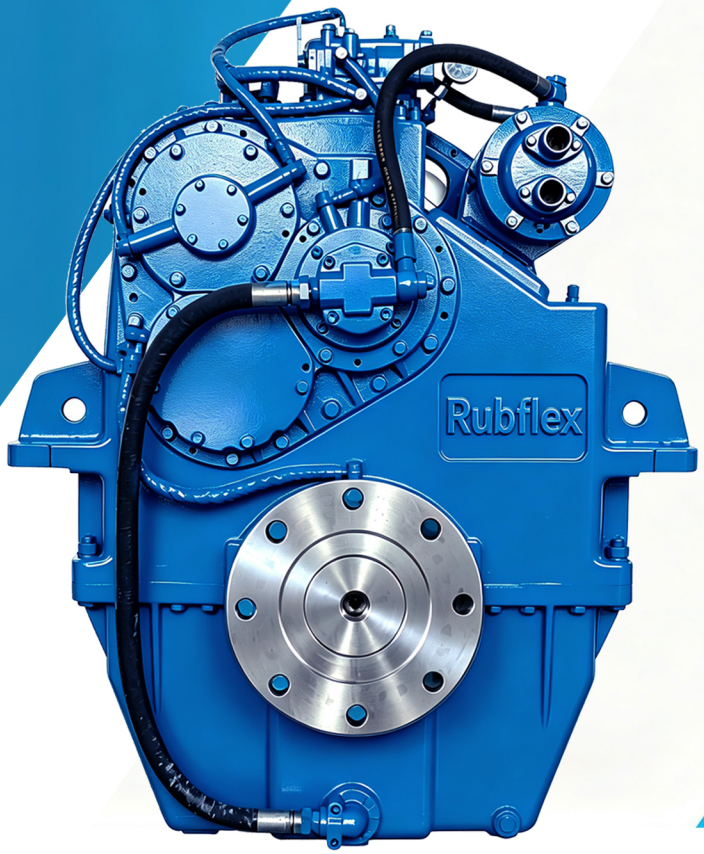
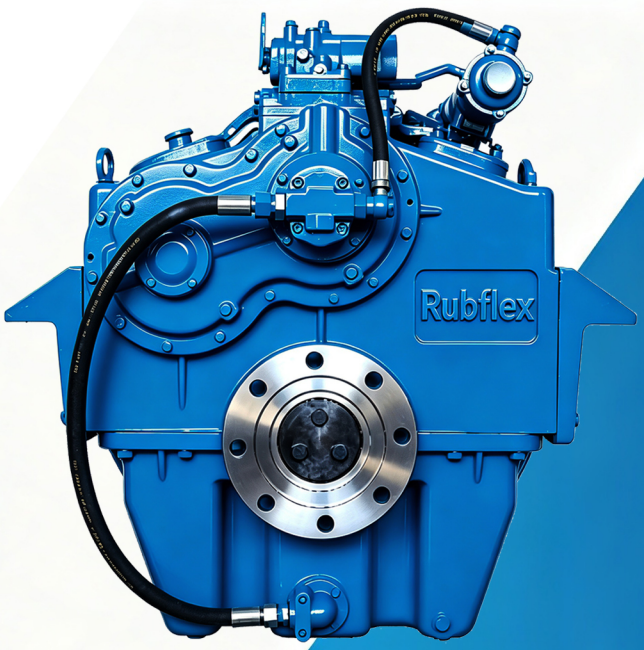
Rubflex





Power Transmission Solutions

Gearbox Selection Guidelines

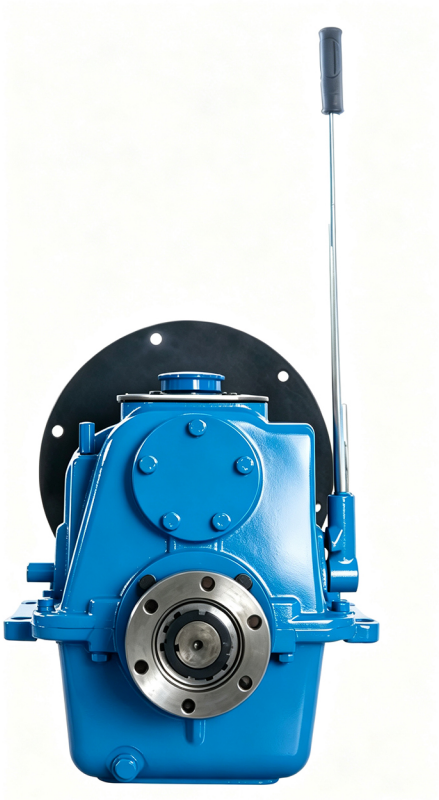
The gearbox features functions of ahead-astern rotation, clutch engagement-disengagement, speed reduction and thrust bearing capacity. When matched with the main engine, it forms a marine power unit.

The "transmitting capacity" specified in this manual refers to the ratio between the engine's continuous power and its rated speed. The reduction ratio corresponds to the transmitting capacity; the actual value for application shall be lower than the value given in the manual. We provide customers with one-year after-sales service, and the scope of after-sales service will be fully communicated to customers prior to type selection.

Rigid connection between the gearbox and engine shafting is prohibited. It is recommended to mount the supports on the same rigid foundation. If the engine is fitted on flexible mounts while the gearbox is installed on a rigid foundation, please contact our technical department for selection of a suitable high-elastic coupling.

Weights are approximate values and vary with different reduction ratios.

Due to continuous upgrading of marine machinery equipment, the technical parameters are for reference only. Our company will provide detailed type-selection guidance upon your selection requirement.



R06 Gearbox

Input speed(r/min):1000rpm～2100rpm

Reduction Ratio(i)	Rate(kw/rpm)
2 2.52 3.05 3.5	0.004

Rated propeller thrust：1.8KN
Bellhousing：195C
Flywheel：195C
L*W*H：350*316*482mm
Options/Comments：Mechanical-joint clutch
Centre distance:124mm
Net weight：58kg



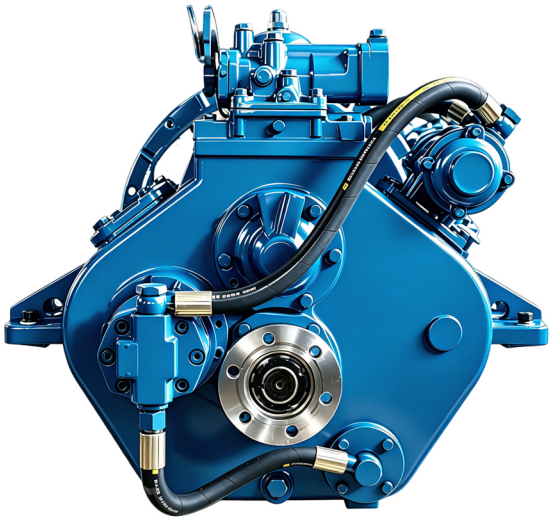
R16A Gearbox

Input speed(r/min):1000rpm～2100rpm

Reduction Ratio(i)	Rate(kw/rpm)
2.07 2.48 2.95 3.35 3.83	0.012

Rated propeller thrust：3.5KN
Bellhousing：SAE3 SAE4
Flywheel：SAE11.5 SAE10
L*W*H：422*325*563mm
Options/Comments：Mechanical-joint clutch
Centre distance:135mm
Net weight：84kg

R40A Gearbox



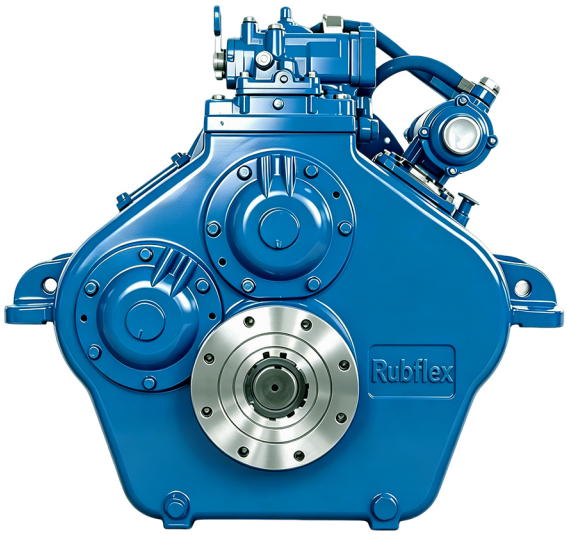
Input speed(r/min):750rpm～2000rpm

Reduction Ratio(i)	Rate(kw/rpm)
1 1.25 1.5 2.07 2.5 2.96	0.029
3.44	0.023
3.83	0.02

Rated propeller thrust：8.8KN
Bellhousing：4110C SAE1 SAE2 SAE3
Flywheel：4110C SAE14 SAE11.5
L*W*H：490*670*620mm
Options/Comments：Mechanical
Centre distance:142mm
Net weight：225kg

R120B Gearbox

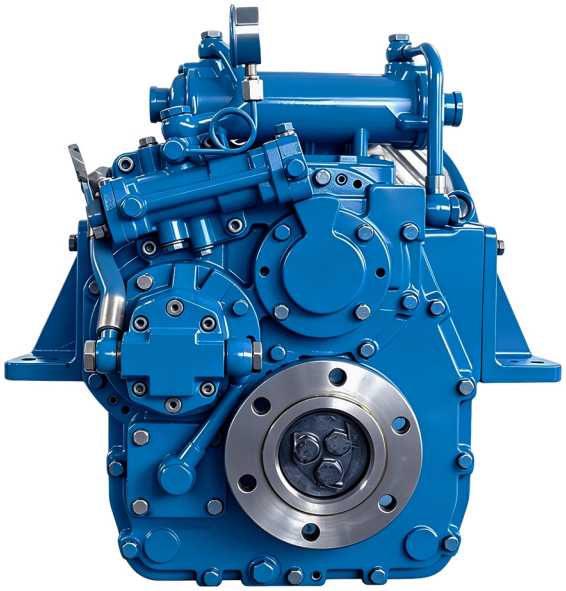
Input speed(r/min):750rpm～1800rpm



Reduction Ratio(i)	Rate(kw/rpm)
1 1.25 1.5 1.68 2.03 2.5 2.81	0.088
3.5 3.73	0.044

Rated propeller thrust：25KN
Bellhousing：6135Ca 4120 SAE1
Flywheel：6135Ca 4120 SAE14
L*W*H：605*744*770mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:190mm
Net weight：400kg

R120C Gearbox



Input speed(r/min):1000rpm～2500rpm

Reduction Ratio(i)	Rate(kw/rpm)
1.2 1.25 1.48 1.7 1.94 2.45	0.1
2.96	0.09
3.35	0.08
4	0.06

Rated propeller thrust：25KN

Bellhousing：6135Ca SAE1 SAE2 SAE3

Flywheel：6135C SAE14 SAE11.5

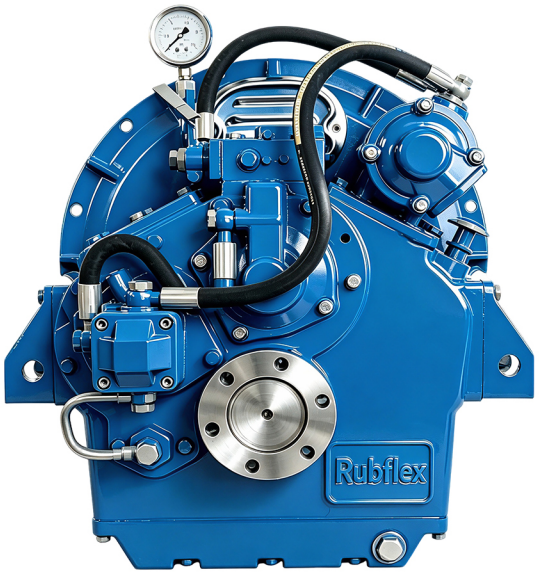
L*W*H：432*440*650mm

Options/Comments：Mechanical
Electrical remote control

Centre distance:180mm

Net weight：225kg

RMA125 Gearbox



Input speed(r/min):1500rpm～3000rpm

Reduction Ratio(i)	Rate(kw/rpm)
2.03 2.46	0.02
3.04	0.018
3.57	0.016
4.05	0.014
4.39	0.013
4.7	0.011

Rated propeller thrust：5.5KN

Bellhousing：SAE2 SAE3 SAE4

Flywheel：SAE11.5 SAE10

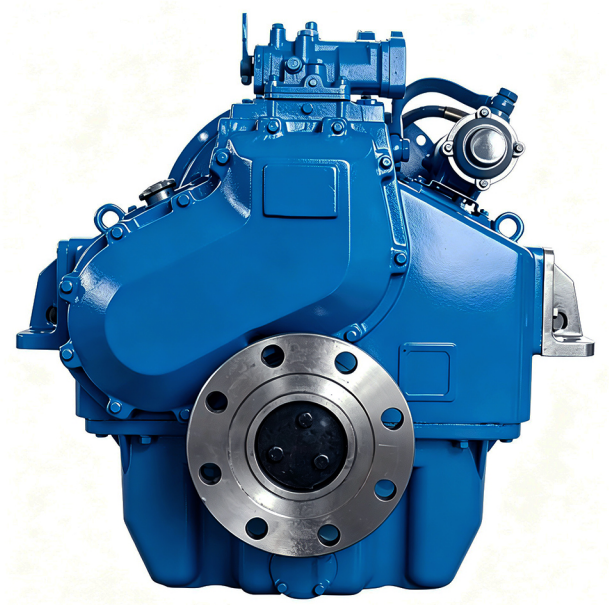
L*W*H：291*454*485mm

Options/Comments：Mechanical

Centre distance:125mm

Net weight：115kg

R135/135A Gearbox



Input speed(r/min):750rpm～2000rpm

Reduction Ratio(i)	Rate(kw/rpm)
1.5 2.03 2.59 3.04 3.62 4.11	0.1
4.65	0.093
5.06	0.088
5.47	0.077
5.81	0.07

Rated propeller thrust：29.4KN

Bellhousing：6135Ca SAE1 Without bell housing

Flywheel：6135Ca SAE14 SAE11.5

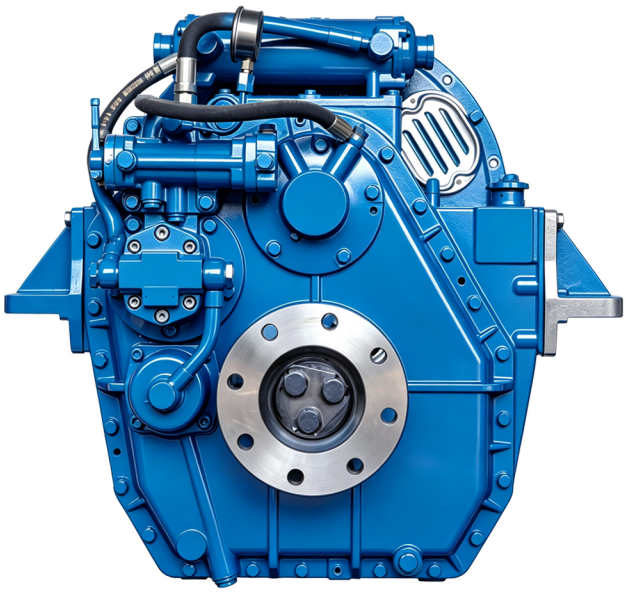
L*W*H：578*792*830mm

Options/Comments：Mechanical
Electrical remote control

Centre distance:225mm

Net weight：470kg

R138 Gearbox



Input speed(r/min):1000rpm～2500rpm

Reduction Ratio(i)	Rate(kw/rpm)
2 2.52 3 3.57 4.05 4.45	0.11

Rated propeller thrust：30KN

Bellhousing：6135Ca SAE1 SAE2 SAE3
Without bell housing

Flywheel：6135Ca SAE14 SAE11.5

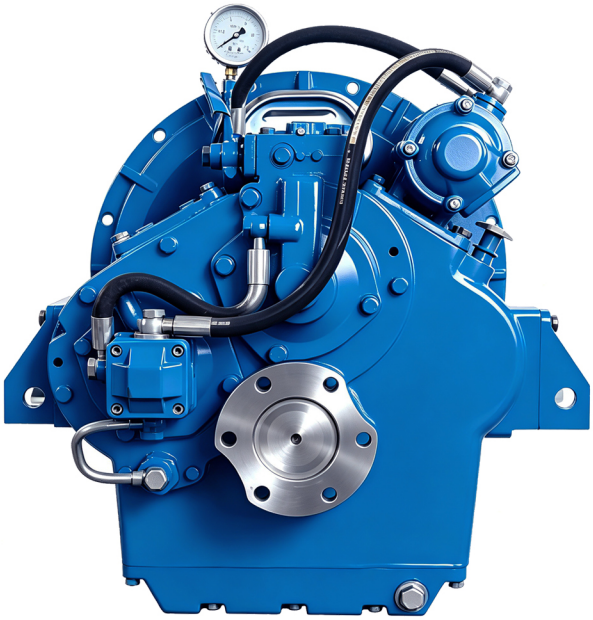
L*W*H：520*792*760mm

Options/Comments：Mechanical
Electrical remote control

Centre distance:125mm

Net weight：360kg

RMA142 Gearbox

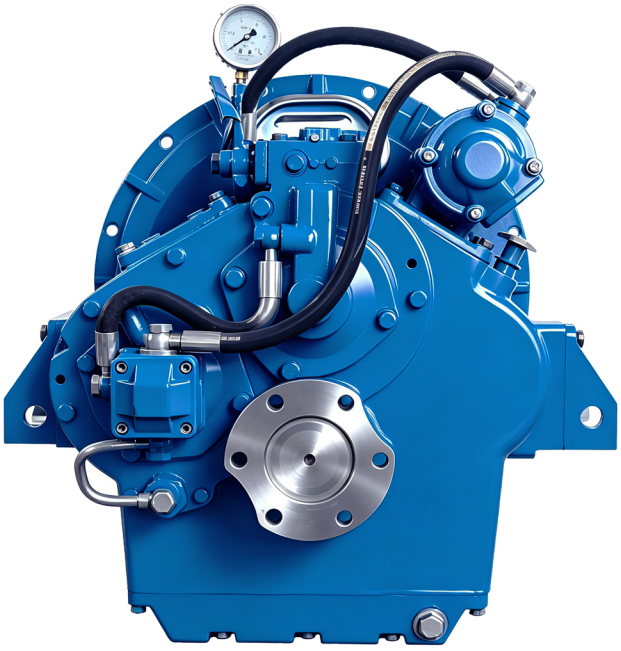


Input speed(r/min):1500rpm～2500rpm

Reduction Ratio(i)	Rate(kw/rpm)
1.97 2.52 3.03	0.03
3.54	0.026
3.95	0.023
4.5	0.019
5.06	0.016
5.47	0.013

Rated propeller thrust：8.5KN
Bellhousing：SAE2 SAE3
Flywheel：SAE11.5 SAE10
L*W*H：308*520*540mm
Options/Comments：Mechanical
Centre distance:142mm
Net weight：140kg

RMB170 Gearbox

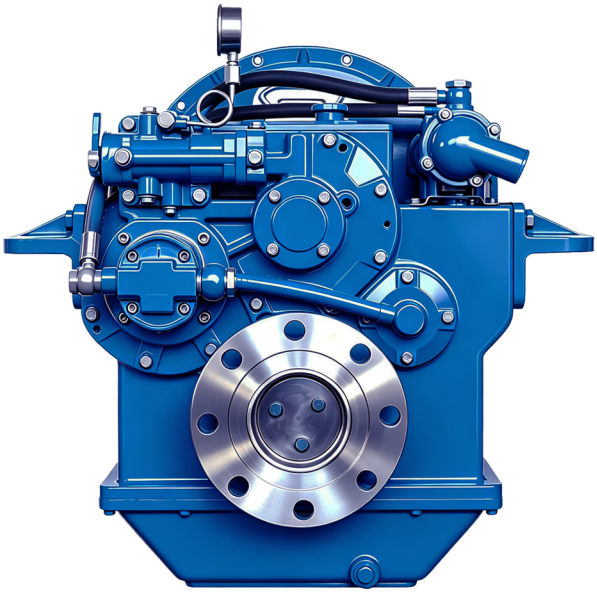


Input speed(r/min):1500rpm～2500rpm

Reduction Ratio(i)	Rate(kw/rpm)
1.97 2.52 3.04 3.54 3.96	0.039
4.5 5.06	0.031
5.47 5.88	0.027

Rated propeller thrust：16KN
Bellhousing：4135Ca SAE1 SAE2 SAE3
Flywheel：4135Ca SAE14 SAE11.5 SAE10
L*W*H：510*670*656mm
Options/Comments：Mechanical
Centre distance:170mm
Net weight：240kg

RMB242 Gearbox



Input speed(r/min):1000rpm～2500rpm

Reduction Ratio(i)	Rate(kw/rpm)
2 2.54 3.04 3.52 3.95 4.53	0.103
5.12	0.1
5.56	0.094
5.88	0.074

Rated propeller thrust：30KN

Bellhousing：SAE1 SAE2 SAE3 6135

Flywheel：SAE14 SAE11.5 6135

L*W*H：442*744*763mm

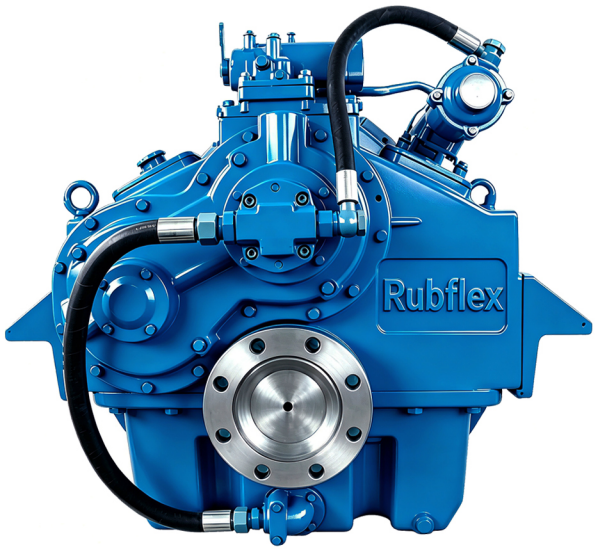
Options/Comments：Mechanical

Electrical remote control

Centre distance:242mm

Net weight：385kg

R300 Gearbox



Input speed(r/min):750rpm～2500rpm

Reduction Ratio(i)	Rate(kw/rpm)
1.09 1.18 1.25 1.28 1.5 1.68 2.04 2.54	0.257
3	0.243
3.53	0.221
4.1 4.47	0.184
4.94	0.147
5.44 6	0.125

Rated propeller thrust：50KN

Bellhousing：12V 135 12V 150 SAE0 SAE1

Flywheel：12V 135 12V 150 SAE18 SAE16 SAE14

L*W*H：786*930*864mm

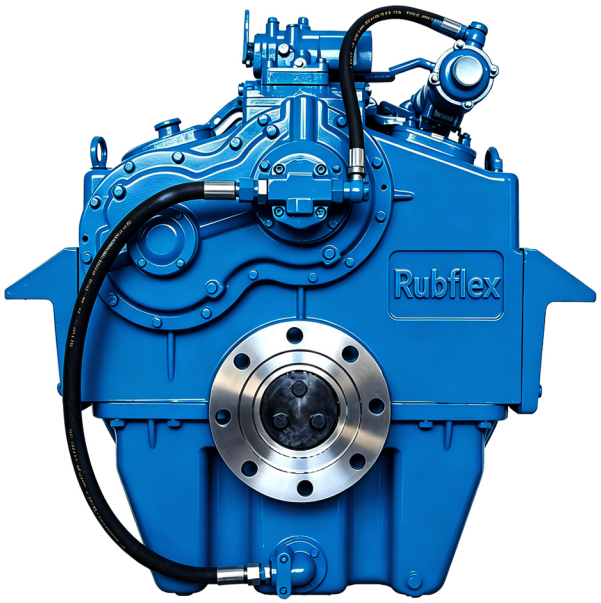
Options/Comments：Mechanical

Electrical remote control

Centre distance:264mm

Net weight：740kg

RD300(A) Gearbox

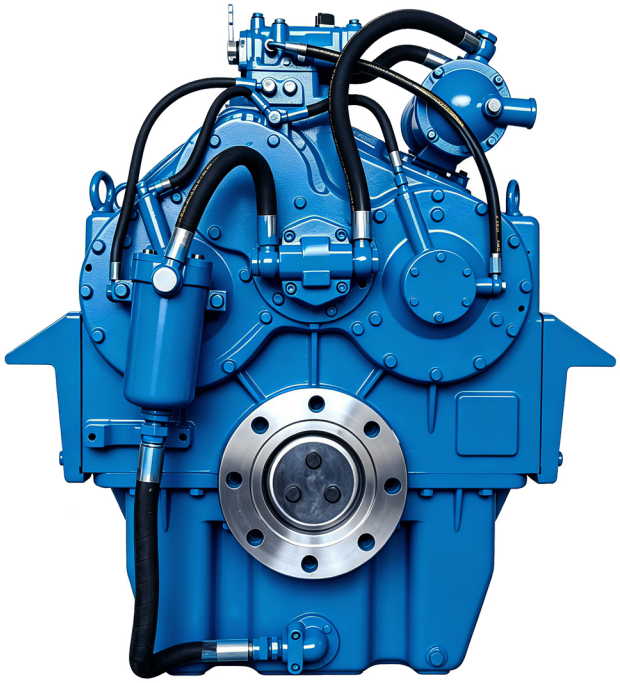


Input speed(r/min):1000rpm～2500rpm

Reduction Ratio(i)	Rate(kw/rpm)
3 3.5 4	0.257
4.48	0.243
5.05	0.221
5.52 5.9 6.56	0.184
7.06	0.147
7.63	0.125

Rated propeller thrust：60KN
Bellhousing：12V 135 SAE0 SAE1
Flywheel：12V 135 SAE18 SAE16 SAE14
L*W*H：786*1010*1041mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:355mm
Net weight：940kg

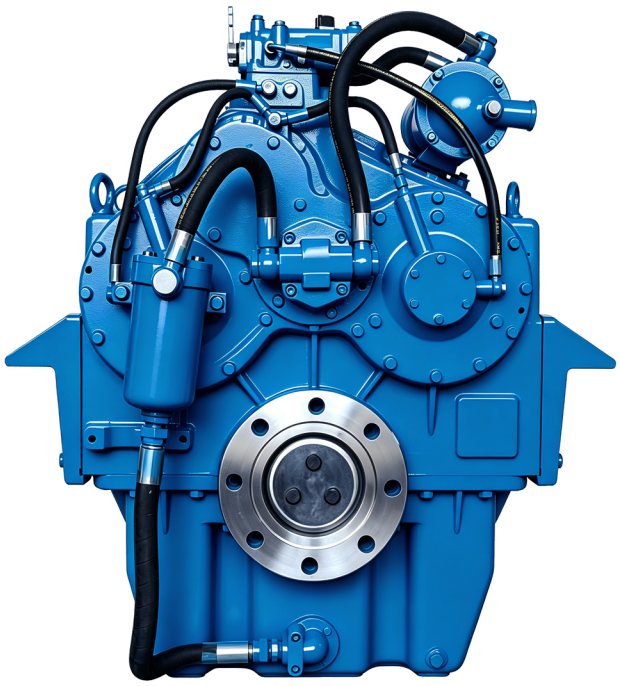
RT300 Gearbox



Input speed(r/min):1000rpm～2300rpm

Reduction Ratio(i)	Rate(kw/rpm)
4.95 5.51 6.03 6.65 7.04	0.243
7.54 8.02	0.221
8.47	0.2

Rated propeller thrust：70KN
Bellhousing：SAE0 SAE1
Flywheel：SAE18 SAE16 SAE14
L*W*H：772*980*1106mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:355mm
Net weight：1120kg

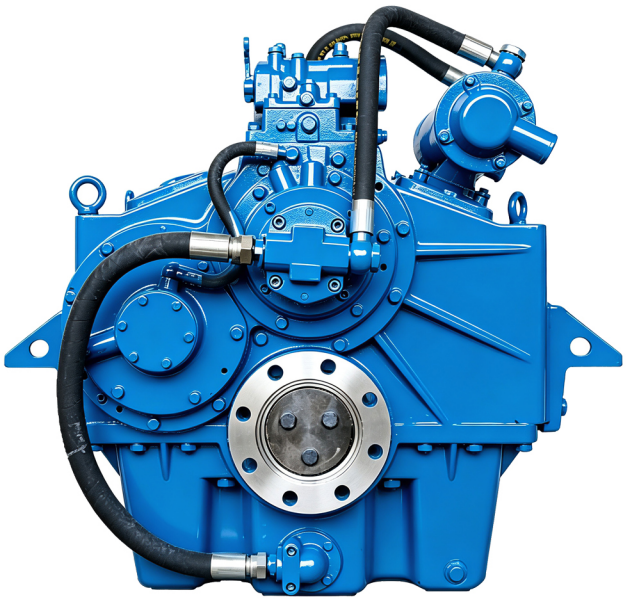


RT300-1 Gearbox

Input speed(r/min):1000rpm～2300rpm

Reduction Ratio(i)	Rate(kw/rpm)
8.94 9.45 10.05	0.196

Rated propeller thrust：70KN
Bellhousing：SAE0 SAE1
Flywheel：SAE18 SAE16 SAE14
L*W*H：772*980*1106mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:355mm
Net weight：1120kg



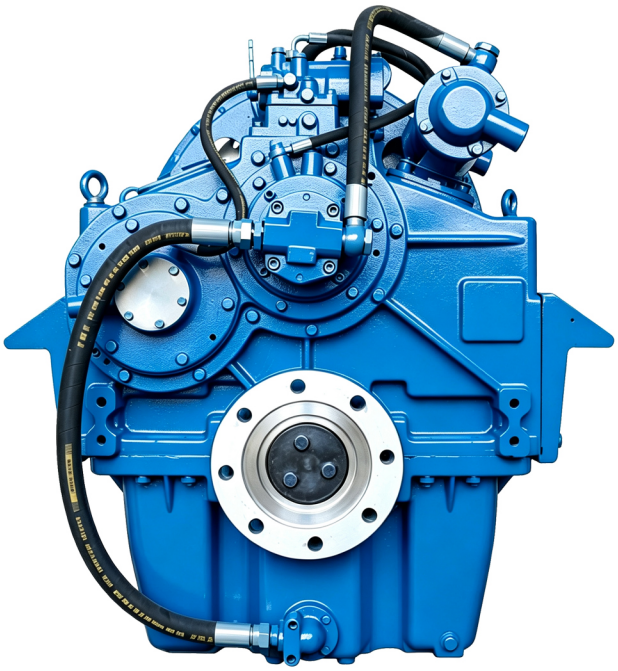
R400 Gearbox

Input speed(r/min):1000rpm～1800rpm

Reduction Ratio(i)	Rate(kw/rpm)
1.18 1.25 1.28 1.5 1.68 1.77 2.04 2.5 3 3.42	0.331
4.06	0.279
4.61 4.94	0.19

Rated propeller thrust：82KN
Bellhousing：SAE0 SAE1
Flywheel：SAE18 SAE16 SAE14
L*W*H：631*1010*890mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:246mm
Net weight：820kg

RD400(A) Gearbox



Input speed(r/min):1000rpm～1800rpm

Reduction Ratio(i)	Rate(kw/rpm)
3.96 4.43 5	0.331
5.53	0.293
5.89	0.272
7	0.267

Rated propeller thrust：82KN

Bellhousing：SAE00 SAE0 SAE1

Flywheel：SAE18 SAE16 SAE14

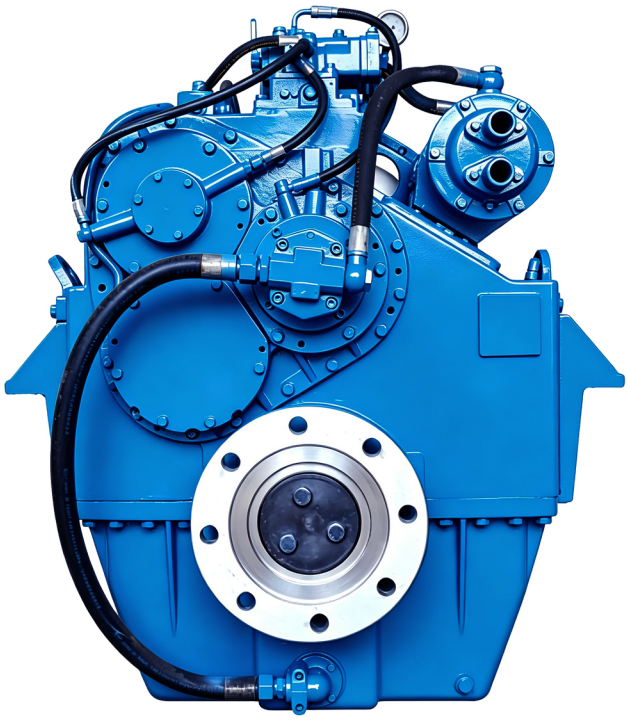
L*W*H：641*1010*988mm

Options/Comments：Mechanical
Electrical remote control

Centre distance:355mm

Net weight：1100kg

RT400(A) Gearbox



Input speed(r/min):1000rpm～2100rpm

Reduction Ratio(i)	Rate(kw/rpm)
6.09 6.49 6.93 7.42	0.331
7.96	0.309
8.4	0.294
9 9.47	0.279

Rated propeller thrust：82KN

Bellhousing：SAE00 SAE0 SAE1

Flywheel：SAE18 SAE16 SAE14

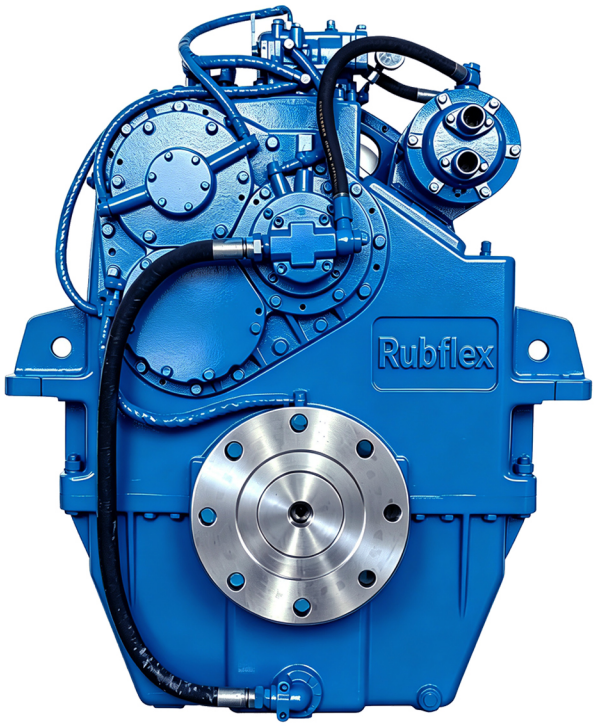
L*W*H：784*992*1130mm

Options/Comments：Mechanical
Electrical remote control

Centre distance:375mm

Net weight：1450kg

RT400(A)-1 Gearbox

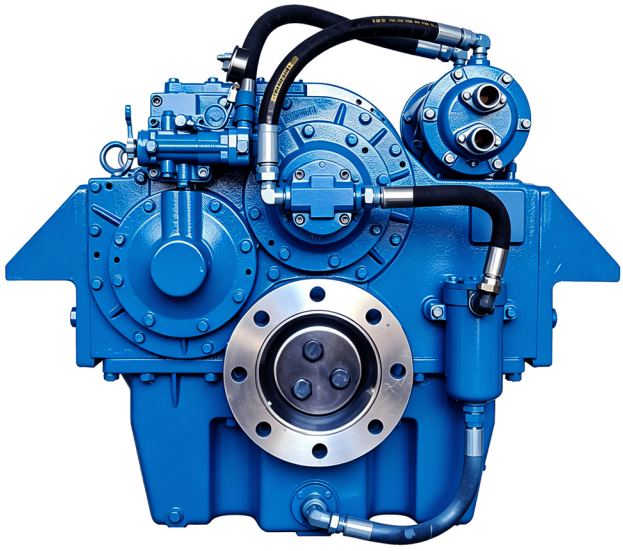


Input speed(r/min):1000rpm～2100rpm

Reduction Ratio(i)	Rate(kw/rpm)
8.15 8.69 9.27	0.331
9.94	0.316
10.6	0.297
11.37	0.274
12	0.262

Rated propeller thrust：120KN
Bellhousing：SAE00 SAE0 SAE1
Flywheel：SAE18 SAE16 SAE14
L*W*H：869*1100*1275mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:465mm
Net weight：1500kg

R600(A) Gearbox

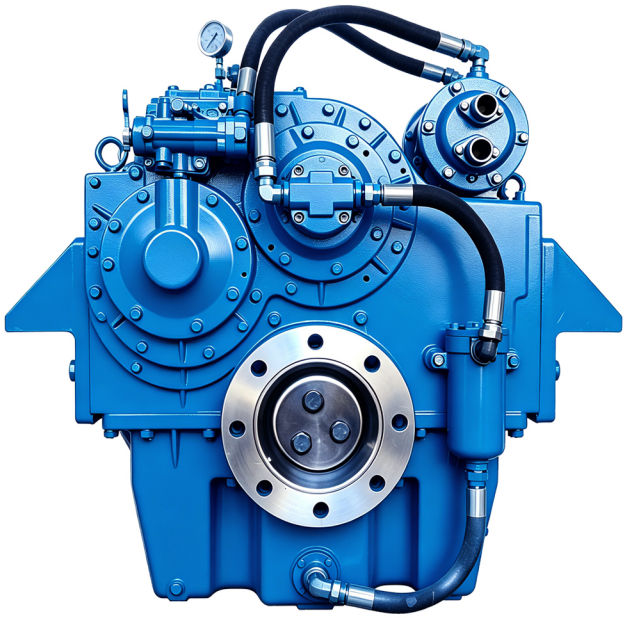


Input speed(r/min):1000rpm～2100rpm

Reduction Ratio(i)	Rate(kw/rpm)	
	Rubber coupling	Toothed rubber block
1.2 1.28 1.5 1.67 1.8 2 2.48 3 3.58 3.89	0.11	0.45

Rated propeller thrust：90KN
Bellhousing：SAE00 SAE0 SAE1
Without bell housing
Flywheel：SAE21 SAE18 SAE16 SAE14
L*W*H：745(749)*1214*1126mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:320mm
Net weight：1300kg

RD600(A) Gearbox



Input speed(r/min):1000rpm～2100rpm

Reduction Ratio(i)	Rate(kw/rpm)	
	Rubber coupling	Toothed rubber block
4.18 4.43 4.7 5	0.49	0.45
5.44	0.45	0.41
5.71	0.43	0.39

Rated propeller thrust：90KN

Bellhousing：SAE00 SAE0 SAE1

Without bell housing

Flywheel：SAE21 SAE18 SAE16 SAE14

L*W*H：745(749)*1214*1271mm

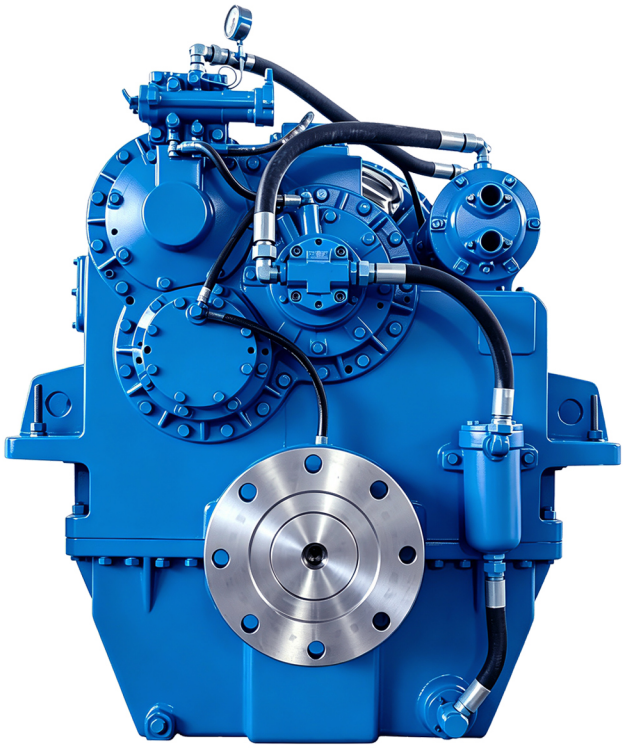
Options/Comments：Mechanical

Electrical remote control

Centre distance:415mm

Net weight：1550kg

RT600(A) Gearbox



Input speed(r/min):1000rpm～2100rpm

Reduction Ratio(i)	Rate(kw/rpm)	
	Rubber coupling	Toothed rubber block
6.06	0.45	0.41
6.49	0.419	0.379
6.97	0.39	0.35
7.51	0.363	0.323
8.04	0.338	0.298
8.66	0.314	0.274
9.35	0.291	0.251

Rated propeller thrust：90KN

Bellhousing：SAE00 SAE0 SAE1

Without bell housing

Flywheel：SAE21 SAE18 SAE16 SAE14

L*W*H：821(825)*1214*1271mm

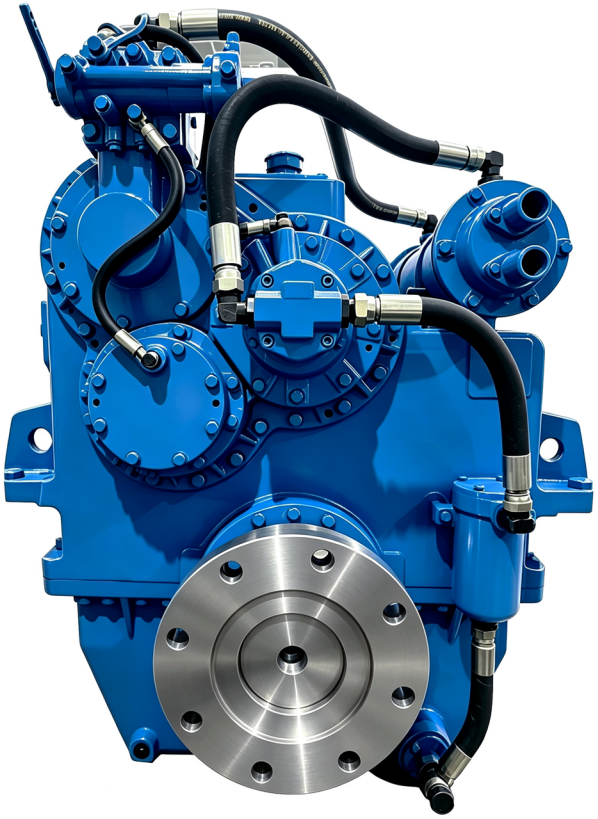
Options/Comments：Mechanical

Electrical remote control

Centre distance:415mm

Net weight：1650kg

RT600(A)-1 Gearbox



Input speed(r/min):1000rpm～2100rpm

Reduction Ratio(i)	Rate(kw/rpm)
6.09 6.48 7.04 7.69 8.23	0.49
8.82	0.485
9.47	0.45
10.1	0.423
10.8	0.395
11.65	0.367
12.57	0.34
13.64	0.313
14.44	0.296
15.91	0.268

Rated propeller thrust：140KN

Bellhousing：SAE00 SAE0 SAE1
Without bell housing

Flywheel：SAE21 SAE18 SAE16 SAE14

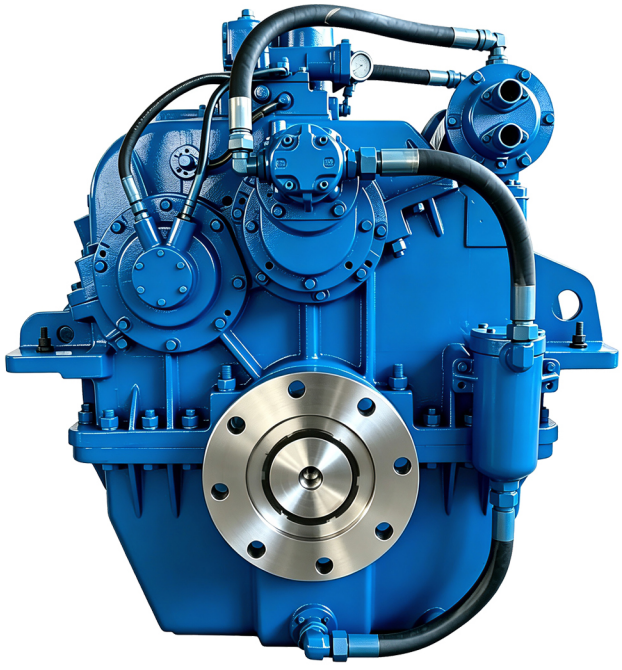
L*W*H：878*1224*1346mm

Options/Comments：Mechanical
Electrical remote control

Centre distance:500mm

Net weight：1700kg

RD800 Gearbox



Input speed(r/min):600rpm～2100rpm

Reduction Ratio(i)	Rate(kw/rpm)
3 3.43 3.96 4.39	0.625
4.9	0.588
5.47	0.551
5.89	0.515

Rated propeller thrust：110KN

Bellhousing：SAE00 SAE0

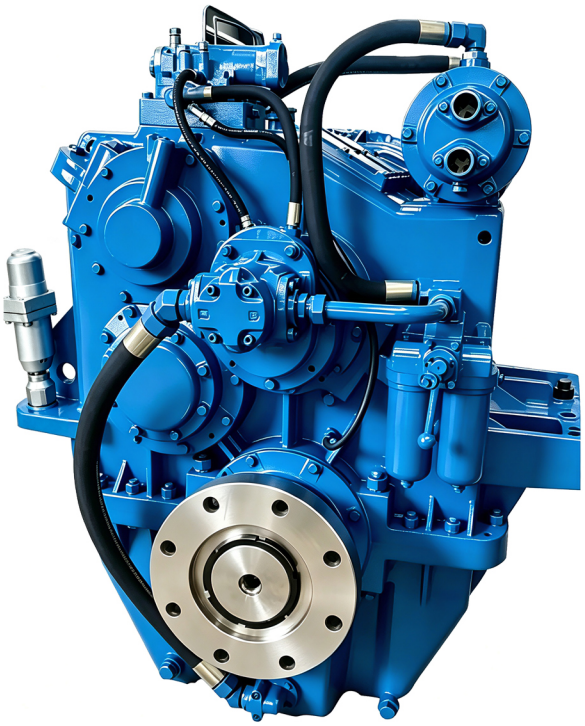
Flywheel：SAE21 SAE18 SAE16

L*W*H：1056*1280*1341mm

Options/Comments：Mechanical
Electrical remote control

Centre distance:450mm

Net weight：2250kg



RT800 Gearbox

Input speed(r/min):600rpm～2100rpm

Reduction Ratio(i)	Rate(kw/rpm)
4.95 5.57 5.93 6.43	0.625
6.86	0.588
7.33	0.551
7.84	0.515
8.4 9	0.48

Rated propeller thrust：140KN

Bellhousing：SAE00 SAE0

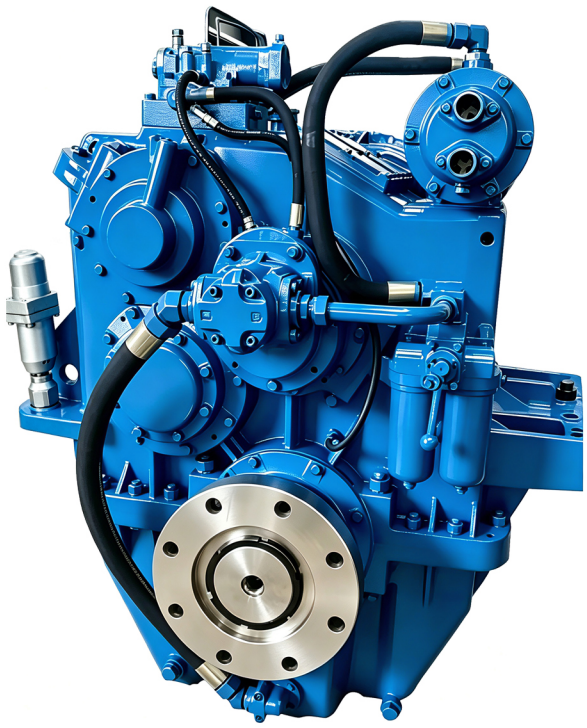
Flywheel：SAE21 SAE18 SAE16

L*W*H：1056*1280*1425mm

Options/Comments：Mechanical
Electrical remote control

Centre distance:450mm

Net weight：2500kg



RT800-1 Gearbox

Input speed(r/min):600rpm～2100rpm

Reduction Ratio(i)	Rate(kw/rpm)
6.91 7.28 7.69 8.13 8.6 9.12 9.68	0.625
10.3	0.609
10.98	0.575
11.76	0.549
12.43	0.52
13.17	0.491
13.97	0.463
14.85	0.435
15.82	0.408
16.58	0.382
17.91	0.378

Rated propeller thrust：220KN

Bellhousing：SAE00 SAE0

Flywheel：SAE21 SAE18 SAE16

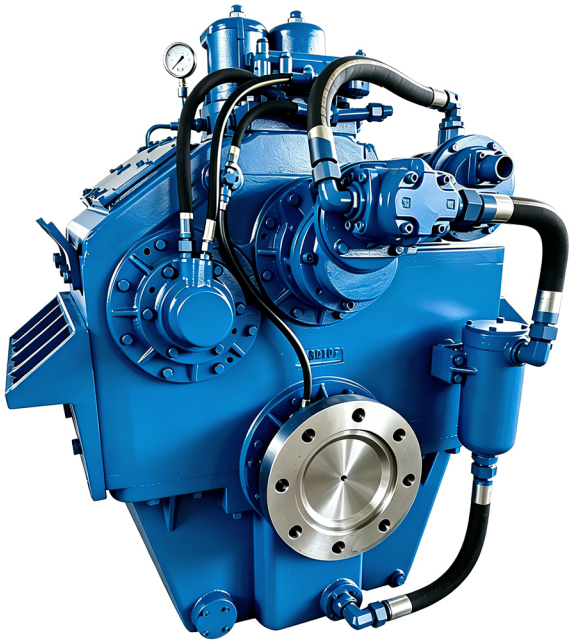
L*W*H：1152*1360*1557mm

Options/Comments：Mechanical
Electrical remote control

Centre distance:582mm

Net weight：3300kg

R900 Gearbox

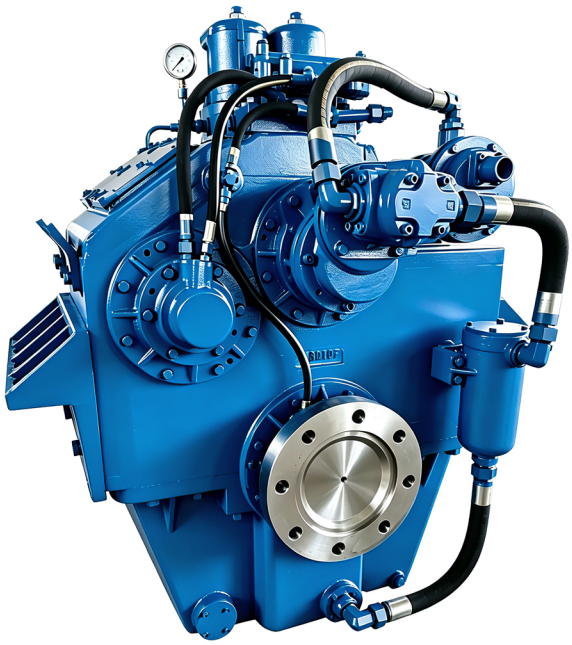


Input speed(r/min):600rpm～1600rpm

Reduction Ratio(i)	Rate(kw/rpm)
1.46 1.96 2.52 3.05 3.5	0.7
4.06	0.629

Rated propeller thrust：140KN
Bellhousing：Without bell housing
Flywheel：Match with engine flywhee
L*W*H：1220*1081*1149mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:335mm
Net weight：1600kg

R1100 Gearbox

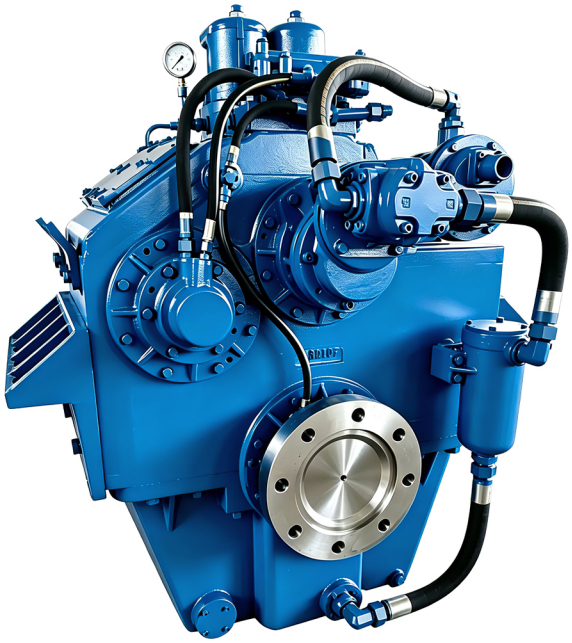


Input speed(r/min):600rpm～1600rpm

Reduction Ratio(i)	Rate(kw/rpm)
1.96 2.52 3.05 3.5	0.812
4.06	0.725

Rated propeller thrust：145KN
Bellhousing：Without bell housing
Flywheel：Match with engine flywhee
L*W*H：1220*1081*1149mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:335mm
Net weight：1700kg

RD1100 Gearbox

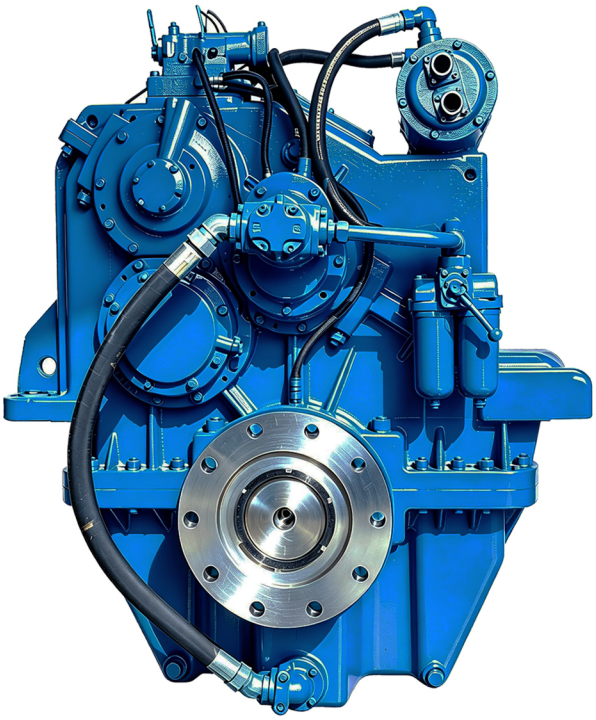


Input speed(r/min):600rpm～1600rpm

Reduction Ratio(i)	Rate(kw/rpm)
3.95 4.45 5.05	0.706
5.41	0.629
5.75	0.6
5.94	0.577

Rated propeller thrust：145KN
Bellhousing：Without bell housing
Flywheel：Match with engine flywhee
L*W*H：1081*1220*1247mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:450mm
Net weight：1850kg

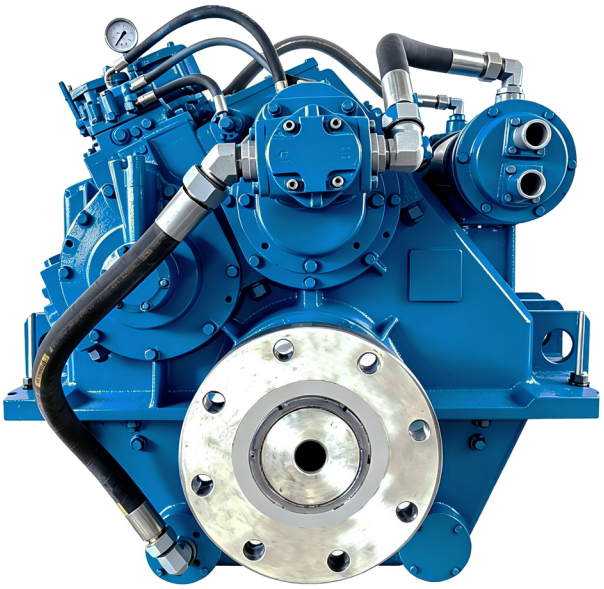
RT1100 Gearbox



Input speed(r/min):600rpm～1900rpm

Reduction Ratio(i)	Rate(kw/rpm)
4.94 5.6 5.98 6.39	0.846
6.85	0.835
7.35	0.772
7.9	0.736
8.53	0.682
8.9	0.653

Rated propeller thrust：150KN
Bellhousing：SAE00 SAE0
Flywheel：SAE21 SAE18
L*W*H：1150*1350*1547mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:500mm
Net weight：3200kg

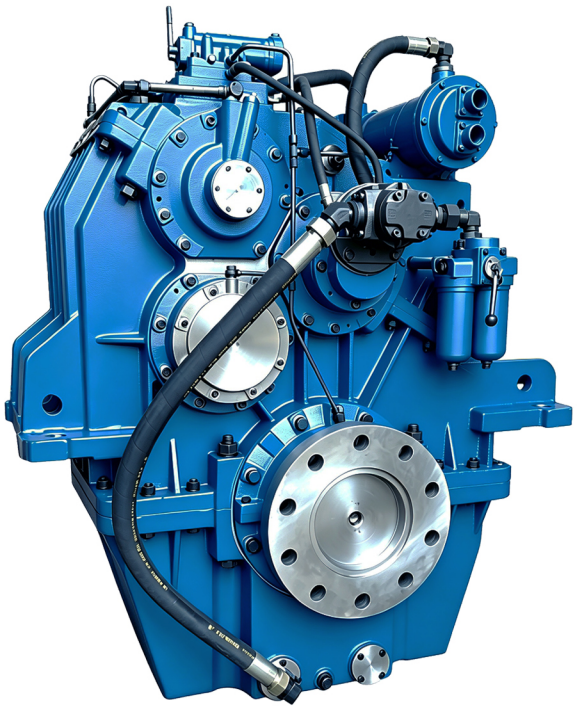


R1200 Gearbox

Input speed(r/min):600rpm～1900rpm

Reduction Ratio(i)	Rate(kw/rpm)
2.03 2.5 2.96 3.55	0.93
4.06	0.8
4.47	0.65

Rated propeller thrust：120KN
Bellhousing：Without bell housing
Flywheel：Match with engine flywhee
L*W*H：1082*1200*1130mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:380mm
Net weight：1870kg



RT1200 Gearbox

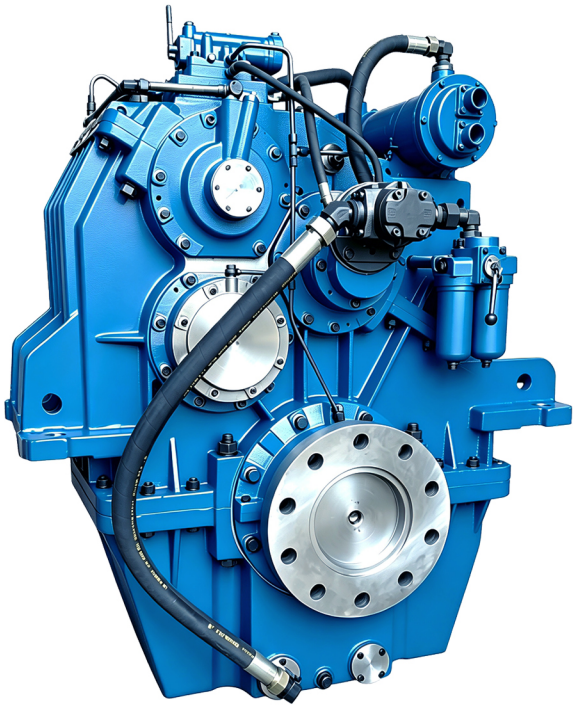
Input speed(r/min):600rpm～1900rpm

Reduction Ratio(i)	Rate(kw/rpm)
5.05 5.6 5.98 6.39 6.85 7.35 7.9	0.93

Rated propeller thrust：150KN
Bellhousing：Without bell housing
Flywheel：Match with engine flywhee
L*W*H：1188*1350*1547mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:500mm
Net weight：3200kg

Rubiflex

RT1200-1 Gearbox



Input speed(r/min):600rpm～1900rpm

Reduction Ratio(i)	Rate(kw/rpm)
8.55 9.16 9.57 10.08	0.93
10.74	0.83
11.05	0.82
11.45	0.78
12.17	0.74

Rated propeller thrust：220KN
Bellhousing：Without bell housing
Flywheel：Match with engine flywhee
L*W*H：1056*1430*1670mm
Options/Comments：Mechanical
Electrical remote control
Centre distance:580mm
Net weight：3600kg

Our company supplies a wide range of products with special gear ratios. The unit shown in red represents our well received special speed ratio model.

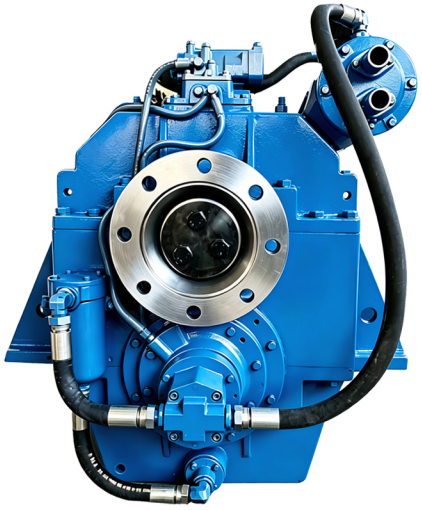
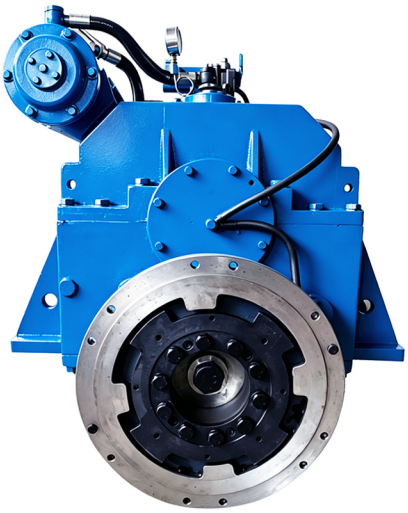
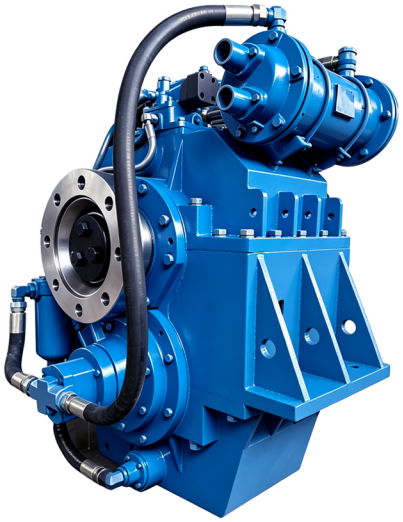
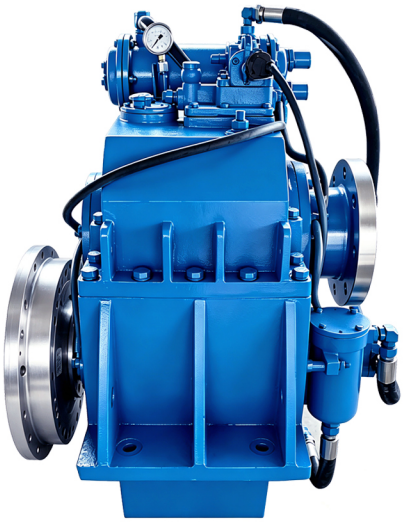
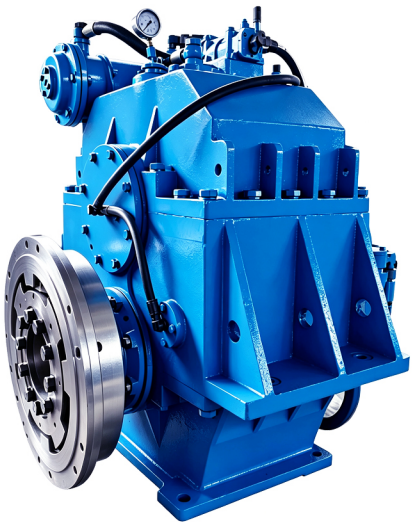
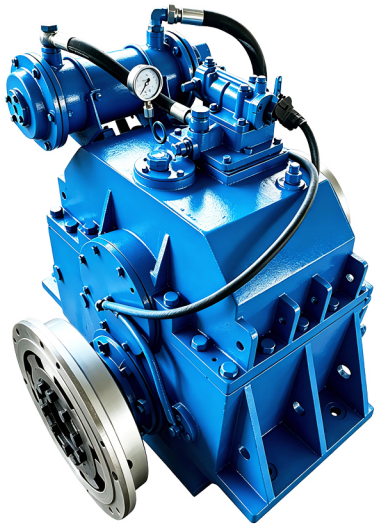
We also offer custom gear ratio solutions, as well as ODM & OEM services for global clients.

Welcome to get in touch with us!

Rubflex

Rubflex pump-drive gearbox is newly developed for pump equipment. Integrating advantages of marine gearboxes and clutches, it fits high--flow, high-pressure liquid transmission applications.

Its low-inlet high-outlet structure enables robust connection between diesel engine and pump, ensuring stable performance and excellent tolerance to pump output flow and pressure.

Reversing Gearbox for Pumps

Model No.	Input Speed (r/min)	Reduction Ratio (i)	Rate (kw/rpm)	Centre Distance (mm)	Net weight (kg)
400B	1000~1800	1.5 1.68 2.04 2.5 Optional as per customer selection	0.331	264	820
600B	1000~2100	1.5 1.67 2 2.48 Optional as per customer selection	0.49	320	1300
900B	600~1600	1.46 1.7 1.96 2.52 Optional as per customer selection	0.7	335	1600
1200B	600~1600	1.5 1.7 2.03 2.5 Optional as per customer selection	0.93	380	1870

Same-rotation Gearbox for Pumps

Model No.	Input Speed (r/min)	Reduction Ratio (i)	Rate (kw/rpm)	Centre Distance (mm)	Net weight (kg)
400BT	1000~1800	1.5 1.68 2.04 2.5 Optional as per customer selection	0.331	264	820
600BT	1000~2100	1.5 1.67 2 2.48 Optional as per customer selection	0.49	320	1300
900BT	600~1600	1.46 1.7 1.96 2.52 Optional as per customer selection	0.7	335	1600
1200BT	600~1600	1.5 1.7 2.03 2.5 Optional as per customer selection	0.93	380	1870

Speed ratio can be selected to match the diesel engine or pump per customer requirements.

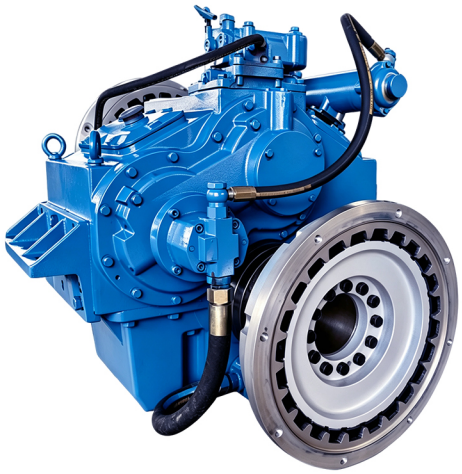
The pump-duty gearbox is not supplied with a pump-end coupling.

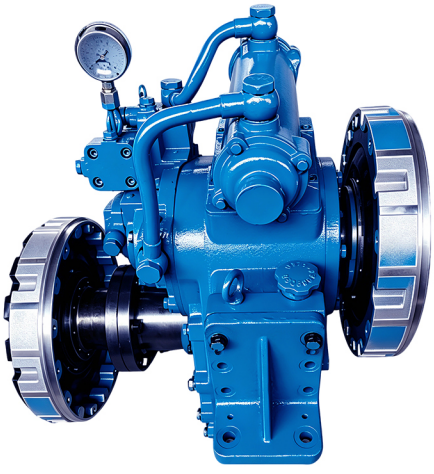
The Rubflex speed-increasing gearbox delivers stable, safe, eco--friendly and continuous power supply for ship navigation and endurance. Featuring high conversion efficiency, it greatly reduces diesel consumption, with lower noise and easier installation.

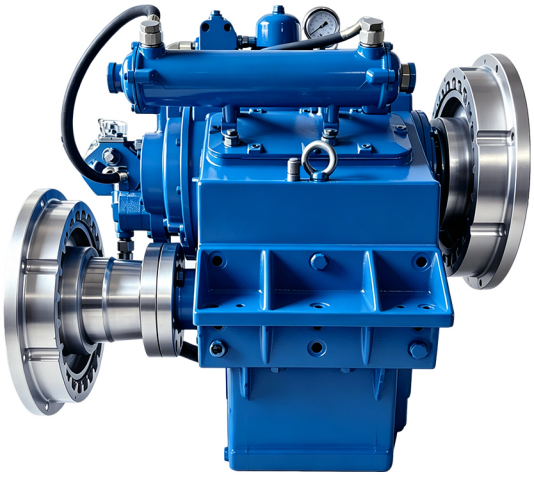












Model No.	Input Speed (r/min)	Reduction Ratio (i)	Rate (kw/rpm)	Generator Power (kw)	Centre Distance (mm)	Net Weight (kg)	Remark
40A	750~2000	Optional as per customer selection	0.29	≤45	142	225	Input / Output: 170-tooth ring gears fitted
120B	750~1800	Optional as per customer selection	0.088	≤120	190	400	Input / Output: 135-tooth ring gears fitted
120C	1000~2500	Optional as per customer selection	0.1	≤120	180	225	Input / Output: 135-tooth ring gears fitted
138	1000~2500	Optional as per customer selection	0.11	≤135	225	360	Input / Output: 135-tooth ring gears fitted
300	750~2500	Optional as per customer selection	0.257	≤300	264	740	Input / Output: 300-tooth ring gears fitted
400	1000~1800	Optional as per customer selection	0.331	≤400	264	820	Input / Output: 400-tooth ring gears fitted
600	1000~2100	Optional as per customer selection	0.49	≤600	320	1300	Input: 600-tooth ring gear; High-elasticity Output: 600-tooth ring gear
900	600~1600	Optional as per customer selection	0.7	≤1000	335	1600	Input: 900-tooth ring gear; High-elasticity Output: 900-tooth ring gear
1200	600~1600	Optional as per customer selection	0.93	≤1300	380	1870	Input: 1200-tooth ring gear; High-elasticity Output: 1200-tooth ring gear

Speed ratio and high-elastic coupling can be selected to match the diesel engine per customer requirements. Generator power is calculated by default at 1500rpm. The speed-increasing gearbox is not supplied with a diesel-engine-shaft coupling.

Rubflex



Web: www.rubflex.cn Email: sales@rubflex.cn