | 1600 rpm |      | 1800 rpm |      | 2100 rpm * |
| <b>4.000</b>                    | <b>4.577</b> | <b>5.042</b> | <b>5.591</b> | <b>5.905</b> | 0.40   |      | 640 | (858)    | 720  | (966)    | 840  | (1126)     |
| <b>WAF 464 Continuous Duty</b>  |              |              |              |              |        | 1260 |     | 1600 rpm |      | 1800 rpm |      | 2100 rpm * |
| <b>4.000</b>                    | <b>4.577</b> | <b>5.042</b> | <b>5.591</b> |              | 0.46   |      | 736 | (987)    | 828  | (1110)   | 966  | (1295)     |
| <b>5.905</b>                    |              |              |              |              | 0.45   |      | 720 | (966)    | 810  | (1086)   | 945  | (1267)     |
| <b>WAF 464L Medium Duty</b>     |              |              |              |              |        | 1260 |     | 1600 rpm |      | 1800 rpm |      | 2100 rpm * |
| <b>4.000</b>                    | <b>4.577</b> | <b>5.042</b> | <b>5.591</b> |              | 0.45   |      | 720 | (966)    | 810  | (1086)   | 945  | (1267)     |
| <b>5.905</b>                    |              |              |              |              | 0.44   |      | 704 | (944)    | 792  | (1062)   | 924  | (1239)     |
| <b>WAF 464 Medium Duty</b>      |              |              |              |              |        | 1260 |     | 1600 rpm |      | 1800 rpm |      | 2100 rpm * |
| <b>4.000</b>                    | <b>4.577</b> | <b>5.042</b> | <b>5.591</b> |              | 0.46   |      | 736 | (987)    | 828  | (1110)   | 966  | (1295)     |
| <b>5.905</b>                    |              |              |              |              | 0.45   |      | 720 | (966)    | 810  | (1086)   | 945  | (1267)     |
| <b>WAF 464L Light Duty</b>      |              |              |              |              |        | 1260 |     | 1600 rpm |      | 1800 rpm |      | 2100 rpm * |
| <b>4.000</b>                    | <b>4.577</b> | <b>5.042</b> | <b>5.591</b> |              | 0.46   |      | 736 | (987)    | 828  | (1110)   | 966  | (1295)     |
| <b>5.905</b>                    |              |              |              |              | 0.45   |      | 720 | (966)    | 810  | (1086)   | 945  | (1267)     |
| <b>WAF 464 Light Duty</b>       |              |              |              |              |        | 1260 |     | 1600 rpm |      | 1800 rpm |      | 2100 rpm * |
| <b>4.000</b>                    | <b>4.577</b> | <b>5.042</b> | <b>5.591</b> |              | 0.47   |      | 752 | (1008)   | 846  | (1134)   | 987  | (1324)     |
| <b>5.905</b>                    |              |              |              |              | 0.46   |      | 736 | (987)    | 828  | (1110)   | 966  | (1295)     |
| <b>WAF 464L Pleasure Duty</b>   |              |              |              |              |        | 1260 |     | 1900 rpm |      | 2100 rpm |      | 2300 rpm * |
| <b>4.000</b>                    | <b>4.577</b> | <b>5.042</b> | <b>5.591</b> | <b>5.905</b> | 0.46   |      | 874 | (1172)   | 966  | (1295)   | 1058 | (1419)     |
| <b>WAF 464 Pleasure Duty</b>    |              |              |              |              |        | 1260 |     | 1900 rpm |      | 2100 rpm |      | 2300 rpm * |
| <b>4.000</b>                    | <b>4.577</b> | <b>5.042</b> | <b>5.591</b> |              | 0.48   |      | 912 | (1223)   | 1008 | (1352)   | 1104 | (1480)     |
| <b>5.905</b>                    |              |              |              |              | 0.47   |      | 893 | (1198)   | 987  | (1324)   | 1081 | (1450)     |



# WAF 474 series

|                                 |              |              |              | kW/rpm | kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|---------------------------------|--------------|--------------|--------------|--------|------|----------|--------|----------|--------|------------|--------|
| <b>WAF 474L Continuous Duty</b> |              |              |              |        | 1830 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>7.091</b> |              | 0.40   |      | 640      | (858)  | 720      | (966)  | 840        | (1126) |
| <b>7.476</b>                    |              |              |              | 0.36   |      | 576      | (772)  | 648      | (869)  | 756        | (1014) |
| <b>WAF 474 Continuous Duty</b>  |              |              |              |        | 1830 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> |              |              | 0.46   |      | 736      | (987)  | 828      | (1110) | 966        | (1295) |
| <b>7.091</b>                    |              |              |              | 0.45   |      | 720      | (966)  | 810      | (1086) | 945        | (1267) |
| <b>7.476</b>                    |              |              |              | 0.41   |      | 656      | (880)  | 738      | (990)  | 861        | (1155) |
| <b>WAF 474L Medium Duty</b>     |              |              |              |        | 1830 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>7.091</b> |              | 0.45   |      | 720      | (966)  | 810      | (1086) | 945        | (1267) |
| <b>7.476</b>                    |              |              |              | 0.44   |      | 704      | (944)  | 792      | (1062) | 924        | (1239) |
| <b>WAF 474 Medium Duty</b>      |              |              |              |        | 1830 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>7.091</b> |              | 0.46   |      | 736      | (987)  | 828      | (1110) | 966        | (1295) |
| <b>7.476</b>                    |              |              |              | 0.45   |      | 720      | (966)  | 810      | (1086) | 945        | (1267) |
| <b>WAF 474L Light Duty</b>      |              |              |              |        | 1830 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>7.091</b> |              | 0.46   |      | 736      | (987)  | 828      | (1110) | 966        | (1295) |
| <b>7.476</b>                    |              |              |              | 0.45   |      | 720      | (966)  | 810      | (1086) | 945        | (1267) |
| <b>WAF 474 Light Duty</b>       |              |              |              |        | 1830 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>7.091</b> |              | 0.47   |      | 752      | (1008) | 846      | (1134) | 987        | (1324) |
| <b>7.476</b>                    |              |              |              | 0.46   |      | 736      | (987)  | 828      | (1110) | 966        | (1295) |
| <b>WAF 474L Pleasure Duty</b>   |              |              |              |        | 1830 | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>7.091</b> | <b>7.476</b> | 0.46   |      | 874      | (1172) | 966      | (1295) | 1058       | (1419) |
| <b>WAF 474 Pleasure Duty</b>    |              |              |              |        | 1830 | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
| <b>6.120</b>                    | <b>6.417</b> | <b>7.091</b> |              | 0.48   |      | 912      | (1223) | 1008     | (1352) | 1104       | (1480) |
| <b>7.476</b>                    |              |              |              | 0.47   |      | 893      | (1198) | 987      | (1324) | 1081       | (1450) |



## WAF 543 series

|                                 |              |              |              | kW/rpm | kg   | kW (BHP) |        | kW (BHP) |        |             |
|---------------------------------|--------------|--------------|--------------|--------|------|----------|--------|----------|--------|-------------|
| <b>WAF 543L Continuous Duty</b> |              |              |              |        | 1035 | 1600 rpm |        | 1800 rpm |        | 2100 rpm *  |
| <b>2.542</b>                    | <b>2.960</b> | <b>3.542</b> | <b>3.955</b> | 0.53   |      | 848      | (1137) | 954      | (1279) | 1113 (1493) |
| <b>4.450</b>                    |              |              |              | 0.49   |      | 784      | (1051) | 882      | (1183) | 1029 (1380) |
| <b>WAF 543 Continuous Duty</b>  |              |              |              |        | 1035 | 1600 rpm |        | 1800 rpm |        | 2100 rpm *  |
| <b>2.542</b>                    | <b>2.960</b> | <b>3.542</b> |              | 0.57   |      | 912      | (1223) | 1026     | (1376) | 1197 (1605) |
| <b>3.955</b>                    |              |              |              | 0.55   |      | 880      | (1180) | 990      | (1328) | 1155 (1549) |
| <b>4.450</b>                    |              |              |              | 0.49   |      | 784      | (1051) | 882      | (1183) | 1029 (1380) |



## WAF 563 series

|                                 |              |              |              | kW/rpm | kg   | kW (BHP) |        | kW (BHP) |        | kW (BHP)   |        |
|---------------------------------|--------------|--------------|--------------|--------|------|----------|--------|----------|--------|------------|--------|
| <b>WAF 563L Continuous Duty</b> |              |              |              |        | 1445 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>4.545</b>                    | <b>5.050</b> | <b>5.421</b> |              | 0.57   |      | 912      | (1223) | 1026     | (1376) | 1197       | (1605) |
| <b>5.947</b>                    |              |              |              | 0.52   |      | 832      | (1116) | 936      | (1255) | 1092       | (1464) |
| <b>WAF 563 Continuous Duty</b>  |              |              |              |        | 1445 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>4.545</b>                    | <b>5.050</b> | <b>5.421</b> |              | 0.59   |      | 944      | (1266) | 1062     | (1424) | 1239       | (1661) |
| <b>5.947</b>                    |              |              |              | 0.55   |      | 880      | (1180) | 990      | (1328) | 1155       | (1549) |
| <b>WAF 563L Medium Duty</b>     |              |              |              |        | 1445 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>4.545</b>                    | <b>5.050</b> | <b>5.421</b> |              | 0.57   |      | 912      | (1223) | 1026     | (1376) | 1197       | (1605) |
| <b>5.947</b>                    |              |              |              | 0.54   |      | 864      | (1159) | 972      | (1303) | 1134       | (1521) |
| <b>WAF 563 Medium Duty</b>      |              |              |              |        | 1445 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>4.545</b>                    | <b>5.050</b> | <b>5.421</b> |              | 0.59   |      | 944      | (1266) | 1062     | (1424) | 1239       | (1661) |
| <b>5.947</b>                    |              |              |              | 0.55   |      | 880      | (1180) | 990      | (1328) | 1155       | (1549) |
| <b>WAF 563L Light Duty</b>      |              |              |              |        | 1445 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>4.545</b>                    | <b>5.050</b> | <b>5.421</b> | <b>5.947</b> | 0.57   |      | 912      | (1223) | 1026     | (1376) | 1197       | (1605) |
| <b>WAF 563 Light Duty</b>       |              |              |              |        | 1445 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>4.545</b>                    | <b>5.050</b> | <b>5.421</b> |              | 0.59   |      | 944      | (1266) | 1062     | (1424) | 1239       | (1661) |
| <b>5.947</b>                    |              |              |              | 0.58   |      | 928      | (1244) | 1044     | (1400) | 1218       | (1633) |
| <b>WAF 563L Pleasure Duty</b>   |              |              |              |        | 1445 | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
| <b>4.545</b>                    | <b>5.050</b> | <b>5.421</b> | <b>5.947</b> | 0.57   |      | 1083     | (1452) | 1197     | (1605) | 1311       | (1758) |
| <b>WAF 563 Pleasure Duty</b>    |              |              |              |        | 1445 | 1900 rpm |        | 2100 rpm |        | 2300 rpm * |        |
| <b>4.545</b>                    | <b>5.050</b> | <b>5.421</b> | <b>5.947</b> | 0.64   |      | 1216     | (1631) | 1344     | (1802) | 1472       | (1974) |



# WAF 573 series

|  |              |              | kW/rpm | kg   | kW       | (BHP) | kW       | (BHP)  | kW         | (BHP)  |
|--|--------------|--------------|--------|------|----------|-------|----------|--------|------------|--------|
| <b>WAF 573L</b> <b>Continuous Duty</b> |              |              |        | 2360 | 1200 rpm |       | 1600 rpm |        | 1800 rpm * |        |
| <b>6.417</b>                           | <b>7.091</b> | <b>7.474</b> | 0.53   |      | 636      | (853) | 848      | (1137) | 954        | (1279) |
| <b>WAF 573</b> <b>Continuous Duty</b>  |              |              |        | 2360 | 1200 rpm |       | 1600 rpm |        | 1800 rpm * |        |
| <b>6.417</b>                           |              |              | 0.59   |      | 708      | (949) | 944      | (1266) | 1062       | (1424) |
| <b>7.091</b>                           |              |              | 0.57   |      | 684      | (917) | 912      | (1223) | 1026       | (1376) |
| <b>7.474</b>                           |              |              | 0.56   |      | 672      | (901) | 896      | (1202) | 1008       | (1352) |

|                                 |              |              |              |              | kW/rpm | kg   | kW (BHP) |        | kW (BHP) |        | kW (BHP)   |        |
|---------------------------------|--------------|--------------|--------------|--------------|--------|------|----------|--------|----------|--------|------------|--------|
| <b>WAF 665L Continuous Duty</b> |              |              |              |              |        | 1950 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>2.969</b>                    | <b>3.536</b> | <i>4.080</i> | <i>4.560</i> | <b>5.043</b> | 0.70   |      | 840      | (1126) | 1120     | (1502) | 1260       | (1690) |
| <i>5.571</i>                    | <b>5.950</b> |              |              |              |        |      |          |        |          |        |            |        |
| <b>WAF 665 Continuous Duty</b>  |              |              |              |              |        | 1950 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>2.969</b>                    | <b>3.536</b> | <i>4.080</i> | <i>4.560</i> | <b>5.043</b> | 0.77   |      | 924      | (1239) | 1232     | (1652) | 1386       | (1859) |
| <i>5.571</i>                    | <b>5.950</b> |              |              |              |        |      |          |        |          |        |            |        |
| <b>WAF 675L Continuous Duty</b> |              |              |              |              |        | 2600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>6.417</b>                    | <b>6.739</b> | <b>7.091</b> | <b>7.476</b> |              | 0.70   |      | 840      | (1126) | 1120     | (1502) | 1260       | (1690) |
| <b>WAF 675 Continuous Duty</b>  |              |              |              |              |        | 2600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>6.417</b>                    | <b>6.739</b> | <b>7.091</b> | <b>7.476</b> |              | 0.77   |      | 924      | (1239) | 1232     | (1652) | 1386       | (1859) |
| <b>WAF 743L Continuous Duty</b> |              |              |              |              |        | 1800 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>3.038</b>                    | <b>3.333</b> | <b>3.550</b> | <b>3.952</b> |              | 0.88   |      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |
| <b>WAF 743 Continuous Duty</b>  |              |              |              |              |        | 1800 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <i>2.714</i>                    | <i>2.889</i> | <b>3.038</b> | <b>3.333</b> | <b>3.550</b> | 0.98   |      | 1176     | (1577) | 1568     | (2103) | 1764       | (2366) |
| <b>3.952</b>                    |              |              |              |              |        |      |          |        |          |        |            |        |
| <b>WAF 763L Continuous Duty</b> |              |              |              |              |        | 2300 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>4.625</b>                    | <b>5.136</b> | <b>5.429</b> | <b>5.750</b> | <b>5.913</b> | 0.88   |      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |
| <b>WAF 763 Continuous Duty</b>  |              |              |              |              |        | 2300 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>4.037</b>                    | <b>4.625</b> | <b>5.136</b> | <b>5.429</b> | <b>5.750</b> | 0.98   |      | 1176     | (1577) | 1568     | (2103) | 1764       | (2366) |
| <b>5.913</b>                    |              |              |              |              |        |      |          |        |          |        |            |        |
| <b>WAF 773L Continuous Duty</b> |              |              |              |              |        | 3200 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>6.154</b>                    | <b>6.440</b> | <b>7.087</b> | <b>7.454</b> |              | 0.88   |      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |
| <b>WAF 773 Continuous Duty</b>  |              |              |              |              |        | 3200 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>6.154</b>                    | <b>6.440</b> | <b>7.087</b> | <b>7.454</b> |              | 0.98   |      | 1176     | (1577) | 1568     | (2103) | 1764       | (2366) |
| <b>WAF 843L Continuous Duty</b> |              |              |              |              |        | 2300 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>3.080</b>                    | <b>3.500</b> |              |              |              | 1.25   |      | 1500     | (2012) | 2000     | (2682) | 2250       | (3017) |
| <b>3.905</b>                    | <b>4.318</b> |              |              |              | 1.15   |      | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |
| <b>WAF 843 Continuous Duty</b>  |              |              |              |              |        | 2300 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>3.080</b>                    | <b>3.435</b> | <b>3.500</b> | <b>3.905</b> |              | 1.38   |      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |
| <b>3.080</b>                    | <b>3.435</b> | <b>3.500</b> | <b>3.905</b> |              | 1.38   |      | 1654     | (2217) | 2205     | (2957) | 2480       | (3326) |
| <b>4.087</b>                    |              |              |              |              | 1.31   |      | 1571     | (2106) | 2094     | (2809) | 2356       | (3160) |
| <b>4.318</b>                    |              |              |              |              | 1.26   |      | 1516     | (2032) | 2021     | (2710) | 2273       | (3049) |



## WAF 800 series

|                                 |              |              |              |              | kW/rpm | kg   | kW (BHP) |        | kW (BHP) |        |             |
|---------------------------------|--------------|--------------|--------------|--------------|--------|------|----------|--------|----------|--------|-------------|
| <b>WAF 863L Continuous Duty</b> |              |              |              |              |        | 3100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm *  |
| <b>4.038</b>                    | <b>4.458</b> | <b>4.955</b> |              |              | 1.25   |      | 1500     | (2012) | 2000     | (2682) | 2250 (3017) |
| <b>5.500</b>                    | <b>5.842</b> |              |              |              | 1.15   |      | 1380     | (1851) | 1840     | (2467) | 2070 (2776) |
| <b>WAF 863 Continuous Duty</b>  |              |              |              |              |        | 3100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm *  |
| <b>4.038</b>                    | <b>4.458</b> | <b>4.955</b> | <b>5.500</b> | <b>5.842</b> | 1.38   |      | 1656     | (2221) | 2208     | (2961) | 2484 (3331) |
| <b>WAF 873L Continuous Duty</b> |              |              |              |              |        | 4100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm *  |
| <b>6.440</b>                    | <b>6.750</b> | <b>7.087</b> |              |              | 1.25   |      | 1500     | (2012) | 2000     | (2682) | 2250 (3017) |
| <b>7.454</b>                    | <b>7.526</b> |              |              |              | 1.15   |      | 1380     | (1851) | 1840     | (2467) | 2070 (2776) |
| <b>WAF 873 Continuous Duty</b>  |              |              |              |              |        | 4100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm *  |
| <b>6.440</b>                    | <b>6.750</b> | <b>7.087</b> | <b>7.454</b> | <b>7.526</b> | 1.38   |      | 1656     | (2221) | 2208     | (2961) | 2484 (3331) |



## WAF 1100 - 1900 series

|                                 |              |              |              |              | kW/rpm | kg   | kW (BHP) |        | kW (BHP) |        | kW (BHP)   |        |
|---------------------------------|--------------|--------------|--------------|--------------|--------|------|----------|--------|----------|--------|------------|--------|
| <b>WAF 1143 Continuous Duty</b> |              |              |              |              |        | 2750 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <i>1.966</i>                    | <i>2.429</i> | <i>3.037</i> | <b>3.500</b> | <i>3.909</i> | 1.63   |      | 1956     | (2623) | 2608     | (3497) | 2934       | (3934) |
| <b>WAF 1163 Continuous Duty</b> |              |              |              |              |        | 3600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <i>4.296</i>                    | <i>4.500</i> | <i>4.720</i> | <i>4.958</i> | <b>5.500</b> | 1.63   |      | 1956     | (2623) | 2608     | (3497) | 2934       | (3934) |
| <i>5.810</i>                    |              |              |              |              |        |      |          |        |          |        |            |        |
| <b>WAF 1173 Continuous Duty</b> |              |              |              |              |        | 5000 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>6.080</b>                    | <i>6.696</i> | <i>6.850</i> | <i>7.045</i> | <b>7.429</b> | 1.63   |      | 1956     | (2623) | 2608     | (3497) | 2934       | (3934) |
| <i>8.778</i>                    |              |              |              |              | 1.40   |      | 1675     | (2246) | 2234     | (2995) | 2513       | (3370) |
| <b>WAF 1543 Continuous Duty</b> |              |              |              |              |        | 3400 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
| <i>2.032</i>                    | <i>2.467</i> | <i>3.038</i> | <i>3.522</i> | <b>3.857</b> | 2.04   |      | 2448     | (3283) | 2652     | (3556) | 3264       | (4377) |
| <b>WAF 1563 Continuous Duty</b> |              |              |              |              |        | 4460 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
| <i>3.903</i>                    | <i>4.429</i> | <i>4.846</i> | <i>5.375</i> | <i>5.954</i> | 2.04   |      | 2448     | (3283) | 2652     | (3556) | 3264       | (4377) |
| <b>5.444</b>                    |              |              |              |              | 1.98   |      | 2376     | (3186) | 2574     | (3452) | 3168       | (4248) |
| <i>6.286</i>                    |              |              |              |              | 1.95   |      | 2341     | (3140) | 2536     | (3401) | 3122       | (4186) |
| <b>WAF 1943 Continuous Duty</b> |              |              |              |              |        | 4460 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
| <i>2.059</i>                    | <i>2.467</i> | <i>2.962</i> | <b>3.522</b> | <i>3.952</i> | 2.20   |      | 2640     | (3540) | 2860     | (3835) | 3520       | (4720) |
| <i>4.087</i>                    |              |              |              |              |        |      |          |        |          |        |            |        |





## WAF 1900 series

|                 |                        | kW/rpm | kg   | kW (BHP)    | kW (BHP)    | kW (BHP)    | kW (BHP) |
|-----------------|------------------------|--------|------|-------------|-------------|-------------|----------|
| <b>WAF 1973</b> | <b>Continuous Duty</b> |        | 8500 | 1200 rpm    | 1300 rpm    | 1600 rpm *  |          |
| <b>8.316</b>    |                        | 2.20   |      | 2640 (3540) | 2860 (3835) | 3520 (4720) |          |



## WAF 2300 series

|                           |                        | kW/rpm | kg    | kW (BHP)    | kW (BHP)    | kW (BHP)    | kW (BHP) |
|---------------------------|------------------------|--------|-------|-------------|-------------|-------------|----------|
| <b>WAF 2346</b>           | <b>Continuous Duty</b> |        | 6000  | 750 rpm     | 1000 rpm    | 1100 rpm *  |          |
| <i>2.077</i> <i>4.454</i> |                        | 2.45   |       | 1838 (2464) | 2450 (3285) | 2695 (3614) |          |
| <b>WAF 2355</b>           | <b>Continuous Duty</b> |        | 7000  | 750 rpm     | 1000 rpm    | 1100 rpm *  |          |
| <i>3.536</i> <i>5.762</i> |                        | 2.45   |       | 1838 (2464) | 2450 (3285) | 2695 (3614) |          |
| <b>WAF 2365</b>           | <b>Continuous Duty</b> |        | 8000  | 750 rpm     | 1000 rpm    | 1100 rpm *  |          |
| <i>5.074</i> <i>6.455</i> |                        | 2.45   |       | 1838 (2464) | 2450 (3285) | 2695 (3614) |          |
| <b>WAF 2375</b>           | <b>Continuous Duty</b> |        | 10000 | 750 rpm     | 1000 rpm    | 1100 rpm *  |          |
| <i>5.958</i> <i>7.454</i> |                        | 2.45   |       | 1838 (2464) | 2450 (3285) | 2695 (3614) |          |



## WAF 3400 series

|                           |                        | kW/rpm | kg    | kW (BHP)    | kW (BHP)    | kW (BHP)    | kW (BHP) |
|---------------------------|------------------------|--------|-------|-------------|-------------|-------------|----------|
| <b>WAF 3445</b>           | <b>Continuous Duty</b> |        | 7100  | 600 rpm     | 900 rpm     | 1200 rpm *  |          |
| <i>2.053</i> <i>4.524</i> |                        | 3.25   |       | 1950 (2615) | 2925 (3922) | 3900 (5230) |          |
| <b>WAF 3455</b>           | <b>Continuous Duty</b> |        | 8500  | 600 rpm     | 900 rpm     | 1200 rpm *  |          |
| <i>4.074</i>              |                        | 3.25   |       | 1950 (2615) | 2925 (3922) | 3900 (5230) |          |
| <i>5.954</i>              |                        | 3.16   |       | 1894 (2539) | 2840 (3809) | 3787 (5079) |          |
| <b>WAF 3465</b>           | <b>Continuous Duty</b> |        | 10400 | 600 rpm     | 900 rpm     | 1200 rpm *  |          |
| <i>5.077</i>              |                        | 3.25   |       | 1950 (2615) | 2925 (3922) | 3900 (5230) |          |
| <i>6.954</i>              |                        | 2.96   |       | 1779 (2386) | 2668 (3578) | 3558 (4771) |          |
| <b>WAF 3475</b>           | <b>Continuous Duty</b> |        | 11500 | 600 rpm     | 900 rpm     | 1200 rpm *  |          |
| <i>6.087</i> <i>7.524</i> |                        | 3.25   |       | 1950 (2615) | 2925 (3922) | 3900 (5230) |          |



## WAF 4500 series

|                 |                        | kW/rpm | kg    | kW      | (BHP)  | kW      | (BHP)  | kW         | (BHP)  |
|-----------------|------------------------|--------|-------|---------|--------|---------|--------|------------|--------|
| <b>WAF 4545</b> | <b>Continuous Duty</b> |        | 8900  | 600 rpm |        | 900 rpm |        | 1150 rpm * |        |
| <i>1.591</i>    | <i>4.429</i>           | 3.80   |       | 2280    | (3057) | 3420    | (4586) | 4370       | (5860) |
| <b>WAF 4555</b> | <b>Continuous Duty</b> |        | 10500 | 600 rpm |        | 900 rpm |        | 1150 rpm * |        |
| <i>3.960</i>    | <i>5.773</i>           | 3.80   |       | 2280    | (3057) | 3420    | (4586) | 4370       | (5860) |
| <b>WAF 4566</b> | <b>Continuous Duty</b> |        | 12600 | 600 rpm |        | 900 rpm |        | 1150 rpm * |        |
| <i>4.955</i>    | <i>6.818</i>           | 3.80   |       | 2280    | (3057) | 3420    | (4586) | 4370       | (5860) |
| <b>WAF 4575</b> | <b>Continuous Duty</b> |        | 14100 | 600 rpm |        | 900 rpm |        | 1150 rpm * |        |
| <i>6.120</i>    | <i>7.476</i>           | 3.80   |       | 2280    | (3057) | 3420    | (4586) | 4370       | (5860) |



## WAF 5600 series

|                 |                        | kW/rpm | kg    | kW      | (BHP)  | kW      | (BHP)  | kW         | (BHP)  |
|-----------------|------------------------|--------|-------|---------|--------|---------|--------|------------|--------|
| <b>WAF 5645</b> | <b>Continuous Duty</b> |        | 11600 | 600 rpm |        | 900 rpm |        | 1100 rpm * |        |
| <i>1.973</i>    | <i>4.550</i>           | 5.00   |       | 3000    | (4023) | 4500    | (6034) | 5500       | (7376) |
| <b>WAF 5655</b> | <b>Continuous Duty</b> |        | 13200 | 600 rpm |        | 900 rpm |        | 1100 rpm * |        |
| <i>4.042</i>    |                        | 5.00   |       | 3000    | (4023) | 4500    | (6034) | 5500       | (7376) |
| <i>5.810</i>    |                        | 4.89   |       | 2937    | (3939) | 4406    | (5908) | 5384       | (7221) |
| <b>WAF 5666</b> | <b>Continuous Duty</b> |        | 14800 | 600 rpm |        | 900 rpm |        | 1100 rpm * |        |
| <i>5.044</i>    |                        | 5.00   |       | 3000    | (4023) | 4500    | (6034) | 5500       | (7376) |
| <i>6.857</i>    |                        | 4.79   |       | 2875    | (3855) | 4312    | (5782) | 5270       | (7067) |
| <b>WAF 5675</b> | <b>Continuous Duty</b> |        | 18000 | 600 rpm |        | 900 rpm |        | 1100 rpm * |        |
| <i>6.125</i>    | <i>7.550</i>           | 5.00   |       | 3000    | (4023) | 4500    | (6034) | 5500       | (7376) |



## WAF 6700 series

|                 |                        | kW/rpm | kg    | kW      | (BHP)  | kW      | (BHP)  | kW        | (BHP)  |
|-----------------|------------------------|--------|-------|---------|--------|---------|--------|-----------|--------|
| <b>WAF 6745</b> | <b>Continuous Duty</b> |        | 15000 | 600 rpm |        | 900 rpm |        | 950 rpm * |        |
| <i>2.028</i>    | <i>4.450</i>           | 6.00   |       | 3600    | (4828) | 5400    | (7241) | 5700      | (7644) |
| <b>WAF 6755</b> | <b>Continuous Duty</b> |        | 17000 | 600 rpm |        | 900 rpm |        | 950 rpm * |        |
| <i>4.042</i>    | <i>5.762</i>           | 6.00   |       | 3600    | (4828) | 5400    | (7241) | 5700      | (7644) |
| <b>WAF 6766</b> | <b>Continuous Duty</b> |        | 18000 | 600 rpm |        | 900 rpm |        | 950 rpm * |        |
| <i>4.960</i>    | <i>6.450</i>           | 6.00   |       | 3600    | (4828) | 5400    | (7241) | 5700      | (7644) |



## WAF 7700 series

|                 |                        | kW/rpm | kg    | kW      | (BHP)  | kW      | (BHP)  | kW        | (BHP)  |
|-----------------|------------------------|--------|-------|---------|--------|---------|--------|-----------|--------|
| <b>WAF 7740</b> | <b>Continuous Duty</b> |        | 17000 | 600 rpm |        | 750 rpm |        | 900 rpm * |        |
| <i>2.929</i>    | <i>4.409</i>           | 7.87   |       | 4722    | (6332) | 5902    | (7915) | 7083      | (9498) |
| <b>WAF 7750</b> | <b>Continuous Duty</b> |        | 18000 | 600 rpm |        | 750 rpm |        | 900 rpm * |        |
| <i>3.107</i>    | <i>5.304</i>           | 7.87   |       | 4722    | (6332) | 5902    | (7915) | 7083      | (9498) |
| <b>WAF 7760</b> | <b>Continuous Duty</b> |        | 25000 | 600 rpm |        | 750 rpm |        | 900 rpm * |        |
| <i>5.136</i>    | <i>6.476</i>           | 7.87   |       | 4722    | (6332) | 5902    | (7915) | 7083      | (9498) |

## WGF 563 series

| Reduction ratio | kW/rpm | rpm  | kW  | (BHP)  | rpm  | kW                     | (BHP)  | max. rpm | max. kW | (BHP)  |                |
|-----------------|--------|------|-----|--------|------|------------------------|--------|----------|---------|--------|----------------|
| <b>WGF 563</b>  |        |      |     |        |      | <b>Continuous Duty</b> |        |          |         |        | <b>1035 kg</b> |
| 3.965           | 0.88   | 900  | 796 | (1068) | 1100 | 974                    | (1305) | 1400     | 1239    | (1661) |                |
| 11.674          | 0.30   | 1600 | 482 | (646)  | 2000 | 602                    | (807)  | 2450     | 737     | (989)  |                |

## WGF 665 series

| Reduction ratio | kW/rpm | rpm  | kW  | (BHP)  | rpm  | kW                     | (BHP)  | max. rpm | max. kW | (BHP)  |                |
|-----------------|--------|------|-----|--------|------|------------------------|--------|----------|---------|--------|----------------|
| <b>WGF 665</b>  |        |      |     |        |      | <b>Continuous Duty</b> |        |          |         |        | <b>2360 kg</b> |
| 4.042           | 1.06   | 900  | 955 | (1281) | 1100 | 1167                   | (1565) | 1300     | 1379    | (1850) |                |
| 11.334          | 0.37   | 1600 | 605 | (811)  | 2000 | 756                    | (1014) | 2450     | 926     | (1242) |                |

## WGF 763 series

| Reduction ratio | kW/rpm | rpm  | kW  | (BHP)  | rpm  | kW                     | (BHP)  | max. rpm | max. kW | (BHP)  |                |
|-----------------|--------|------|-----|--------|------|------------------------|--------|----------|---------|--------|----------------|
| <b>WGF 763</b>  |        |      |     |        |      | <b>Continuous Duty</b> |        |          |         |        | <b>2800 kg</b> |
| 3.093           | 1.34   | 600  | 805 | (1080) | 800  | 1074                   | (1440) | 900      | 1208    | (1620) |                |
| 11.304          | 0.43   | 1600 | 702 | (942)  | 2000 | 878                    | (1177) | 2450     | 1076    | (1442) |                |

## WGF 863 series

| Reduction ratio | kW/rpm | rpm  | kW   | (BHP)  | rpm  | kW                     | (BHP)  | max. rpm | max. kW | (BHP)  |                |
|-----------------|--------|------|------|--------|------|------------------------|--------|----------|---------|--------|----------------|
| <b>WGF 863</b>  |        |      |      |        |      | <b>Continuous Duty</b> |        |          |         |        | <b>3720 kg</b> |
| 4.080           | 1.97   | 800  | 1581 | (2120) | 1000 | 1976                   | (2650) | 1250     | 2470    | (3312) |                |
| 11.052          | 0.72   | 1600 | 1166 | (1564) | 2000 | 1458                   | (1955) | 2450     | 1786    | (2395) |                |

## WGF 1563 series

| Reduction ratio | kW/rpm | rpm  | kW   | (BHP)  | rpm  | kW                     | (BHP)  | max. rpm | max. kW | (BHP)  |                |
|-----------------|--------|------|------|--------|------|------------------------|--------|----------|---------|--------|----------------|
| <b>WGF 1563</b> |        |      |      |        |      | <b>Continuous Duty</b> |        |          |         |        | <b>5960 kg</b> |
| 3.503           | 2.50   | 600  | 1502 | (2015) | 800  | 2003                   | (2686) | 950      | 2379    | (3190) |                |
| 10.123          | 1.05   | 1600 | 1694 | (2272) | 2000 | 2118                   | (2840) | 2400     | 2542    | (3408) |                |

## WGF 1963 series

| Reduction ratio | kW/rpm | rpm  | kW   | (BHP)  | rpm  | kW                     | (BHP)  | max. rpm | max. kW | (BHP)  |                |
|-----------------|--------|------|------|--------|------|------------------------|--------|----------|---------|--------|----------------|
| <b>WGF 1963</b> |        |      |      |        |      | <b>Continuous Duty</b> |        |          |         |        | <b>7400 kg</b> |
| 3.501           | 2.50   | 600  | 1502 | (2015) | 800  | 2003                   | (2686) | 950      | 2379    | (3190) |                |
| 10.119          | 1.29   | 1600 | 2070 | (2776) | 2000 | 2588                   | (3471) | 2400     | 3106    | (4165) |                |

## WGF 3455 series

| Reduction ratio | kW/rpm | rpm  | kW   | (BHP)  | rpm  | kW                     | (BHP)  | max. rpm | max. kW | (BHP)  |                 |
|-----------------|--------|------|------|--------|------|------------------------|--------|----------|---------|--------|-----------------|
| <b>WGF 3455</b> |        |      |      |        |      | <b>Continuous Duty</b> |        |          |         |        | <b>10000 kg</b> |
| 4.069           | 4.37   | 600  | 2627 | (3523) | 800  | 3503                   | (4698) | 900      | 3941    | (5285) |                 |
| 8.713           | 2.22   | 1600 | 3554 | (4765) | 1800 | 3998                   | (5361) | 1950     | 4331    | (5808) |                 |

## WGF 4566 series

| Reduction ratio | kW/rpm | rpm  | kW   | (BHP)  | rpm  | kW                     | (BHP)  | max. rpm | max. kW | (BHP)  |                 |
|-----------------|--------|------|------|--------|------|------------------------|--------|----------|---------|--------|-----------------|
| <b>WGF 4566</b> |        |      |      |        |      | <b>Continuous Duty</b> |        |          |         |        | <b>15000 kg</b> |
| 4.154           | 4.20   | 500  | 2100 | (2816) | 600  | 2520                   | (3379) | 650      | 2730    | (3661) |                 |
| 9.205           | 2.65   | 1000 | 2654 | (3559) | 1200 | 3185                   | (4271) | 1400     | 3716    | (4983) |                 |



## WVS 234 series

|                  |                      |              |       | kW/rpm | kg  | kW              | (BHP) | kW              | (BHP) | kW                | (BHP) |
|------------------|----------------------|--------------|-------|--------|-----|-----------------|-------|-----------------|-------|-------------------|-------|
| <b>WVS 234/1</b> | <b>Medium Duty</b>   |              |       |        | 295 | <b>1800 rpm</b> |       | <b>2100 rpm</b> |       | <b>2300 rpm *</b> |       |
| 1.179            | 1.500                | <b>2.036</b> |       | 0.26   |     | 468             | (628) | 546             | (732) | 598               | (802) |
| 2.542            |                      |              |       | 0.25   |     | 450             | (603) | 525             | (704) | 575               | (771) |
| 2.864            |                      |              |       | 0.24   |     | 432             | (579) | 504             | (676) | 552               | (740) |
| <b>WVS 234/1</b> | <b>Light Duty</b>    |              |       |        | 295 | <b>1800 rpm</b> |       | <b>2100 rpm</b> |       | <b>2300 rpm *</b> |       |
| 1.179            | 1.500                | <b>2.036</b> | 2.542 | 0.29   |     | 522             | (700) | 609             | (817) | 667               | (894) |
| 2.864            |                      |              |       | 0.26   |     | 466             | (625) | 544             | (729) | 596               | (799) |
| <b>WVS 234/1</b> | <b>Pleasure Duty</b> |              |       |        | 295 | <b>2100 rpm</b> |       | <b>2200 rpm</b> |       | <b>2300 rpm *</b> |       |
| 1.179            | 1.500                | <b>2.036</b> | 2.542 | 0.29   |     | 615             | (825) | 645             | (864) | 674               | (904) |
| 2.864            |                      |              |       | 0.26   |     | 544             | (729) | 570             | (764) | 596               | (799) |



## WVS 334 series

|                |                      |  |  | kW/rpm | kg  | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|----------------|----------------------|--|--|--------|-----|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>WVS 334</b> | <b>Medium Duty</b>   |  |  |        | 340 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>1.122</b>   | <b>1.485</b>         |  |  | 0.30   |     | 540             | (724)  | 630             | (845)  | 690               | (925)  |
| <b>2.037</b>   |                      |  |  | 0.29   |     | 522             | (700)  | 609             | (817)  | 667               | (894)  |
| <b>2.407</b>   | <b>2.538</b>         |  |  | 0.28   |     | 504             | (676)  | 588             | (789)  | 644               | (864)  |
| <b>2.956</b>   |                      |  |  | 0.27   |     | 486             | (652)  | 567             | (760)  | 621               | (833)  |
| <b>3.522</b>   |                      |  |  | 0.26   |     | 468             | (628)  | 546             | (732)  | 598               | (802)  |
| <b>WVS 334</b> | <b>Light Duty</b>    |  |  |        | 340 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>1.122</b>   | <b>1.485</b>         |  |  | 0.36   |     | 648             | (869)  | 756             | (1014) | 828               | (1110) |
| <b>2.037</b>   |                      |  |  | 0.35   |     | 630             | (845)  | 735             | (986)  | 805               | (1080) |
| <b>2.407</b>   | <b>2.538</b>         |  |  | 0.34   |     | 612             | (821)  | 714             | (957)  | 782               | (1049) |
| <b>2.956</b>   |                      |  |  | 0.33   |     | 594             | (797)  | 693             | (929)  | 759               | (1018) |
| <b>3.522</b>   |                      |  |  | 0.31   |     | 558             | (748)  | 651             | (873)  | 713               | (956)  |
| <b>WVS 334</b> | <b>Pleasure Duty</b> |  |  |        | 340 | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>1.122</b>   |                      |  |  | 0.47   |     | 987             | (1324) | 1034            | (1387) | 1081              | (1450) |
| <b>1.485</b>   | <b>2.037</b>         |  |  | 0.46   |     | 966             | (1295) | 1012            | (1357) | 1058              | (1419) |
| <b>2.407</b>   | <b>2.538</b>         |  |  | 0.45   |     | 945             | (1267) | 990             | (1328) | 1035              | (1388) |
| <b>2.956</b>   |                      |  |  | 0.38   |     | 802             | (1076) | 840             | (1127) | 879               | (1178) |



## WVS 430 series

|                                |              | kW/rpm       | kg           | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |        |
|--------------------------------|--------------|--------------|--------------|-----------------|--------|-----------------|--------|-------------------|--------|--------|
| <b>WVS 430/1 Medium Duty</b>   |              |              | 490          | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |        |
| <b>1.485</b>                   |              | 0.51         |              | 918             | (1231) | 1071            | (1436) | 1173              | (1573) |        |
| <b>2.037</b>                   |              | 0.50         |              | 900             | (1207) | 1050            | (1408) | 1150              | (1542) |        |
| <b>2.458</b>                   |              | 0.49         |              | 882             | (1183) | 1029            | (1380) | 1127              | (1511) |        |
| <b>2.773</b>                   |              | 0.48         |              | 864             | (1159) | 1008            | (1352) | 1104              | (1480) |        |
| <b>2.905</b>                   |              | 0.47         |              | 846             | (1134) | 987             | (1324) | 1081              | (1450) |        |
| <b>3.286</b>                   | <b>3.316</b> | 0.46         |              | 828             | (1110) | 966             | (1295) | 1058              | (1419) |        |
| 3.550                          |              | 0.43         |              | 774             | (1038) | 903             | (1211) | 989               | (1326) |        |
| <b>WVS 430/1 Light Duty</b>    |              |              | 490          | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |        |
| <b>1.485</b>                   | <b>2.037</b> | <b>2.458</b> |              | 1044            | (1400) | 1218            | (1633) | 1334              | (1789) |        |
| <b>2.773</b>                   |              |              |              | 1026            | (1376) | 1197            | (1605) | 1311              | (1758) |        |
| <b>2.905</b>                   |              |              |              | 1008            | (1352) | 1176            | (1577) | 1288              | (1727) |        |
| <b>3.286</b>                   |              |              |              | 880             | (1180) | 1027            | (1377) | 1125              | (1508) |        |
| <b>3.316</b>                   |              |              |              | 842             | (1130) | 983             | (1318) | 1076              | (1443) |        |
| 3.550                          |              |              |              | 774             | (1038) | 903             | (1211) | 989               | (1326) |        |
| <b>WVS 430/1 Pleasure Duty</b> |              |              | 490          | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |        |
| <b>1.485</b>                   | <b>2.037</b> | <b>2.458</b> | <b>2.773</b> |                 | 1260   | (1690)          | 1320   | (1770)            | 1380   | (1851) |
| <b>2.905</b>                   |              |              |              |                 | 1176   | (1577)          | 1232   | (1652)            | 1288   | (1727) |
| <b>3.286</b>                   |              |              |              |                 | 1027   | (1377)          | 1076   | (1443)            | 1125   | (1508) |
| <b>3.316</b>                   |              |              |              |                 | 983    | (1318)          | 1030   | (1381)            | 1076   | (1443) |
| 3.550                          |              |              |              |                 | 903    | (1211)          | 946    | (1269)            | 989    | (1326) |



## WVS 730 series

|                               |              | kW/rpm       | kg  | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|-------------------------------|--------------|--------------|-----|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>WVS 730/1L Medium Duty</b> |              |              | 725 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.864</b>                  |              | 0.75         |     | 1350            | (1810) | 1575            | (2112) | 1725              | (2313) |
| <b>2.036</b>                  | <b>2.542</b> | <b>3.048</b> |     | 1260            | (1690) | 1470            | (1971) | 1610              | (2159) |
| <b>3.542</b>                  |              | 0.60         |     | 1080            | (1448) | 1260            | (1690) | 1380              | (1851) |



# WVS 730 series

|                                    |              |              |              |              | kW/rpm | kg  | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|------------------------------------|--------------|--------------|--------------|--------------|--------|-----|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>WVS 730/1L Medium Duty</b>      |              |              |              |              |        | 725 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>3.954</b>                       |              |              |              |              | 0.55   |     | 990             | (1328) | 1155            | (1549) | 1265              | (1696) |
| <b>WVS 730/1 Medium Duty</b>       |              |              |              |              |        | 725 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.036</b>                       | <b>2.269</b> | <b>2.542</b> | <b>2.864</b> | <b>3.048</b> | 0.85   |     | 1530            | (2052) | 1785            | (2394) | 1955              | (2622) |
| <b>3.542</b>                       |              |              |              |              | 0.82   |     | 1476            | (1979) | 1722            | (2309) | 1886              | (2529) |
| <b>3.954</b>                       |              |              |              |              | 0.76   |     | 1373            | (1842) | 1602            | (2149) | 1755              | (2353) |
| <b>WVS 730/1L Light Duty</b>       |              |              |              |              |        | 725 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.864</b>                       |              |              |              |              | 0.82   |     | 1476            | (1979) | 1722            | (2309) | 1886              | (2529) |
| <b>2.036</b>                       | <b>2.542</b> | <b>3.048</b> |              |              | 0.70   |     | 1260            | (1690) | 1470            | (1971) | 1610              | (2159) |
| <b>3.542</b>                       |              |              |              |              | 0.65   |     | 1170            | (1569) | 1365            | (1830) | 1495              | (2005) |
| <b>3.954</b>                       |              |              |              |              | 0.55   |     | 990             | (1328) | 1155            | (1549) | 1265              | (1696) |
| <b>WVS 730/1 Light Duty</b>        |              |              |              |              |        | 725 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.036</b>                       | <b>2.269</b> | <b>2.542</b> | <b>2.864</b> | <b>3.048</b> | 0.92   |     | 1656            | (2221) | 1932            | (2591) | 2116              | (2838) |
| <b>3.542</b>                       |              |              |              |              | 0.84   |     | 1510            | (2025) | 1762            | (2363) | 1930              | (2588) |
| <b>3.954</b>                       |              |              |              |              | 0.76   |     | 1373            | (1842) | 1602            | (2149) | 1755              | (2353) |
| <b>WVS 730/1L Pleasure Duty</b>    |              |              |              |              |        | 725 | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.864</b>                       |              |              |              |              | 0.85   |     | 1785            | (2394) | 1870            | (2508) | 1955              | (2622) |
| <b>2.036</b>                       | <b>2.542</b> | <b>3.048</b> |              |              | 0.70   |     | 1470            | (1971) | 1540            | (2065) | 1610              | (2159) |
| <b>3.542</b>                       |              |              |              |              | 0.65   |     | 1365            | (1830) | 1430            | (1918) | 1495              | (2005) |
| <b>3.954</b>                       |              |              |              |              | 0.55   |     | 1155            | (1549) | 1210            | (1623) | 1265              | (1696) |
| <b>WVS 730/1 Pleasure Duty</b>     |              |              |              |              |        | 725 | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.036</b>                       | <b>2.269</b> | <b>2.542</b> | <b>2.864</b> | <b>3.048</b> | 0.95   |     | 1995            | (2675) | 2090            | (2803) | 2185              | (2930) |
| <b>3.542</b>                       |              |              |              |              | 0.84   |     | 1762            | (2363) | 1846            | (2475) | 1930              | (2588) |
| <b>3.954</b>                       |              |              |              |              | 0.76   |     | 1602            | (2149) | 1679            | (2251) | 1755              | (2353) |
| <b>WVS 732 Super Pleasure Duty</b> |              |              |              |              |        | 725 | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.036</b>                       | <b>2.269</b> | <b>2.542</b> | <b>2.864</b> | <b>3.048</b> | 1.03   |     | 2163            | (2941) | 2266            | (3081) | 2369              | (3221) |





# WVS 930 series

|                                 |              |              |              |              | kW/rpm | kg  | kW (BHP)        |        | kW (BHP)        |        | kW (BHP)          |        |
|---------------------------------|--------------|--------------|--------------|--------------|--------|-----|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>WVS 930/1L Medium Duty</b>   |              |              |              |              |        | 950 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <i>1.525</i>                    | <i>2.032</i> | <i>2.482</i> |              |              | 1.00   |     | 1800            | (2414) | 2100            | (2816) | 2300              | (3084) |
| <i>3.044</i>                    |              |              |              |              | 0.98   |     | 1764            | (2366) | 2058            | (2760) | 2254              | (3023) |
| <i>3.954</i>                    |              |              |              |              | 0.75   |     | 1350            | (1810) | 1575            | (2112) | 1725              | (2313) |
| <b>WVS 930/1 Medium Duty</b>    |              |              |              |              |        | 950 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>1.525</b>                    | <b>1.730</b> | <i>2.032</i> |              |              | 1.20   |     | 2160            | (2897) | 2520            | (3379) | 2760              | (3701) |
| <b>2.482</b>                    |              |              |              |              | 1.18   |     | 2124            | (2848) | 2478            | (3323) | 2714              | (3639) |
| <b>3.044</b>                    |              |              |              |              | 1.13   |     | 2034            | (2728) | 2373            | (3182) | 2599              | (3485) |
| <b>WVS 930/1 Medium Duty</b>    |              |              |              |              |        | 950 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>3.954</b>                    |              |              |              |              | 1.00   |     | 1802            | (2416) | 2102            | (2819) | 2302              | (3087) |
| <b>WVS 930/1L Light Duty</b>    |              |              |              |              |        | 950 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <i>1.525</i>                    | <i>2.032</i> | <i>2.482</i> | <i>3.044</i> |              | 1.00   |     | 1800            | (2414) | 2100            | (2816) | 2300              | (3084) |
| <i>3.954</i>                    |              |              |              |              | 0.80   |     | 1440            | (1931) | 1680            | (2253) | 1840              | (2467) |
| <b>WVS 930/1 Light Duty</b>     |              |              |              |              |        | 950 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>1.525</b>                    | <b>1.730</b> | <i>2.032</i> | <b>2.482</b> | <b>3.044</b> | 1.28   |     | 2304            | (3090) | 2688            | (3605) | 2944              | (3948) |
| <b>3.954</b>                    |              |              |              |              | 1.00   |     | 1802            | (2416) | 2102            | (2819) | 2302              | (3087) |
| <b>WVS 930/1L Pleasure Duty</b> |              |              |              |              |        | 950 | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |
| <i>1.525</i>                    | <i>2.032</i> | <i>2.482</i> | <i>3.044</i> |              | 1.00   |     | 2100            | (2816) | 2200            | (2950) | 2300              | (3084) |
| <i>3.954</i>                    |              |              |              |              | 0.80   |     | 1680            | (2253) | 1760            | (2360) | 1840              | (2467) |
| <b>WVS 930/1 Pleasure Duty</b>  |              |              |              |              |        | 950 | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>1.525</b>                    | <b>1.730</b> | <i>2.032</i> | <b>2.482</b> |              | 1.34   |     | 2814            | (3774) | 2948            | (3953) | 3082              | (4133) |
| <b>3.044</b>                    |              |              |              |              | 1.32   |     | 2772            | (3717) | 2904            | (3894) | 3036              | (4071) |
| <b>3.954</b>                    |              |              |              |              | 1.00   |     | 2102            | (2819) | 2202            | (2953) | 2302              | (3087) |



## WVS 1540 series

|                 |                      |              |              |  | kW/rpm | kg   | kW              | (BHP) | kW              | (BHP) | kW                | (BHP) |
|-----------------|----------------------|--------------|--------------|--|--------|------|-----------------|-------|-----------------|-------|-------------------|-------|
| <b>WVS 1540</b> | <b>Medium Duty</b>   |              |              |  |        | 1450 | <b>1600 rpm</b> |       | <b>1800 rpm</b> |       | <b>2100 rpm *</b> |       |
| <b>2.952</b>    | <b>3.368</b>         | <b>3.947</b> | <b>4.350</b> |  | 1.50   | 2400 | (3218)          | 2700  | (3621)          | 3150  | (4224)            |       |
| <i>4.632</i>    |                      |              |              |  | 1.46   | 2338 | (3135)          | 2630  | (3527)          | 3068  | (4114)            |       |
| <b>WVS 1540</b> | <b>Light Duty</b>    |              |              |  |        | 1450 | <b>1800 rpm</b> |       | <b>1950 rpm</b> |       | <b>2100 rpm *</b> |       |
| <b>2.952</b>    | <b>3.368</b>         | <b>3.947</b> | <b>4.350</b> |  | 1.50   | 2700 | (3621)          | 2925  | (3922)          | 3150  | (4224)            |       |
| <i>4.632</i>    |                      |              |              |  | 1.46   | 2630 | (3527)          | 2849  | (3820)          | 3068  | (4114)            |       |
| <b>WVS 1540</b> | <b>Pleasure Duty</b> |              |              |  |        | 1450 | <b>1800 rpm</b> |       | <b>1950 rpm</b> |       | <b>2100 rpm *</b> |       |
| <b>2.952</b>    | <b>3.368</b>         | <b>3.947</b> | <b>4.350</b> |  | 1.50   | 2700 | (3621)          | 2925  | (3922)          | 3150  | (4224)            |       |
| <i>4.632</i>    |                      |              |              |  | 1.46   | 2630 | (3527)          | 2849  | (3820)          | 3068  | (4114)            |       |



## WVS 1930 series

|                 |                      |              |              |              | kW/rpm | kg   | kW              | (BHP) | kW              | (BHP) | kW                | (BHP) |
|-----------------|----------------------|--------------|--------------|--------------|--------|------|-----------------|-------|-----------------|-------|-------------------|-------|
| <b>WVS 1930</b> | <b>Medium Duty</b>   |              |              |              |        | 1550 | <b>1600 rpm</b> |       | <b>1800 rpm</b> |       | <b>2100 rpm *</b> |       |
| <i>1.410</i>    | <i>2.032</i>         | <i>2.458</i> | <i>2.952</i> | <i>3.368</i> | 1.85   | 2960 | (3969)          | 3330  | (4466)          | 3885  | (5210)            |       |
| <i>3.864</i>    |                      |              |              |              | 1.48   | 2374 | (3184)          | 2671  | (3582)          | 3116  | (4179)            |       |
| <b>WVS 1930</b> | <b>Light Duty</b>    |              |              |              |        | 1550 | <b>1800 rpm</b> |       | <b>1950 rpm</b> |       | <b>2100 rpm *</b> |       |
| <i>1.410</i>    | <i>2.032</i>         | <i>2.458</i> | <i>2.952</i> | <i>3.368</i> | 1.85   | 3330 | (4466)          | 3608  | (4838)          | 3885  | (5210)            |       |
| <i>3.864</i>    |                      |              |              |              | 1.48   | 2671 | (3582)          | 2894  | (3881)          | 3116  | (4179)            |       |
| <b>WVS 1930</b> | <b>Pleasure Duty</b> |              |              |              |        | 1550 | <b>1800 rpm</b> |       | <b>1950 rpm</b> |       | <b>2100 rpm *</b> |       |
| <i>1.410</i>    | <i>2.032</i>         | <i>2.458</i> | <i>2.952</i> | <i>3.368</i> | 1.85   | 3330 | (4466)          | 3608  | (4838)          | 3885  | (5210)            |       |
| <i>3.864</i>    |                      |              |              |              | 1.48   | 2671 | (3582)          | 2894  | (3881)          | 3116  | (4179)            |       |



## WVS 2230 series

|                 |                      |              |              |              | kW/rpm | kg   | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|-----------------|----------------------|--------------|--------------|--------------|--------|------|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>WVS 2230</b> | <b>Medium Duty</b>   |              |              |              |        | 2150 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
| <i>1.513</i>    | <i>2.025</i>         | <i>2.414</i> | <i>2.630</i> | <i>2.920</i> | 2.35   |      | 3760            | (5042) | 4230            | (5672) | 4935              | (6618) |
| <b>WVS 2230</b> | <b>Light Duty</b>    |              |              |              |        | 2150 | <b>1800 rpm</b> |        | <b>1950 rpm</b> |        | <b>2100 rpm *</b> |        |
| <i>1.513</i>    | <i>2.025</i>         | <i>2.414</i> | <i>2.630</i> | <i>2.920</i> | 2.45   |      | 4410            | (5914) | 4778            | (6407) | 5145              | (6899) |
| <b>WVS 2230</b> | <b>Pleasure Duty</b> |              |              |              |        | 2150 | <b>1800 rpm</b> |        | <b>1950 rpm</b> |        | <b>2100 rpm *</b> |        |
| <i>1.513</i>    | <i>2.025</i>         | <i>2.414</i> | <i>2.630</i> | <i>2.920</i> | 2.51   |      | 4518            | (6059) | 4894            | (6564) | 5271              | (7068) |



## WVS 2240 series

|                 |                      |  |  |  | kW/rpm | kg   | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|-----------------|----------------------|--|--|--|--------|------|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>WVS 2240</b> | <b>Medium Duty</b>   |  |  |  |        | 2185 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2100 rpm *</b> |        |
| <i>3.039</i>    |                      |  |  |  | 2.35   |      | 3760            | (5042) | 4230            | (5672) | 4935              | (6618) |
| <i>4.130</i>    |                      |  |  |  | 2.34   |      | 3744            | (5021) | 4212            | (5648) | 4914              | (6590) |
| <b>WVS 2240</b> | <b>Light Duty</b>    |  |  |  |        | 2185 | <b>1800 rpm</b> |        | <b>1950 rpm</b> |        | <b>2100 rpm *</b> |        |
| <i>3.039</i>    | <i>4.130</i>         |  |  |  | 2.45   |      | 4410            | (5914) | 4778            | (6407) | 5145              | (6899) |
| <b>WVS 2240</b> | <b>Pleasure Duty</b> |  |  |  |        | 2185 | <b>1800 rpm</b> |        | <b>1950 rpm</b> |        | <b>2100 rpm *</b> |        |
| <i>3.039</i>    | <i>4.130</i>         |  |  |  | 2.51   |      | 4518            | (6059) | 4894            | (6564) | 5271              | (7068) |



# WVSFA 442 series

10° between input and output shaft

|                                |              |              |              | kW/rpm | kg | kW (BHP)        |                 | kW (BHP)          |        |
|--------------------------------|--------------|--------------|--------------|--------|----|-----------------|-----------------|-------------------|--------|
| <b>WVSFA 442 Medium Duty</b>   |              |              |              | -      | -  | <b>1800 rpm</b> | <b>2100 rpm</b> | <b>2300 rpm *</b> |        |
| <i>2.514</i>                   | <i>2.743</i> |              |              | 0.51   |    | 913 (1224)      | 1065 (1428)     | 1166              | (1564) |
| <i>3.003</i>                   |              |              |              | 0.49   |    | 877 (1176)      | 1023 (1371)     | 1120              | (1502) |
| <i>3.647</i>                   |              |              |              | 0.44   |    | 792 (1062)      | 924 (1239)      | 1012              | (1357) |
| <i>4.053</i>                   |              |              |              | 0.42   |    | 756 (1014)      | 882 (1183)      | 966               | (1295) |
| <i>4.537</i>                   |              |              |              | 0.40   |    | 711 (953)       | 830 (1112)      | 908               | (1218) |
| <i>4.815</i>                   |              |              |              | 0.38   |    | 688 (922)       | 802 (1076)      | 879               | (1178) |
| <b>WVSFA 442 Light Duty</b>    |              |              |              | -      | -  | <b>1800 rpm</b> | <b>2100 rpm</b> | <b>2300 rpm *</b> |        |
| <i>2.514</i>                   | <i>2.743</i> | <i>3.003</i> | <i>3.647</i> | 0.57   |    | 1019 (1366)     | 1189 (1594)     | 1302              | (1746) |
| <i>4.053</i>                   |              |              |              | 0.50   |    | 900 (1207)      | 1050 (1408)     | 1150              | (1542) |
| <i>4.537</i>                   |              |              |              | 0.42   |    | 765 (1026)      | 892 (1197)      | 978               | (1311) |
| <i>4.815</i>                   |              |              |              | 0.39   |    | 697 (934)       | 813 (1090)      | 890               | (1194) |
| <b>WVSFA 442 Pleasure Duty</b> |              |              |              | -      | -  | <b>1800 rpm</b> | <b>2100 rpm</b> | <b>2300 rpm *</b> |        |
| <i>2.514</i>                   | <i>2.743</i> | <i>3.003</i> | <i>3.647</i> | 0.58   |    | 1053 (1412)     | 1228 (1647)     | 1346              | (1804) |
| <i>4.053</i>                   |              |              |              | 0.50   |    | 900 (1207)      | 1050 (1408)     | 1150              | (1542) |
| <i>4.537</i>                   |              |              |              | 0.42   |    | 765 (1026)      | 892 (1197)      | 978               | (1311) |
| <i>4.815</i>                   |              |              |              | 0.39   |    | 697 (934)       | 813 (1090)      | 890               | (1194) |

|               |                        |              | kW/rpm | kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|---------------|------------------------|--------------|--------|------|----------|--------|----------|--------|------------|--------|
| <b>EF 350</b> | <b>Continuous Duty</b> |              |        | 695  | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>4.190</b>  | <b>4.737</b>           | <b>5.056</b> | 0.34   |      | 544      | (730)  | 663      | (889)  | 782        | (1049) |
| <b>EF 370</b> | <b>Continuous Duty</b> |              |        | 730  | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>5.381</b>  | <b>6.053</b>           | <b>6.444</b> | 0.34   |      | 544      | (730)  | 663      | (889)  | 782        | (1049) |
| <b>EF 380</b> | <b>Continuous Duty</b> |              |        | 1205 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>6.714</b>  | <b>7.526</b>           | <b>8.000</b> | 0.34   |      | 544      | (730)  | 663      | (889)  | 782        | (1049) |
| <b>EF 450</b> | <b>Continuous Duty</b> |              |        | 875  | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>4.190</b>  | <b>4.737</b>           | <b>5.056</b> | 0.48   |      | 768      | (1030) | 936      | (1255) | 1104       | (1480) |
| <b>EF 470</b> | <b>Continuous Duty</b> |              |        | 1145 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>5.381</b>  | <b>6.053</b>           | <b>6.444</b> | 0.48   |      | 768      | (1030) | 936      | (1255) | 1104       | (1480) |
| <b>EF 480</b> | <b>Continuous Duty</b> |              |        | 1565 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>6.714</b>  | <b>7.526</b>           | <b>8.000</b> | 0.48   |      | 768      | (1030) | 936      | (1255) | 1104       | (1480) |
| <b>EF 550</b> | <b>Continuous Duty</b> |              |        | 1200 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>4.190</b>  | <b>4.737</b>           | <b>5.056</b> | 0.63   |      | 1008     | (1352) | 1228     | (1647) | 1449       | (1943) |
| <b>EF 570</b> | <b>Continuous Duty</b> |              |        | 1425 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>5.381</b>  | <b>6.053</b>           | <b>6.444</b> | 0.63   |      | 1008     | (1352) | 1228     | (1647) | 1449       | (1943) |
| <b>EF 580</b> | <b>Continuous Duty</b> |              |        | 1850 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>6.714</b>  | <b>7.526</b>           | <b>8.000</b> | 0.63   |      | 1008     | (1352) | 1228     | (1647) | 1449       | (1943) |

|               |                        |              |              |              | kW/rpm | kg   | kW (BHP) |      | kW (BHP) |      | kW (BHP)   |  |
|---------------|------------------------|--------------|--------------|--------------|--------|------|----------|------|----------|------|------------|--|
| <b>AF 264</b> | <b>Continuous Duty</b> |              |              |              |        | 670  | 1600 rpm |      | 1800 rpm |      | 2100 rpm * |  |
| <b>3.519</b>  | <b>4.083</b>           | <b>4.500</b> | <b>4.762</b> |              | 0.29   | 469  | (629)    | 527  | (707)    | 615  | (825)      |  |
| <b>3.519</b>  | <b>4.083</b>           | <b>4.500</b> | <b>4.762</b> |              | 0.29   | 464  | (622)    | 522  | (700)    | 609  | (817)      |  |
| <b>5.050</b>  |                        |              |              |              | 0.27   | 432  | (579)    | 486  | (652)    | 567  | (760)      |  |
| <b>5.476</b>  |                        |              |              |              | 0.26   | 416  | (558)    | 468  | (628)    | 546  | (732)      |  |
| <b>5.800</b>  |                        |              |              |              | 0.24   | 384  | (515)    | 432  | (579)    | 504  | (676)      |  |
| <b>AF 344</b> | <b>Continuous Duty</b> |              |              |              |        | 700  | 1600 rpm |      | 1800 rpm |      | 2100 rpm * |  |
| <b>1.972</b>  | <b>2.452</b>           | <b>2.963</b> |              |              | 0.36   | 576  | (772)    | 648  | (869)    | 756  | (1014)     |  |
| <b>3.280</b>  | <b>3.571</b>           |              |              |              | 0.33   | 528  | (708)    | 594  | (797)    | 693  | (929)      |  |
| <b>4.053</b>  |                        |              |              |              | 0.31   | 496  | (665)    | 558  | (748)    | 651  | (873)      |  |
| <b>AF 364</b> | <b>Continuous Duty</b> |              |              |              |        | 770  | 1600 rpm |      | 1800 rpm |      | 2100 rpm * |  |
| <b>3.485</b>  | <b>3.933</b>           | <b>4.481</b> | <b>4.920</b> | <b>5.435</b> | 0.36   | 576  | (772)    | 648  | (869)    | 756  | (1014)     |  |
| <b>6.048</b>  |                        |              |              |              | 0.34   | 544  | (730)    | 612  | (821)    | 714  | (957)      |  |
| <b>AF 665</b> | <b>Continuous Duty</b> |              |              |              |        | 1700 | 1200 rpm |      | 1600 rpm |      | 1800 rpm * |  |
| <b>2.969</b>  |                        |              |              |              | 0.94   | 1132 | (1517)   | 1509 | (2023)   | 1697 | (2276)     |  |
| <b>3.536</b>  | <i>4.080</i>           | <i>4.560</i> | <b>5.043</b> | <i>5.571</i> | 0.77   | 924  | (1239)   | 1232 | (1652)   | 1386 | (1859)     |  |
| <b>5.950</b>  |                        |              |              |              |        |      |          |      |          |      |            |  |
| <b>AF 743</b> | <b>Continuous Duty</b> |              |              |              |        | 1600 | 1200 rpm |      | 1600 rpm |      | 1800 rpm * |  |
| <i>2.714</i>  | <i>2.889</i>           | <b>3.038</b> | <b>3.333</b> | <b>3.550</b> | 1.00   | 1200 | (1609)   | 1600 | (2146)   | 1800 | (2414)     |  |
| <b>3.952</b>  |                        |              |              |              | 0.97   | 1164 | (1561)   | 1552 | (2081)   | 1746 | (2341)     |  |
| <b>AF 763</b> | <b>Continuous Duty</b> |              |              |              |        | 2100 | 1200 rpm |      | 1600 rpm |      | 1800 rpm * |  |
| <b>4.037</b>  | <b>4.625</b>           | <b>5.136</b> | <b>5.429</b> | <b>5.750</b> | 1.00   | 1200 | (1609)   | 1600 | (2146)   | 1800 | (2414)     |  |
| <b>5.913</b>  |                        |              |              |              | 0.97   | 1164 | (1561)   | 1552 | (2081)   | 1746 | (2341)     |  |
| <b>AF 843</b> | <b>Continuous Duty</b> |              |              |              |        | 2200 | 1200 rpm |      | 1600 rpm |      | 1800 rpm * |  |
| <b>3.080</b>  | <b>3.435</b>           | <b>3.500</b> |              |              | 1.45   | 1740 | (2333)   | 2320 | (3111)   | 2610 | (3500)     |  |
| <b>3.905</b>  |                        |              |              |              | 1.38   | 1656 | (2221)   | 2208 | (2961)   | 2484 | (3331)     |  |
| <b>4.087</b>  | <b>4.318</b>           |              |              |              | 1.27   | 1524 | (2044)   | 2032 | (2725)   | 2286 | (3066)     |  |
| <b>AF 863</b> | <b>Continuous Duty</b> |              |              |              |        | 2900 | 1200 rpm |      | 1600 rpm |      | 1800 rpm * |  |
| <b>4.038</b>  | <b>4.458</b>           | <b>4.955</b> |              |              | 1.45   | 1740 | (2333)   | 2320 | (3111)   | 2610 | (3500)     |  |
| <b>5.500</b>  | <b>5.842</b>           |              |              |              | 1.38   | 1656 | (2221)   | 2208 | (2961)   | 2484 | (3331)     |  |



## AF 873 series

|               |                        |              | kW/rpm | kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|---------------|------------------------|--------------|--------|------|----------|--------|----------|--------|------------|--------|
| <b>AF 873</b> | <b>Continuous Duty</b> |              |        | 3800 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>6.440</b>  | <b>6.750</b>           | <b>7.087</b> | 1.45   |      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
| <b>7.454</b>  | <b>7.526</b>           |              | 1.38   |      | 1656     | (2221) | 2208     | (2961) | 2484       | (3331) |



## AF 1100 – 1500 series

|                |                        |              | kW/rpm | kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|----------------|------------------------|--------------|--------|------|----------|--------|----------|--------|------------|--------|
| <b>AF 1143</b> | <b>Continuous Duty</b> |              |        | 2200 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <i>1.966</i>   | <i>2.429</i>           | <i>3.037</i> | 1.70   |      | 2040     | (2736) | 2720     | (3648) | 3060       | (4103) |
| <b>3.500</b>   |                        |              | 1.60   |      | 1920     | (2575) | 2560     | (3433) | 2880       | (3862) |
| <i>3.909</i>   |                        |              | 1.48   |      | 1776     | (2382) | 2368     | (3175) | 2664       | (3572) |
| <b>AF 1163</b> | <b>Continuous Duty</b> |              |        | 3150 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <i>4.500</i>   | <i>4.720</i>           | <i>4.958</i> | 1.70   |      | 2040     | (2736) | 2720     | (3648) | 3060       | (4103) |
| <b>5.500</b>   |                        |              | 1.53   |      | 1836     | (2462) | 2448     | (3283) | 2754       | (3693) |
| <i>5.810</i>   |                        |              | 1.45   |      | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |
| <b>AF 1173</b> | <b>Continuous Duty</b> |              |        | 3300 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>6.080</b>   |                        |              | 1.70   |      | 2040     | (2736) | 2720     | (3648) | 3060       | (4103) |
| <i>6.696</i>   |                        |              | 1.63   |      | 1956     | (2623) | 2608     | (3497) | 2934       | (3934) |
| <i>6.850</i>   | <i>7.045</i>           | <b>7.429</b> | 1.50   |      | 1800     | (2414) | 2400     | (3218) | 2700       | (3621) |
| <b>AF 1543</b> | <b>Continuous Duty</b> |              |        | 3200 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
| <i>2.032</i>   | <i>2.467</i>           | <i>3.038</i> | 2.10   |      | 2520     | (3379) | 2730     | (3661) | 3360       | (4506) |
| <i>3.522</i>   | <b>3.857</b>           |              | 1.90   |      | 2280     | (3057) | 2470     | (3312) | 3040       | (4077) |
| <b>AF 1563</b> | <b>Continuous Duty</b> |              |        | 4300 | 1200 rpm |        | 1300 rpm |        | 1600 rpm * |        |
| <i>4.429</i>   | <i>4.846</i>           |              | 2.10   |      | 2520     | (3379) | 2730     | (3661) | 3360       | (4506) |
| <i>5.375</i>   | <b>5.444</b>           | <i>5.954</i> | 1.80   |      | 2160     | (2897) | 2340     | (3138) | 2880       | (3862) |



## AF 2300 series

|                |                        | kW/rpm | kg   | kW      | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|----------------|------------------------|--------|------|---------|--------|----------|--------|------------|--------|
| <b>AF 2365</b> | <b>Continuous Duty</b> |        | 7800 | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
| <i>5.074</i>   |                        | 3.45   |      | 2588    | (3470) | 3450     | (4626) | 3795       | (5089) |
| <i>6.455</i>   |                        | 2.81   |      | 2108    | (2826) | 2810     | (3768) | 3091       | (4145) |
| <b>AF 2375</b> | <b>Continuous Duty</b> |        | 8500 | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
| <i>5.958</i>   |                        | 3.32   |      | 2490    | (3339) | 3320     | (4452) | 3652       | (4897) |
| <i>7.454</i>   |                        | 2.81   |      | 2108    | (2826) | 2810     | (3768) | 3091       | (4145) |



|               |                        |              | kW/rpm | kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|---------------|------------------------|--------------|--------|------|----------|--------|----------|--------|------------|--------|
| <b>LF 350</b> | <b>Continuous Duty</b> |              |        | 695  | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>4.190</b>  | <b>4.737</b>           | <b>5.056</b> | 0.34   |      | 544      | (730)  | 663      | (889)  | 782        | (1049) |
| <b>LF 370</b> | <b>Continuous Duty</b> |              |        | 730  | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>5.381</b>  | <b>6.053</b>           | <b>6.444</b> | 0.34   |      | 544      | (730)  | 663      | (889)  | 782        | (1049) |
| <b>LF 380</b> | <b>Continuous Duty</b> |              |        | 1205 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>6.714</b>  | <b>7.526</b>           | <b>8.000</b> | 0.34   |      | 544      | (730)  | 663      | (889)  | 782        | (1049) |
| <b>LF 450</b> | <b>Continuous Duty</b> |              |        | 875  | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>4.190</b>  | <b>4.737</b>           | <b>5.056</b> | 0.48   |      | 768      | (1030) | 936      | (1255) | 1104       | (1480) |
| <b>LF 470</b> | <b>Continuous Duty</b> |              |        | 1145 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>5.381</b>  | <b>6.053</b>           | <b>6.444</b> | 0.48   |      | 768      | (1030) | 936      | (1255) | 1104       | (1480) |
| <b>LF 480</b> | <b>Continuous Duty</b> |              |        | 1565 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>6.714</b>  | <b>7.526</b>           | <b>8.000</b> | 0.48   |      | 768      | (1030) | 936      | (1255) | 1104       | (1480) |
| <b>LF 550</b> | <b>Continuous Duty</b> |              |        | 1200 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>4.190</b>  | <b>4.737</b>           | <b>5.056</b> | 0.63   |      | 1008     | (1352) | 1228     | (1647) | 1449       | (1943) |
| <b>LF 570</b> | <b>Continuous Duty</b> |              |        | 1425 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>5.381</b>  | <b>6.053</b>           | <b>6.444</b> | 0.63   |      | 1008     | (1352) | 1228     | (1647) | 1449       | (1943) |
| <b>LF 580</b> | <b>Continuous Duty</b> |              |        | 1850 | 1600 rpm |        | 1950 rpm |        | 2300 rpm * |        |
| <b>6.714</b>  | <b>7.526</b>           | <b>8.000</b> | 0.63   |      | 1008     | (1352) | 1228     | (1647) | 1449       | (1943) |



## LAF 543 series

|                                 |              |              |              | kW/rpm | kg  | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|---------------------------------|--------------|--------------|--------------|--------|-----|----------|--------|----------|--------|------------|--------|
| <b>LAF 543L Continuous Duty</b> |              |              |              |        | 925 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>2.542</b>                    | <b>2.960</b> | <b>3.542</b> | <b>3.955</b> | 0.53   |     | 848      | (1137) | 954      | (1279) | 1113       | (1493) |
| <b>4.450</b>                    |              |              |              | 0.49   |     | 784      | (1051) | 882      | (1183) | 1029       | (1380) |
| <b>LAF 543 Continuous Duty</b>  |              |              |              |        | 925 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>2.542</b>                    | <b>2.960</b> | <b>3.542</b> |              | 0.57   |     | 912      | (1223) | 1026     | (1376) | 1197       | (1605) |
| <b>3.955</b>                    |              |              |              | 0.55   |     | 880      | (1180) | 990      | (1328) | 1155       | (1549) |
| <b>4.450</b>                    |              |              |              | 0.49   |     | 784      | (1051) | 882      | (1183) | 1029       | (1380) |



## LAF 563 series

|                                 |              |              |  | kW/rpm | kg   | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|---------------------------------|--------------|--------------|--|--------|------|----------|--------|----------|--------|------------|--------|
| <b>LAF 563L Continuous Duty</b> |              |              |  |        | 1325 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>4.545</b>                    | <b>5.050</b> | <b>5.421</b> |  | 0.57   |      | 912      | (1223) | 1026     | (1376) | 1197       | (1605) |
| <b>5.947</b>                    |              |              |  | 0.53   |      | 848      | (1137) | 954      | (1279) | 1113       | (1493) |
| <b>LAF 563 Continuous Duty</b>  |              |              |  |        | 1325 | 1600 rpm |        | 1800 rpm |        | 2100 rpm * |        |
| <b>4.545</b>                    | <b>5.050</b> | <b>5.421</b> |  | 0.59   |      | 944      | (1266) | 1062     | (1424) | 1239       | (1661) |
| <b>5.947</b>                    |              |              |  | 0.55   |      | 880      | (1180) | 990      | (1328) | 1155       | (1549) |



## LAF 573 series

|                                 |              |              |  | kW/rpm | kg   | kW       | (BHP) | kW       | (BHP)  | kW         | (BHP)  |
|---------------------------------|--------------|--------------|--|--------|------|----------|-------|----------|--------|------------|--------|
| <b>LAF 573L Continuous Duty</b> |              |              |  |        | 2190 | 1200 rpm |       | 1600 rpm |        | 1800 rpm * |        |
| <b>6.417</b>                    | <b>7.091</b> | <b>7.474</b> |  | 0.53   |      | 636      | (853) | 848      | (1137) | 954        | (1279) |
| <b>LAF 573 Continuous Duty</b>  |              |              |  |        | 2190 | 1200 rpm |       | 1600 rpm |        | 1800 rpm * |        |
| <b>6.417</b>                    | <b>7.091</b> |              |  | 0.57   |      | 684      | (917) | 912      | (1223) | 1026       | (1376) |
| <b>7.474</b>                    |              |              |  | 0.56   |      | 672      | (901) | 896      | (1202) | 1008       | (1352) |



# LAF 600 – 800 series

|                                 |              |              |              |              | kW/rpm | kg   | kW (BHP) |        | kW (BHP) |        | kW (BHP)   |        |
|---------------------------------|--------------|--------------|--------------|--------------|--------|------|----------|--------|----------|--------|------------|--------|
| <b>LAF 665L Continuous Duty</b> |              |              |              |              |        | 1800 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>2.969</b>                    | <b>3.536</b> | <i>4.080</i> | <i>4.560</i> | <b>5.043</b> | 0.70   |      | 840      | (1126) | 1120     | (1502) | 1260       | (1690) |
| <i>5.571</i>                    | <b>5.950</b> |              |              |              |        |      |          |        |          |        |            |        |
| <b>LAF 665 Continuous Duty</b>  |              |              |              |              |        | 1800 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>2.969</b>                    | <b>3.536</b> | <i>4.080</i> | <i>4.560</i> | <b>5.043</b> | 0.77   |      | 924      | (1239) | 1232     | (1652) | 1386       | (1859) |
| <i>5.571</i>                    | <b>5.950</b> |              |              |              |        |      |          |        |          |        |            |        |
| <b>LAF 675L Continuous Duty</b> |              |              |              |              |        | 2450 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>6.417</b>                    | <b>6.739</b> | <b>7.091</b> | <b>7.476</b> |              | 0.70   |      | 840      | (1126) | 1120     | (1502) | 1260       | (1690) |
| <b>LAF 675 Continuous Duty</b>  |              |              |              |              |        | 2450 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>6.417</b>                    | <b>6.739</b> | <b>7.091</b> | <b>7.476</b> |              | 0.77   |      | 924      | (1239) | 1232     | (1652) | 1386       | (1859) |
| <b>LAF 743L Continuous Duty</b> |              |              |              |              |        | 1600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>3.038</b>                    | <b>3.333</b> | <b>3.550</b> | <b>3.952</b> |              | 0.88   |      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |
| <b>LAF 743 Continuous Duty</b>  |              |              |              |              |        | 1600 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <i>2.714</i>                    | <i>2.889</i> | <b>3.038</b> | <b>3.333</b> | <b>3.550</b> | 1.15   |      | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |
| <b>3.952</b>                    |              |              |              |              | 1.10   |      | 1320     | (1770) | 1760     | (2360) | 1980       | (2655) |
| <b>LAF 763L Continuous Duty</b> |              |              |              |              |        | 2100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>4.625</b>                    | <b>5.136</b> | <b>5.429</b> | <b>5.750</b> | <b>5.913</b> | 0.88   |      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |
| <b>LAF 763 Continuous Duty</b>  |              |              |              |              |        | 2100 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>4.037</b>                    | <b>4.625</b> |              |              |              | 1.15   |      | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |
| <b>4.037</b>                    | <b>4.625</b> |              |              |              | 1.15   |      | 1378     | (1847) | 1837     | (2463) | 2066       | (2771) |
| <b>5.136</b>                    |              |              |              |              | 1.13   |      | 1355     | (1817) | 1806     | (2422) | 2032       | (2725) |
| <b>5.429</b>                    |              |              |              |              | 1.08   |      | 1296     | (1738) | 1728     | (2317) | 1944       | (2607) |
| <b>5.750</b>                    |              |              |              |              | 1.03   |      | 1236     | (1657) | 1648     | (2210) | 1854       | (2486) |
| <b>5.913</b>                    |              |              |              |              | 1.02   |      | 1219     | (1635) | 1626     | (2180) | 1829       | (2452) |
| <b>LAF 773L Continuous Duty</b> |              |              |              |              |        | 3000 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>6.154</b>                    | <b>6.440</b> | <b>7.087</b> | <b>7.454</b> |              | 0.88   |      | 1056     | (1416) | 1408     | (1888) | 1584       | (2124) |
| <b>LAF 773 Continuous Duty</b>  |              |              |              |              |        | 3000 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>6.154</b>                    | <b>6.440</b> | <b>7.087</b> |              |              | 1.15   |      | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |
| <b>7.454</b>                    |              |              |              |              | 1.12   |      | 1345     | (1804) | 1794     | (2405) | 2018       | (2706) |
| <b>LAF 843L Continuous Duty</b> |              |              |              |              |        | 2640 | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |
| <b>3.080</b>                    | <b>3.500</b> |              |              |              | 1.25   |      | 1500     | (2012) | 2000     | (2682) | 2250       | (3017) |



# LAF 800 series

|                 |                        | kW/rpm       | kg           | kW       | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |        |
|-----------------|------------------------|--------------|--------------|----------|--------|----------|--------|------------|--------|--------|
| <b>LAF 843L</b> | <b>Continuous Duty</b> |              | 2640         | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |        |
| <b>3.905</b>    | <b>4.318</b>           | 1.15         |              | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |        |
| <b>LAF 843</b>  | <b>Continuous Duty</b> |              | 2640         | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |        |
| <b>3.080</b>    | <b>3.435</b>           | 1.45         |              | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |        |
| <b>3.500</b>    |                        | 1.43         |              | 1714     | (2298) | 2285     | (3064) | 2570       | (3447) |        |
| <b>3.905</b>    |                        | 1.38         |              | 1654     | (2217) | 2205     | (2957) | 2480       | (3326) |        |
| <b>4.087</b>    |                        | 1.31         |              | 1571     | (2106) | 2094     | (2809) | 2356       | (3160) |        |
| <b>4.318</b>    |                        | 1.26         |              | 1516     | (2032) | 2021     | (2710) | 2273       | (3049) |        |
| <b>LAF 863L</b> | <b>Continuous Duty</b> |              | 2850         | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |        |
| <b>4.038</b>    | <b>4.458</b>           | <b>4.955</b> | 1.25         | 1500     | (2012) | 2000     | (2682) | 2250       | (3017) |        |
| <b>5.500</b>    | <b>5.842</b>           |              | 1.15         | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |        |
| <b>LAF 863</b>  | <b>Continuous Duty</b> |              | 2850         | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |        |
| <b>4.038</b>    | <b>4.458</b>           | <b>4.955</b> | <b>5.500</b> | 1.45     | 1740   | (2333)   | 2320   | (3111)     | 2610   | (3500) |
| <b>5.842</b>    |                        |              |              | 1.44     | 1723   | (2311)   | 2298   | (3081)     | 2585   | (3466) |
| <b>LAF 873L</b> | <b>Continuous Duty</b> |              | 3850         | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |        |
| <b>6.440</b>    | <b>6.750</b>           | <b>7.087</b> | 1.25         | 1500     | (2012) | 2000     | (2682) | 2250       | (3017) |        |
| <b>7.454</b>    | <b>7.526</b>           |              | 1.15         | 1380     | (1851) | 1840     | (2467) | 2070       | (2776) |        |
| <b>LAF 873</b>  | <b>Continuous Duty</b> |              | 3850         | 1200 rpm |        | 1600 rpm |        | 1800 rpm * |        |        |
| <b>6.440</b>    | <b>6.750</b>           | <b>7.087</b> | 1.45         | 1740     | (2333) | 2320     | (3111) | 2610       | (3500) |        |



# LAF 1100 – 1900 series

|                 |                        |       |              |              | kW/rpm | kg   | kW (BHP) |      | kW (BHP) |      | kW (BHP)   |  |
|-----------------|------------------------|-------|--------------|--------------|--------|------|----------|------|----------|------|------------|--|
| <b>LAF 1143</b> | <b>Continuous Duty</b> |       |              |              |        | 2450 | 1200 rpm |      | 1600 rpm |      | 1800 rpm * |  |
| 1.966           | 2.429                  | 3.037 | <b>3.500</b> |              | 1.85   | 2220 | (2977)   | 2960 | (3969)   | 3330 | (4466)     |  |
| 3.909           |                        |       |              |              | 1.72   | 2068 | (2773)   | 2757 | (3697)   | 3101 | (4159)     |  |
| <b>LAF 1163</b> | <b>Continuous Duty</b> |       |              |              |        | 3300 | 1200 rpm |      | 1600 rpm |      | 1800 rpm * |  |
| 4.296           | 4.500                  | 4.958 | 5.500        |              | 1.85   | 2220 | (2977)   | 2960 | (3969)   | 3330 | (4466)     |  |
| 5.810           |                        |       |              |              | 1.79   | 2148 | (2880)   | 2864 | (3841)   | 3222 | (4321)     |  |
| <b>LAF 1173</b> | <b>Continuous Duty</b> |       |              |              |        | 4600 | 1200 rpm |      | 1600 rpm |      | 1800 rpm * |  |
| <b>6.080</b>    | 6.696                  | 7.045 |              |              | 1.85   | 2220 | (2977)   | 2960 | (3969)   | 3330 | (4466)     |  |
| <b>7.429</b>    |                        |       |              |              | 1.81   | 2171 | (2911)   | 2894 | (3881)   | 3256 | (4367)     |  |
| 8.778           |                        |       |              |              | 1.40   | 1675 | (2246)   | 2234 | (2995)   | 2513 | (3370)     |  |
| <b>LAF 1543</b> | <b>Continuous Duty</b> |       |              |              |        | 3000 | 1200 rpm |      | 1500 rpm |      | 1600 rpm * |  |
| 2.032           | 2.467                  | 3.038 | 3.522        | <b>3.857</b> | 2.10   | 2520 | (3379)   | 3150 | (4224)   | 3360 | (4506)     |  |
| 2.032           | 2.467                  | 3.038 | 3.522        | <b>3.857</b> | 2.10   | 2514 | (3371)   | 3143 | (4214)   | 3352 | (4495)     |  |
| <b>LAF 1563</b> | <b>Continuous Duty</b> |       |              |              |        | 4000 | 1200 rpm |      | 1500 rpm |      | 1600 rpm * |  |
| 3.903           | 4.429                  | 4.846 | 5.375        |              | 2.10   | 2520 | (3379)   | 3150 | (4224)   | 3360 | (4506)     |  |
| 5.954           |                        |       |              |              | 2.05   | 2455 | (3292)   | 3069 | (4116)   | 3274 | (4390)     |  |
| <b>5.444</b>    |                        |       |              |              | 1.98   | 2376 | (3186)   | 2970 | (3983)   | 3168 | (4248)     |  |
| 6.286           |                        |       |              |              | 1.95   | 2341 | (3140)   | 2926 | (3924)   | 3122 | (4186)     |  |
| <b>LAF 1943</b> | <b>Continuous Duty</b> |       |              |              |        | 4060 | 1200 rpm |      | 1500 rpm |      | 1600 rpm * |  |
| 2.059           | 2.467                  | 2.962 | <b>3.522</b> | 3.952        | 2.60   | 3120 | (4184)   | 3900 | (5230)   | 4160 | (5579)     |  |
| 4.087           |                        |       |              |              |        |      |          |      |          |      |            |  |
| <b>LAF 1963</b> | <b>Continuous Duty</b> |       |              |              |        | 4940 | 1200 rpm |      | 1500 rpm |      | 1600 rpm * |  |
| 4.467           | 4.857                  | 5.560 | 5.952        | 6.130        | 2.60   | 3120 | (4184)   | 3900 | (5230)   | 4160 | (5579)     |  |
| <b>6.300</b>    |                        |       |              |              |        |      |          |      |          |      |            |  |
| 6.409           |                        |       |              |              | 2.56   | 3068 | (4115)   | 3836 | (5143)   | 4091 | (5486)     |  |
| <b>LAF 1973</b> | <b>Continuous Duty</b> |       |              |              |        | 7580 | 1200 rpm |      | 1300 rpm |      | 1600 rpm * |  |
| <b>8.316</b>    |                        |       |              |              | 2.60   | 3120 | (4184)   | 3380 | (4533)   | 4160 | (5579)     |  |



## LAF 2300 series

|                 |                        | kW/rpm | kg   | kW      | (BHP)  | kW       | (BHP)  | kW         | (BHP)  |
|-----------------|------------------------|--------|------|---------|--------|----------|--------|------------|--------|
| <b>LAF 2346</b> | <b>Continuous Duty</b> |        | 5300 | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
| 2.077           |                        | 3.40   |      | 2550    | (3420) | 3400     | (4559) | 3740       | (5015) |
| 4.454           |                        | 2.95   |      | 2212    | (2966) | 2949     | (3955) | 3244       | (4350) |
| <b>LAF 2355</b> | <b>Continuous Duty</b> |        | 6300 | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
| 3.536           |                        | 3.40   |      | 2550    | (3420) | 3400     | (4559) | 3740       | (5015) |
| 5.762           |                        | 2.68   |      | 2010    | (2695) | 2680     | (3594) | 2948       | (3953) |
| <b>LAF 2365</b> | <b>Continuous Duty</b> |        | 7200 | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
| 5.074           |                        | 3.40   |      | 2550    | (3420) | 3400     | (4559) | 3740       | (5015) |
| 6.455           |                        | 2.94   |      | 2206    | (2959) | 2942     | (3945) | 3236       | (4340) |
| <b>LAF 2375</b> | <b>Continuous Duty</b> |        | 9200 | 750 rpm |        | 1000 rpm |        | 1100 rpm * |        |
| 5.958           |                        | 3.40   |      | 2550    | (3420) | 3400     | (4559) | 3740       | (5015) |
| 7.454           |                        | 2.89   |      | 2168    | (2908) | 2891     | (3877) | 3180       | (4265) |



## LAF 3400 series

|                 |                        | kW/rpm | kg    | kW      | (BHP)  | kW      | (BHP)  | kW         | (BHP)  |
|-----------------|------------------------|--------|-------|---------|--------|---------|--------|------------|--------|
| <b>LAF 3445</b> | <b>Continuous Duty</b> |        | 6400  | 600 rpm |        | 900 rpm |        | 1200 rpm * |        |
| 2.053           |                        | 4.35   |       | 2610    | (3500) | 3915    | (5250) | 5220       | (7000) |
| 4.524           |                        | 3.76   |       | 2257    | (3027) | 3386    | (4540) | 4514       | (6054) |
| <b>LAF 3465</b> | <b>Continuous Duty</b> |        | 9700  | 600 rpm |        | 900 rpm |        | 1200 rpm * |        |
| 5.077           |                        | 4.35   |       | 2610    | (3500) | 3915    | (5250) | 5220       | (7000) |
| 6.954           |                        | 2.96   |       | 1779    | (2386) | 2668    | (3578) | 3558       | (4771) |
| <b>LAF 3455</b> | <b>Continuous Duty</b> |        | 7800  | 600 rpm |        | 900 rpm |        | 1200 rpm * |        |
| 4.074           |                        | 4.35   |       | 2610    | (3500) | 3915    | (5250) | 5220       | (7000) |
| 5.954           |                        | 3.16   |       | 1894    | (2539) | 2840    | (3809) | 3787       | (5079) |
| <b>LAF 3475</b> | <b>Continuous Duty</b> |        | 10800 | 600 rpm |        | 900 rpm |        | 1200 rpm * |        |
| 6.087           |                        | 4.35   |       | 2610    | (3500) | 3915    | (5250) | 5220       | (7000) |
| 7.524           |                        | 3.60   |       | 2159    | (2895) | 3238    | (4342) | 4318       | (5790) |



## LAF 4500 series

|                 |                        | kW/rpm | kg    | kW      | (BHP)  | kW      | (BHP)  | kW         | (BHP)  |
|-----------------|------------------------|--------|-------|---------|--------|---------|--------|------------|--------|
| <b>LAF 4545</b> | <b>Continuous Duty</b> |        | 8000  | 600 rpm |        | 900 rpm |        | 1200 rpm * |        |
| <i>1.591</i>    |                        | 5.50   |       | 3300    | (4425) | 4950    | (6638) | 6600       | (8851) |
| <i>4.429</i>    |                        | 4.42   |       | 2653    | (3558) | 3980    | (5337) | 5306       | (7116) |
| <b>LAF 4555</b> | <b>Continuous Duty</b> |        | 9500  | 600 rpm |        | 900 rpm |        | 1200 rpm * |        |
| <i>3.960</i>    |                        | 5.50   |       | 3300    | (4425) | 4950    | (6638) | 6600       | (8851) |
| <i>5.773</i>    |                        | 4.04   |       | 2426    | (3254) | 3640    | (4881) | 4853       | (6508) |
| <b>LAF 4566</b> | <b>Continuous Duty</b> |        | 11100 | 600 rpm |        | 900 rpm |        | 1200 rpm * |        |
| <i>6.818</i>    |                        | 3.87   |       | 2321    | (3112) | 3481    | (4668) | 4642       | (6224) |
| <b>LAF 4575</b> | <b>Continuous Duty</b> |        | 13100 | 600 rpm |        | 900 rpm |        | 1200 rpm * |        |
| <i>6.120</i>    |                        | 5.21   |       | 3128    | (4195) | 4693    | (6293) | 6257       | (8390) |
| <i>7.476</i>    |                        | 4.32   |       | 2593    | (3477) | 3890    | (5216) | 5186       | (6955) |



## LAF 5600 series

|                 |                        | kW/rpm | kg    | kW      | (BHP)  | kW      | (BHP)  | kW         | (BHP)   |
|-----------------|------------------------|--------|-------|---------|--------|---------|--------|------------|---------|
| <b>LAF 5645</b> | <b>Continuous Duty</b> |        | 10600 | 600 rpm |        | 900 rpm |        | 1200 rpm * |         |
| <i>1.973</i>    |                        | 7.00   |       | 4200    | (5632) | 6300    | (8448) | 8400       | (11264) |
| <i>4.550</i>    |                        | 5.60   |       | 3359    | (4505) | 5039    | (6757) | 6719       | (9010)  |
| <b>LAF 5655</b> | <b>Continuous Duty</b> |        | 12200 | 600 rpm |        | 900 rpm |        | 1200 rpm * |         |
| <i>4.042</i>    |                        | 7.00   |       | 4200    | (5632) | 6300    | (8448) | 8400       | (11264) |
| <i>5.810</i>    |                        | 4.89   |       | 2937    | (3939) | 4406    | (5908) | 5874       | (7877)  |
| <b>LAF 5666</b> | <b>Continuous Duty</b> |        | 13800 | 600 rpm |        | 900 rpm |        | 1200 rpm * |         |
| <i>5.044</i>    |                        | 7.00   |       | 4198    | (5629) | 6296    | (8443) | 8395       | (11258) |
| <i>6.857</i>    |                        | 4.79   |       | 2875    | (3855) | 4312    | (5782) | 5749       | (7710)  |
| <b>LAF 5675</b> | <b>Continuous Duty</b> |        | 17000 | 600 rpm |        | 900 rpm |        | 1200 rpm * |         |
| <i>6.125</i>    |                        | 6.71   |       | 4026    | (5399) | 6039    | (8098) | 8052       | (10798) |
| <i>7.550</i>    |                        | 5.59   |       | 3353    | (4496) | 5029    | (6744) | 6706       | (8992)  |



## LAF 6700 series

|                 |                        | kW/rpm | kg    | kW      | (BHP)  | kW      | (BHP)   | kW         | (BHP)   |
|-----------------|------------------------|--------|-------|---------|--------|---------|---------|------------|---------|
| <b>LAF 6745</b> | <b>Continuous Duty</b> |        | 14000 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
| 2.028           |                        | 8.40   |       | 5040    | (6759) | 7560    | (10138) | 9660       | (12954) |
| 4.450           |                        | 6.57   |       | 3940    | (5284) | 5910    | (7926)  | 7552       | (10127) |
| <b>LAF 6755</b> | <b>Continuous Duty</b> |        | 16000 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
| 4.042           |                        | 8.40   |       | 5040    | (6759) | 7560    | (10138) | 9660       | (12954) |
| 5.762           |                        | 6.17   |       | 3703    | (4965) | 5554    | (7448)  | 7097       | (9517)  |
| <b>LAF 6766</b> | <b>Continuous Duty</b> |        | 17000 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
| 4.960           |                        | 8.18   |       | 4910    | (6585) | 7366    | (9877)  | 9412       | (12621) |
| 6.450           |                        | 6.54   |       | 3927    | (5266) | 5890    | (7899)  | 7527       | (10093) |



## LAF 7700 series

|                 |                        | kW/rpm | kg    | kW      | (BHP)  | kW      | (BHP)   | kW         | (BHP)   |
|-----------------|------------------------|--------|-------|---------|--------|---------|---------|------------|---------|
| <b>LAF 7740</b> | <b>Continuous Duty</b> |        | 16000 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
| 2.929           |                        | 11.00  |       | 6600    | (8851) | 9900    | (13276) | 12650      | (16964) |
| <b>LAF 7740</b> | <b>Continuous Duty</b> |        | 16000 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
| 4.409           |                        | 8.78   |       | 5267    | (7064) | 7901    | (10595) | 10096      | (13539) |
| <b>LAF 7750</b> | <b>Continuous Duty</b> |        | 17000 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
| 3.107           |                        | 11.00  |       | 6600    | (8851) | 9900    | (13276) | 12650      | (16964) |
| 5.304           |                        | 7.91   |       | 4746    | (6364) | 7119    | (9547)  | 9096       | (12198) |
| <b>LAF 7760</b> | <b>Continuous Duty</b> |        | 23500 | 600 rpm |        | 900 rpm |         | 1150 rpm * |         |
| 5.136           |                        | 10.85  |       | 6508    | (8727) | 9761    | (13090) | 12473      | (16726) |
| 6.476           |                        | 7.98   |       | 4787    | (6419) | 7180    | (9629)  | 9175       | (12303) |





## WLS 234 series

|                  |                      |              |       | kW/rpm | kg  | kW              | (BHP) | kW              | (BHP) | kW                | (BHP) |
|------------------|----------------------|--------------|-------|--------|-----|-----------------|-------|-----------------|-------|-------------------|-------|
| <b>WLS 234/1</b> | <b>Medium Duty</b>   |              |       |        | 295 | <b>1800 rpm</b> |       | <b>2100 rpm</b> |       | <b>2300 rpm *</b> |       |
| 1.179            | 1.500                | <b>2.036</b> |       | 0.26   |     | 468             | (628) | 546             | (732) | 598               | (802) |
| 2.542            |                      |              |       | 0.25   |     | 450             | (603) | 525             | (704) | 575               | (771) |
| 2.864            |                      |              |       | 0.24   |     | 432             | (579) | 504             | (676) | 552               | (740) |
| <b>WLS 234/1</b> | <b>Light Duty</b>    |              |       |        | 295 | <b>1800 rpm</b> |       | <b>2100 rpm</b> |       | <b>2300 rpm *</b> |       |
| 1.179            | 1.500                | <b>2.036</b> | 2.542 | 0.29   |     | 522             | (700) | 609             | (817) | 667               | (894) |
| 2.864            |                      |              |       | 0.26   |     | 466             | (625) | 544             | (729) | 596               | (799) |
| <b>WLS 234/1</b> | <b>Pleasure Duty</b> |              |       |        | 295 | <b>2100 rpm</b> |       | <b>2200 rpm</b> |       | <b>2300 rpm *</b> |       |
| 1.179            | 1.500                | <b>2.036</b> | 2.542 | 0.29   |     | 615             | (825) | 645             | (864) | 674               | (904) |
| 2.864            |                      |              |       | 0.26   |     | 544             | (729) | 570             | (764) | 596               | (799) |



## WLS 334 series

|                |                      |  |  | kW/rpm | kg  | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|----------------|----------------------|--|--|--------|-----|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>WLS 334</b> | <b>Medium Duty</b>   |  |  |        | 340 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| 1.122          | <b>1.485</b>         |  |  | 0.30   |     | 540             | (724)  | 630             | (845)  | 690               | (925)  |
| 2.037          |                      |  |  | 0.29   |     | 522             | (700)  | 609             | (817)  | 667               | (894)  |
| 2.407          | 2.538                |  |  | 0.28   |     | 504             | (676)  | 588             | (789)  | 644               | (864)  |
| 2.956          |                      |  |  | 0.27   |     | 486             | (652)  | 567             | (760)  | 621               | (833)  |
| 3.522          |                      |  |  | 0.26   |     | 468             | (628)  | 546             | (732)  | 598               | (802)  |
| <b>WLS 334</b> | <b>Light Duty</b>    |  |  |        | 340 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| 1.122          | <b>1.485</b>         |  |  | 0.36   |     | 648             | (869)  | 756             | (1014) | 828               | (1110) |
| 2.037          |                      |  |  | 0.35   |     | 630             | (845)  | 735             | (986)  | 805               | (1080) |
| 2.407          | 2.538                |  |  | 0.34   |     | 612             | (821)  | 714             | (957)  | 782               | (1049) |
| 2.956          |                      |  |  | 0.33   |     | 594             | (797)  | 693             | (929)  | 759               | (1018) |
| 3.522          |                      |  |  | 0.31   |     | 558             | (748)  | 651             | (873)  | 713               | (956)  |
| <b>WLS 334</b> | <b>Pleasure Duty</b> |  |  |        | 340 | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |
| 1.122          |                      |  |  | 0.47   |     | 987             | (1324) | 1034            | (1387) | 1081              | (1450) |
| <b>1.485</b>   | 2.037                |  |  | 0.46   |     | 966             | (1295) | 1012            | (1357) | 1058              | (1419) |
| 2.407          | 2.538                |  |  | 0.45   |     | 945             | (1267) | 990             | (1328) | 1035              | (1388) |
| 2.956          |                      |  |  | 0.38   |     | 802             | (1076) | 840             | (1127) | 879               | (1178) |



## WLS 334 series

|                |                      | kW/rpm | kg  | kW              | (BHP) | kW              | (BHP) | kW                | (BHP) |
|----------------|----------------------|--------|-----|-----------------|-------|-----------------|-------|-------------------|-------|
| <b>WLS 334</b> | <b>Pleasure Duty</b> |        | 340 | <b>2100 rpm</b> |       | <b>2200 rpm</b> |       | <b>2300 rpm *</b> |       |
| 3.522          |                      | 0.32   |     | 676             | (907) | 708             | (950) | 741               | (993) |



## WLS 430 series

|                  |                      | kW/rpm       | kg    | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |        |
|------------------|----------------------|--------------|-------|-----------------|--------|-----------------|--------|-------------------|--------|--------|
| <b>WLS 430/1</b> | <b>Medium Duty</b>   |              | 490   | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |        |
| <b>1.485</b>     |                      | 0.51         |       | 918             | (1231) | 1071            | (1436) | 1173              | (1573) |        |
| <b>2.037</b>     |                      | 0.50         |       | 900             | (1207) | 1050            | (1408) | 1150              | (1542) |        |
| <b>2.458</b>     |                      | 0.49         |       | 882             | (1183) | 1029            | (1380) | 1127              | (1511) |        |
| 2.773            |                      | 0.48         |       | 864             | (1159) | 1008            | (1352) | 1104              | (1480) |        |
| 2.905            |                      | 0.47         |       | 846             | (1134) | 987             | (1324) | 1081              | (1450) |        |
| 3.286            | 3.316                | 0.46         |       | 828             | (1110) | 966             | (1295) | 1058              | (1419) |        |
| 3.550            |                      | 0.43         |       | 774             | (1038) | 903             | (1211) | 989               | (1326) |        |
| <b>WLS 430/1</b> | <b>Light Duty</b>    |              | 490   | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |        |
| <b>1.485</b>     | <b>2.037</b>         | <b>2.458</b> |       | 1044            | (1400) | 1218            | (1633) | 1334              | (1789) |        |
| 2.773            |                      |              |       | 1026            | (1376) | 1197            | (1605) | 1311              | (1758) |        |
| 2.905            |                      |              |       | 1008            | (1352) | 1176            | (1577) | 1288              | (1727) |        |
| 3.286            |                      |              |       | 880             | (1180) | 1027            | (1377) | 1125              | (1508) |        |
| 3.316            |                      |              |       | 842             | (1130) | 983             | (1318) | 1076              | (1443) |        |
| 3.550            |                      |              |       | 774             | (1038) | 903             | (1211) | 989               | (1326) |        |
| <b>WLS 430/1</b> | <b>Pleasure Duty</b> |              | 490   | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |        |
| <b>1.485</b>     | <b>2.037</b>         | <b>2.458</b> | 2.773 |                 | 1260   | (1690)          | 1320   | (1770)            | 1380   | (1851) |
| 2.905            |                      |              |       |                 | 1176   | (1577)          | 1232   | (1652)            | 1288   | (1727) |
| 3.286            |                      |              |       |                 | 1027   | (1377)          | 1076   | (1443)            | 1125   | (1508) |
| 3.316            |                      |              |       |                 | 983    | (1318)          | 1030   | (1381)            | 1076   | (1443) |
| 3.550            |                      |              |       |                 | 903    | (1211)          | 946    | (1269)            | 989    | (1326) |



# WLS 730 series

|                                 |              |              |              | kW/rpm | kg  | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|---------------------------------|--------------|--------------|--------------|--------|-----|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>WLS 730/1L Medium Duty</b>   |              |              |              |        | 725 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.036</b>                    | <b>2.542</b> | <b>3.048</b> |              | 0.70   |     | 1260            | (1690) | 1470            | (1971) | 1610              | (2159) |
| <b>3.542</b>                    |              |              |              | 0.60   |     | 1080            | (1448) | 1260            | (1690) | 1380              | (1851) |
| <b>3.954</b>                    |              |              |              | 0.55   |     | 990             | (1328) | 1155            | (1549) | 1265              | (1696) |
| <b>WLS 730/1L Light Duty</b>    |              |              |              |        | 725 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.036</b>                    | <b>2.542</b> | <b>3.048</b> |              | 0.70   |     | 1260            | (1690) | 1470            | (1971) | 1610              | (2159) |
| <b>3.542</b>                    |              |              |              | 0.65   |     | 1170            | (1569) | 1365            | (1830) | 1495              | (2005) |
| <b>3.954</b>                    |              |              |              | 0.55   |     | 990             | (1328) | 1155            | (1549) | 1265              | (1696) |
| <b>WLS 730/1 Light Duty</b>     |              |              |              |        | 725 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.036</b>                    | <b>2.269</b> | <b>2.542</b> | <i>3.048</i> | 0.92   |     | 1656            | (2221) | 1932            | (2591) | 2116              | (2838) |
| <b>3.542</b>                    |              |              |              | 0.84   |     | 1510            | (2025) | 1762            | (2363) | 1930              | (2588) |
| <b>3.954</b>                    |              |              |              | 0.76   |     | 1373            | (1842) | 1602            | (2149) | 1755              | (2353) |
| <b>WLS 730/1L Pleasure Duty</b> |              |              |              |        | 725 | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.036</b>                    | <b>2.542</b> | <b>3.048</b> |              | 0.70   |     | 1470            | (1971) | 1540            | (2065) | 1610              | (2159) |
| <b>3.542</b>                    |              |              |              | 0.65   |     | 1365            | (1830) | 1430            | (1918) | 1495              | (2005) |
| <b>3.954</b>                    |              |              |              | 0.55   |     | 1155            | (1549) | 1210            | (1623) | 1265              | (1696) |
| <b>WLS 730/1 Pleasure Duty</b>  |              |              |              |        | 725 | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>2.036</b>                    | <b>2.269</b> | <b>2.542</b> | <i>3.048</i> | 0.95   |     | 1995            | (2675) | 2090            | (2803) | 2185              | (2930) |
| <b>3.542</b>                    |              |              |              | 0.84   |     | 1762            | (2363) | 1846            | (2475) | 1930              | (2588) |
| <b>3.954</b>                    |              |              |              | 0.76   |     | 1602            | (2149) | 1679            | (2251) | 1755              | (2353) |



# WLS 930 series

|                                 |              |       |       |       | kW/rpm | kg  | kW (BHP)        |        | kW (BHP)        |        | kW (BHP)          |        |
|---------------------------------|--------------|-------|-------|-------|--------|-----|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>WLS 930/1L Medium Duty</b>   |              |       |       |       |        | 950 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| 1.525                           | 2.032        | 2.482 |       |       | 1.00   |     | 1800            | (2414) | 2100            | (2816) | 2300              | (3084) |
| 3.044                           |              |       |       |       | 0.98   |     | 1764            | (2366) | 2058            | (2760) | 2254              | (3023) |
| 3.954                           |              |       |       |       | 0.75   |     | 1350            | (1810) | 1575            | (2112) | 1725              | (2313) |
| <b>WLS 930/1 Medium Duty</b>    |              |       |       |       |        | 950 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| 1.525                           | <b>1.730</b> | 2.032 |       |       | 1.20   |     | 2160            | (2897) | 2520            | (3379) | 2760              | (3701) |
| 2.482                           |              |       |       |       | 1.18   |     | 2124            | (2848) | 2478            | (3323) | 2714              | (3639) |
| 3.044                           |              |       |       |       | 1.13   |     | 2034            | (2728) | 2373            | (3182) | 2599              | (3485) |
| 3.954                           |              |       |       |       | 1.00   |     | 1802            | (2416) | 2102            | (2819) | 2302              | (3087) |
| <b>WLS 930/1L Light Duty</b>    |              |       |       |       |        | 950 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| 1.525                           | 2.032        | 2.482 | 3.044 |       | 1.00   |     | 1800            | (2414) | 2100            | (2816) | 2300              | (3084) |
| 3.954                           |              |       |       |       | 0.80   |     | 1440            | (1931) | 1680            | (2253) | 1840              | (2467) |
| <b>WLS 930/1 Light Duty</b>     |              |       |       |       |        | 950 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| 1.525                           | <b>1.730</b> | 2.032 | 2.482 | 3.044 | 1.28   |     | 2304            | (3090) | 2688            | (3605) | 2944              | (3948) |
| 3.954                           |              |       |       |       | 1.00   |     | 1802            | (2416) | 2102            | (2819) | 2302              | (3087) |
| <b>WLS 930/1L Pleasure Duty</b> |              |       |       |       |        | 950 | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |
| 1.525                           | 2.032        | 2.482 | 3.044 |       | 1.00   |     | 2100            | (2816) | 2200            | (2950) | 2300              | (3084) |
| 3.954                           |              |       |       |       | 0.80   |     | 1680            | (2253) | 1760            | (2360) | 1840              | (2467) |
| <b>WLS 930/1 Pleasure Duty</b>  |              |       |       |       |        | 950 | <b>2100 rpm</b> |        | <b>2200 rpm</b> |        | <b>2300 rpm *</b> |        |
| 1.525                           | <b>1.730</b> | 2.032 | 2.482 |       | 1.34   |     | 2814            | (3774) | 2948            | (3953) | 3082              | (4133) |
| 3.044                           |              |       |       |       | 1.32   |     | 2772            | (3717) | 2904            | (3894) | 3036              | (4071) |
| 3.954                           |              |       |       |       | 1.00   |     | 2102            | (2819) | 2202            | (2953) | 2302              | (3087) |



## WLS 1540 series

|          |             |       |       |  | kW/rpm | kg   | kW (BHP) |      | kW (BHP) |      | kW (BHP)   |  |
|----------|-------------|-------|-------|--|--------|------|----------|------|----------|------|------------|--|
| WLS 1540 | Medium Duty |       |       |  |        | 1450 | 1600 rpm |      | 1800 rpm |      | 2300 rpm * |  |
| 2.952    | 3.368       | 3.947 | 4.350 |  | 1.50   | 2400 | (3218)   | 2700 | (3621)   | 3450 | (4626)     |  |
| 4.632    |             |       |       |  | 1.46   | 2338 | (3135)   | 2630 | (3527)   | 3360 | (4506)     |  |
| WLS 1540 | Light Duty  |       |       |  |        | 1450 | 1800 rpm |      | 1950 rpm |      | 2300 rpm * |  |
| 2.952    | 3.368       | 3.947 | 4.350 |  | 1.50   | 2700 | (3621)   | 2925 | (3922)   | 3450 | (4626)     |  |
| 4.632    |             |       |       |  | 1.46   | 2630 | (3527)   | 2849 | (3820)   | 3360 | (4506)     |  |



## WLS 1930 series

|          |             |       |       |       | kW/rpm | kg   | kW (BHP) |      | kW (BHP) |      | kW (BHP)   |  |
|----------|-------------|-------|-------|-------|--------|------|----------|------|----------|------|------------|--|
| WLS 1930 | Medium Duty |       |       |       |        | 1550 | 1600 rpm |      | 1800 rpm |      | 2300 rpm * |  |
| 1.410    | 2.032       | 2.458 | 2.952 | 3.368 | 1.85   | 2960 | (3969)   | 3330 | (4466)   | 4255 | (5706)     |  |
| 3.864    |             |       |       |       | 1.48   | 2374 | (3184)   | 2671 | (3582)   | 3413 | (4577)     |  |
| WLS 1930 | Light Duty  |       |       |       |        | 1550 | 1800 rpm |      | 1950 rpm |      | 2300 rpm * |  |
| 1.410    | 2.032       | 2.458 | 2.952 | 3.368 | 1.85   | 3330 | (4466)   | 3608 | (4838)   | 4255 | (5706)     |  |
| 3.864    |             |       |       |       | 1.48   | 2671 | (3582)   | 2894 | (3881)   | 3413 | (4577)     |  |



## VLJ 430 series

|              |               |              |  |  | kW/rpm | kg   | kW (BHP) |      | kW (BHP) |      | kW (BHP)   |  |
|--------------|---------------|--------------|--|--|--------|------|----------|------|----------|------|------------|--|
| VLJ 430      | Medium Duty   |              |  |  |        | 360  | 1600 rpm |      | 1800 rpm |      | 2200 rpm * |  |
| <b>1.306</b> | <b>2.037</b>  | <b>2.458</b> |  |  | 0.52   | 832  | (1116)   | 936  | (1255)   | 1144 | (1534)     |  |
| <b>2.905</b> |               |              |  |  | 0.47   | 752  | (1008)   | 846  | (1134)   | 1034 | (1387)     |  |
| VLJ 430      | Light Duty    |              |  |  |        | 360  | 1800 rpm |      | 2100 rpm |      | 2300 rpm * |  |
| <b>1.306</b> | <b>2.037</b>  | <b>2.458</b> |  |  | 0.58   | 1044 | (1400)   | 1218 | (1633)   | 1334 | (1789)     |  |
| <b>2.905</b> |               |              |  |  | 0.56   | 1008 | (1352)   | 1176 | (1577)   | 1288 | (1727)     |  |
| VLJ 430      | Pleasure Duty |              |  |  |        | 360  | 1800 rpm |      | 2100 rpm |      | 2300 rpm * |  |
| <b>1.306</b> | <b>2.037</b>  | <b>2.458</b> |  |  | 0.60   | 1080 | (1448)   | 1260 | (1690)   | 1380 | (1851)     |  |
| <b>2.905</b> |               |              |  |  | 0.56   | 1008 | (1352)   | 1176 | (1577)   | 1288 | (1727)     |  |



## VLJ 730 series

|                                |       |              |              |              | kW/rpm | kg  | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|--------------------------------|-------|--------------|--------------|--------------|--------|-----|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>VLJ 730/1 Medium Duty</b>   |       |              |              |              |        | 560 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2200 rpm *</b> |        |
| 1.539                          | 2.036 | <b>2.269</b> | <b>2.542</b> |              | 0.75   |     | 1200            | (1609) | 1350            | (1810) | 1650              | (2213) |
| <b>3.048</b>                   |       |              |              |              | 0.71   |     | 1136            | (1523) | 1278            | (1714) | 1562              | (2095) |
| <b>VLJ 730/1 Light Duty</b>    |       |              |              |              |        | 560 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| 1.539                          | 2.036 | <b>2.269</b> | <b>2.542</b> |              | 0.92   |     | 1656            | (2221) | 1932            | (2591) | 2116              | (2838) |
| <b>3.048</b>                   |       |              |              |              | 0.84   |     | 1512            | (2028) | 1764            | (2366) | 1932              | (2591) |
| <b>VLJ 730/1 Pleasure Duty</b> |       |              |              |              |        | 560 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| 1.539                          | 2.036 | <b>2.269</b> | <b>2.542</b> | <b>3.048</b> | 0.95   |     | 1710            | (2293) | 1995            | (2675) | 2185              | (2930) |



## VLJ 930 series

|                                |              |              |              |              | kW/rpm | kg  | kW              | (BHP)  | kW              | (BHP)  | kW                | (BHP)  |
|--------------------------------|--------------|--------------|--------------|--------------|--------|-----|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>VLJ 930/1 Medium Duty</b>   |              |              |              |              |        | 740 | <b>1600 rpm</b> |        | <b>1800 rpm</b> |        | <b>2200 rpm *</b> |        |
| <b>1.186</b>                   | 1.525        | <b>1.725</b> | <b>1.806</b> | <b>1.849</b> | 1.10   |     | 1760            | (2360) | 1980            | (2655) | 2420              | (3245) |
| 2.032                          |              |              |              |              |        |     |                 |        |                 |        |                   |        |
| <b>2.357</b>                   | 2.482        |              |              |              | 1.05   |     | 1680            | (2253) | 1890            | (2534) | 2310              | (3098) |
| 3.044                          |              |              |              |              | 0.89   |     | 1424            | (1910) | 1602            | (2148) | 1958              | (2626) |
| <b>VLJ 930/1 Light Duty</b>    |              |              |              |              |        | 740 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>1.186</b>                   | 1.525        | <b>1.725</b> | <b>1.806</b> | <b>1.849</b> | 1.26   |     | 2268            | (3041) | 2646            | (3548) | 2898              | (3886) |
| 2.032                          |              |              |              |              |        |     |                 |        |                 |        |                   |        |
| <b>2.357</b>                   | 2.482        |              |              |              | 1.22   |     | 2196            | (2945) | 2562            | (3436) | 2806              | (3763) |
| 3.044                          |              |              |              |              | 1.05   |     | 1890            | (2534) | 2205            | (2957) | 2415              | (3239) |
| <b>VLJ 930/1 Pleasure Duty</b> |              |              |              |              |        | 740 | <b>1800 rpm</b> |        | <b>2100 rpm</b> |        | <b>2300 rpm *</b> |        |
| <b>1.186</b>                   | 1.525        | <b>1.725</b> | <b>1.806</b> | <b>1.849</b> | 1.29   |     | 2322            | (3114) | 2709            | (3633) | 2967              | (3979) |
| 2.032                          | <b>2.357</b> | 2.482        |              |              |        |     |                 |        |                 |        |                   |        |
| 3.044                          |              |              |              |              | 1.22   |     | 2196            | (2945) | 2562            | (3436) | 2806              | (3763) |



## VLJ 1930 series

>> standard engine operating up to 5000 hours/year

|                 |                      | kW/rpm | kg   | kW (BHP)        |        | kW (BHP)        |        | kW (BHP)          |        |
|-----------------|----------------------|--------|------|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>VLJ 1930</b> | <b>Medium Duty</b>   |        | 1150 | <b>1000 rpm</b> |        | <b>1200 rpm</b> |        | <b>1950 rpm *</b> |        |
| <i>1.410</i>    | <i>3.368</i>         | 1.85   |      | 1850            | (2481) | 2220            | (2977) | 3608              | (4838) |
| <b>VLJ 1930</b> | <b>Light Duty</b>    |        | 1150 | <b>1000 rpm</b> |        | <b>1200 rpm</b> |        | <b>1950 rpm *</b> |        |
| <i>1.410</i>    | <i>3.368</i>         | 1.85   |      | 1850            | (2481) | 2220            | (2977) | 3608              | (4838) |
| <b>VLJ 1930</b> | <b>Pleasure Duty</b> |        | 1150 | <b>1000 rpm</b> |        | <b>1200 rpm</b> |        | <b>1950 rpm *</b> |        |
| <i>1.410</i>    | <i>3.368</i>         | 1.85   |      | 1850            | (2481) | 2220            | (2977) | 3608              | (4838) |



## VLJ 2230 series

>> standard engine operating up to 5000 hours/year

|                 |                      | kW/rpm | kg   | kW (BHP)        |        | kW (BHP)        |        | kW (BHP)          |        |
|-----------------|----------------------|--------|------|-----------------|--------|-----------------|--------|-------------------|--------|
| <b>VLJ 2230</b> | <b>Medium Duty</b>   |        | 1600 | <b>1000 rpm</b> |        | <b>1200 rpm</b> |        | <b>1950 rpm *</b> |        |
| <i>1.513</i>    | <i>2.920</i>         | 2.35   |      | 2350            | (3151) | 2820            | (3782) | 4582              | (6145) |
| <b>VLJ 2230</b> | <b>Light Duty</b>    |        | 1600 | <b>1000 rpm</b> |        | <b>1200 rpm</b> |        | <b>1950 rpm *</b> |        |
| <i>1.513</i>    | <i>2.920</i>         | 2.45   |      | 2450            | (3285) | 2940            | (3943) | 4778              | (6407) |
| <b>VLJ 2230</b> | <b>Pleasure Duty</b> |        | 1600 | <b>1000 rpm</b> |        | <b>1200 rpm</b> |        | <b>1950 rpm *</b> |        |
| <i>1.513</i>    | <i>2.920</i>         | 2.51   |      | 2510            | (3366) | 3012            | (4039) | 4894              | (6564) |

|                 |                        | kW/rpm | kg   | kW      | (BHP)   | kW       | (BHP)   | kW         | (BHP)   |
|-----------------|------------------------|--------|------|---------|---------|----------|---------|------------|---------|
| <b>VLJ 4431</b> | <b>Continuous Duty</b> |        | 3600 | 900 rpm |         | 1100 rpm |         | 1200 rpm * |         |
| 1.552           |                        | 6.20   |      | 5580    | (7483)  | 6820     | (9146)  | 7440       | (9977)  |
| <b>VLJ 4431</b> | <b>Continuous Duty</b> |        | 3600 | 900 rpm |         | 1100 rpm |         | 1200 rpm * |         |
| 2.600           |                        | 4.85   |      | 4365    | (5853)  | 5335     | (7154)  | 5820       | (7805)  |
| <b>VLJ 6831</b> | <b>Continuous Duty</b> |        | 3900 | 900 rpm |         | 1100 rpm |         | 1200 rpm * |         |
| 1.405           |                        | 7.20   |      | 6480    | (8690)  | 7920     | (10621) | 8640       | (11586) |
| <b>VLJ 6841</b> | <b>Continuous Duty</b> |        | 4900 | 900 rpm |         | 1100 rpm |         | 1200 rpm * |         |
| 2.097           |                        | 7.20   |      | 6480    | (8690)  | 7920     | (10621) | 8640       | (11586) |
| 2.840           |                        | 7.00   |      | 6300    | (8448)  | 7700     | (10326) | 8400       | (11264) |
| <b>VLJ 7531</b> | <b>Continuous Duty</b> |        | 4300 | 900 rpm |         | 1100 rpm |         | 1200 rpm * |         |
| 1.541           |                        | 8.20   |      | 7380    | (9897)  | 9020     | (12096) | 9840       | (13195) |
| 2.133           |                        | 8.00   |      | 7200    | (9655)  | 8800     | (11801) | 9600       | (12874) |
| <b>VLJ 7541</b> | <b>Continuous Duty</b> |        | 4850 | 900 rpm |         | 1100 rpm |         | 1200 rpm * |         |
| 1.486           | 2.067                  | 9.20   |      | 8280    | (11103) | 10120    | (13571) | 11040      | (14805) |





## VA 2400 – 2700 series

|                |                        | kW/rpm | kg   | kW      | (BHP)  | kW      | (BHP)  | kW         | (BHP)   |
|----------------|------------------------|--------|------|---------|--------|---------|--------|------------|---------|
| <b>VA 2451</b> | <b>Continuous Duty</b> |        | 5100 | 750 rpm |        | 900 rpm |        | 1200 rpm * |         |
| <i>3.179</i>   |                        | 4.14   |      | 3105    | (4164) | 3726    | (4997) | 4968       | (6662)  |
| <i>5.450</i>   |                        | 2.44   |      | 1830    | (2454) | 2196    | (2945) | 2928       | (3926)  |
| <b>VA 2741</b> | <b>Continuous Duty</b> |        | 5500 | 750 rpm |        | 900 rpm |        | 1200 rpm * |         |
| <i>1.500</i>   |                        | 7.40   |      | 5550    | (7443) | 6660    | (8931) | 8880       | (11908) |
| <i>3.944</i>   |                        | 3.80   |      | 2850    | (3822) | 3420    | (4586) | 4560       | (6115)  |



## VA 3400 – 3500 series

|                |                        | kW/rpm | kg    | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|----------------|------------------------|--------|-------|---------|---------|---------|---------|------------|---------|
| <b>VA 3451</b> | <b>Continuous Duty</b> |        | 8700  | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
| <i>4.095</i>   |                        | 5.50   |       | 4125    | (5532)  | 4950    | (6638)  | 6600       | (8851)  |
| <i>5.273</i>   |                        | 4.06   |       | 3047    | (4086)  | 3657    | (4904)  | 4876       | (6538)  |
| <b>VA 3462</b> | <b>Continuous Duty</b> |        | 10200 | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
| <i>5.286</i>   |                        | 5.00   |       | 3750    | (5029)  | 4500    | (6034)  | 6000       | (8046)  |
| <i>5.905</i>   |                        | 4.45   |       | 3338    | (4476)  | 4005    | (5371)  | 5340       | (7161)  |
| <b>VA 3541</b> | <b>Continuous Duty</b> |        | 7600  | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
| <i>1.514</i>   |                        | 10.10  |       | 7575    | (10158) | 9090    | (12190) | 12120      | (16253) |
| <i>4.050</i>   |                        | 5.26   |       | 3945    | (5290)  | 4734    | (6348)  | 6312       | (8464)  |



## VA 4800 – 4900 series

|                |                        | kW/rpm | kg    | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|----------------|------------------------|--------|-------|---------|---------|---------|---------|------------|---------|
| <b>VA 4851</b> | <b>Continuous Duty</b> |        | 12000 | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
| 3.818          |                        | 8.40   |       | 6300    | (8448)  | 7560    | (10138) | 10080      | (13517) |
| 4.809          |                        | 6.90   |       | 5175    | (6940)  | 6210    | (8328)  | 8280       | (11103) |
| <b>VA 4855</b> | <b>Continuous Duty</b> |        | 12500 | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
| 3.542          |                        | 10.97  |       | 8228    | (11033) | 9873    | (13240) | 13164      | (17653) |
| 5.048          |                        | 8.11   |       | 6082    | (8157)  | 7299    | (9788)  | 9732       | (13051) |
| <b>VA 4945</b> | <b>Continuous Duty</b> |        | 10800 | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
| 1.512          |                        | 10.14  |       | 7605    | (10198) | 9126    | (12238) | 12168      | (16317) |
| <b>VA 4945</b> | <b>Continuous Duty</b> |        | 10800 | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
| 3.905          |                        | 7.07   |       | 5302    | (7111)  | 6363    | (8533)  | 8484       | (11377) |
| <b>VA 4941</b> | <b>Continuous Duty</b> |        | 9500  | 750 rpm |         | 900 rpm |         | 1200 rpm * |         |
| 2.276          |                        | 10.67  |       | 8002    | (10731) | 9603    | (12878) | 12804      | (17170) |
| 4.053          |                        | 7.07   |       | 5302    | (7111)  | 6363    | (8533)  | 8484       | (11377) |



# SVA 600 – 900 series

|                   |                        | kW/rpm | kg    | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|-------------------|------------------------|--------|-------|---------|---------|---------|---------|------------|---------|
| <b>SVA 630B</b>   | <b>Continuous Duty</b> |        | -     | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 2.483             |                        | 5.70   |       | 3420    | (4586)  | 4275    | (5733)  | 5700       | (7644)  |
| 3.810             |                        | 4.20   |       | 2520    | (3379)  | 3150    | (4224)  | 4200       | (5632)  |
| <b>SVA 630A</b>   | <b>Continuous Duty</b> |        | -     | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.083             |                        | 3.20   |       | 1920    | (2575)  | 2400    | (3218)  | 3200       | (4291)  |
| 5.181             |                        | 2.00   |       | 1200    | (1609)  | 1500    | (2012)  | 2000       | (2682)  |
| <b>SVA 750B</b>   | <b>Continuous Duty</b> |        | 12000 | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 3.148             |                        | 7.70   |       | 4620    | (6195)  | 5775    | (7744)  | 7700       | (10326) |
| <b>SVA 800B</b>   | <b>Continuous Duty</b> |        | 13200 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 2.031             |                        | 12.90  |       | 6450    | (8649)  | 9675    | (12974) | 12900      | (17299) |
| 3.905             |                        | 8.00   |       | 4000    | (5364)  | 6000    | (8046)  | 8000       | (10728) |
| <b>SVA 800A</b>   | <b>Continuous Duty</b> |        | 13200 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.550             |                        | 5.80   |       | 2900    | (3889)  | 4350    | (5833)  | 5800       | (7778)  |
| <b>SVA 800-6B</b> | <b>Continuous Duty</b> |        | -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.875             |                        | 4.40   |       | 2200    | (2950)  | 3300    | (4425)  | 4400       | (5900)  |
| 5.409             |                        | 4.00   |       | 2000    | (2682)  | 3000    | (4023)  | 4000       | (5364)  |
| <b>SVA 800-6A</b> | <b>Continuous Duty</b> |        | -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 5.762             |                        | 3.00   |       | 1500    | (2012)  | 2250    | (3017)  | 3000       | (4023)  |
| <b>SVA 850B</b>   | <b>Continuous Duty</b> |        | 16000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 1.973             |                        | 18.30  |       | 9150    | (12270) | 13725   | (18405) | 18300      | (24540) |
| 3.783             |                        | 12.00  |       | 6000    | (8046)  | 9000    | (12069) | 12000      | (16092) |
| <b>SVA 850A</b>   | <b>Continuous Duty</b> |        | 16000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 3.917             |                        | 8.60   |       | 4300    | (5766)  | 6450    | (8649)  | 8600       | (11533) |
| 4.364             |                        | 7.90   |       | 3950    | (5297)  | 5925    | (7945)  | 7900       | (10594) |
| <b>SVA 850-6B</b> | <b>Continuous Duty</b> |        | -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.900             |                        | 4.90   |       | 2450    | (3285)  | 3675    | (4928)  | 4900       | (6571)  |
| 5.571             |                        | 4.40   |       | 2200    | (2950)  | 3300    | (4425)  | 4400       | (5900)  |
| <b>SVA 900B</b>   | <b>Continuous Duty</b> |        | 17000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 2.028             |                        | 19.00  |       | 9500    | (12740) | 14250   | (19109) | 19000      | (25479) |
| 3.955             |                        | 12.00  |       | 6000    | (8046)  | 9000    | (12069) | 12000      | (16092) |
| <b>SVA 900A</b>   | <b>Continuous Duty</b> |        | 17000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.208             |                        | 8.60   |       | 4300    | (5766)  | 6450    | (8649)  | 8600       | (11533) |



## SVA 900 – 950 series

|                   |                        | kW/rpm | kg    | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|-------------------|------------------------|--------|-------|---------|---------|---------|---------|------------|---------|
| <b>SVA 900A</b>   | <b>Continuous Duty</b> |        | 17000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.682             |                        | 7.90   |       | 3950    | (5297)  | 5925    | (7945)  | 7900       | (10594) |
| <b>SVA 900-6A</b> | <b>Continuous Duty</b> |        | -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.826             |                        | 6.45   |       | 3225    | (4325)  | 4838    | (6487)  | 6450       | (8649)  |
| 5.381             |                        | 5.90   |       | 2950    | (3956)  | 4425    | (5934)  | 5900       | (7912)  |
| <b>SVA 950B</b>   | <b>Continuous Duty</b> |        | 18800 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 2.594             |                        | 22.00  |       | 11000   | (14751) | 16500   | (22126) | 22000      | (29502) |
| 3.792             |                        | 16.00  |       | 8000    | (10728) | 12000   | (16092) | 16000      | (21456) |
| <b>SVA 950A</b>   | <b>Continuous Duty</b> |        | 18800 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 3.920             |                        | 13.20  |       | 6600    | (8851)  | 9900    | (13276) | 13200      | (17701) |
| 4.348             |                        | 11.60  |       | 5800    | (7778)  | 8700    | (11667) | 11600      | (15556) |
| <b>SVA 950-6B</b> | <b>Continuous Duty</b> |        | -     | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.591             |                        | 8.80   |       | 5280    | (7080)  | 6600    | (8851)  | 8800       | (11801) |
| 4.857             |                        | 8.40   |       | 5040    | (6759)  | 6300    | (8448)  | 8400       | (11264) |
| <b>SVA 950-6A</b> | <b>Continuous Duty</b> |        | -     | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 5.150             |                        | 6.40   |       | 3840    | (5149)  | 4800    | (6437)  | 6400       | (8582)  |
| 5.762             |                        | 5.90   |       | 3540    | (4747)  | 4425    | (5934)  | 5900       | (7912)  |



## SVA 1000 series

|                  |                        | kW/rpm | kg    | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|------------------|------------------------|--------|-------|---------|---------|---------|---------|------------|---------|
| <b>SVA 1000B</b> | <b>Continuous Duty</b> |        | 19500 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 1.972            |                        | 26.50  |       | 13250   | (17768) | 19875   | (26652) | 26500      | (35536) |
| 4.042            |                        | 16.10  |       | 8050    | (10795) | 12075   | (16193) | 16100      | (21590) |
| <b>SVA 1000A</b> | <b>Continuous Duty</b> |        | 19500 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.500            |                        | 11.30  |       | 5650    | (7577)  | 8475    | (11365) | 11300      | (15153) |
| 4.750            |                        | 10.90  |       | 5450    | (7308)  | 8175    | (10963) | 10900      | (14617) |
| <b>SVA 1050B</b> | <b>Continuous Duty</b> |        | 21000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 2.054            |                        | 27.50  |       | 13750   | (18439) | 20625   | (27658) | 27500      | (36878) |
| 4.136            |                        | 16.60  |       | 8300    | (11130) | 12450   | (16695) | 16600      | (22261) |



# SVA 1000 – 1200 series

|                    |                        | kW/rpm | kg    | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|--------------------|------------------------|--------|-------|---------|---------|---------|---------|------------|---------|
| <b>SVA 1050A</b>   | <b>Continuous Duty</b> |        | 21000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.381              |                        | 12.50  |       | 6250    | (8381)  | 9375    | (12572) | 12500      | (16762) |
| 4.773              |                        | 11.50  |       | 5750    | (7711)  | 8625    | (11566) | 11500      | (15422) |
| <b>SVA 1050-6B</b> | <b>Continuous Duty</b> |        | -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 5.048              |                        | 8.80   |       | 4400    | (5900)  | 6600    | (8851)  | 8800       | (11801) |
| 5.636              |                        | 8.00   |       | 4000    | (5364)  | 6000    | (8046)  | 8000       | (10728) |
| <b>SVA 1050-6A</b> | <b>Continuous Duty</b> |        | -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 5.952              |                        | 6.20   |       | 3100    | (4157)  | 4650    | (6236)  | 6200       | (8314)  |
| 6.136              |                        | 6.03   |       | 3015    | (4043)  | 4522    | (6065)  | 6030       | (8086)  |
| <b>SVA 1120B</b>   | <b>Continuous Duty</b> |        | 22500 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 2.025              |                        | 38.10  |       | 19050   | (25546) | 28575   | (38319) | 38100      | (51092) |
| 4.455              |                        | 16.60  |       | 8300    | (11130) | 12450   | (16695) | 16600      | (22261) |
| <b>SVA 1120A</b>   | <b>Continuous Duty</b> |        | 22500 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.800              |                        | 12.30  |       | 6150    | (8247)  | 9225    | (12371) | 12300      | (16494) |
| 5.304              |                        | 10.30  |       | 5150    | (6906)  | 7725    | (10359) | 10300      | (13812) |
| <b>SVA 1200B</b>   | <b>Continuous Duty</b> |        | 31000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 2.023              |                        | 44.00  |       | 22000   | (29502) | 33000   | (44253) | 44000      | (59004) |
| 4.417              |                        | 24.25  |       | 12126   | (16262) | 18190   | (24392) | 24253      | (32523) |
| <b>SVA 1200A</b>   | <b>Continuous Duty</b> |        | 31000 | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 4.864              |                        | 17.50  |       | 8750    | (11734) | 13125   | (17601) | 17500      | (23468) |
| 5.083              |                        | 16.90  |       | 8450    | (11331) | 12675   | (16997) | 16900      | (22663) |
| <b>SVA 1200-6B</b> | <b>Continuous Duty</b> |        | -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 5.348              |                        | 12.40  |       | 6200    | (8314)  | 9300    | (12471) | 12400      | (16628) |
| 5.783              |                        | 11.50  |       | 5750    | (7711)  | 8625    | (11566) | 11500      | (15422) |
| <b>SVA 1200-6A</b> | <b>Continuous Duty</b> |        | -     | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| 6.091              |                        | 8.80   |       | 4400    | (5900)  | 6600    | (8851)  | 8800       | (11801) |
| 6.429              |                        | 8.40   |       | 4200    | (5632)  | 6300    | (8448)  | 8400       | (11264) |



## SVAL 800 –900 series

|                                    | kW/rpm | kg | kW      | (BHP)  | kW      | (BHP)   | kW         | (BHP)   |
|------------------------------------|--------|----|---------|--------|---------|---------|------------|---------|
| <b>SVAL 850-88 Continuous Duty</b> |        | -  | 500 rpm |        | 750 rpm |         | 1000 rpm * |         |
| <i>1.973</i>                       | 14.50  |    | 7250    | (9722) | 10875   | (14583) | 14500      | (19444) |
| <i>3.783</i>                       | 9.87   |    | 4935    | (6618) | 7402    | (9927)  | 9870       | (13236) |
| <b>SVAL 850-88 Continuous Duty</b> |        | -  | 500 rpm |        | 750 rpm |         | 1000 rpm * |         |
| <i>3.917</i>                       | 8.50   |    | 4250    | (5699) | 6375    | (8549)  | 8500       | (11398) |
| <b>SVAL 950-66 Continuous Duty</b> |        | -  | 600 rpm |        | 750 rpm |         | 1000 rpm * |         |
| <i>3.423</i>                       | 8.40   |    | 5040    | (6759) | 6300    | (8448)  | 8400       | (11264) |
| <i>4.917</i>                       | 6.95   |    | 4172    | (5595) | 5216    | (6994)  | 6954       | (9325)  |
| <b>SVAL 950-66 Continuous Duty</b> |        | -  | 600 rpm |        | 750 rpm |         | 1000 rpm * |         |
| <i>5.150</i>                       | 6.10   |    | 3660    | (4908) | 4575    | (6135)  | 6100       | (8180)  |
| <i>5.762</i>                       | 5.50   |    | 3300    | (4425) | 4125    | (5532)  | 5500       | (7376)  |



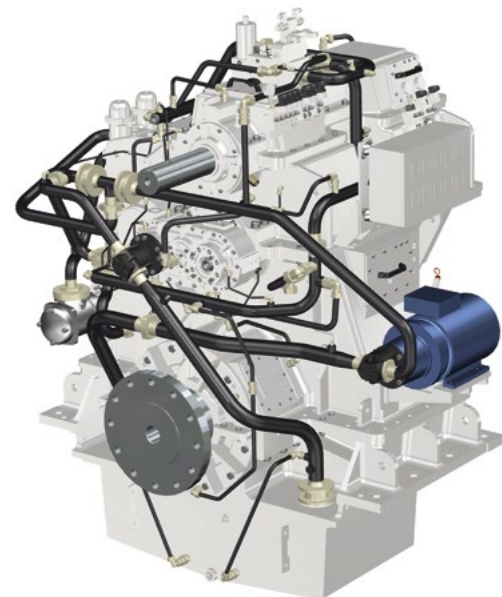
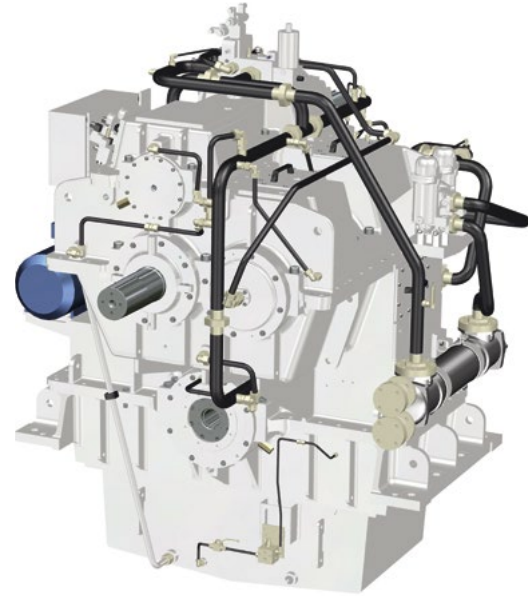
# SVAL 1000 – 1200 series

|                                     |              | kW/rpm | kg | kW      | (BHP)   | kW      | (BHP)   | kW         | (BHP)   |
|-------------------------------------|--------------|--------|----|---------|---------|---------|---------|------------|---------|
| <b>SVAL 1120-99 Continuous Duty</b> |              |        | -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| <i>3.033</i>                        | <i>4.042</i> | 19.00  |    | 9500    | (12740) | 14250   | (19109) | 19000      | (25479) |
| <b>SVAL 1120-99 Continuous Duty</b> |              |        | -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| <i>4.217</i>                        |              | 16.40  |    | 8200    | (10996) | 12300   | (16494) | 16400      | (21992) |
| <i>4.455</i>                        |              | 15.70  |    | 7850    | (10527) | 11775   | (15790) | 15700      | (21054) |
| <b>SVAL 1120-88 Continuous Duty</b> |              |        | -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| <i>3.033</i>                        |              | 14.50  |    | 7250    | (9722)  | 10875   | (14583) | 14500      | (19444) |
| <i>4.455</i>                        |              | 14.00  |    | 7000    | (9387)  | 10500   | (14080) | 14000      | (18774) |
| <b>SVAL 1120-88 Continuous Duty</b> |              |        | -  | 500 rpm |         | 750 rpm |         | 1000 rpm * |         |
| <i>4.800</i>                        |              | 12.30  |    | 6150    | (8247)  | 9225    | (12371) | 12300      | (16494) |
| <i>5.304</i>                        |              | 10.60  |    | 5300    | (7107)  | 7950    | (10661) | 10600      | (14215) |
| <b>SVAL 1200-66 Continuous Duty</b> |              |        | -  | 600 rpm |         | 750 rpm |         | 1000 rpm * |         |
| <i>5.083</i>                        |              | 8.40   |    | 5040    | (6759)  | 6300    | (8448)  | 8400       | (11264) |
| <i>6.429</i>                        |              | 7.80   |    | 4680    | (6276)  | 5850    | (7845)  | 7800       | (10460) |
| <b>SVAL 1250-11 Continuous Duty</b> |              |        | -  | 500 rpm |         | 750 rpm |         | 900 rpm *  |         |
| <i>1.973</i>                        |              | 26.00  |    | 13000   | (17433) | 19500   | (26150) | 23400      | (31379) |
| <i>4.238</i>                        |              | 23.40  |    | 11700   | (15690) | 17550   | (23535) | 21060      | (28241) |

Two-speed reduction gearbox with slide bearings and clutch

- CPP application
- Customised ratios
- Vertical / Horizontal offset
- Optimised for all relevant PTO/PTI applications

|                       | $i_1$ | $i_2$ | p/n [-] | Weight [kg] |
|-----------------------|-------|-------|---------|-------------|
| ZSVAL 675-22          | 4.100 | 5.424 | 1.12    | tbd         |
| ZSVAL 750-22          | 5.348 | 7.273 | 2.91    | tbd         |
| ZSVAL 865-22          | 6.591 | 8.212 | 2.16    | 15000       |
| ZSVAL 950-77<br>HL/HR | 3.731 | 5.330 | 6.96    | 26000       |
| ZSVAL 1000-55         | 5.522 | 6.561 | 6.36    | tbd         |
| ZSVAL 1060-77         | 4.609 | 6.857 | 8.33    | tbd         |
| ZSVAL 1120-99         | 4.762 | 5.930 | 15.20   | 26000       |
| ZSVAL 1200-88         | 4.179 | 5.419 | 13.42   | tbd         |
| ZSVAL 1250-110        | 3.880 | 5.160 | 28.02   | tbd         |



Project specific gearbox – available on request only!



# DLG/DUG series

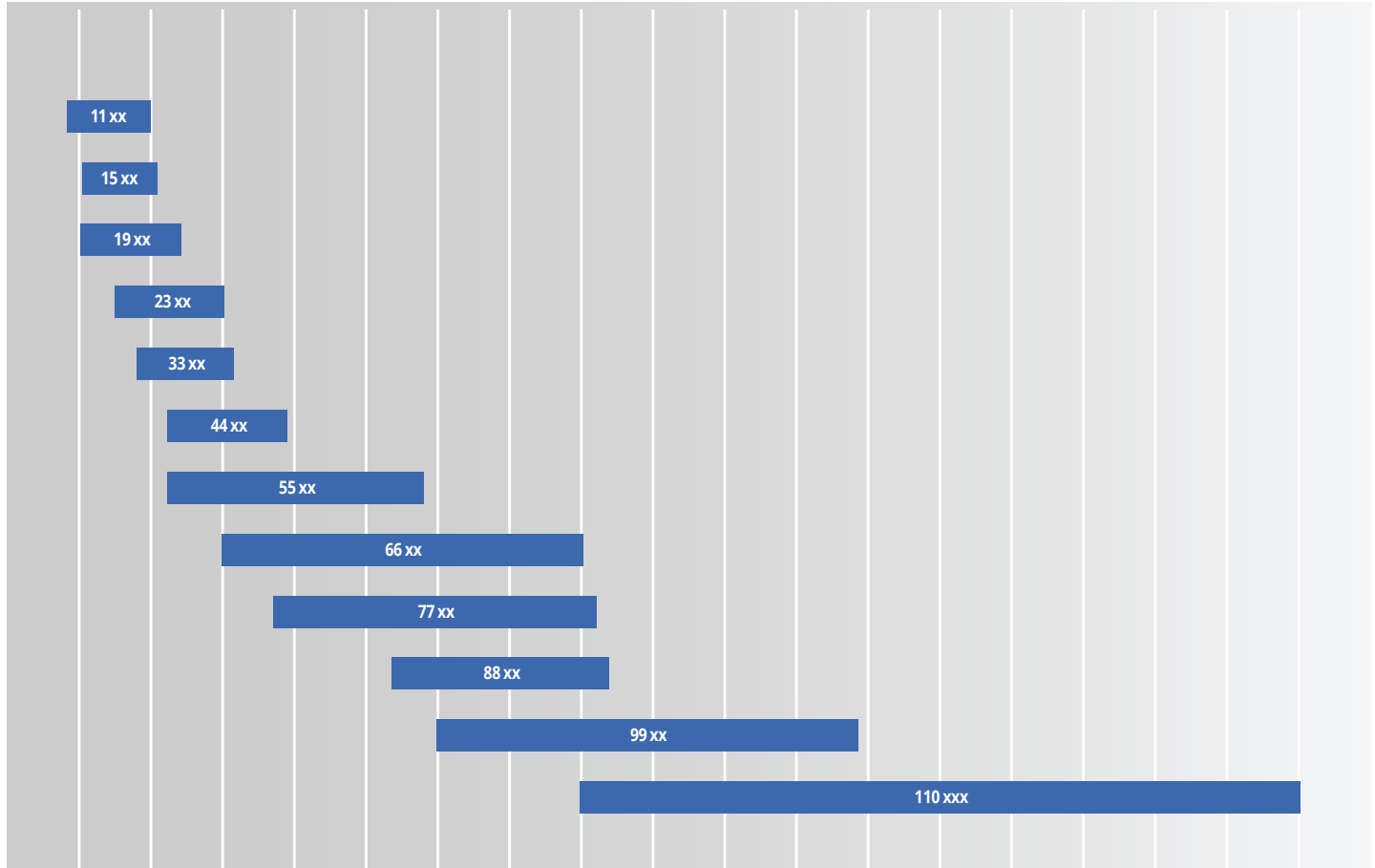
DLG: Twin input / single output reduction gearbox **with** clutch

DUG: Twin input / single output reduction gearbox **without** clutch

- Customised ratios
- Horizontal offset / Diagonal offset
- Optional PTO/PTI
- Project specific gearbox - available on request only!

- Gearbox designation e. g. DLG 19xx:  
19 = size of clutch,  
xx = variations of output shaft- sizes  
according to output torque (13, 16, 31, ...131)

| kW  | 1.500 | 2.200 | 3.000 | 3.800 | 4.600 | 5.400 | 6.200 | 7.000 | 7.800  | 8.600  | 9.400  | 10.200 | 11.000 | 11.800 | 12.600 | 13.400 | 14.200 | 15000  |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| BHP | 2.011 | 2.948 | 4.020 | 5092  | 6.164 | 7.236 | 8.308 | 9.380 | 10.452 | 11.524 | 12.596 | 13.668 | 14.740 | 15.812 | 16.884 | 17.956 | 19.028 | 20.100 |



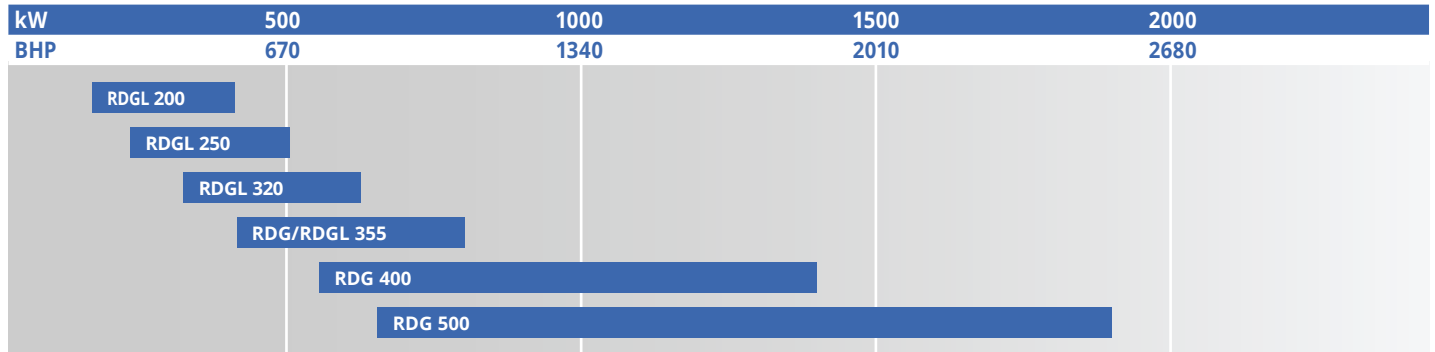


# RDG/RDGL series

## Engine Power

- Reduction gearbox with roller bearing for dredging application
- With or without clutch
- Vertically offset
- High operating reliability

With (RDGL) or without clutch (RDG)

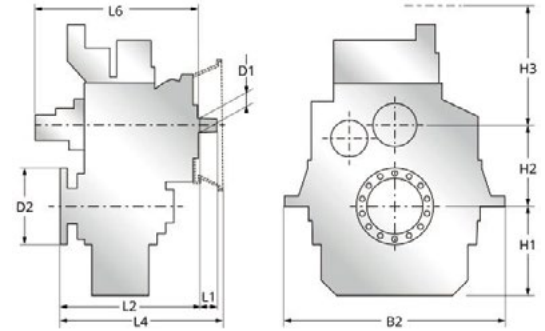


# Main Dimensions

## WF

Small reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset
- Optional SAE housing

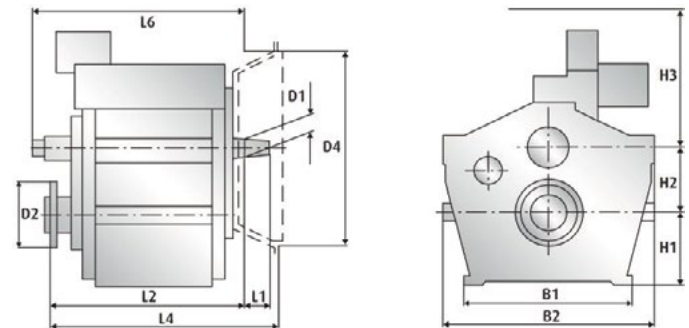


| Size       | B1  | B2   | H1  | H2  | H3  | H4 | D1 | D2  | L1 | L2  | SAE 1 | SAE 0 | SAE 00 | L6  | Oil l | Weight kg |
|------------|-----|------|-----|-----|-----|----|----|-----|----|-----|-------|-------|--------|-----|-------|-----------|
|            |     |      |     |     |     |    |    |     |    |     | L4    | L4    | L4     |     |       |           |
| <b>350</b> | 490 | 910  | 365 | 282 | 528 | -  | 60 | 285 | 69 | 601 | 670   | 670   | -      | 790 | 30    | 670       |
| <b>370</b> | 490 | 930  | 380 | 346 | 524 | -  | 60 | 325 | 69 | 587 | 656   | 656   | -      | 800 | 25    | 730       |
| <b>380</b> | 586 | 1216 | 470 | 418 | 542 | -  | 60 | 345 | 69 | 639 | 708   | 708   | -      | 790 | 28    | 1180      |
| <b>450</b> | 404 | 1096 | 413 | 310 | 550 | -  | 70 | 325 | 80 | 634 | -     | 755   | 771    | 865 | 30    | 830       |
| <b>470</b> | 404 | 1096 | 423 | 380 | 550 | -  | 70 | 345 | 80 | 697 | -     | 818   | 834    | 681 | 30    | 1100      |
| <b>480</b> | 716 | 1286 | 520 | 460 | 549 | -  | 70 | 420 | 80 | 713 | -     | 834   | 850    | 815 | 30    | 1500      |
| <b>550</b> | 654 | 924  | 440 | 339 | 571 | -  | 75 | 345 | 97 | 755 | -     | 874   | 890    | 985 | 40    | 1200      |
| <b>570</b> | 784 | 1188 | 385 | 415 | 575 | -  | 75 | 420 | 97 | 768 | -     | 887   | 903    | 985 | 40    | 1450      |
| <b>580</b> | 790 | 1358 | 540 | 500 | 575 | -  | 75 | 420 | 97 | 773 | -     | 892   | 908    | 985 | 50    | 1850      |

## WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset
- Optional SAE housing



| Size       | B1  | B2  | H1  | H2  | H3  | H4 | D1 | D2  | L1 | L2  | SAE 1 | SAE 0 | SAE 00 | L6  | Oil l | Weight kg |
|------------|-----|-----|-----|-----|-----|----|----|-----|----|-----|-------|-------|--------|-----|-------|-----------|
|            |     |     |     |     |     |    |    |     |    |     | L4    | L4    | L4     |     |       |           |
| <b>164</b> | 505 | 660 | 315 | 290 | 370 | -  | 55 | 285 | 70 | 595 | 658   | 658   | -      | 685 | 26    | 525       |
| <b>244</b> | 530 | 640 | 240 | 215 | 355 | -  | 55 | 240 | 70 | 560 | 627   | 627   | -      | 685 | 20    | 455       |

All dimensions, weights and oil quantities are not binding and may differ in custom executions.

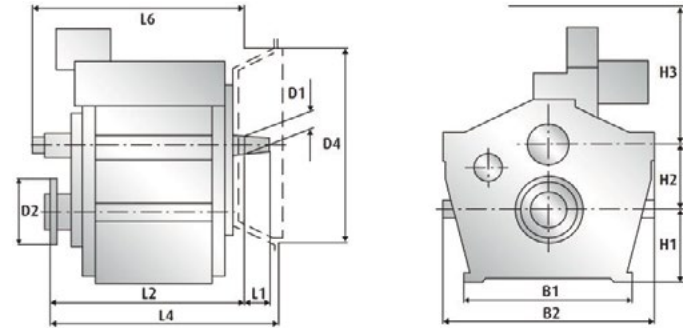
# Main Dimensions

## WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset
- Optional SAE housing

table continued

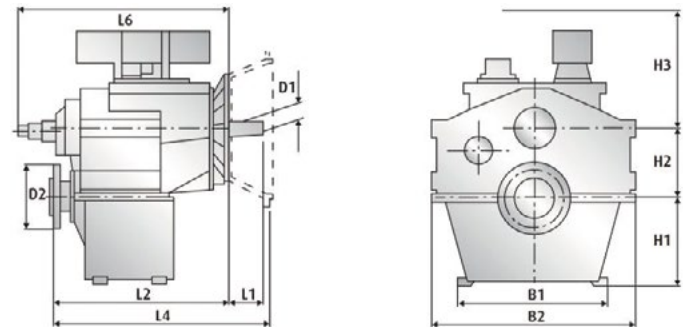


| Size       | B1  | B2  | H1  | H2  | H3  | H4 | D1 | D2  | L1 | L2  | SAE 1 | SAE 0 | SAE 00 | L6  | Oil<br>l | Weight<br>kg |
|------------|-----|-----|-----|-----|-----|----|----|-----|----|-----|-------|-------|--------|-----|----------|--------------|
|            |     |     |     |     |     |    |    |     |    |     | L4    | L4    | L4     |     |          |              |
| <b>264</b> | 540 | 670 | 345 | 315 | 365 | -  | 55 | 285 | 70 | 595 | 658   | 658   | -      | 685 | 28       | 700          |
| <b>274</b> | 700 | 830 | 420 | 380 | 365 | -  | 55 | 325 | 70 | 600 | 666   | 666   | -      | 690 | 30       | 725          |
| <b>344</b> | 570 | 720 | 265 | 250 | 395 | -  | 60 | 285 | 80 | 645 | 750   | 750   | -      | 740 | 30       | 730          |
| <b>364</b> | 580 | 750 | 380 | 345 | 415 | -  | 60 | 325 | 80 | 665 | 773   | 773   | -      | 755 | 38       | 810          |
| <b>374</b> | 800 | 930 | 460 | 410 | 430 | -  | 60 | 325 | 80 | 670 | 773   | 773   | -      | 860 | 60       | 1200         |
| <b>444</b> | 495 | 740 | 285 | 270 | 505 | -  | 75 | 300 | 97 | 720 | 820   | 820   | -      | 810 | 30       | 760          |
| <b>464</b> | 575 | 800 | 400 | 375 | 510 | -  | 75 | 325 | 97 | 725 | 822   | 822   | -      | 810 | 42       | 940          |

## WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset
- Optional SAE housing



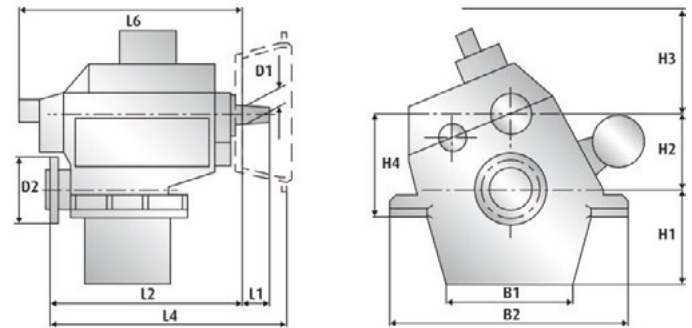
| Size       | B1  | B2  | H1  | H2  | H3  | H4 | D1 | D2  | L1 | L2  | SAE 1 | SAE 0 | SAE 00 | L6   | Oil<br>l | Weight<br>kg |
|------------|-----|-----|-----|-----|-----|----|----|-----|----|-----|-------|-------|--------|------|----------|--------------|
|            |     |     |     |     |     |    |    |     |    |     | L4    | L4    | L4     |      |          |              |
| <b>543</b> | 530 | 840 | 380 | 310 | 540 | -  | 75 | 325 | 97 | 775 | -     | 895   | 911    | 935  | 43       | 1040         |
| <b>563</b> | 570 | 920 | 475 | 410 | 550 | -  | 75 | 350 | 97 | 820 | -     | 941   | 957    | 1060 | 50       | 1445         |

# Main Dimensions

## WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset
- Optional SAE housing

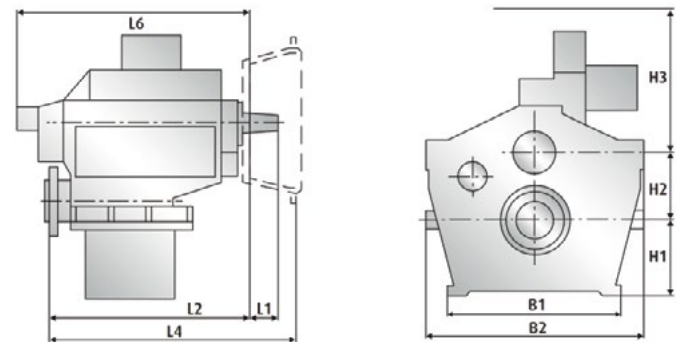


| Size       | B1  | B2   | H1  | H2  | H3  | H4  | D1 | D2  | L1  | L2  | SAE 1<br>L4 | SAE 0<br>L4 | SAE 00<br>L4 | L6   | Oil<br>l | Weight<br>kg |
|------------|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-------------|-------------|--------------|------|----------|--------------|
| <b>474</b> | 760 | 1310 | 510 | 460 | 330 | 600 | 75 | 350 | 97  | 745 | -           | 844         | -            | 810  | 54       | 1830         |
| <b>573</b> | 690 | 1360 | 575 | 505 | 500 | 645 | 75 | 375 | 97  | 835 | -           | 955         | 971          | 980  | 65       | 2365         |
| <b>665</b> | 430 | 1160 | 490 | 430 | 540 | 560 | 85 | 420 | 101 | 881 | -           | 1042        | 1042         | 1200 | 65       | 1950         |
| <b>675</b> | 650 | 1480 | 610 | 550 | 540 | 680 | 85 | 420 | 101 | 892 | -           | 1053        | 1053         | 1200 | 90       | 2600         |
| <b>743</b> | 610 | 1160 | 490 | 380 | 550 | 510 | 92 | 350 | 107 | 933 | -           | -           | 1158         | 1190 | 70       | 1800         |
| <b>763</b> | 680 | 1300 | 530 | 490 | 550 | 630 | 92 | 375 | 107 | 934 | -           | -           | 1159         | 1190 | 75       | 2300         |
| <b>773</b> | 790 | 1670 | 680 | 620 | 550 | 760 | 92 | 420 | 107 | 951 | -           | -           | -            | 1190 | 100      | 3200         |

## WVS/WLS

Reverse-reduction gearbox for propulsion with fixed pitch propeller / Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset
- Optional SAE housing



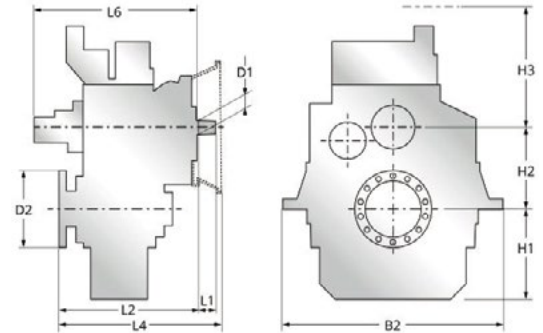
| Size         | B1  | B2  | H1  | H2  | H3  | H4 | D1 | D2  | L1  | L2  | SAE 1<br>L4 | SAE 0<br>L4 | SAE 00<br>L4 | L6  | Oil<br>l | Weight<br>kg |
|--------------|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-------------|-------------|--------------|-----|----------|--------------|
| <b>234/1</b> | 475 | 640 | 200 | 200 | 420 | -  | 55 | 220 | 69  | 483 | 64          | -           | -            | 680 | 20       | 295          |
| <b>334</b>   | 530 | 720 | 240 | 215 | 420 | -  | 62 | 180 | 100 | 564 | 109         | 109         | -            | 700 | 25       | 340          |
| <b>430/1</b> | 400 | 730 | 260 | 235 | 390 | -  | 75 | 220 | -   | 675 | 60          | 102         | -            | 840 | 45       | 490          |



# Main Dimensions

## EF

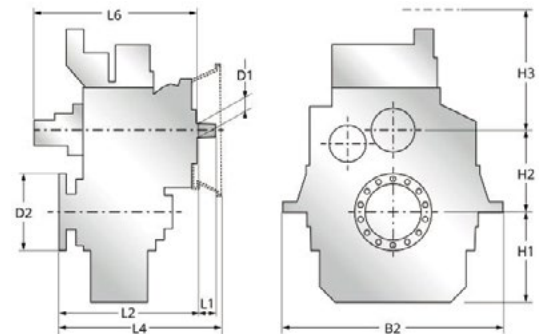
- Vertical offset
- Optional SAE housing



| Size       | B1  | B2   | H1  | H2  | H3  | H4 | D1 | D2  | L1 | L2  | SAE 1 | SAE 0 | SAE 00 | L6  | Oil<br>l | Weight<br>kg |
|------------|-----|------|-----|-----|-----|----|----|-----|----|-----|-------|-------|--------|-----|----------|--------------|
|            |     |      |     |     |     |    |    |     |    |     | L4    | L4    | L4     |     |          |              |
| <b>350</b> | 490 | 910  | 365 | 282 | 528 | -  | 60 | 285 | 69 | 601 | 670   | 670   | -      | 790 | 30       | 670          |
| <b>370</b> | 490 | 930  | 380 | 346 | 524 | -  | 60 | 325 | 69 | 587 | 656   | 656   | -      | 800 | 25       | 730          |
| <b>380</b> | 586 | 1216 | 470 | 418 | 542 | -  | 60 | 345 | 69 | 639 | 708   | 708   | -      | 790 | 28       | 1180         |
| <b>450</b> | 404 | 1096 | 413 | 310 | 550 | -  | 70 | 325 | 80 | 634 | -     | 755   | 771    | 865 | 30       | 830          |
| <b>470</b> | 404 | 1096 | 423 | 380 | 550 | -  | 70 | 345 | 80 | 697 | -     | 818   | 834    | 681 | 30       | 1100         |
| <b>480</b> | 716 | 1286 | 520 | 460 | 549 | -  | 70 | 420 | 80 | 713 | -     | 834   | 850    | 815 | 30       | 1500         |
| <b>550</b> | 654 | 924  | 440 | 339 | 571 | -  | 75 | 345 | 97 | 755 | -     | 874   | 890    | 985 | 40       | 1200         |
| <b>570</b> | 784 | 1188 | 385 | 415 | 575 | -  | 75 | 420 | 97 | 768 | -     | 887   | 903    | 985 | 40       | 1450         |
| <b>580</b> | 790 | 1358 | 540 | 500 | 575 | -  | 75 | 420 | 97 | 773 | -     | 892   | 908    | 985 | 50       | 1850         |

## LF

- Vertical offset
- Optional SAE housing



| Size       | B1  | B2  | H1  | H2  | H3  | H4 | D1 | D2  | L1 | L2  | SAE 1 | SAE 0 | SAE 00 | L6  | Oil<br>l | Weight<br>kg |
|------------|-----|-----|-----|-----|-----|----|----|-----|----|-----|-------|-------|--------|-----|----------|--------------|
|            |     |     |     |     |     |    |    |     |    |     | L4    | L4    | L4     |     |          |              |
| <b>350</b> | 490 | 910 | 365 | 282 | 528 | -  | 60 | 285 | 69 | 601 | 670   | 670   | -      | 790 | 30       | 670          |
| <b>370</b> | 490 | 930 | 380 | 346 | 524 | -  | 60 | 325 | 69 | 587 | 656   | 656   | -      | 800 | 25       | 730          |



# Main Dimensions

## LF

- Vertical offset
- Optional SAE housing

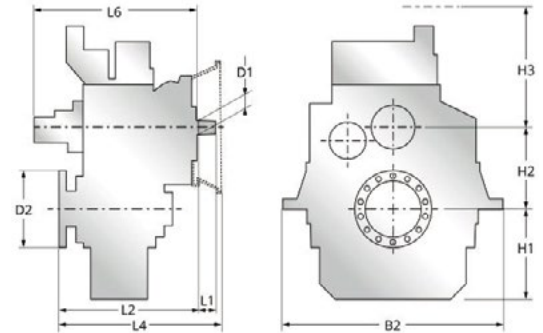


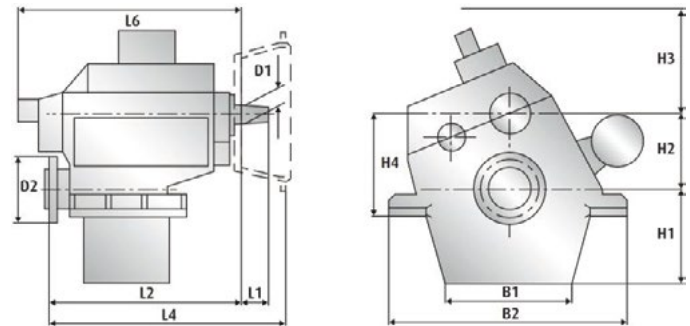
table continued

| Size       | B1  | B2   | H1  | H2  | H3  | H4 | D1 | D2  | L1 | L2  | SAE 1 | SAE 0 | SAE 00 | L6  | Oil<br>l | Weight<br>kg |
|------------|-----|------|-----|-----|-----|----|----|-----|----|-----|-------|-------|--------|-----|----------|--------------|
|            |     |      |     |     |     |    |    |     |    |     | L4    | L4    | L4     |     |          |              |
| <b>380</b> | 586 | 1216 | 470 | 418 | 542 | -  | 60 | 345 | 69 | 639 | 708   | 708   | -      | 790 | 28       | 1180         |
| <b>450</b> | 404 | 1096 | 413 | 310 | 550 | -  | 70 | 325 | 80 | 634 | -     | 755   | 771    | 865 | 30       | 830          |
| <b>470</b> | 404 | 1096 | 423 | 380 | 550 | -  | 70 | 345 | 80 | 697 | -     | 818   | 834    | 681 | 30       | 1100         |
| <b>480</b> | 716 | 1286 | 520 | 460 | 549 | -  | 70 | 420 | 80 | 713 | -     | 834   | 850    | 815 | 30       | 1500         |
| <b>550</b> | 654 | 924  | 440 | 339 | 571 | -  | 75 | 345 | 97 | 755 | -     | 874   | 890    | 985 | 40       | 1200         |
| <b>570</b> | 784 | 1188 | 385 | 415 | 575 | -  | 75 | 420 | 97 | 768 | -     | 887   | 903    | 985 | 40       | 1450         |
| <b>580</b> | 790 | 1358 | 540 | 500 | 575 | -  | 75 | 420 | 97 | 773 | -     | 892   | 908    | 985 | 50       | 1850         |

## LAF

Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset
- Optional SAE housing



| Size       | B1  | B2   | H1  | H2  | H3  | H4  | D1 | D2  | L1  | L2  | SAE 1 | SAE 0 | SAE 00 | L6   | Oil<br>l | Weight<br>kg |
|------------|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-------|-------|--------|------|----------|--------------|
|            |     |      |     |     |     |     |    |     |     |     | L4    | L4    | L4     |      |          |              |
| <b>665</b> | 430 | 1160 | 490 | 430 | 540 | 560 | 85 | 420 | 101 | 881 | -     | 1042  | 1042   | 1200 | 65       | 1800         |
| <b>675</b> | 650 | 1480 | 610 | 550 | 540 | 680 | 85 | 420 | 101 | 892 | -     | 1053  | 1053   | 1200 | 90       | 2450         |
| <b>743</b> | 610 | 1160 | 490 | 380 | 550 | 510 | 92 | 350 | 107 | 933 | -     | -     | 1158   | 1190 | 70       | 1600         |
| <b>763</b> | 680 | 1300 | 530 | 490 | 550 | 630 | 92 | 375 | 107 | 934 | -     | -     | 1159   | 1190 | 75       | 2100         |

# Main Dimensions

## LAF

Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset
- Optional SAE housing

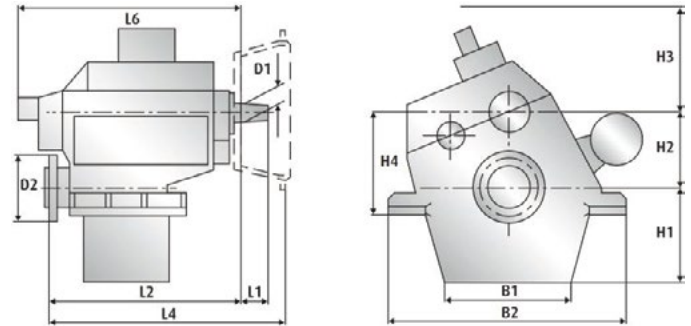


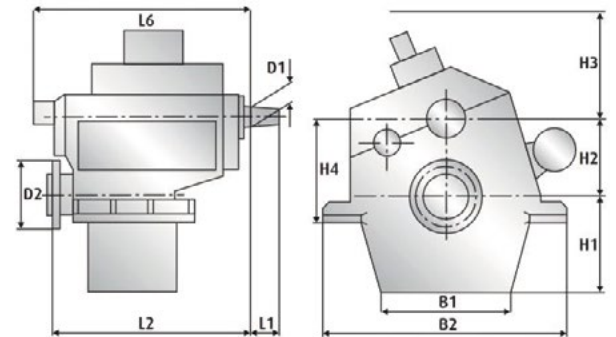
table continued

| Size       | B1  | B2   | H1  | H2  | H3  | H4  | D1 | D2  | SAE      |          |           | L6 | Oil l | Weight kg |     |      |
|------------|-----|------|-----|-----|-----|-----|----|-----|----------|----------|-----------|----|-------|-----------|-----|------|
|            |     |      |     |     |     |     |    |     | SAE 1 L4 | SAE 0 L4 | SAE 00 L4 |    |       |           |     |      |
| <b>773</b> | 790 | 1670 | 680 | 620 | 550 | 760 | 92 | 420 | 107      | 951      | -         | -  | -     | 1190      | 100 | 3000 |

## WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset



| Size        | B1   | B2   | H1  | H2  | H3  | H4  | D1  | D2  | L1  | L2   | L6   | Oil l | Weight kg |
|-------------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|-------|-----------|
| <b>843</b>  | 680  | 1300 | 530 | 425 | 550 | 565 | 107 | 375 | 142 | 970  | 1280 | 90    | 2300      |
| <b>863</b>  | 705  | 1400 | 590 | 540 | 550 | 690 | 107 | 420 | 142 | 1000 | 1280 | 110   | 3100      |
| <b>873</b>  | 860  | 1650 | 750 | 670 | 550 | 710 | 107 | 480 | 142 | 1030 | 1280 | 120   | 4100      |
| <b>1143</b> | 705  | 1400 | 590 | 450 | 650 | 600 | 107 | 420 | 142 | 1053 | 1368 | 115   | 2750      |
| <b>1163</b> | 855  | 1520 | 660 | 590 | 650 | 750 | 107 | 480 | 142 | 1085 | 1368 | 125   | 3600      |
| <b>1173</b> | 1000 | 1800 | 810 | 730 | 880 | 890 | 107 | 550 | 142 | 1008 | 1400 | 150   | 5000      |
| <b>1543</b> | 855  | 1520 | 660 | 490 | 650 | 650 | 117 | 480 | 154 | 1133 | 1413 | 175   | 3400      |
| <b>1563</b> | 925  | 1620 | 675 | 630 | 650 | 790 | 117 | 550 | 154 | 1163 | 1413 | 150   | 4460      |
| <b>1943</b> | 925  | 1620 | 675 | 485 | 600 | 645 | 127 | 550 | 162 | 1261 | 1556 | 215   | 4460      |
| <b>1963</b> | 970  | 1680 | 720 | 675 | 600 | 845 | 127 | 600 | 162 | 1281 | 1556 | 215   | 5540      |

All dimensions, weights and oil quantities are not binding and may differ in custom executions.



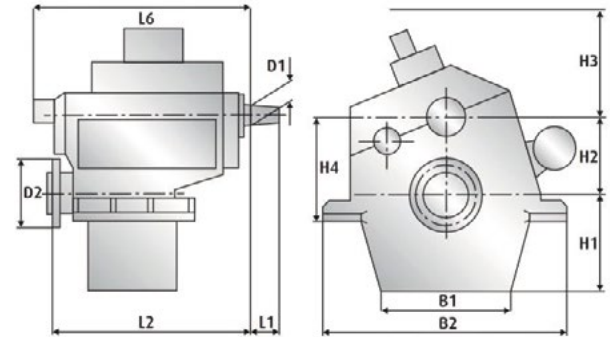
# Main Dimensions

## WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

table continued



| Size        | B1   | B2   | H1   | H2   | H3   | H4   | D1  | D2  | L1  | L2   | L6   | Oil l | Weight kg |
|-------------|------|------|------|------|------|------|-----|-----|-----|------|------|-------|-----------|
| <b>1973</b> | 1000 | 2210 | 865  | 820  | 700  | 970  | 127 | 650 | 162 | 1347 | 1700 | 290   | 8500      |
| <b>2346</b> | 730  | 1550 | 630  | 560  | 600  | 720  | 162 | 550 | 200 | 1475 | 1800 | 140   | 6000      |
| <b>2355</b> | 920  | 1780 | 730  | 660  | 600  | 820  | 162 | 600 | 200 | 1470 | 1800 | 260   | 7000      |
| <b>2365</b> | 1050 | 2120 | 770  | 760  | 600  | 920  | 162 | 600 | 200 | 1470 | 1800 | 250   | 8000      |
| <b>2375</b> | 900  | 2120 | 875  | 865  | 700  | 1085 | 162 | 650 | 200 | 1480 | 1800 | 290   | 10000     |
| <b>3445</b> | 790  | 1660 | 660  | 600  | 560  | 760  | 167 | 600 | 200 | 1540 | 1870 | 265   | 7100      |
| <b>3455</b> | 930  | 1880 | 770  | 710  | 700  | 870  | 167 | 650 | 200 | 1550 | 1870 | 220   | 8500      |
| <b>3465</b> | 930  | 2100 | 850  | 815  | 700  | 975  | 167 | 650 | 200 | 1550 | 1870 | 420   | 10400     |
| <b>3475</b> | 1150 | 2380 | 970  | 925  | 700  | 1095 | 167 | 670 | 200 | 1570 | 1870 | 360   | 11500     |
| <b>4545</b> | 930  | 1880 | 770  | 650  | 600  | 810  | 187 | 650 | 235 | 1630 | 1970 | 290   | 8900      |
| <b>4555</b> | 960  | 1980 | 810  | 765  | 600  | 935  | 187 | 670 | 235 | 1655 | 1970 | 300   | 10500     |
| <b>4566</b> | 1240 | 2400 | 935  | 885  | 730  | 1065 | 187 | 710 | 235 | 1695 | 2050 | 430   | 12600     |
| <b>4575</b> | 1480 | 2750 | 1055 | 1010 | 730  | 1190 | 187 | 710 | 235 | 1695 | 2050 | 430   | 14100     |
| <b>5645</b> | 1100 | 1980 | 810  | 690  | 700  | 860  | 195 | 670 | 250 | 1725 | 2090 | 370   | 11600     |
| <b>5655</b> | 1275 | 2240 | 870  | 815  | 700  | 995  | 195 | 710 | 250 | 1765 | 2090 | 410   | 13200     |
| <b>5666</b> | 1395 | 2420 | 980  | 935  | 700  | 1135 | 195 | 750 | 250 | 1870 | 2090 | 500   | 16000     |
| <b>5675</b> | 1600 | 2700 | 1110 | 1055 | 700  | 1255 | 195 | 800 | 250 | 1710 | 2090 | 600   | 18000     |
| <b>6745</b> | 1275 | 2240 | 870  | 735  | 950  | 915  | 217 | 710 | 265 | 1870 | 2220 | 520   | 15000     |
| <b>6755</b> | 1280 | 2280 | 930  | 880  | 950  | 1080 | 217 | 750 | 265 | 1875 | 2220 | 550   | 17000     |
| <b>6766</b> | 1500 | 2450 | 1040 | 1000 | 1000 | 1260 | 217 | 800 | 265 | 1915 | 2220 | 600   | 18000     |
| <b>7740</b> | 1280 | 2280 | 930  | 800  | 900  | 1000 | 217 | 750 | 305 | 1985 | 2390 | 570   | 17000     |
| <b>7750</b> | 1300 | 2300 | 910  | 900  | 900  | 1100 | 217 | 800 | 305 | 2030 | 2390 | 630   | 19000     |
| <b>7760</b> | 1500 | 2450 | 1040 | 1050 | 1000 | 1310 | 217 | 900 | 305 | 2110 | 2390 | 800   | 20500     |

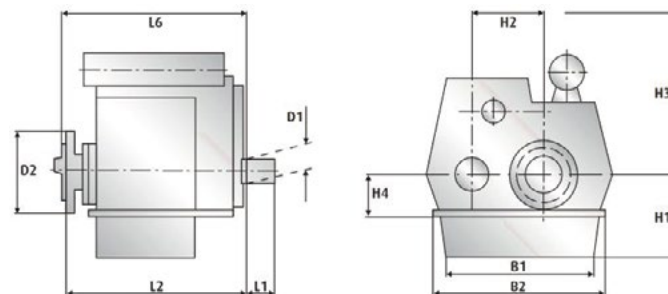
All dimensions, weights and oil quantities are not binding and may differ in custom executions.

# Main Dimensions

## WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Horizontal offset

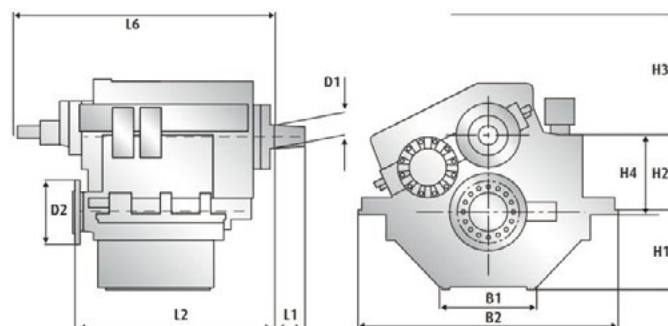


| Size        | B1   | B2   | H1  | H2  | H3   | H4  | D1  | D2  | L1  | L2   | L6   | Oil l | Weight kg |
|-------------|------|------|-----|-----|------|-----|-----|-----|-----|------|------|-------|-----------|
| <b>2346</b> | 1160 | 1980 | 600 | 560 | 1250 | 160 | 162 | 550 | 198 | 1485 | 1800 | 260   | 7200      |
| <b>2355</b> | 1000 | 2180 | 680 | 660 | 1250 | 160 | 162 | 600 | 198 | 1470 | 1800 | 330   | 7500      |
| <b>2365</b> | 1481 | 2100 | 770 | 760 | 1290 | 350 | 162 | 600 | 198 | 1470 | 1800 | 400   | 9400      |
| <b>3445</b> | 1240 | 2060 | 660 | 600 | 1150 | 160 | 167 | 600 | 198 | 1540 | 1880 | 265   | 8200      |
| <b>3455</b> | 1550 | 2430 | 770 | 710 | 1200 | 160 | 167 | 650 | 198 | 1550 | 1880 | 425   | 9800      |
| <b>4545</b> | 1450 | 1950 | 710 | 650 | 1350 | 160 | 187 | 650 | 237 | 1630 | 1970 | 360   | 10500     |
| <b>4555</b> | 1600 | 2470 | 820 | 765 | 1300 | 170 | 187 | 670 | 237 | 1655 | 1970 | 350   | 11800     |
| <b>5666</b> | 1545 | 2050 | 740 | 690 | 1350 | 400 | 197 | 670 | 251 | 1725 | 2080 | 500   | 13000     |
| <b>6745</b> | 1550 | 2150 | 780 | 735 | 1350 | 445 | 217 | 710 | 263 | 1875 | 2210 | 600   | 15200     |
| <b>6755</b> | 1810 | 2590 | 920 | 880 | 1380 | 445 | 217 | 750 | 263 | 1875 | 2210 | 650   | 17600     |

## WVS

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset



| Size         | B1  | B2   | H1  | H2  | H3  | H4  | D1 | D2  | L1  | L2  | L6  | Oil l | Weight kg |
|--------------|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-----|-------|-----------|
| <b>730/1</b> | 650 | 1036 | 323 | 310 | 540 | 340 | 92 | 260 | 110 | 795 | 965 | 60    | 725       |
| <b>732</b>   | 650 | 1036 | 323 | 310 | 540 | 340 | 92 | 260 | 110 | 795 | 965 | 60    | 725       |

All dimensions, weights and oil quantities are not binding and may differ in custom executions.

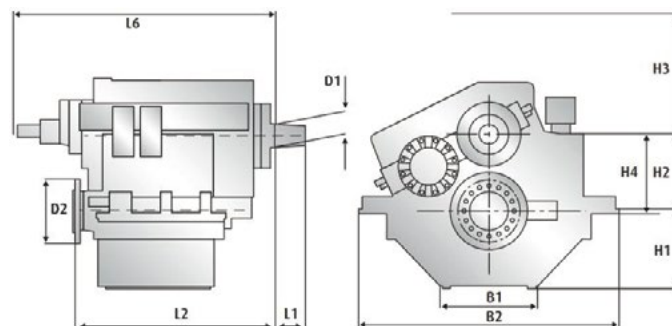
# Main Dimensions

## WVS

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

table continued

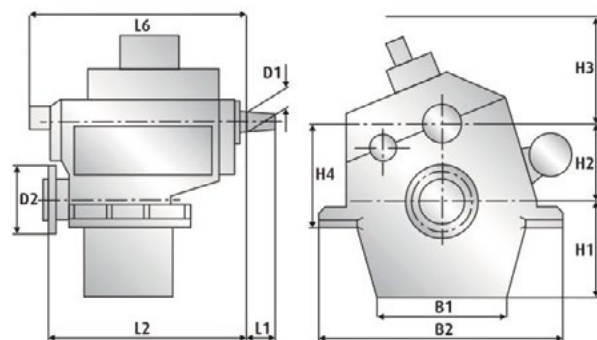


| Size         | B1  | B2   | H1  | H2  | H3  | H4  | D1  | D2  | L1  | L2   | L6   | Oil l | Weight kg |
|--------------|-----|------|-----|-----|-----|-----|-----|-----|-----|------|------|-------|-----------|
| <b>930/1</b> | 750 | 1166 | 348 | 340 | 560 | 385 | 102 | 280 | 120 | 845  | 1024 | 80    | 950       |
| <b>1540</b>  | 650 | 1300 | 390 | 390 | 700 | 405 | 107 | 330 | 142 | 952  | 1375 | 88    | 1450      |
| <b>1930</b>  | 500 | 1340 | 400 | 390 | 650 | 405 | 117 | 330 | 154 | 1032 | 1300 | 80    | 1550      |
| <b>2230</b>  | 700 | 1500 | 500 | 460 | 550 | 475 | 127 | 350 | 162 | 1180 | 1480 | 140   | 2150      |
| <b>2240</b>  | 700 | 1500 | 500 | 460 | 550 | 475 | 127 | 390 | 162 | 1180 | 1480 | 150   | 2185      |

## LAF

Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset



| Size        | B1   | B2   | H1  | H2  | H3  | H4  | D1  | D2  | L1  | L2   | L6   | Oil l | Weight kg |
|-------------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|-------|-----------|
| <b>843</b>  | 680  | 1300 | 530 | 425 | 550 | 565 | 107 | 375 | 142 | 970  | 1280 | 90    | 2640      |
| <b>863</b>  | 705  | 1400 | 590 | 540 | 550 | 690 | 107 | 420 | 142 | 1000 | 1280 | 110   | 2850      |
| <b>873</b>  | 860  | 1650 | 750 | 670 | 550 | 710 | 107 | 480 | 142 | 1030 | 1280 | 120   | 3850      |
| <b>1143</b> | 705  | 1400 | 590 | 450 | 650 | 600 | 107 | 420 | 142 | 1053 | 1368 | 115   | 2450      |
| <b>1163</b> | 855  | 1520 | 660 | 590 | 650 | 750 | 107 | 480 | 142 | 1085 | 1368 | 125   | 3300      |
| <b>1173</b> | 1000 | 1800 | 810 | 730 | 880 | 890 | 107 | 550 | 142 | 1008 | 1400 | 150   | 4600      |

All dimensions, weights and oil quantities are not binding and may differ in custom executions.

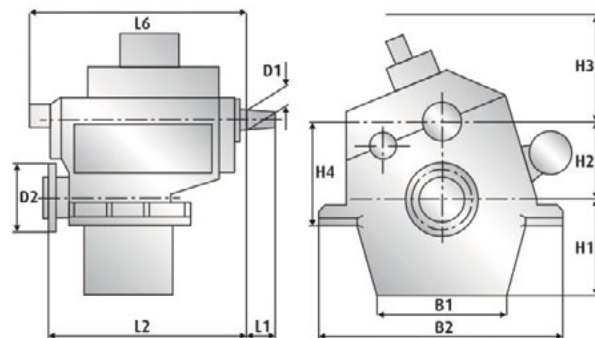
# Main Dimensions

## LAF

Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset

table continued



| Size        | B1   | B2   | H1   | H2   | H3  | H4   | D1  | D2  | L1  | L2   | L6   | Oil l | Weight kg |
|-------------|------|------|------|------|-----|------|-----|-----|-----|------|------|-------|-----------|
| <b>1543</b> | 855  | 1520 | 660  | 490  | 650 | 650  | 117 | 480 | 154 | 1133 | 1413 | 175   | 3000      |
| <b>1563</b> | 925  | 1620 | 675  | 630  | 650 | 790  | 117 | 550 | 154 | 1163 | 1413 | 150   | 4000      |
| <b>1943</b> | 925  | 1620 | 675  | 485  | 600 | 645  | 127 | 550 | 162 | 1261 | 1556 | 215   | 4060      |
| <b>1963</b> | 970  | 1680 | 720  | 675  | 600 | 845  | 127 | 600 | 162 | 1281 | 1556 | 215   | 4940      |
| <b>1973</b> | 1000 | 2210 | 865  | 820  | 700 | 970  | 127 | 650 | 162 | 1347 | 1700 | 290   | 7580      |
| <b>2355</b> | 920  | 1780 | 730  | 660  | 600 | 820  | 162 | 600 | 200 | 1470 | 1800 | 260   | 6300      |
| <b>3445</b> | 790  | 1660 | 660  | 600  | 560 | 760  | 167 | 600 | 200 | 1540 | 1870 | 265   | 6400      |
| <b>3455</b> | 930  | 1880 | 770  | 710  | 700 | 870  | 167 | 650 | 200 | 1550 | 1870 | 220   | 7800      |
| <b>3465</b> | 930  | 2100 | 850  | 815  | 700 | 975  | 167 | 650 | 200 | 1550 | 1870 | 420   | 9700      |
| <b>3475</b> | 1150 | 2380 | 970  | 925  | 700 | 1095 | 167 | 670 | 200 | 1570 | 1870 | 360   | 10800     |
| <b>4545</b> | 930  | 1880 | 770  | 650  | 750 | 810  | 187 | 650 | 235 | 1630 | 1970 | 290   | 8000      |
| <b>4555</b> | 960  | 1980 | 810  | 765  | 750 | 935  | 187 | 670 | 235 | 1655 | 1970 | 300   | 9500      |
| <b>4566</b> | 1240 | 2400 | 935  | 885  | 750 | 1065 | 187 | 710 | 235 | 1695 | 2050 | 430   | 11100     |
| <b>4575</b> | 1480 | 2750 | 1055 | 1010 | 750 | 1190 | 187 | 710 | 235 | 1695 | 2050 | 450   | 13100     |

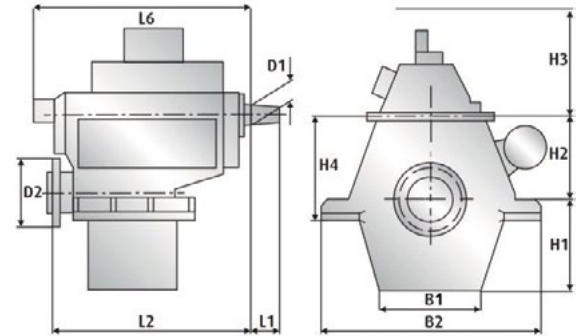
All dimensions, weights and oil quantities are not binding and may differ in custom executions.

# Main Dimensions

## LAF

Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset



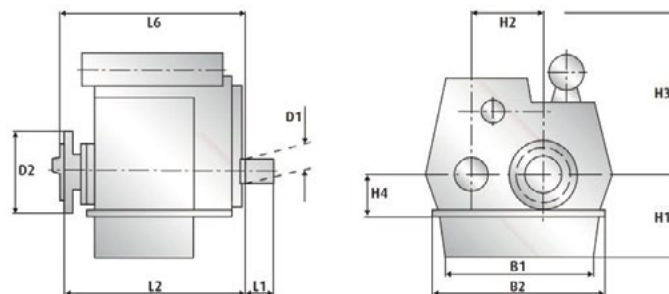
| Size        | B1   | B2   | H1   | H2   | H3  | H4   | D1  | D2  | L1  | L2   | L6   | Oil l | Weight kg |
|-------------|------|------|------|------|-----|------|-----|-----|-----|------|------|-------|-----------|
| <b>2346</b> | 730  | 1550 | 630  | 560  | 600 | 720  | 162 | 550 | 200 | 1475 | 1800 | 140   | 5200      |
| <b>2365</b> | 1050 | 2120 | 770  | 760  | 600 | 920  | 162 | 600 | 200 | 1470 | 1800 | 250   | 7000      |
| <b>2375</b> | 900  | 2120 | 875  | 865  | 700 | 1085 | 162 | 650 | 200 | 1480 | 1800 | 290   | 9200      |
| <b>5645</b> | 1100 | 1980 | 810  | 690  | 900 | 860  | 195 | 670 | 250 | 1725 | 2090 | 370   | 9000      |
| <b>5655</b> | 1275 | 2240 | 870  | 815  | 900 | 995  | 195 | 710 | 250 | 1765 | 2090 | 410   | 11800     |
| <b>5666</b> | 1395 | 2420 | 980  | 935  | 900 | 1135 | 195 | 750 | 250 | 1870 | 2090 | 500   | 13800     |
| <b>5675</b> | 1600 | 2700 | 1110 | 1055 | 900 | 1255 | 195 | 800 | 250 | 1710 | 2090 | 600   | 17000     |
| <b>6745</b> | 1275 | 2240 | 870  | 735  | 900 | 915  | 217 | 710 | 265 | 1870 | 2220 | 420   | 12000     |
| <b>6755</b> | 1280 | 2280 | 930  | 880  | 900 | 1080 | 217 | 750 | 265 | 1875 | 2220 | 420   | 13800     |
| <b>6766</b> | 1500 | 2450 | 1040 | 1000 | 900 | 1260 | 217 | 800 | 265 | 1915 | 2220 | 580   | 17000     |
| <b>7740</b> | 1280 | 2280 | 930  | 800  | 900 | 1000 | 217 | 750 | 305 | 1985 | 2390 | 570   | 15500     |
| <b>7750</b> | 1300 | 2300 | 910  | 900  | 900 | 1100 | 217 | 800 | 305 | 2030 | 2390 | 630   | 16500     |
| <b>7760</b> | 1500 | 2450 | 1040 | 1050 | 900 | 1310 | 217 | 900 | 305 | 2110 | 2390 | 800   | 17500     |

# Main Dimensions

## LAF

Reduction gearbox for propulsion with controllable pitch propeller

- Horizontal offset

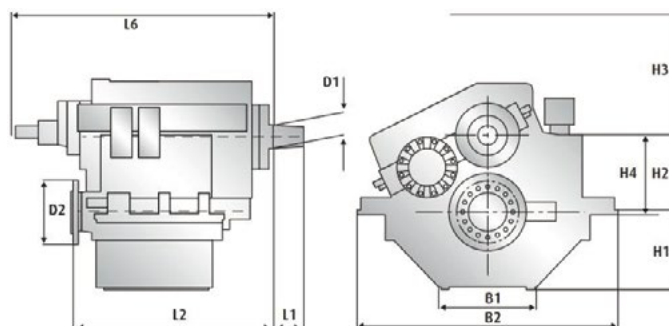


| Size        | B1   | B2   | H1  | H2  | H3   | H4  | D1  | D2  | L1  | L2   | L6   | Oil l | Weight kg |
|-------------|------|------|-----|-----|------|-----|-----|-----|-----|------|------|-------|-----------|
| <b>2346</b> | 1160 | 1980 | 600 | 560 | 1250 | 160 | 162 | 550 | 198 | 1485 | 1800 | 210   | 6500      |
| <b>2355</b> | 1000 | 2180 | 680 | 660 | 1250 | 160 | 162 | 600 | 198 | 1470 | 1800 | 275   | 6800      |
| <b>2365</b> | 1481 | 2100 | 770 | 760 | 1290 | 350 | 162 | 600 | 198 | 1470 | 1800 | 400   | 8600      |
| <b>3445</b> | 1240 | 2060 | 660 | 600 | 1150 | 160 | 167 | 600 | 198 | 1540 | 1880 | 265   | 7500      |
| <b>3455</b> | 1550 | 2430 | 770 | 710 | 1200 | 160 | 167 | 650 | 198 | 1550 | 1880 | 425   | 9100      |
| <b>4545</b> | 1450 | 1950 | 710 | 650 | 1350 | 160 | 187 | 650 | 237 | 1630 | 1970 | 350   | 9600      |
| <b>4555</b> | 1600 | 2470 | 820 | 765 | 1300 | 170 | 187 | 670 | 237 | 1655 | 1970 | 400   | 10800     |
| <b>5666</b> | 1545 | 2050 | 740 | 690 | 1350 | 400 | 197 | 670 | 251 | 1725 | 2080 | 540   | 12500     |
| <b>6745</b> | 1550 | 2150 | 780 | 735 | 1350 | 445 | 217 | 710 | 263 | 1875 | 2210 | 420   | 14200     |
| <b>6755</b> | 1810 | 2590 | 920 | 880 | 1380 | 445 | 217 | 750 | 263 | 1875 | 2210 | 680   | 16600     |

## WLS

Reduction gearbox for propulsion with controllable pitch propeller

- Vertical offset



| Size         | B1  | B2   | H1  | H2  | H3  | H4  | D1 | D2  | L1  | L2  | L6  | Oil l | Weight kg |
|--------------|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-----|-------|-----------|
| <b>730/1</b> | 650 | 1036 | 323 | 310 | 540 | 340 | 92 | 260 | 110 | 795 | 965 | 60    | 575       |

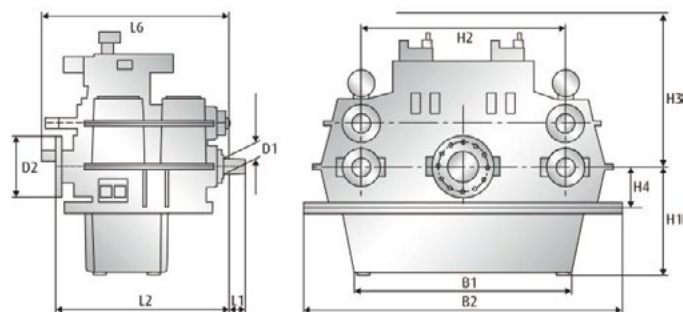
All dimensions, weights and oil quantities are not binding and may differ in custom executions.

# Main Dimensions

## DLG

Twin input/single output reduction gearbox with hydraulically operated clutches

- Horizontal offset
- Quoted power for size orientaion only



| Size          | B1   | B2   | H1   | H2   | H3   | H4  | D1  | D2  | L1  | L2   | L6   | Oil l | Weight kg | kW/rpm       |
|---------------|------|------|------|------|------|-----|-----|-----|-----|------|------|-------|-----------|--------------|
| <b>1913</b>   | 2100 | 2780 | 1000 | 2000 | 1650 | 400 | 127 | 550 | 162 | 1440 | 1750 | 850   | 10500     | <b>4,40</b>  |
| <b>1916</b>   | 2880 | 3400 | 1150 | 2500 | 1800 | 360 | 127 | 600 | 162 | 1450 | 1750 | 850   | 15000     | <b>4,40</b>  |
| <b>1925</b>   | 2700 | 3500 | 1310 | 2500 | 1800 | 460 | 127 | 670 | 162 | 1440 | 1750 | 850   | 16000     | <b>4,40</b>  |
| <b>1931</b>   | 2700 | 3900 | 1210 | 2300 | 1640 | 540 | 127 | 710 | 162 | 1735 | 2000 | 900   | 22500     | <b>4,40</b>  |
| <b>2316</b>   | 2000 | 2800 | 1030 | 2300 | 1580 | 390 | 162 | 600 | 198 | 1620 | 2000 | 900   | 19000     | <b>4,90</b>  |
| <b>3325</b>   | 2250 | 3060 | 1250 | 2500 | 1500 | 440 | 167 | 770 | 198 | 1715 | 1920 | 850   | 19000     | <b>6,50</b>  |
| <b>3331</b>   | 2080 | 3060 | 1250 | 2500 | 1500 | 440 | 167 | 915 | 198 | 1765 | 1900 | 600   | 20000     | <b>6,50</b>  |
| <b>4431</b>   | 2700 | 3200 | 1260 | 2500 | 1750 | 450 | 187 | 710 | 237 | 1920 | 2210 | 1000  | 24000     | <b>7,60</b>  |
| <b>4447</b>   | 2800 | 3900 | 1300 | 2500 | 1730 | 500 | 187 | 820 | 237 | 2090 | 2300 | 1200  | 26000     | <b>7,60</b>  |
| <b>5520</b>   | 2800 | 3580 | 1250 | 2500 | 1800 | 500 | 197 | 650 | 251 | 1870 | 2115 | 1400  | 28000     | <b>10,00</b> |
| <b>5539</b>   | 2100 | 3460 | 1315 | 2800 | 1700 | 640 | 197 | 705 | 251 | 1995 | 2115 | 1800  | 31000     | <b>10,00</b> |
| <b>5547</b>   | 2800 | 3580 | 1250 | 2500 | 1800 | 640 | 197 | 800 | 251 | 2030 | 2400 | 1300  | 28000     | <b>10,00</b> |
| <b>5573</b>   | 3300 | 4180 | 1410 | 2800 | 2050 | 800 | 197 | 860 | 251 | 2300 | 2400 | 1500  | 32000     | <b>10,00</b> |
| <b>6673</b>   | 2900 | 4250 | 1400 | 2800 | 1850 | 675 | 217 | 860 | 263 | 2540 | 2350 | 1800  | 37000     | <b>12,00</b> |
| <b>7747</b>   | 3300 | 4300 | 1250 | 2800 | 1770 | 550 | 217 | 737 | 306 | 2255 | 2560 | 1850  | 31000     | <b>15,74</b> |
| <b>7773</b>   | 3200 | 4300 | 1250 | 2800 | 1800 | 550 | 217 | 750 | 306 | 2255 | 2560 | 1850  | 31500     | <b>15,74</b> |
| <b>8890</b>   | 3250 | 4100 | 1425 | 2800 | 1750 | 500 | 247 | 900 | 321 | 2370 | 2700 | 1500  | 42000     | <b>20,00</b> |
| <b>9990</b>   | 3000 | 5220 | 1550 | 3400 | 2050 | 750 | 247 | 900 | 321 | 2800 | 3000 | 2500  | 51000     | <b>27,00</b> |
| <b>110131</b> | 3000 | 5450 | 1550 | 3400 | 2050 | 750 | 315 | 950 | 405 | 2435 | 3600 | 1500  | 61000     | <b>44,00</b> |

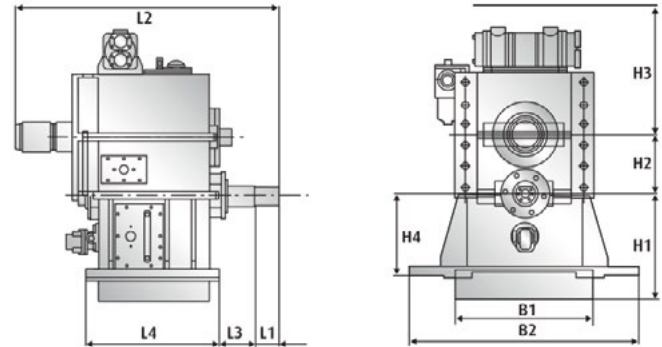
# Main Dimensions

## RDG

Reduction gearbox without clutch for dredging pump

- Vertical offset

table continued



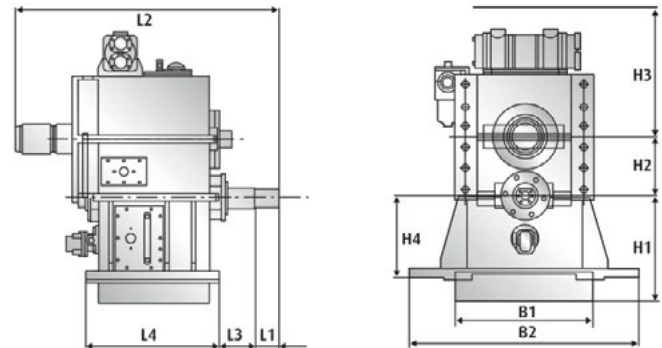
| Size       | B1   | B2   | B3 | H1  | H2  | H3  | H4  | D1 | D2 | L1  | L2   | L3 | L4  | Oil l | Weight kg |
|------------|------|------|----|-----|-----|-----|-----|----|----|-----|------|----|-----|-------|-----------|
| <b>355</b> | 700  | 1060 | -  | 410 | 355 | 600 | 150 | -  | -  | 135 | 975  | 7  | 450 | 55    | 1300      |
| <b>400</b> | 900  | 1300 | -  | 460 | 400 | 600 | 150 | -  | -  | 107 | 1022 | 11 | 570 | 60    | 2000      |
| <b>500</b> | 1000 | 1500 | -  | 510 | 500 | 600 | 160 | -  | -  | 107 | 1062 | 51 | 680 | 60    | 2450      |

## RDG

Reduction gearbox without clutch for dredging pump

- Vertical offset

table continued



| Size       | B1   | B2   | B3 | H1  | H2  | H3  | H4  | D1 | D2 | L1  | L2   | L3 | L4  | Oil l | Weight kg |
|------------|------|------|----|-----|-----|-----|-----|----|----|-----|------|----|-----|-------|-----------|
| <b>355</b> | 700  | 1060 | -  | 410 | 355 | 600 | 150 | -  | -  | 135 | 975  | 7  | 450 | 55    | 1300      |
| <b>400</b> | 900  | 1300 | -  | 460 | 400 | 600 | 150 | -  | -  | 107 | 1022 | 11 | 570 | 60    | 2000      |
| <b>500</b> | 1000 | 1500 | -  | 510 | 500 | 600 | 160 | -  | -  | 107 | 1062 | 51 | 680 | 60    | 2450      |

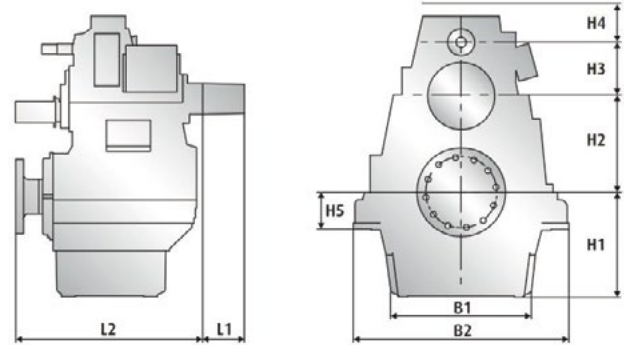


# Main Dimensions

## SVA

Reduction gearbox with slide bearings for propulsion with controllable pitch propeller

- Vertical offset



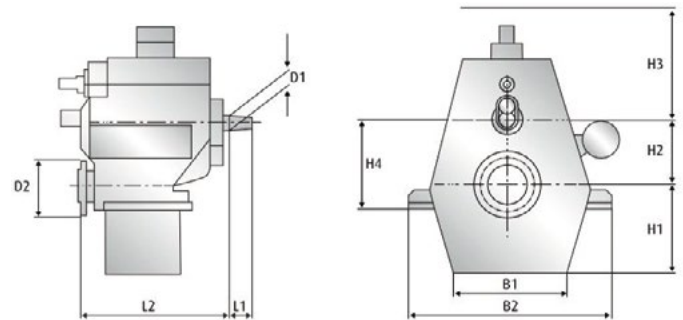
| Size        | B1   | B2   | H1   | H2   | H3  | H4  | D1 | D2 | L1 | L2   | Oil l | Weight kg |
|-------------|------|------|------|------|-----|-----|----|----|----|------|-------|-----------|
| <b>630</b>  | 1000 | 1810 | 790  | 630  | 455 | 550 | -  | -  | -  | 1550 | 360   | 7700      |
| <b>750</b>  | 1198 | 1870 | 870  | 750  | 500 | 550 | -  | -  | -  | 1663 | 330   | 8900      |
| <b>800</b>  | 1198 | 1870 | 870  | 800  | 500 | 550 | -  | -  | -  | 1850 | 350   | 10500     |
| <b>850</b>  | 1410 | 2240 | 1020 | 850  | 500 | 620 | -  | -  | -  | 1977 | 800   | 16000     |
| <b>900</b>  | 1410 | 2240 | 1020 | 900  | 570 | 750 | -  | -  | -  | 2066 | 800   | 17000     |
| <b>950</b>  | 1730 | 2340 | 1060 | 950  | 570 | 600 | -  | -  | -  | 2250 | 700   | 17500     |
| <b>1000</b> | 1630 | 2440 | 1100 | 1000 | 570 | 650 | -  | -  | -  | 2180 | 700   | 19500     |
| <b>1050</b> | 1730 | 2550 | 1100 | 1050 | 570 | 650 | -  | -  | -  | 2180 | 580   | 21000     |
| <b>1120</b> | 1730 | 2560 | 1150 | 1120 | 650 | 730 | -  | -  | -  | 2300 | 850   | 22500     |
| <b>1200</b> | 2112 | 3100 | 1245 | 1200 | 650 | 750 | -  | -  | -  | 2260 | 1100  | 31000     |
| <b>1250</b> | 1725 | 3100 | 1400 | 1250 | 650 | 490 | -  | -  | -  | 2504 | 1650  | 34000     |

# Main Dimensions

## VA

Reduction gearbox without clutch for propulsion with controllable pitch propeller

- Vertical offset

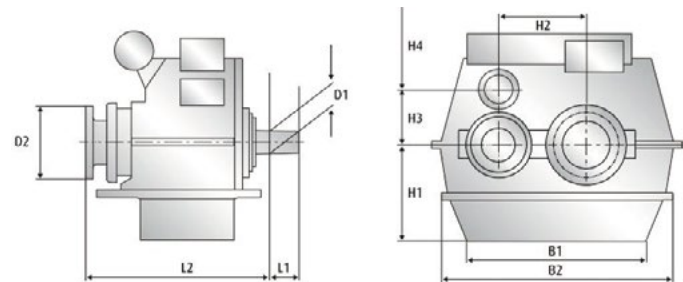


| Size        | B1   | B2   | H1  | H2  | H3   | H4   | D1  | D2  | L1  | L2   | Oil l | Weight kg |
|-------------|------|------|-----|-----|------|------|-----|-----|-----|------|-------|-----------|
| <b>2451</b> | 1090 | 1650 | 660 | 600 | 890  | 820  | 157 | 600 | 183 | 1487 | 150   | 5100      |
| <b>2741</b> | 800  | 1650 | 720 | 560 | 840  | 760  | 187 | 600 | 237 | 1407 | 200   | 5500      |
| <b>3451</b> | 1100 | 2000 | 860 | 720 | 860  | 940  | 187 | 650 | 237 | 1450 | 300   | 8700      |
| <b>3462</b> | 1720 | 2150 | 900 | 820 | 1080 | 1040 | 187 | 650 | 237 | 1666 | 360   | 10200     |
| <b>3541</b> | 1000 | 1780 | 760 | 630 | 840  | 850  | 197 | 650 | 251 | 1485 | 230   | 7600      |
| <b>4851</b> | 1230 | 2250 | 900 | 820 | 970  | 1040 | 197 | 750 | 263 | 1566 | 360   | 12000     |
| <b>4855</b> | 1220 | 2000 | 880 | 850 | 970  | 1130 | 217 | 750 | 306 | 1626 | 300   | 12500     |

## VA

Reduction gearbox without clutch for propulsion with controllable pitch propeller

- Horizontal offset



| Size        | B1   | B2   | H1  | H2  | H3  | H4  | D1  | D2  | L1  | L2   | Oil l | Weight kg |
|-------------|------|------|-----|-----|-----|-----|-----|-----|-----|------|-------|-----------|
| <b>2451</b> | 1535 | 1935 | 650 | 560 | 430 | 650 | 220 | 770 | 250 | 1700 | 350   | 5100      |
| <b>3451</b> | 1470 | 1890 | 810 | 720 | 455 | 940 | 187 | 650 | 237 | 1747 | 400   | 8700      |
| <b>3541</b> | 1340 | 1850 | 760 | 630 | 472 | 828 | 220 | 650 | 251 | 1600 | 400   | 7600      |

All dimensions, weights and oil quantities are not binding and may differ in custom executions.

# Main Dimensions

## VA

Reduction gearbox without clutch for propulsion with controllable pitch propeller

- Horizontal offset

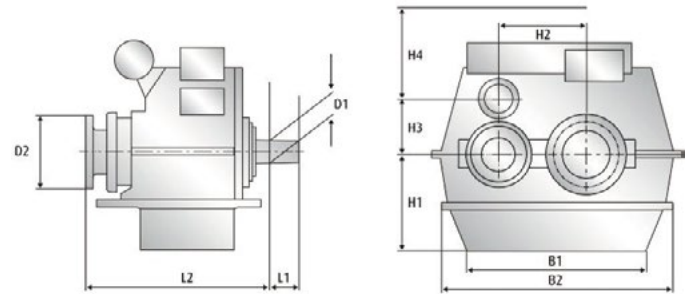


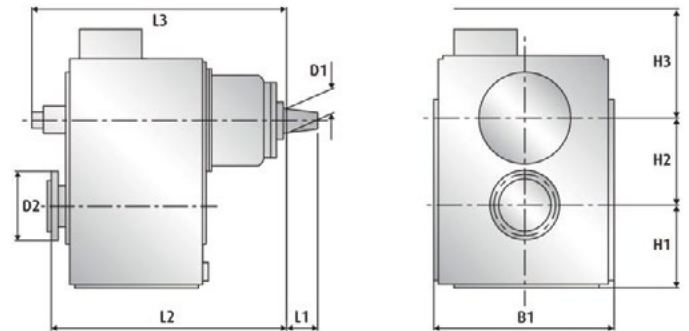
table continued

| Size        | B1   | B2   | H1  | H2  | H3  | H4   | D1  | D2  | L1  | L2   | Oil l | Weight kg |
|-------------|------|------|-----|-----|-----|------|-----|-----|-----|------|-------|-----------|
| <b>4855</b> | 2050 | 2460 | 880 | 900 | 500 | 1300 | 190 | 690 | 266 | 1934 | 650   | 12500     |

## VLJ

Reduction gear for water jet propulsion

- Vertical offset



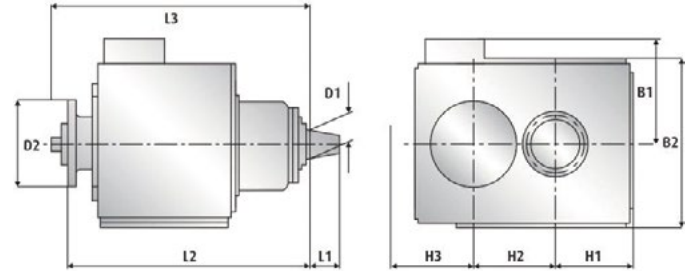
| Size         | B1  | B2 | H1  | H2  | H3  | H4 | D1  | D2  | L1  | L2   | Oil l | Weight kg |
|--------------|-----|----|-----|-----|-----|----|-----|-----|-----|------|-------|-----------|
| <b>430</b>   | 540 | -  | 270 | 235 | 185 | -  | 75  | 220 | 97  | 686  | 28    | 360       |
| <b>730/1</b> | 640 | -  | 325 | 310 | 480 | -  | 92  | 260 | 110 | 795  | 40    | 560       |
| <b>930/1</b> | 720 | -  | 350 | 340 | 500 | -  | 102 | 280 | 120 | 870  | 50    | 740       |
| <b>1930</b>  | 800 | -  | 400 | 390 | 700 | -  | 117 | 330 | 154 | 1032 | 100   | 1150      |
| <b>2230</b>  | 920 | -  | 460 | 460 | 600 | -  | 127 | 390 | 162 | 1150 | 150   | 1600      |

# Main Dimensions

## VLJ

Reduction gear for water jet propulsion

- Horizontal offset

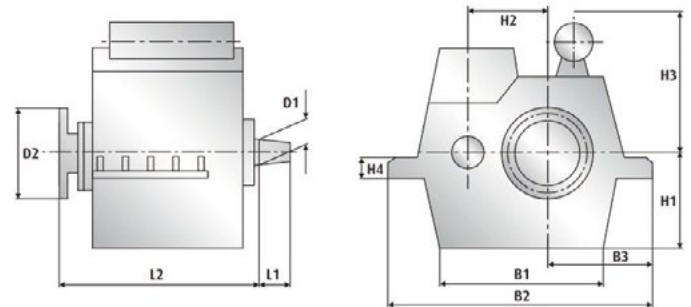


| Size         | B1  | B2  | H1  | H2  | H3  | H4 | D1  | D2  | L1  | L2   | Oil l | Weight kg |
|--------------|-----|-----|-----|-----|-----|----|-----|-----|-----|------|-------|-----------|
| <b>430</b>   | 540 | 550 | 270 | 235 | 185 | -  | 75  | 220 | 97  | 686  | 28    | 360       |
| <b>730/1</b> | 600 | 640 | 325 | 310 | 220 | -  | 92  | 260 | 110 | 795  | 40    | 560       |
| <b>930/1</b> | 680 | 720 | 350 | 340 | 240 | -  | 102 | 280 | 120 | 870  | 50    | 740       |
| <b>1930</b>  | 800 | 830 | 400 | 390 | 280 | -  | 117 | 330 | 154 | 1032 | 100   | 1150      |
| <b>2230</b>  | 760 | 920 | 460 | 460 | 300 | -  | 127 | 390 | 162 | 1150 | 150   | 1600      |

## VLJ

Reduction gear for water jet propulsion

- Horizontal offset



| Size        | B1   | B2   | H1  | H2  | H3   | H4  | D1  | D2  | L1  | L2   | Oil l | Weight kg |
|-------------|------|------|-----|-----|------|-----|-----|-----|-----|------|-------|-----------|
| <b>4431</b> | 1050 | 1750 | 550 | 560 | 800  | 180 | 187 | 550 | 237 | 1600 | 200   | 3500      |
| <b>6831</b> | 1170 | 1690 | 565 | 600 | 900  | 180 | 187 | 600 | 237 | 1500 | 230   | 3600      |
| <b>6841</b> | 1005 | 1945 | 640 | 650 | 1000 | 55  | 187 | 650 | 237 | 1635 | 160   | 4500      |
| <b>7531</b> | 1310 | 1850 | 600 | 630 | 990  | 180 | 197 | 650 | 251 | 1700 | 180   | 4300      |
| <b>7541</b> | 1320 | 1975 | 640 | 665 | 1000 | 60  | 197 | 650 | 251 | 1700 | 180   | 4600      |

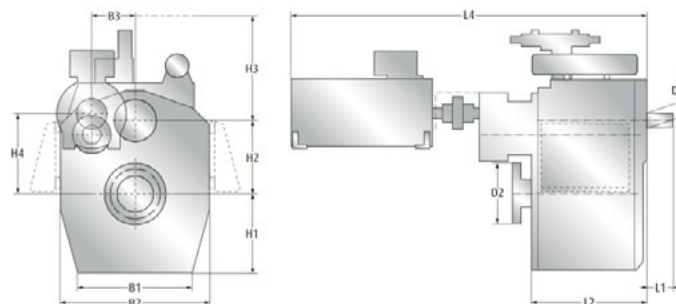
All dimensions, weights and oil quantities are not binding and may differ in custom executions.

# Main Dimensions

## Hybrid System WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset



1) standard gearbox weight 2) weight with E-motor

| Size       | Motor<br>ekW | B1  | B2  | B3  | D1 | D2  | D3 | H1  | H2  | H3  | H4   | H5    | H6   | H7    |
|------------|--------------|-----|-----|-----|----|-----|----|-----|-----|-----|------|-------|------|-------|
|            |              |     |     |     |    |     |    | L1  | L2  | L3  | L4   | kg 1) |      | kg 2) |
| <b>344</b> | <b>HS06</b>  | 570 | 720 | 201 | 60 | 285 | -  | 265 | 250 | 590 | 249  | -     | -    | -     |
|            | 60           |     |     |     |    |     |    | 80  | 644 | -   | 1492 | -     | 1160 |       |
| <b>344</b> | <b>HS10</b>  | 570 | 720 | 201 | 60 | 285 | -  | 265 | 250 | 590 | 249  | -     | -    | -     |
|            | 100          |     |     |     |    |     |    | 80  | 644 | -   | 1712 | -     | 1280 |       |
| <b>364</b> | <b>HS06</b>  | 580 | 750 | 213 | 60 | 325 | -  | 380 | 345 | 590 | 372  | -     | -    | -     |
|            | 60           |     |     |     |    |     |    | 80  | 667 | -   | 1509 | -     | 1310 |       |
| <b>364</b> | <b>HS10</b>  | 580 | 750 | 213 | 60 | 325 | -  | 380 | 345 | 590 | 372  | -     | -    | -     |
|            | 100          |     |     |     |    |     |    | 80  | 667 | -   | 1729 | -     | 1430 |       |
| <b>374</b> | <b>HS06</b>  | 800 | 930 | 216 | 60 | 325 | -  | 460 | 410 | 590 | 448  | -     | -    | -     |
|            | 60           |     |     |     |    |     |    | 80  | 667 | -   | 1509 | -     | 1570 |       |
| <b>374</b> | <b>HS10</b>  | 800 | 930 | 216 | 60 | 325 | -  | 460 | 410 | 590 | 448  | -     | -    | -     |
|            | 100          |     |     |     |    |     |    | 80  | 667 | -   | 1729 | -     | 1690 |       |
| <b>444</b> | <b>HS06</b>  | 493 | 804 | 208 | 75 | 300 | -  | 285 | 270 | 670 | 272  | -     | -    | -     |
|            | 60           |     |     |     |    |     |    | 97  | 721 | -   | 1630 | -     | 1240 |       |
| <b>444</b> | <b>HS10</b>  | 493 | 804 | 208 | 75 | 300 | -  | 285 | 270 | 670 | 272  | -     | -    | -     |
|            | 100          |     |     |     |    |     |    | 97  | 721 | -   | 1850 | -     | 1360 |       |
| <b>464</b> | <b>HS06</b>  | 575 | 800 | 219 | 75 | 325 | -  | 400 | 375 | 670 | 405  | -     | -    | -     |
|            | 60           |     |     |     |    |     |    | 97  | 723 | -   | 1630 | -     | 1435 |       |
| <b>464</b> | <b>HS10</b>  | 575 | 800 | 219 | 75 | 325 | -  | 400 | 375 | 670 | 405  | -     | -    | -     |
|            | 100          |     |     |     |    |     |    | 97  | 723 | -   | 1850 | -     | 1550 |       |

# Main Dimensions

## Hybrid System WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

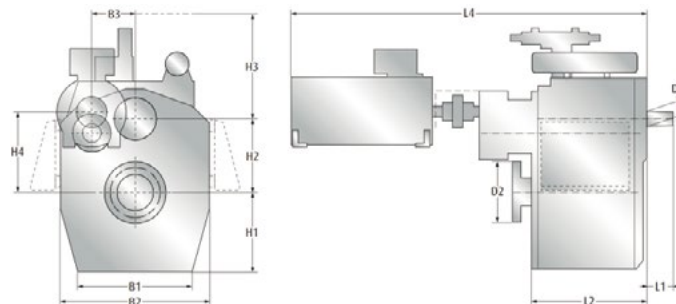


table continued

1) standard gearbox weight 2) weight with E-motor

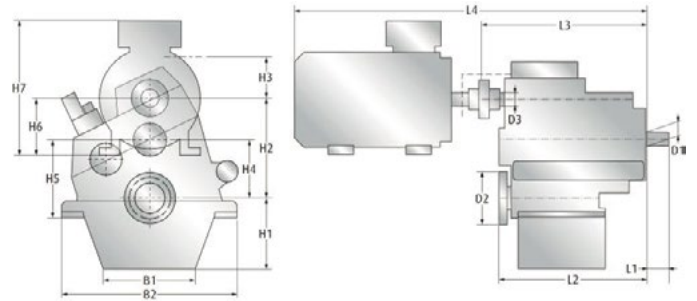
| Size | Motor<br>ekW | B1  | B2   | B3  | D1 | D2  | D3 | H1  | H2  | H3   | H4  | H5    | H6 | H7    |
|------|--------------|-----|------|-----|----|-----|----|-----|-----|------|-----|-------|----|-------|
|      |              |     |      |     |    |     |    | L1  | L2  | L3   | L4  | kg 1) |    | kg 2) |
| 474  | HS06<br>60   | 760 | 1040 | 223 | 75 | 350 | -  | 510 | 460 | 580  | 503 | -     | -  | -     |
|      | 97           |     |      |     |    |     |    | 745 | -   | 1630 | -   | 1910  |    |       |
| 474  | HS10<br>100  | 760 | 1040 | 223 | 75 | 350 | -  | 510 | 460 | 580  | 503 | -     | -  | -     |
|      | 97           |     |      |     |    |     |    | 745 | -   | 1850 | -   | 2030  |    |       |
| 543  | HS06<br>60   | 535 | 840  | 229 | 75 | 325 | -  | 380 | 310 | 735  | 309 | -     | -  | -     |
|      | 97           |     |      |     |    |     |    | 776 | -   | 1748 | -   | 1560  |    |       |
| 543  | HS10<br>100  | 535 | 840  | 229 | 75 | 325 | -  | 380 | 310 | 735  | 309 | -     | -  | -     |
|      | 97           |     |      |     |    |     |    | 776 | -   | 1968 | -   | 1680  |    |       |
| 563  | HS06<br>60   | 570 | 920  | 238 | 75 | 350 | -  | 475 | 410 | 700  | 434 | -     | -  | -     |
|      | 97           |     |      |     |    |     |    | 822 | -   | 1748 | -   | 1850  |    |       |
| 563  | HS10<br>100  | 570 | 920  | 238 | 75 | 350 | -  | 475 | 410 | 700  | 434 | -     | -  | -     |
|      | 97           |     |      |     |    |     |    | 822 | -   | 1968 | -   | 1970  |    |       |
| 573  | HS06<br>60   | 690 | 1080 | 242 | 75 | 375 | -  | 575 | 505 | 590  | 543 | -     | -  | -     |
|      | 97           |     |      |     |    |     |    | 836 | -   | 1748 | -   | 2350  |    |       |
| 573  | HS10<br>100  | 690 | 1080 | 242 | 75 | 375 | -  | 575 | 505 | 590  | 543 | -     | -  | -     |
|      | 97           |     |      |     |    |     |    | 836 | -   | 1968 | -   | 2470  |    |       |

# Main Dimensions

## Hybrid System WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset



1) standard gearbox weight 2) weight with E-motor

| Size       | Motor<br>ekW | B1  | B2   | B3 | D1 | D2  | D3  | H1   | H2   | H3   | H4   | H5    | H6  | H7    |
|------------|--------------|-----|------|----|----|-----|-----|------|------|------|------|-------|-----|-------|
|            |              |     |      |    |    |     |     | L1   | L2   | L3   | L4   | kg 1) |     | kg 2) |
| <b>665</b> | <b>HS20</b>  | 430 | 1160 | -  | 85 | 420 | 80  | 490  | 680  | 250  | 430  | 560   | 315 | 765   |
|            | 101          |     |      |    |    |     |     | 979  | 1085 | 2390 | 2400 | 3600  |     |       |
| <b>665</b> | <b>HS31</b>  | 430 | 1160 | -  | 85 | 420 | 80  | 490  | 680  | 250  | 430  | 560   | 315 | 800   |
|            | 101          |     |      |    |    |     |     | 979  | 1085 | 2555 | 2400 | 4050  |     |       |
| <b>665</b> | <b>HS40</b>  | 430 | 1160 | -  | 85 | 420 | 80  | 490  | 680  | 250  | 430  | 560   | 355 | 990   |
|            | 101          |     |      |    |    |     |     | 979  | 1085 | 2680 | 2400 | 4500  |     |       |
| <b>675</b> | <b>HS20</b>  | 650 | 1480 | -  | 85 | 420 | 80  | 610  | 800  | 250  | 550  | 680   | 315 | 765   |
|            | 101          |     |      |    |    |     |     | 990  | 1085 | 2390 | 3000 | 4200  |     |       |
| <b>675</b> | <b>HS31</b>  | 650 | 1480 | -  | 85 | 420 | 80  | 610  | 800  | 250  | 550  | 680   | 315 | 800   |
|            | 101          |     |      |    |    |     |     | 990  | 1085 | 2555 | 3000 | 4650  |     |       |
| <b>675</b> | <b>HS40</b>  | 650 | 1480 | -  | 85 | 420 | 80  | 610  | 800  | 250  | 550  | 680   | 355 | 990   |
|            | 101          |     |      |    |    |     |     | 990  | 1085 | 2680 | 3000 | 5100  |     |       |
| <b>743</b> | <b>HS20</b>  | 610 | 1160 | -  | 92 | 350 | 100 | 490  | 680  | 300  | 380  | 510   | 315 | 765   |
|            | 107          |     |      |    |    |     |     | 1046 | 1186 | 2490 | 2300 | 3500  |     |       |
| <b>743</b> | <b>HS31</b>  | 610 | 1160 | -  | 92 | 350 | 100 | 490  | 680  | 300  | 380  | 510   | 315 | 800   |
|            | 107          |     |      |    |    |     |     | 1046 | 1186 | 2655 | 2300 | 3950  |     |       |
| <b>743</b> | <b>HS40</b>  | 610 | 1160 | -  | 92 | 350 | 100 | 490  | 680  | 300  | 380  | 510   | 355 | 990   |
|            | 107          |     |      |    |    |     |     | 1046 | 1186 | 2785 | 2300 | 4400  |     |       |
| <b>743</b> | <b>HS50</b>  | 610 | 1160 | -  | 92 | 350 | 100 | 490  | 680  | 300  | 380  | 510   | 355 | 940   |
|            | 107          |     |      |    |    |     |     | 1046 | 1186 | 2895 | 2300 | 4870  |     |       |

All dimensions, weights and oil quantities are not binding and may differ in custom executions.

# Main Dimensions

## Hybrid System WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

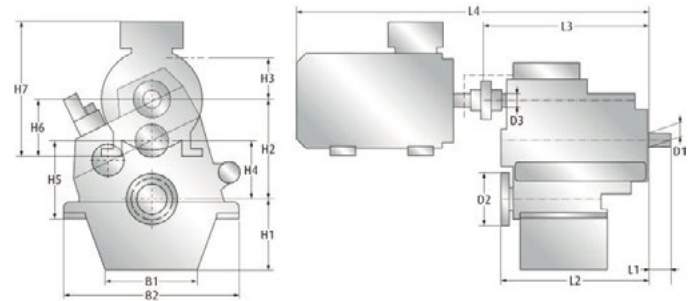


table continued

1) standard gearbox weight 2) weight with E-motor

| Size       | Motor<br>ekW | B1  | B2   | B3 | D1 | D2  | D3  | H1   | H2   | H3   | H4   | H5    | H6  | H7    |
|------------|--------------|-----|------|----|----|-----|-----|------|------|------|------|-------|-----|-------|
|            |              |     |      |    |    |     |     | L1   | L2   | L3   | L4   | kg 1) |     | kg 2) |
| <b>743</b> | <b>HS63</b>  | 610 | 1160 | -  | 92 | 350 | 100 | 490  | 680  | 300  | 380  | 510   | 400 | 970   |
|            | 107          |     |      |    |    |     |     | 1046 | 1186 | 3125 | 2300 | 5610  |     |       |
| <b>763</b> | <b>HS20</b>  | 680 | 1300 | -  | 92 | 375 | 100 | 530  | 790  | 300  | 490  | 630   | 315 | 765   |
|            | 107          |     |      |    |    |     |     | 1047 | 1187 | 2490 | 2800 | 4000  |     |       |
| <b>763</b> | <b>HS31</b>  | 680 | 1300 | -  | 92 | 375 | 100 | 530  | 790  | 300  | 490  | 630   | 315 | 800   |
|            | 107          |     |      |    |    |     |     | 1047 | 1187 | 2655 | 2800 | 4450  |     |       |
| <b>763</b> | <b>HS40</b>  | 680 | 1300 | -  | 92 | 375 | 100 | 530  | 790  | 300  | 490  | 630   | 355 | 990   |
|            | 107          |     |      |    |    |     |     | 1047 | 1187 | 2785 | 2800 | 4900  |     |       |
| <b>763</b> | <b>HS50</b>  | 680 | 1300 | -  | 92 | 375 | 100 | 530  | 790  | 300  | 490  | 630   | 355 | 940   |
|            | 107          |     |      |    |    |     |     | 1047 | 1187 | 2893 | 2800 | 5370  |     |       |
| <b>763</b> | <b>HS63</b>  | 680 | 1300 | -  | 92 | 375 | 100 | 530  | 790  | 300  | 490  | 630   | 400 | 970   |
|            | 107          |     |      |    |    |     |     | 1047 | 1187 | 3125 | 2800 | 6110  |     |       |
| <b>773</b> | <b>HS20</b>  | 790 | 1670 | -  | 92 | 420 | 100 | 680  | 920  | 300  | 620  | 760   | 315 | 765   |
|            | 107          |     |      |    |    |     |     | 1064 | 1204 | 2510 | 3700 | 4900  |     |       |
| <b>773</b> | <b>HS31</b>  | 790 | 1670 | -  | 92 | 420 | 100 | 680  | 920  | 300  | 620  | 760   | 315 | 800   |
|            | 107          |     |      |    |    |     |     | 1064 | 1204 | 2670 | 3700 | 5350  |     |       |
| <b>773</b> | <b>HS40</b>  | 790 | 1670 | -  | 92 | 420 | 100 | 680  | 920  | 300  | 620  | 760   | 355 | 990   |
|            | 107          |     |      |    |    |     |     | 1064 | 1204 | 2800 | 3700 | 5800  |     |       |
| <b>773</b> | <b>HS50</b>  | 790 | 1670 | -  | 92 | 420 | 100 | 680  | 920  | 300  | 620  | 760   | 355 | 940   |
|            | 107          |     |      |    |    |     |     | 1064 | 1204 | 2910 | 3700 | 6270  |     |       |



# Main Dimensions

## Hybrid System WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

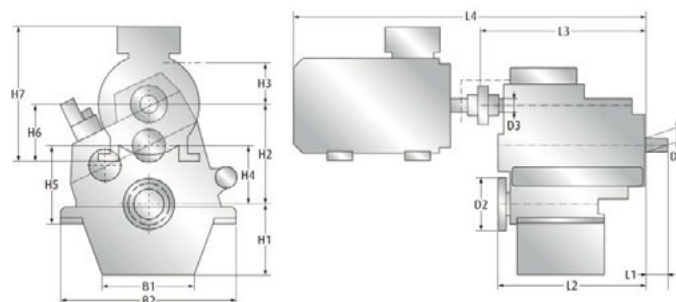


table continued

1) standard gearbox weight 2) weight with E-motor

| Size       | Motor<br>ekW | B1  | B2   | B3 | D1  | D2  | D3  | H1  | H2   | H3   | H4   | H5          | H6   | H7   |
|------------|--------------|-----|------|----|-----|-----|-----|-----|------|------|------|-------------|------|------|
|            |              |     |      |    |     |     |     | L1  | L2   | L3   | L4   | kg 1) kg 2) |      |      |
| <b>773</b> | <b>HS63</b>  | 790 | 1670 | -  | 92  | 420 | 100 | 680 | 920  | 300  | 620  | 760         | 400  | 970  |
|            | 630          |     |      |    |     |     |     | 107 | 1064 | 1204 | 3140 |             | 3700 | 7010 |
| <b>843</b> | <b>HS20</b>  | 680 | 1300 | -  | 107 | 375 | 100 | 530 | 725  | 350  | 425  | 565         | 315  | 765  |
|            | 200          |     |      |    |     |     |     | 142 | 1090 | 1224 | 2530 |             | 2900 | 4100 |
| <b>843</b> | <b>HS31</b>  | 680 | 1300 | -  | 107 | 375 | 100 | 530 | 725  | 350  | 425  | 565         | 315  | 800  |
|            | 315          |     |      |    |     |     |     | 142 | 1090 | 1224 | 2690 |             | 2900 | 4550 |
| <b>843</b> | <b>HS40</b>  | 680 | 1300 | -  | 107 | 375 | 100 | 530 | 725  | 350  | 425  | 565         | 355  | 990  |
|            | 400          |     |      |    |     |     |     | 142 | 1090 | 1224 | 2820 |             | 2900 | 5000 |
| <b>843</b> | <b>HS50</b>  | 680 | 1300 | -  | 107 | 375 | 100 | 530 | 725  | 350  | 425  | 565         | 355  | 940  |
|            | 500          |     |      |    |     |     |     | 142 | 1090 | 1224 | 2930 |             | 2900 | 5470 |
| <b>843</b> | <b>HS63</b>  | 680 | 1300 | -  | 107 | 375 | 100 | 530 | 725  | 350  | 425  | 565         | 400  | 970  |
|            | 630          |     |      |    |     |     |     | 142 | 1090 | 1224 | 3160 |             | 2900 | 6210 |
| <b>863</b> | <b>HS20</b>  | 705 | 1400 | -  | 107 | 420 | 100 | 590 | 840  | 350  | 540  | 690         | 315  | 765  |
|            | 200          |     |      |    |     |     |     | 142 | 1120 | 1254 | 2560 |             | 3600 | 4800 |
| <b>863</b> | <b>HS31</b>  | 705 | 1400 | -  | 107 | 420 | 100 | 590 | 840  | 350  | 540  | 690         | 315  | 800  |
|            | 315          |     |      |    |     |     |     | 142 | 1120 | 1254 | 2720 |             | 3600 | 5250 |
| <b>863</b> | <b>HS40</b>  | 705 | 1400 | -  | 107 | 420 | 100 | 590 | 840  | 350  | 540  | 690         | 355  | 990  |
|            | 400          |     |      |    |     |     |     | 142 | 1120 | 1254 | 2850 |             | 3600 | 5700 |
| <b>863</b> | <b>HS50</b>  | 705 | 1400 | -  | 107 | 420 | 100 | 590 | 840  | 350  | 540  | 690         | 355  | 940  |
|            | 500          |     |      |    |     |     |     | 142 | 1120 | 1254 | 2960 |             | 3600 | 6170 |

All dimensions, weights and oil quantities are not binding and may differ in custom executions.

# Main Dimensions

## Hybrid System WAF

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

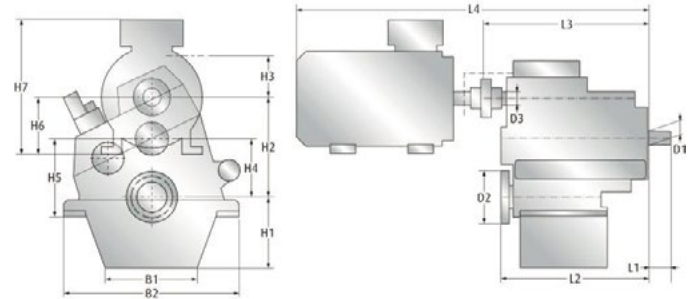


table continued

1) standard gearbox weight 2) weight with E-motor

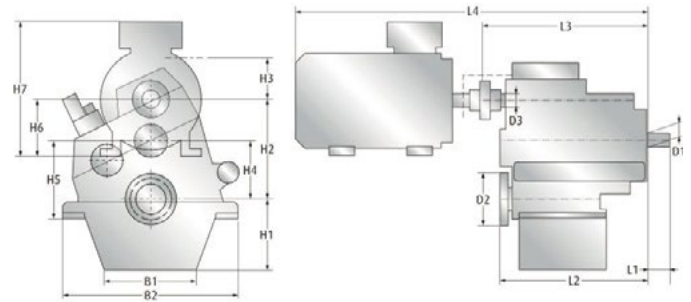
| Size       | Motor<br>ekW       | B1  | B2   | B3 | D1  | D2  | D3  | H1  | H2   | H3   | H4   | H5          | H6  | H7  |
|------------|--------------------|-----|------|----|-----|-----|-----|-----|------|------|------|-------------|-----|-----|
|            |                    |     |      |    |     |     |     | L1  | L2   | L3   | L4   | kg 1) kg 2) |     |     |
| <b>863</b> | <b>HS63</b><br>630 | 705 | 1400 | -  | 107 | 420 | 100 | 590 | 840  | 350  | 540  | 690         | 400 | 970 |
|            |                    |     |      |    |     |     |     | 142 | 1120 | 1254 | 3190 | 3600 6910   |     |     |
| <b>873</b> | <b>HS20</b><br>200 | 860 | 1650 | -  | 107 | 480 | 100 | 750 | 970  | 350  | 670  | 710         | 315 | 765 |
|            |                    |     |      |    |     |     |     | 142 | 1150 | 1284 | 2590 | 4600 5800   |     |     |
| <b>873</b> | <b>HS31</b><br>315 | 860 | 1650 | -  | 107 | 480 | 100 | 750 | 970  | 350  | 670  | 710         | 315 | 800 |
|            |                    |     |      |    |     |     |     | 142 | 1150 | 1284 | 2750 | 4600 6250   |     |     |
| <b>873</b> | <b>HS40</b><br>400 | 860 | 1650 | -  | 107 | 480 | 100 | 750 | 970  | 350  | 670  | 710         | 355 | 990 |
|            |                    |     |      |    |     |     |     | 142 | 1150 | 1284 | 2880 | 4600 6700   |     |     |
| <b>873</b> | <b>HS50</b><br>500 | 860 | 1650 | -  | 107 | 480 | 100 | 750 | 970  | 350  | 670  | 710         | 355 | 940 |
|            |                    |     |      |    |     |     |     | 142 | 1150 | 1284 | 2990 | 4600 7170   |     |     |
| <b>873</b> | <b>HS63</b><br>630 | 860 | 1650 | -  | 107 | 480 | 100 | 750 | 970  | 350  | 670  | 710         | 400 | 970 |
|            |                    |     |      |    |     |     |     | 142 | 1150 | 1284 | 3220 | 4600 7910   |     |     |

# Main Dimensions

## Hybrid System WVS

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset



1) standard gearbox weight 2) weight with E-motor

| Size       | Motor<br>ekW | B1  | B2   | B3 | D1  | D2  | D3  | H1  | H2  | H3   | H4   | H5    | H6   | H7    |
|------------|--------------|-----|------|----|-----|-----|-----|-----|-----|------|------|-------|------|-------|
|            |              |     |      |    |     |     |     | L1  | L2  | L3   | L4   | kg 1) |      | kg 2) |
| <b>430</b> | <b>HS05</b>  | 650 | 1036 | -  | 92  | 260 | 80  | 373 | 560 | 250  | 310  | 340   | 280  | 630   |
|            | 50           |     |      |    |     |     |     | 110 | 893 | 1075 | 1800 | 1000  | 2200 |       |
| <b>430</b> | <b>HS07</b>  | 650 | 1036 | -  | 92  | 260 | 80  | 373 | 560 | 250  | 310  | 340   | 280  | 630   |
|            | 75           |     |      |    |     |     |     | 110 | 893 | 1075 | 1800 | 1000  | 2200 |       |
| <b>730</b> | <b>HS20</b>  | 650 | 1036 | -  | 92  | 260 | 80  | 373 | 560 | 250  | 310  | 340   | 315  | 765   |
|            | 200          |     |      |    |     |     |     | 110 | 893 | 1075 | 2380 | 1000  | 2200 |       |
| <b>730</b> | <b>HS31</b>  | 650 | 1036 | -  | 92  | 260 | 80  | 373 | 560 | 250  | 310  | 340   | 315  | 800   |
|            | 315          |     |      |    |     |     |     | 110 | 893 | 1075 | 2545 | 1000  | 2650 |       |
| <b>730</b> | <b>HS40</b>  | 650 | 1036 | -  | 92  | 260 | 80  | 373 | 560 | 250  | 310  | 340   | 355  | 990   |
|            | 400          |     |      |    |     |     |     | 110 | 893 | 1075 | 2670 | 1000  | 3100 |       |
| <b>930</b> | <b>HS20</b>  | 750 | 1166 | -  | 102 | 280 | 100 | 398 | 620 | 250  | 340  | 385   | 315  | 765   |
|            | 200          |     |      |    |     |     |     | 120 | 961 | 1152 | 2455 | 1300  | 2500 |       |
| <b>930</b> | <b>HS31</b>  | 750 | 1166 | -  | 102 | 280 | 100 | 398 | 620 | 250  | 340  | 385   | 315  | 800   |
|            | 315          |     |      |    |     |     |     | 120 | 961 | 1152 | 2620 | 1300  | 2950 |       |
| <b>930</b> | <b>HS40</b>  | 750 | 1166 | -  | 102 | 280 | 100 | 398 | 620 | 250  | 340  | 385   | 355  | 990   |
|            | 400          |     |      |    |     |     |     | 120 | 961 | 1152 | 2750 | 1300  | 3400 |       |
| <b>930</b> | <b>HS50</b>  | 750 | 1166 | -  | 102 | 280 | 100 | 398 | 620 | 250  | 340  | 385   | 355  | 940   |
|            | 500          |     |      |    |     |     |     | 120 | 961 | 1152 | 2860 | 1300  | 3870 |       |
| <b>930</b> | <b>HS63</b>  | 750 | 1166 | -  | 102 | 280 | 100 | 398 | 620 | 250  | 340  | 385   | 400  | 970   |
|            | 630          |     |      |    |     |     |     | 120 | 961 | 1152 | 3090 | 1300  | 4610 |       |

## Hybrid System WVS

Reverse-reduction gearbox for propulsion with fixed pitch propeller

- Vertical offset

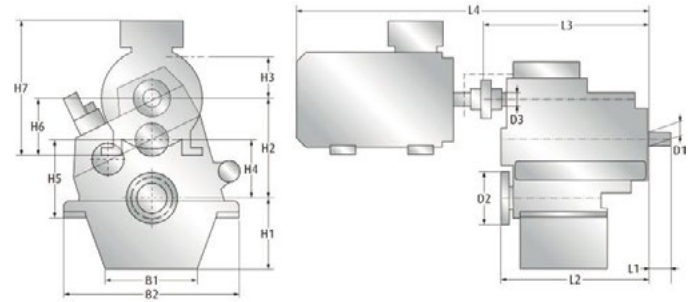


table continued

1) standard gearbox weight 2) weight with E-motor

| Size        | Motor<br>ekW       | B1  | B2   | B3 | D1  | D2  | D3  | H1  | H2   | H3   | H4   | H5          | H6   | H7  |
|-------------|--------------------|-----|------|----|-----|-----|-----|-----|------|------|------|-------------|------|-----|
|             |                    |     |      |    |     |     |     | L1  | L2   | L3   | L4   | kg 1) kg 2) |      |     |
| <b>1540</b> | <b>HS20</b><br>200 | 650 | 1300 | -  | 107 | 330 | 100 | 440 | 690  | 300  | 390  | 405         | 315  | 765 |
|             |                    |     |      |    |     |     |     | 142 | 1065 | 1179 | 2485 | 1800        | 3000 |     |
| <b>1540</b> | <b>HS31</b><br>315 | 650 | 1300 | -  | 107 | 330 | 100 | 440 | 690  | 300  | 390  | 405         | 315  | 800 |
|             |                    |     |      |    |     |     |     | 142 | 1065 | 1179 | 2645 | 1800        | 3450 |     |
| <b>1540</b> | <b>HS40</b><br>400 | 650 | 1300 | -  | 107 | 330 | 100 | 440 | 690  | 300  | 390  | 405         | 355  | 990 |
|             |                    |     |      |    |     |     |     | 142 | 1065 | 1179 | 2775 | 1800        | 3900 |     |
| <b>1540</b> | <b>HS50</b><br>500 | 650 | 1300 | -  | 107 | 330 | 100 | 440 | 690  | 300  | 390  | 405         | 355  | 940 |
|             |                    |     |      |    |     |     |     | 142 | 1065 | 1179 | 2885 | 1800        | 4370 |     |
| <b>1540</b> | <b>HS63</b><br>630 | 650 | 1300 | -  | 107 | 330 | 100 | 440 | 690  | 300  | 390  | 405         | 400  | 970 |
|             |                    |     |      |    |     |     |     | 142 | 1065 | 1179 | 3115 | 1800        | 5110 |     |



# Main Dimensions

## Hybrid ready gearboxes

- Hybrid ready gearboxes based on standard gearboxes WAF, WVS
- For available standard types and sizes see table:

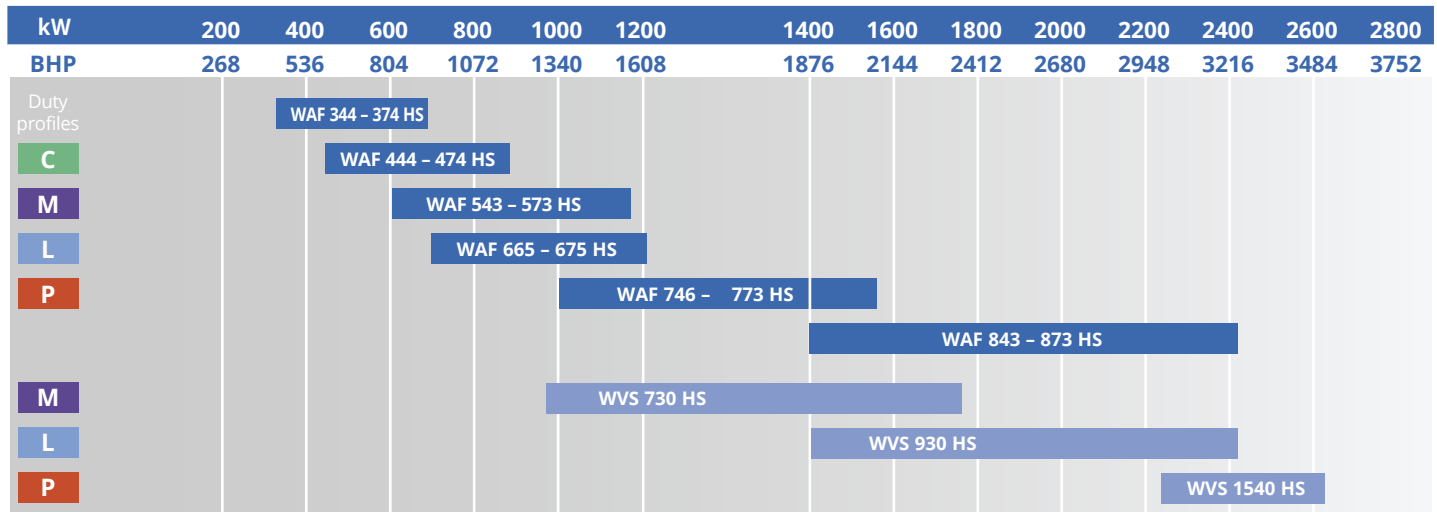
|              | Gearbox type* |       |
|--------------|---------------|-------|
|              | WAF/LAF       | WVS   |
| Gearbox Size | 344 - 573     | 730/1 |
|              | 665 - 1143    | 930/1 |
|              | -             | 1540  |

- Main ratio based on basic gearbox
- For Power/speed ratios please refer to basic gearbox
- Additional sizes/types on request
- Related electric motor and frequency converter as a system available on request
- Electrical power >630 ekW available on request
- For PTI or PTI + Boost or PTI/PTO or PTI/PTO + Boost

\* WAF = cast iron  
WVS = aluminium

## Hybrid Systems

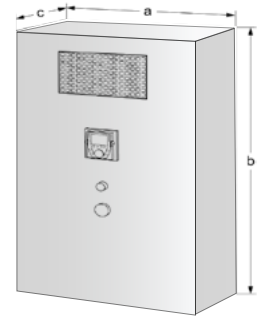
- Hybrid system consists of gearbox, electric motor, frequency converter
- System is compatible with various electric grids and configurable for different applications
- PTI – PTO – PTH – Boost mode separately and combinations thereof
- Electric power available from 60 to 630 kW





# Main Dimensions

## Frequency Converter



| Hybrid System |              | Converter 1 (PTI/Booster) |         |         |              | Converter 2 (PTO/PTI/Booster) |         |         |              |
|---------------|--------------|---------------------------|---------|---------|--------------|-------------------------------|---------|---------|--------------|
| Type          | Motor<br>ekW | a<br>mm                   | b<br>mm | c<br>mm | Weight<br>kg | a<br>mm                       | b<br>mm | c<br>mm | Weight<br>kg |
| <b>HS06</b>   | 60           | 555                       | 1000    | 325     | 100          | 555                           | 1800    | 600     | 180          |
| <b>HS10</b>   | 100          | 600                       | 1600    | 500     | 190          | 600                           | 1800    | 600     | 320          |
| <b>HS20</b>   | 200          | 600                       | 1800    | 500     | 260          | 600                           | 1800    | 600     | 470          |
| <b>HS31</b>   | 315          | 1000                      | 2000    | 600     | 420          | 1000                          | 2050    | 600     | 840          |
| <b>HS40</b>   | 400          | 1200                      | 2050    | 600     | 800          | 1200                          | 2050    | 600     | 1400         |
| <b>HS50</b>   | 500          | 1200                      | 2050    | 600     | 830          | 1200                          | 2050    | 600     | 1500         |
| <b>HS63</b>   | 630          | 1600                      | 2050    | 600     | 1100         | 1600                          | 2050    | 600     | 1750         |

## Two speed gearboxes

- Two speed gearboxes based on standard gearboxes WAF, WVS, SVAL
- For available standard types and sizes see table:

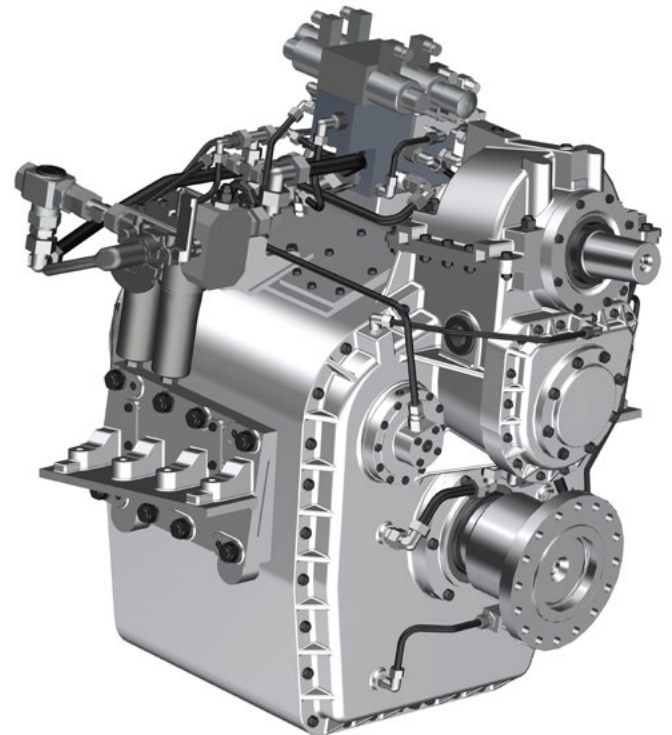
|              | Gearbox type |       |         |         |
|--------------|--------------|-------|---------|---------|
|              | ZWAF         | ZWVS  | ZSVAL   | ZWVSA U |
| Gearbox Size | 264          | 440   | 865-22  | 440     |
|              | 364          | 730/1 | 950-77  |         |
|              | 563          | 930/1 | 1120-99 |         |
|              | 665          |       |         |         |
|              | 743          |       |         |         |
|              | 763          |       |         |         |
|              | 843          |       |         |         |
|              | 863          |       |         |         |

- Main ratio based on basic gearbox
- Difference between main gear and 2nd gear: max. 15%
- Dimensioning of second gear acc. to customer/ on request
- For Power/speed ratios please refer to basic gearbox
- Additional sizes/types on request

## ZWVSA 440 U

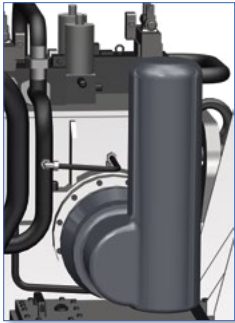
Technical Data:

- Offset: U-drive
- Main gearbox ratio: 3.469 (other ratios available on request)
- Gearbox ratio 2. gear: 3.083
- Sense of rotation input side: counter-clockwise
- Sense of rotation output: clockwise
- Control valve: electrical
- Engine type: admissible engine rating range (550 to 1,300 kW)
- Admissible power/speed ratio: 0.54 kW/rpm
- Gearbox foundation: rigid/resilient on request



## A LAF Gear with Special Features\* (Example)

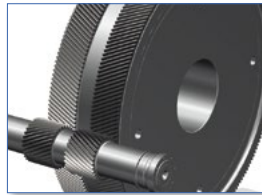
\*Available on request for other gears



### Turn Drive

The turn drive allows turning the propeller shaft even when the main engine is standing still, e.g. for maintenance work.

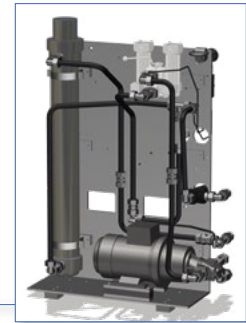
- Operation with a control panel and with a remote control
- Current status can be monitored and visualised with the LOP



### Double Helical Tothing



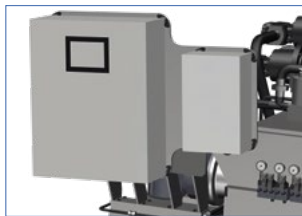
### Resilient Mounting of Gearbox and Accessories



### Oil Pre-Heater

The oil pre-heater heats up the oil to a temperature of > 25 °C.

- Manual and automatic operation are both possible
- Current status can be monitored and visualised with the LOP

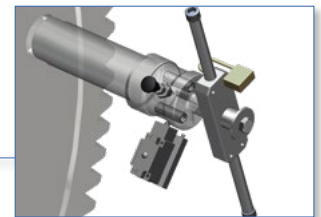
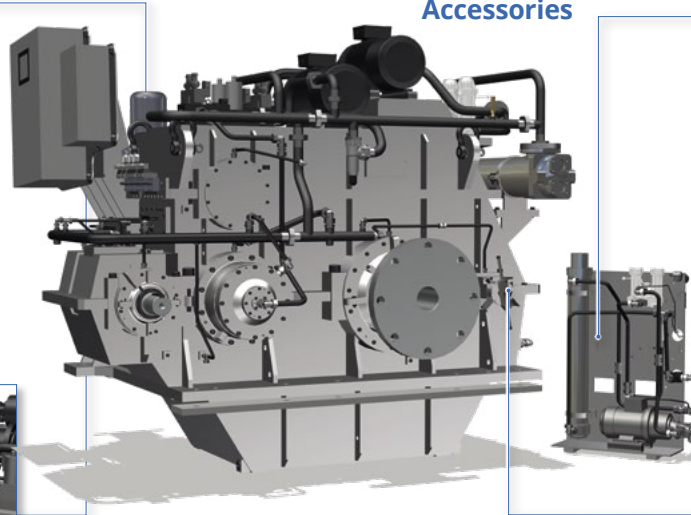


### Local Operating Panel (LOP)

The LOP can be used for various purposes including:

- Control of the clutch(es)
- Control of electric oil pumps
- Monitoring alarms, operating conditions, and values such as pressure, speed etc.
- Operation of special equipment such as turn drive, shaft locking device, and oil pre-heater

The LOP control cabinet comes with a TFT display with a customised menu structure.



### Shaft Locking Device

With the shaft locking device the propeller shaft can be mechanically locked and therefore be secured in its position.

- Spring-loaded
- Easy-to-operate
- Current status can be monitored and visualised with the LOP

### De-Humidifier

Drying of incoming air

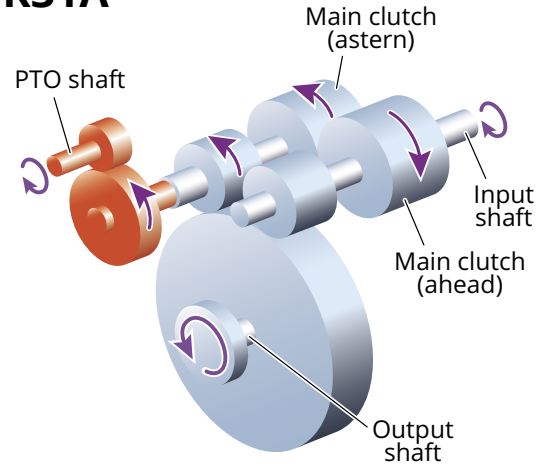
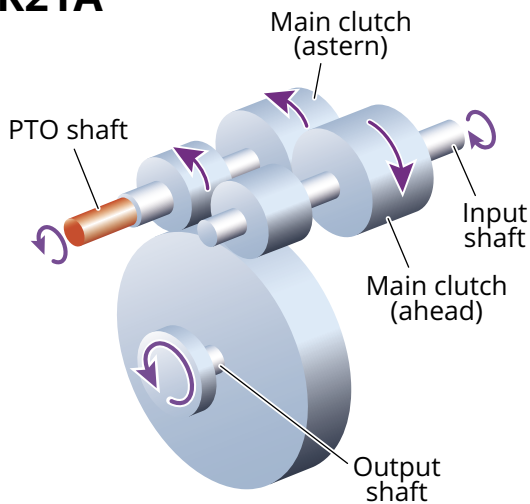
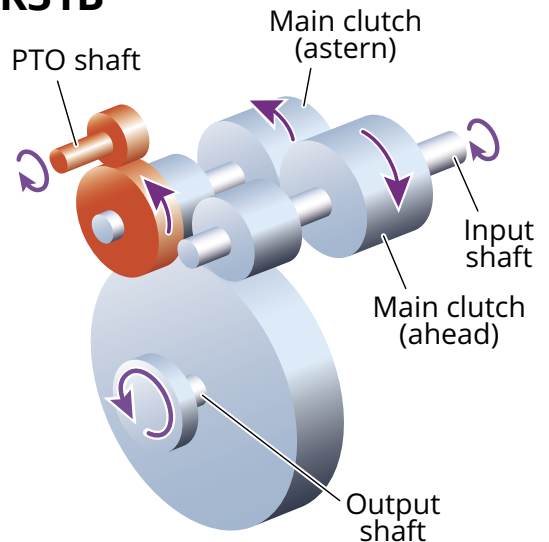
- Oil level in gear decrease
- Moist air will be sucked in
- Valves opens at 5 mbar
- Incoming air will be dried
- Silica gel changes color from orange to green
- Incoming air will be cleaned



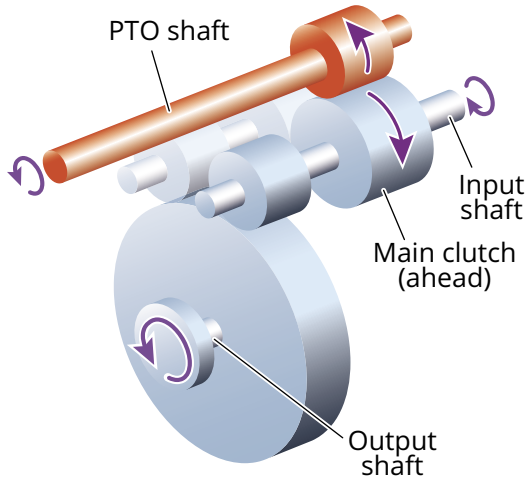
**Functional matrix**

| PTO Type | Primary arrangement | Secondary arrangement | Controllable | PTO speed identical to engine speed | PTO speed different to engine speed (ratio $i \neq 1$ ) |
|----------|---------------------|-----------------------|--------------|-------------------------------------|---|
| K21 A    | X                   | -                     | -            | X                                   | -   |
| K31 A    | X                   | -                     | -            | -                                   | X   |
| K31 B    | -                   | X                     | -            | -                                   | X   |
| K41 A    | X                   | -                     | -            | -                                   | X   |
| K41 B    | -                   | X                     | -            | -                                   | X   |
| K51 A    | X                   | -                     | X            | -                                   | X   |
| K51 B    | -                   | X                     | X            | -                                   | X   |

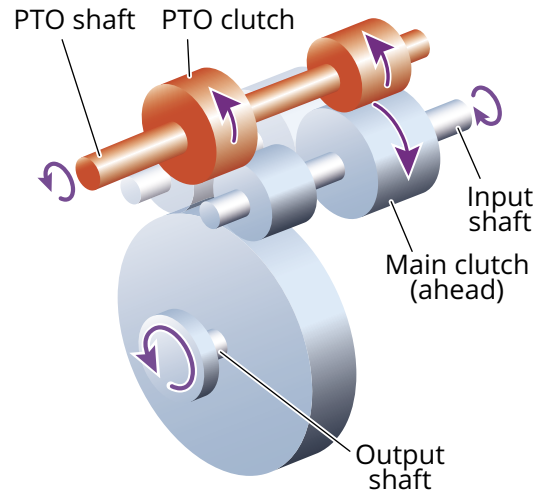
All PTOs of bidirectional type (CCW-CW).  
Further PTO arrangements on request.

**K31A**

**K21A**

**K31B**


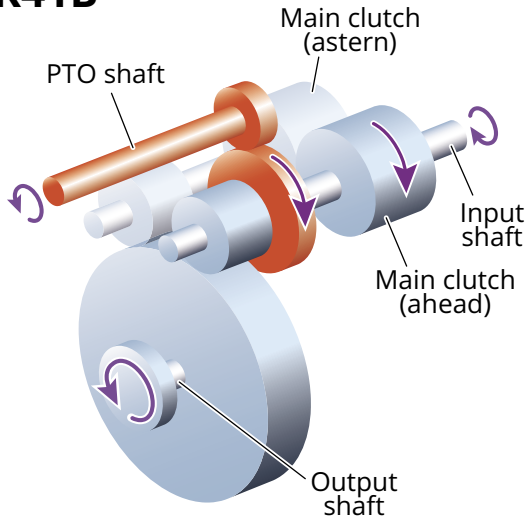
### K41A



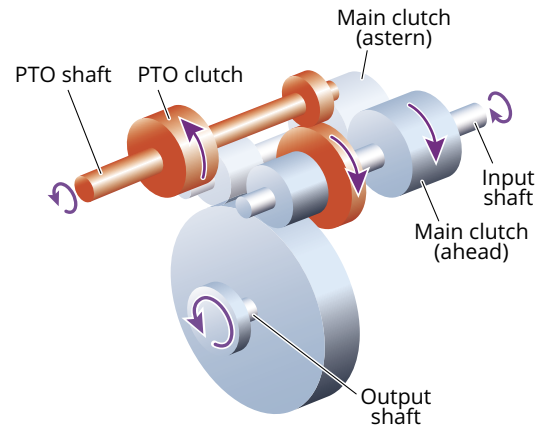
### K51A



### K41B



### K51B



## Technical Availability

- For standard PTO: refer to pages 20 – 25
- Primary PTO „A“: Aux drive turns, even if propeller not engaged
- Secondary PTO „B“: Aux drive turns only if propeller engaged
- Additional PTO-, PTI-, PTH functions on request
- Two speed PTI/PTH on request
- Additional pump drives on request

| PTO Type | WAF 164 | WAF 244 – 474 | WF 350 – 580 | WAF 542 – 573 | WAF/LAF 665 – 675 | WAF/LAF 743 – 1973 |  | WAF/LAF 2346 – 7770 | WVS 234 – 2240 | VLJ | DLG | SVA | SVAL | VA |
|----------|---------|---------------|--------------|---------------|-------------------|--------------------|--|---------------------|----------------|-----|-----|-----|------|----|
| K21 A    | X       | X             | X            | X             | X                 | X                  |  | -                   | X              | -   | -   | -   | -    | -  |
| K31 A    | -       | -             | X            | X             | X                 | X                  |  | -                   | X              | X   | -   | -   | -    | -  |
| K31 B    | -       | X             | X            | X             | X                 | -                  |  | -                   | -              | -   | -   | -   | -    | -  |
| K41 A    | -       | -             | -            | -             | -                 | X                  |  | X                   | -              | -   | X   | -   | X    | -  |
| K41 B    | -       | -             | -            | -             | X                 | -                  |  | X                   | -              | -   | X   | X   | X    | X  |
| K51 A    | -       | -             | -            | -             | -                 | X                  |  | X                   | -              | -   | X   | -   | X    | -  |
| K51 B    | -       | -             | -            | -             | X                 | -                  |  | X                   | -              | -   | X   | X   | X    | X  |





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