NUODUN 诺顿

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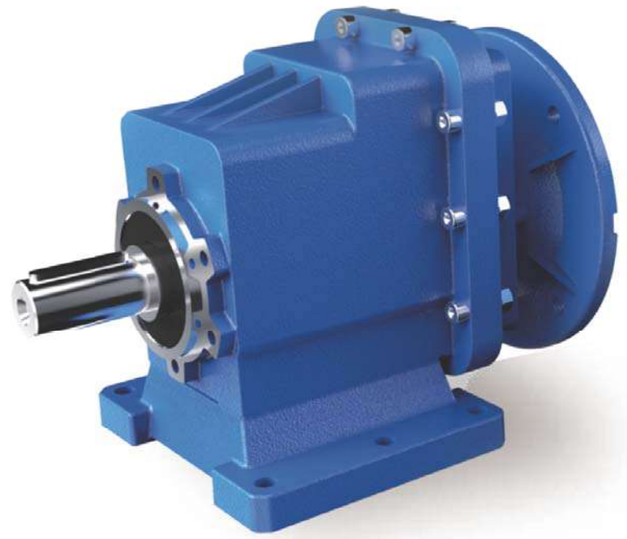
NUODUN INTELLIGENCE

LINEAR TRANSMISSION SOLUTION PROVIDER

www.nuodundrive.com

QRC SERIES HELICAL GEAR UNITS



Specialized and innovative SMEs
National high-tech enterprises
Zhejiang provincial-level R&D center

NUODUN 诺顿

NUODUN • DRIVEN TO LIFT

Empowering customers and society.
Leading the benchmark in transmission solutions.

NUODUN 诺顿

NUODUN: Your Reliable Partner for Precision Drive and Linear Motion Solutions

NUODUN focuses on the R&D and manufacturing of core products such as gear reducers and screw jacks. Adhering to a customer-centric philosophy that aligns with Western business communication standards, we provide high-performance, customizable solutions to meet global industrial needs. Our unwavering pursuit of precision, reliability, and efficiency has made us a trusted partner for enterprises worldwide.



About Us

Over the past 12 years, NUODUN has accumulated profound industry experience and technical expertise across dozens of sectors. Our solutions are widely applied and recognized in fields including semiconductor manufacturing, medical equipment, military and defense, metallurgy, photovoltaic technology, new energy equipment, automotive manufacturing, and aerospace.

We offer a comprehensive product portfolio covering the entire power transmission chain from input to load output, specifically including worm gear screw jacks, bevel gear jacks, ball screw jacks, planetary gear reducers, helical gear reducers, worm gear reducers, micro gear motors, electric cylinders, linear motion stages, and custom-engineered actuators. Our product range consists of 7 major series with more than 20,000 standard models, all of which have obtained ISO9001 certification to ensure compliance with international quality standards.

Founded in	Number of employees	Engineer	Patent	Fixed assets
2012 Person	96 Person	13 Person	46 Item	8200 Ten thousand

Annual production	Global service countries	Number of devices	Service listed companies	Awarded honors
15.6 Ten thousand table	21 Piece	86 Table	16 Home	5 Item

Choosing NUODUN means choosing a reliable long-term partner. We do not merely supply products — we provide full-process support to make every movement more precise and every lift more efficient. We look forward to working with you to create new value in the industrial field.

NUODUN 诺顿

CORE CAPABILITIES

1. Engineering and Technical Support
- Provide services such as accurate product selection calculation, 3D modeling, and equipment structure optimization to facilitate the rapid implementation of projects.
- Offer professional technical consultation to solve complex application problems and ensure optimal system integration results.

2. Integrated Manufacturing Advantages
- Execute full-process manufacturing procedures — from core component machining and assembly to strict performance testing and final delivery.
- Implement rigorous quality control standards at all production stages to ensure consistent product reliability.

3. Customized Solution Development
- Collaborate in-depth with customers to fully understand project objectives, operating conditions, and core requirements.
- Provide customized design, R&D, and production services for non-standard products to meet the needs of unique application scenarios.
- Support applications in special operating conditions such as high precision, extreme temperature resistance, corrosion resistance, and vibration resistance.

4. Commitment to Efficient Delivery
- Complete sample delivery within only 10 working days to support rapid prototyping and verification.
- Fulfill bulk order delivery within 3-4 weeks to ensure project progress is not disrupted.

OUR COMPETITIVE ADVANTAGES

The synergistic advantage of "customization + integration" is the cornerstone of NUODUN's core competitiveness. Relying on continuous R&D investment, independent technical accumulation, and a mature delivery system refined through long-term verification and iteration, we have built a unique competitive barrier. Our strong engineering and technical capabilities enable us to go beyond the traditional supply model of standard products — we create value-driven solutions that balance precision, reliability, and cost-effectiveness.

"Focus, Dedication, Excellence" is our consistent value proposition. We firmly believe that only by continuously enhancing product value and customer success rate can we maintain sustained leadership in the industry. By deeply integrating professional technology with advanced manufacturing tools, we continuously promote product upgrading and optimization to retain our technological leadership.

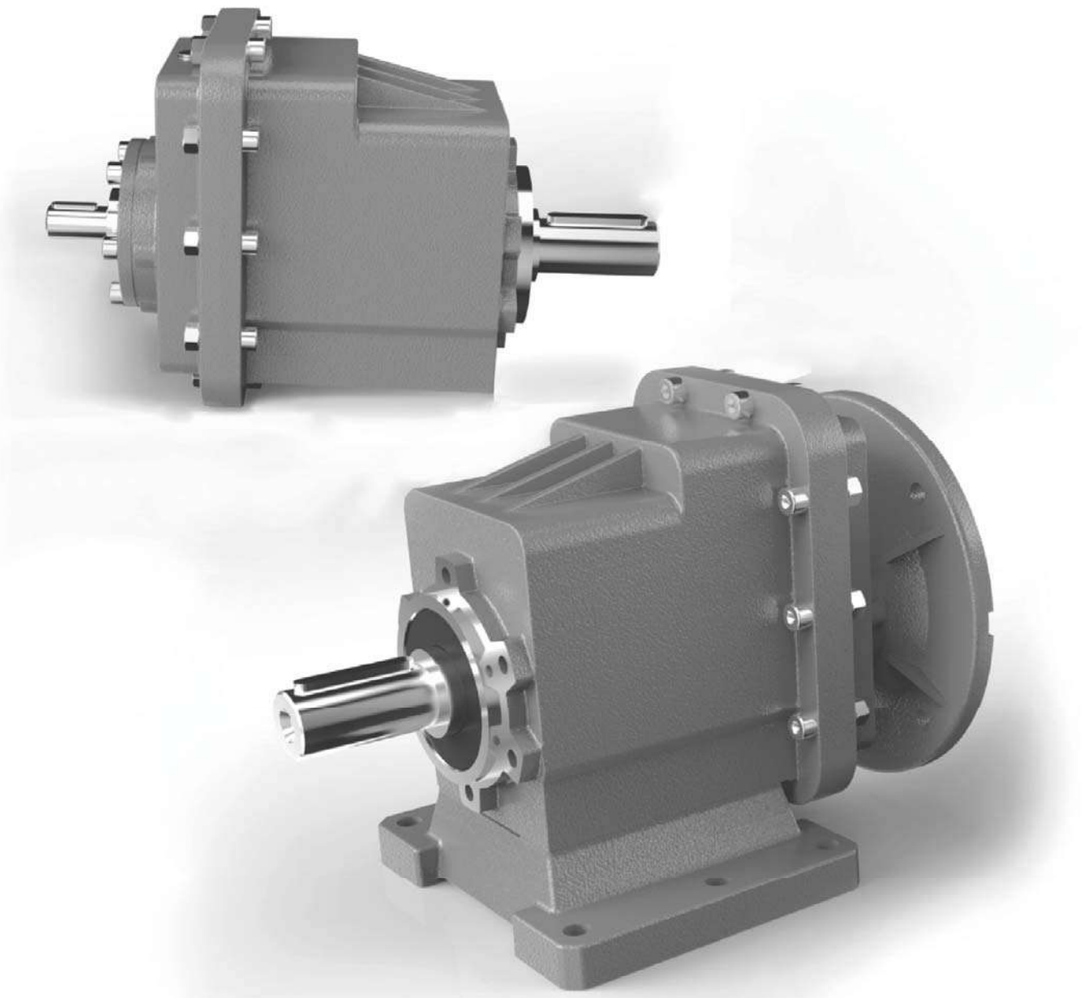
CUSTOM DEMAND RESPONSE PROCESS:

A Six-Step Closed Loop from Concept to Implementation

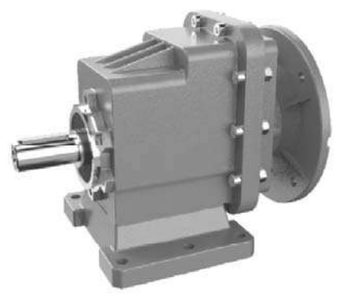
1. Demand Alignment: Conduct in-depth communication on project objectives, operating conditions, and core demands to clarify the scope of requirements.
2. Solution Design: Conduct technical feasibility assessment and output adapted product structure solutions and key parameters.
3. Business Confirmation: Confirm detailed quotations, cooperation terms, and delivery cycles to reach a cooperation consensus.
4. Sample Verification: Complete prototype trial production and ensure compliance with requirements through functional testing and structural inspection.
5. Bulk Production: Implement strict quality control standards, advance bulk production, and deliver products on schedule.
6. After-Sales Follow-Up: Provide continuous technical support and after-sales responses to ensure the long-term stable operation of equipment.

PARTNER

QRC SERIES HELICAL GEAR UNITS



PRODUCT PICTURE



QRC..P(IEC)
Foot-mounted helical gear unit

QRC..HS
Shaft input foot-mounted helical gear unit

QRCZ..P(IEC)
B14 Flange-mounted helical gear unit

QRCZ..HS
Shaft input B14 Flange-mounted helical gear unit

QRCF..P(IEC)
Flange-mounted helical gear unit

QRCF..HS
Shaft input Flange-mounted helical gear unit

PRODUCTS OVERVIEW

Technical features

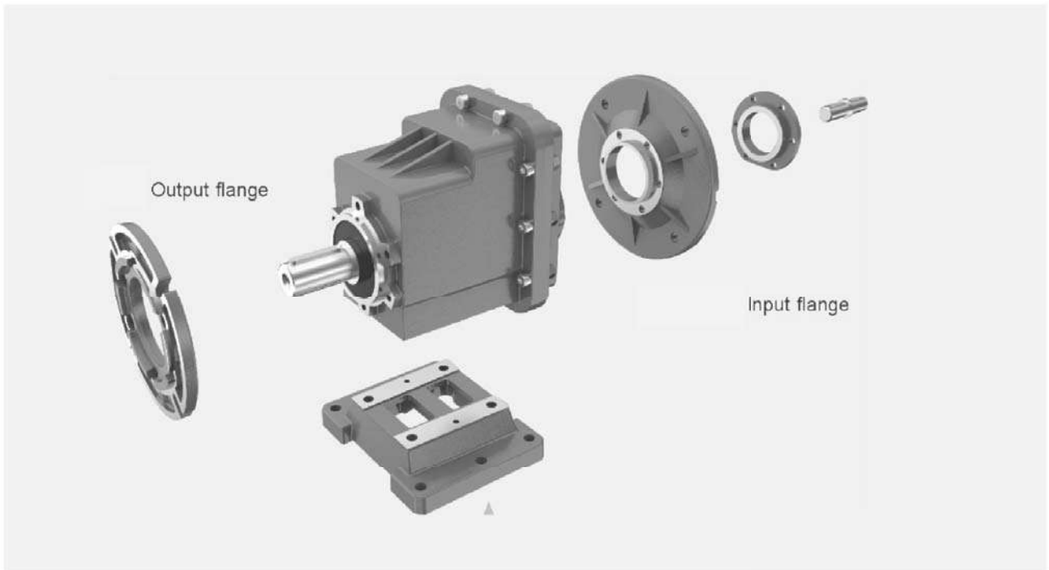
The high degree of modularity is a design feature of QRC helical gearboxes range。It can be connected respectively with motors such as normal motor, brake motor, explosion-proof motor, frequency conversion motor, servo motor , IEC motor and so on。This kind of product is widely used in drive fields such as textile, foodstuff, ceramics packing, logistics, plastics and so on。It is possible to set up the version required using flanges or feet。

Products characteristics

QRC series helical gear units has more than 4 types. Power0.12-4KW; Ratio3.66-54; Torque Max 120-500Nm. It can be connected (foot or flange) discretionary and use multi-mounting positions according custom-ers' requirements.

- Ground-hardened helical gears;
- Modularity, can be combined in many forms;
- Aluminium casing, light weight;
- Gears in carbonize hard, durable;
- Universal mounting;
- Refined design, space effective and low noise.

Structure Feature



MODEL ILLUMINATE

Gear unit | Motor

QRC F 01 II – P71B5 – 23.56 – M2 / 270° – 0.37KW-4 – 220/380-50 / S

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

NO	Comments
1	QRC: Code for gear units series
2	1). No code means foot-mounted 2). F: B5 flange mounted 3). Z: B14 flange mounted
3	Specification code of gear units 01,02,03,04
4	1). B02、M02……means foot code, without flange 2). I、II、III: B5 output flange specification, default I not to write out is ok
5	1). IEC input flange 2). HS: shaft input
6	Transmission ratio of gear units (i)
7	M1: Mounting positio, default mounting position M1 not to write out is ok
8	Position diagram for motor terminal box, Default position 0° (R) not to write out is ok
9	1) No mark means without motor 2) Model motors (poles of power)
10	Voltage-frequency
11	Coil in pssition for motor, default position S not to Write out is ok

NOTE: When ordering , you should show whether the reducers are equipped with motors, otherwise reducers aren't supplied with motors.

Example: **QRC02B02-P71B5-23.56**
QRCZ03-HS-6.31
QRCF02III-P80B14-8.78-0.75KW-4 – 220/380 – 50/E

RELEVANT PARAMETER

POWER P

$P_1=P_2/\eta$ (kW)
$P_{1n} \geqslant P_1 \cdot fs$(kW)

P_1 Input power
P_{1n} Rated input motor power
η Transmission efficiency
P_2 Output power
fs Service factor

SRC Series helical gear unit has 2 stage and the efficiency is about 96%

Rotation speed n

n_1 Gear units input speed
n_2 Gear units output speed

If driven by the external gearing，1400r/min or lower rotation speed is suggested so as to optimize the working conditions and prolong the service life.Higher input rotation speed is permitted，but in this situation，the rated torque M_2 will be reduced.

Transmission ratio i

$i=n_1/n_2$ Usually transmission ratio is decimal fraction with 2 radix point tagged in selection tables.

Torque m

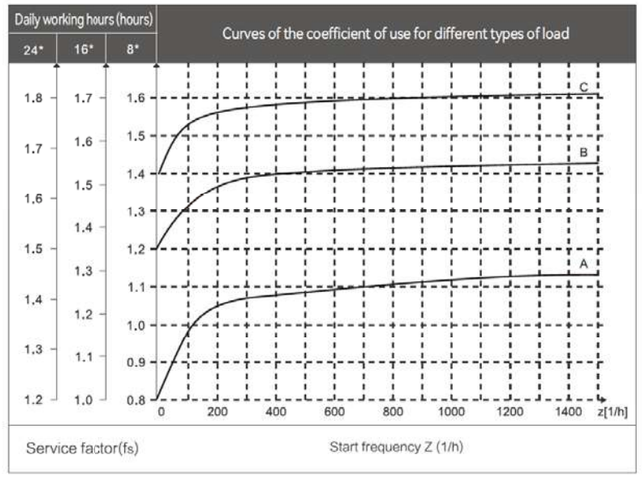
$M_2=9550 \cdot P_1 \cdot \eta/n_2$ (Nm)
$M_{2n} \geqslant M_2 \cdot fs$(Nm)

M_2 Output torque
M_{2n} Rated output torque
P_1 Input power
η Transmission efficiency
fs Service factor

RELEVANT PARAMETER

Service factor fs

The effect of the driven machine on the gear unit is taken into account to a sufficient level of accuracy using the service factor fs.The service factor is determined according to the daily operating time and the starting frequency Z.
Three load classifications are considered depending on the mass acceleration factor .You can read off the service factor applicable to your application in following figure. The service factor selected using this diagram must be less than or equal to the service factor as given in the performance parameter table.



- starting frequency Z：The cycles include all starting and braking procedures as well as change overs from low to high speed.

Load classifications

Type of load:
A. Uniform shock load,permitted mass acceleration factor Fa≤0.2
B. Moderate shock load,permitted mass acceleration factor Fa≤3
C. Heavy shock load,permitted mass acceleration factor Fa≤10

Load classifications see the addendum

RELEVANT PARAMETER

Mass acceleration factor

The mass acceleration factor is calculated as follows:

Fa=Jc/Jm

Fa Mass acceleration factor
Jc All external mass moments of inertia(kgm²)
Jm Mass moment of inertia on the motor end(kgm²)
If mass acceleration factors Fa>10,please call our Technical Service.

To keep the service-life of gear units, the use factor fs selected from the catalogue must be equal or slightly higher than the calculated use factor fs.

Radial loads Fr

When determining the resulting radial loads,the type of transmission elements,mounted on the shaft end must be considered,Varous transmission elements are corresponding with following transmission element factors fz:

Transmission element	Transmission element factor fz	Comments
Gears	1.00	≥17 teeth
	1.15	<17 teeth
Chain sprockets	1.00	≥20 teeth
	1.25	<20 teeth
	1.40	<13 teeth
Narrow V-belt pulleys	1.75	Influence of the tensile force
Flat belt pulleys	2.50	Influence of the tensile force
Toothed belt pulleys	2.50	Influence of the tensile force

The radial loads exerted on the motor or gear shaft is then calculated as follows :

$$Fr=\frac{M \cdot 2000 \cdot fz}{d_0} \text{ (N)}$$

Fr Resulting radial load [N]
M Torque on the shafts [Nm]
d_0 Mean diameter of the mounted transmission element in [mm]
fz Transmission element factor

RELEVANT PARAMETER

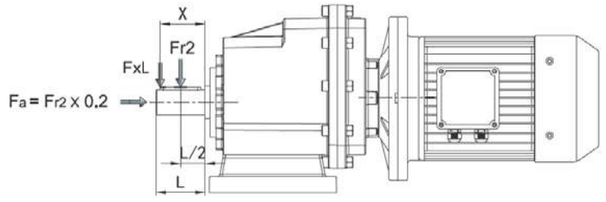
The allowed radial load force on the shaft is calculated with the following formula:

$$F_{xL} \le F_{r2} \cdot \frac{a}{b+x} \text{ [N]}$$

F_{r2} Permitted overhung load （x=L/2）for foot-mounted gear units according to the selection tables in[N]
a,b Gear unit constant for overhung load conversion[mm]
X Distance from the shaft shoulder to the force application point in[mm]
The values of a、b、F_{r2} are given in the following tables:

	QRC01	QRC02	QRC03	QRC04
a	103	116.5	130	147
b	83	91.5	100	112

Output shafts radial loads & axial loads F_{r2},Fa



n_2[min⁻¹]		10	40	60	80	100	120	150	180	250	400
F_{r2}[N]	QRC01	2500	2500	2180	1980	1840	1630	1400	1320	1080	920
	QRC02	5000	5000	4370	3970	3680	3470	2710	2550	2150	1840
	QRC03	6500	6500	5550	5040	4510	3800	3530	3320	2800	2390
	QRC04	8000	8000	6590	5990	5230	4570	4240	3900	3350	2860

Selection tables comments

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	fs			Page

Combination with the IEC in the header row is possible
Combination with the IEC in the header row is not possible

P_{1n} Rated power driving motor[KW]
n_2 Output speed [r/min]
M_{2n} Rated output torque[Nm]

RELEVANT PARAMETER

M_{2max}	Permissible output torque[Nm]
i	Gear unit ratio
fs	Service factor
	Gear unit type
	Motor type
page	Dimension sheet page no
*	Finite gear unit reduction ratio

SELECTION EXAMPLE

Gear units

Example: The required torque on driven machine is 200Nm,works for 6 hours per day, Uniform shock load,start-up frequency is 200 times per hour, Φ160mm output flange-mounted ,n_2=50r/min.

See tables,fs=1.02

$M_{2n} \geq M_2 \cdot fs = 200 \times 1.02 = 204$ (Nm)

$$i = \frac{n_1}{n_2} = \frac{1400}{50} = 28$$

Choose type:

QRCF03 I - P90B5 - 30.57

Gear motor

Example:The required power on driven machine 0.75kw,works for 8 hours per day,moderate shock load,start-up cootinnously,M2 foot-mounted,n_2=60r/min.

See tables,fs=1.35

$$i = \frac{n_1}{n_2} = \frac{1400}{60} = 28.33$$

$$P_{1n} \geq P_1 \cdot fs = \frac{P_2}{\eta} \cdot fs = \frac{0.75}{0.96} \times 1.35 = 1.05 \text{ (kW)}$$

Choose type:

QRC02 - P90B5-23.85-1.1KW-4 - M2

RATIO AND IEC MOTOR ADAPTERS

QRC..01..P(IEC)

i	63B5	71B5 71B14	80B5 80B14	90B5 90B14
53.33				
45.89				
40.10				
35.47				
28.50				
23.56				
(20.75)				
19.83				
17.86				
(15.6)				
14.62				
13.80*				
11.90				
(11.1)				
9.81				
9.17				
7.72				
5.69				
4.63				
3.82				

SRC..02..P(IEC)

i	63B5	71B5 71B14	80B5 80B14	90B5 90B14
54.00*				
46.46*				
40.60*				
35.91*				
28.88*				
23.85*				
20.08*				
(19.87)				
17.10				
(14.94)				
14.81*				
13.21				
12.05				
(10.63)*				
9.93				
8.78				
7.39				
5.45				
4.43				
3.66				

QRC..03..P(IEC)

i	71B5	80B5 80B14	90B5 90B14	100B5 100B14	112B5 112B14
51.30*					
44.18*					
38.63					
34.20*					
30.57					
24.99					
21.15*					
19.24*					
18.21*					
(15.93)					
15.30*					
(14.10)*					
13.30*					
12.60					
10.93*					
(10.3)					
9.08					
7.93*					
6.31					
5.48					
4.50					
3.74					

QRC..04..P(IEC)

i	80B5 80B14	90B5 90B14	100B5 100B14	112B5 112B14
51.30*				
44.18*				
38.63				
34.20*				
30.57				
24.99				
21.15*				
19.24*				
(18.21)*				
(15.93)				
15.30*				
(14.10)*				
13.30*				
12.60				
10.93*				
(10.30)				
9.08				
7.93*				
6.31				
5.48				
4.50				
3.74				

* Finite gear unit reduction ratio ( ) Barely suitable speed ratio

GEAR UNIT SELECTION TABLES

QRC..P(IEC).. Performance parameter

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	fs					Page
0.12	26.3	42	53.33	2.9	**QRC01**	**63B5**	**6314**		21
	30.5	36	45.89	3.3	**QRCF01**	**63B5**	**6314**		21
	34.9	32	40.10	3.8	**QRCZ01**	**63B5**	**6314**		21
	39.5	28	35.47	4.3					
	49.1	22	28.50	5.4					
	59.4	18.5	23.56	6.5					
	70.6	15.6	19.83	7.7					
	78.4	14	17.86	7.1					
	95.8	11.5	14.62	10.4					
	101	10.8	13.80*	9.2					
	118	9.4	11.90	12.8					
	143	7.7	9.81	13.0					
	153	7.2	9.17	11.1					
	181	6.1	7.72	13.2					
	246	4.5	5.69	13.4					
	302	3.6	4.63	16.5					
	366	3	3.82	20.0					
0.18	16.9	98	53.33	1.2	**QRC01**	**71B5**	**7116**		21
	19.6	84	45.89	1.4	**QRCF01**	**71B5**	**7116**		21
	22.4	74	40.10	1.6	**QRCZ01**	**71B5**	**7116**		21
	25.4	65	35.47	1.8					
	31.6	52	28.50	2.3					
	26.3	63	53.33	1.9	**QRC01**	**63B5**	**6324**		21
	30.5	54	45.89	2.2	**QRCF01**	**63B5**	**6324**		21
	34.9	47	40.10	2.5	**QRCZ01**	**63B5**	**6324**		21
	39.5	42	35.47	2.9					
	49.1	34	28.50	3.6					
	59.4	28	23.56	4.3					
	70.6	23	19.83	5.1					
	78.4	21	17.86	4.8					
	95.8	17.2	14.62	7.0					
	101	16.3	13.80*	6.1					
	118	14	11.9	8.6					
	143	11.6	9.81	8.6					
	153	10.8	9.17	7.4					
	181	9.1	7.72	8.8					
	246	6.7	5.69	8.9					
	302	5.5	4.63	11.0					
	366	4.5	3.82	13.3					
	16.7	99	54.00*	2.0	**QRC02**	**71B5**	**7116**		23
	19.4	85	46.46*	2.3	**QRCF02**	**71B5**	**7116**		23
	22.2	74	40.60*	2.7	**QRCZ02**	**71B5**	**7116**		23
	25.1	66	35.91*	3.0					
	31.2	53	28.88*	3.8					
	25.9	64	54.00*	3.1	**QRC02**	**63B5**	**6324**		23
	30.4	55	46.46*	3.7	**QRCF02**	**63B5**	**6324**		23
	34.5	48	40.60*	4.2	**QRCZ02**	**63B5**	**6324**		23

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	fs					Page
0.25	16.9	136	53.33	0.88	**QRC01**	**71B5/B14**	**7126**		21
	19.6	117	45.89	1	**QRCF01**	**71B5/B14**	**7126**		21
	22.4	102	40.1	1.2	**QRCZ01**	**71B5/B14**	**7126**		21
	25.4	90	35.47	1.3					
	31.6	73	28.5	1.7					
	26.3	87	53.33	1.4	**QRC01**	**71B5/B14**	**7126**		21
	30.5	75	45.89	1.6	**QRCF01**	**71B5/B14**	**7126**		21
	34.9	66	40.1	1.8	**QRCZ01**	**71B5/B14**	**7126**		21
	39.5	58	35.47	2.1					
	49.1	47	28.5	2.6					
	59.4	39	23.56	3.1					
	70.6	32	19.83	3.7					
	78.4	29	17.86	3.4					
	95.8	24	14.62	5					
	101	23	13.80*	4.4					
	118	19.5	11.9	6.2					
	143	16.1	9.81	6.2					
	153	15	9.17	5.3					
	181	12.6	7.72	6.3					
	246	9.3	5.69	6.4					
	302	7.6	4.63	7.9					
	366	6.3	3.82	9.6					
	16.7	138	54.00*	1.5	**QRC02**	**71B5/B14**	**7126**		23
	19.4	118	46.46*	1.7	**QRCF02**	**71B5/B14**	**7126**		23
	22.2	103	40.60*	1.9	**QRCZ02**	**71B5/B14**	**7126**		23
	25.1	91	35.91*	2.2					
	31.2	74	28.88*	2.7					
	25.9	88	54.00*	2.3	**QRC02**	**71B5/B14**	**7114**		23
	30.1	76	46.46*	2.6	**QRCF02**	**71B5/B14**	**7114**		23
	34.5	66	40.60*	3	**QRCZ02**	**71B5/B14**	**7114**		23
	39	59	35.91*	3.4					
	48.5	47	28.88*	4.2					
0.37	22.4	151	40.10*	0.79	**QRC01**	**80B5/B14**	**8016**		21
	25.4	134	35.47*	0.9	**QRCF01**	**80B5/B14**	**8016**		21
	31.6	107	28.50*	1.1	**QRCZ01**	**80B5/B14**	**8016**		21
	38.2	89	23.56*	1.4					
	26.3	129	53.33	0.93	**QRC01**	**71B5/B14**	**7124**		21
	30.5	111	45.89	1.1	**QRCF01**	**71B5/B14**	**7124**		21
	34.9	97	40.1	1.2	**QRCZ01**	**71B5/B14**	**7124**		21
	39.5	86	35.47	1.4					
	49.1	69	28.5	1.7					
	59.4	57	23.56	2.1					
	70.6	48	19.83	2.5					
	78.4	43	17.86	2.3					
	95.8	35	14.62	3.4					
	101	33	13.80*	3					
	118	29	11.9	4.2					
	143	24	9.81	4.2					
	153	22	9.17	3.6					
	181	19	7.72	4.3					
	246	14	5.69	4.4					
	302	11	4.63	5.3					
	366	9	3.82	6.5					

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	fs				Page
0.37	16.7	204	54.00*	1	**QRC02**	**80B5/B14**	**8016**	23
	19.4	175	46.46*	1.1	**QRCF02**	**80B5/B14**	**8016**	23
	22.2	153	40.60*	1.3	**QRCZ02**	**80B5/B14**	**8016**	23
	25.1	135	35.91*	1.5				
	31.2	109	28.88*	1.8				
	25.9	131	54.00*	1.5	**QRC02**	**71B5/B14**	**7124**	23
	30.1	113	46.46*	1.8	**QRCF02**	**71B5/B14**	**7124**	23
	34.5	98	40.60*	2	**QRCZ02**	**71B5/B14**	**7124**	23
	39	87	35.91*	2.3				
	48.5	70	28.88*	2.9				
	58.7	58	23.85*	3.5				
	81.9	41	17.1	3.9				
	17.5	193	51.30*	1.6	**QRC03**	**80B5/B14**	**8016**	25
	20.4	167	44.18*	1.8	**QRCF03**	**80B5/B14**	**8016**	25
	23.3	146	38.63	2.1	**QRCZ03**	**80B5/B14**	**8016**	25
	26.3	129	34.20*	2.3				
	29.4	115	30.57	2.6				
	27.3	124	51.30*	2.4	**QRC03**	**71B5**	**7124**	25
	31.7	107	44.18*	2.8	**QRCF03**	**71B5**	**7124**	25
	36.2	94	38.63	3.2	**QRCZ03**	**71B5**	**7124**	25
	40.9	83	34.20*	3.6				
0.55	31.6	160	28.5	0.75	**QRC01**	**80B5/B14**	**8026**	21
	38.2	132	23.56	0.91	**QRCF01**	**80B5/B14**	**8026**	21
	45.4	111	19.83	1.1	**QRCZ01**	**80B5/B14**	**8026**	21
	34.9	144	40.1	0.8	**QRC01**	**80B5/B14**	**8014**	21
	39.5	128	35.47	0.9	**QRCF01**	**80B5/B14**	**8014**	21
	49.1	103	28.5	1.2	**QRCZ01**	**80B5/B14**	**8014**	21
	59.4	85	23.56	1.4				
	70.6	71	19.83	1.7				
	78.4	64	17.86	1.6				
	95.8	53	14.62	2.3				
	101	50	13.80*	2				
	118	43	11.9	2.8				
	143	35	9.81	2.8				
	153	33	9.17	2.4				
	181	38	7.72	2.9				
	246	20	5.69	2.9				
	302	17	4.63	3.6				
	366	14	3.82	4.4				
	19.4	260	46.46*	0.77	**QRC02**	**80B5/B14**	**8026**	23
	22.2	227	40.60*	0.88	**QRCF02**	**80B5/B14**	**8026**	23
	25.1	201	35.91*	1	**QRCZ02**	**80B5/B14**	**8026**	23
	31.2	162	28.88*	1.2				
	37.7	134	23.85*	1.5				
	25.9	194	54.00*	1.0	**QRC02**	**80B5/B14**	**8014**	23
	30.1	167	46.46*	1.2	**QRCF02**	**80B5/B14**	**8014**	23
	34.5	146	40.60*	1.4	**QRCZ02**	**80B5/B14**	**8014**	23
	39	129	35.91*	1.5				
	48.5	104	28.88*	1.9				
	58.7	86	23.85*	2.3				

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	fs				Page
0.55	69.7	72	20.08*	2.8	**QRC02**	**80B5/B14**	**8014**	23
	81.9	62	17.10	2.6	**QRCF02**	**80B5/B14**	**8014**	23
	94.5	53	14.81*	3.7	**QRCZ02**	**80B5/B14**	**8014**	23
	17.5	287	51.30*	1.0	**QRC03**	**80B5/B14**	**8026**	25
	20.4	248	44.18*	1.2	**QRCF03**	**80B5/B14**	**8026**	25
	23.3	216	38.63	1.4	**QRCZ03**	**80B5/B14**	**8026**	25
	26.3	192	34.20*	1.6				
	29.4	171	30.57	1.8				
	27.3	185	51.30*	1.6	**QRC03**	**80B5/B14**	**8014**	25
	31.7	159	44.18*	1.9	**QRCF03**	**80B5/B14**	**8014**	25
	36.2	139	38.63	2.2	**QRCZ03**	**80B5/B14**	**8014**	25
	40.9	123	34.20*	2.4				
	45.8	110	30.57	2.7				
	56.0	90	24.99	3.3				
0.75	49.1	140	28.50	0.86	**QRC01**	**80B5/B14**	**8024**	21
	59.4	116	23.56	1.0	**QRCF01**	**80B5/B14**	**8024**	21
	70.6	97	19.83	1.2	**QRCZ01**	**80B5/B14**	**8024**	21
	78.4	88	17.86	1.1				
	95.8	72	14.62	1.7				
	101	68	13.80*	1.5				
	118	58	11.90	2.1				
	143	48	9.81	2.1				
	153	45	9.17	1.8				
	181	38	7.72	2.1				
	246	28	5.69	2.1				
	302	23	4.63	2.6				
	366	19	3.82	3.2				
	31.2	221	28.88*	0.91	**QRC02**	**90B5/B14**	**90S6**	23
	37.7	182	23.85*	1.1	**QRCF02**	**90B5/B14**	**90S6**	23
	44.8	153	20.08*	1.3	**QRCZ02**	**90B5/B14**	**90S6**	23
	30.1	228	48.46*	0.88	**QRC02**	**80B5/B14**	**8024**	23
	34.5	199	40.60*	1.0	**QRCF02**	**80B5/B14**	**8024**	23
	39.0	176	35.91*	1.1	**QRCZ02**	**80B5/B14**	**8024**	23
	48.5	142	28.88*	1.4				
	58.7	117	23.85*	1.7				
	69.7	99	20.08*	2.0				
	81.9	84	17.10	1.9				
	94.5	73	14.81*	2.7				
	106	65	13.21*	2.5				
	116.2	59	12.05	3.4				
	141	49	9.93	3.3				
	159	43	8.78	2.8				
	189	36	7.39	3.3				
	257	27	5.45	3.7				
	97.0	71	28.88*	2.8	**QRC02**	**80B5/B14**	**8012**	23
	117.4	59	23.85*	3.4	**QRCF02**	**80B5/B14**	**8012**	23
	139.4	49	20.08*	4.1	**QRCZ02**	**80B5/B14**	**8012**	23
	163.7	42	17.10	3.8				

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	fs				Page
0.75	17.5	392	51.30*	0.77	**QRC03**	**90B5/B14**	**90S6**	25
	20.4	338	44.18*	0.89	**QRCF03**	**90B5/B14**	**90S6**	25
	23.3	295	38.63	1.0	**QRCZ03**	**90B5/B14**	**90S6**	25
	26.3	261	34.20*	1.1				
	29.4	234	30.57*	1.3				
	36.0	191	24.99	1.6				
	27.3	252	51.30*	1.2	**QRC03**	**80B5/B14**	**8024**	25
	31.7	217	44.18*	1.4	**QRCF03**	**80B5/B14**	**8024**	25
	36.2	190	38.63	1.6	**QRCZ03**	**80B5/B14**	**8024**	25
	40.9	168	34.20*	1.8				
	45.8	150	30.57	2.0				
	56.0	123	24.99	2.4				
	66.2	104	21.15*	2.7				
	72.8	94	19.24*	3.0				
	76.9	89	18.21*	3.1				
	91.5	75	15.30*	3.7				
	105	65	13.30*	3.8				
	111	62	12.60	4.0				
	17.5	392	51.30*	1.3	**QRC04**	**90B5/B14**	**90S6**	27
	20.4	338	44.18*	1.5	**QRCF04**	**90B5/B14**	**90S6**	27
	23.3	295	38.63	1.7	**QRCZ04**	**90B5/B14**	**90S6**	27
	26.3	261	34.20*	1.8				
	29.4	234	30.57*	2.1				
	27.3	252	51.30*	2.0	**QRC04**	**80B5/B14**	**8024**	27
	31.7	217	44.18*	2.3	**QRCF04**	**80B5/B14**	**8024**	27
	36.2	190	38.63	2.6	**QRCZ04**	**80B5/B14**	**8024**	27
	40.9	168	34.20*	2.9				
	45.8	150	30.57	3.2				
	56.0	123	24.99	3.9				
	66.2	104	21.15*	4.0				
1.1	70.6	143	19.83	0.84	**QRC01**	**90B5/B14**	**90S4**	21
	78.4	129	17.86	0.78	**QRCF01**	**90B5/B14**	**90S4**	21
	95.8	105	14.62	1.1	**QRCZ01**	**90B5/B14**	**90S4**	21
	101	99	13.80*	1.0				
	118	86	11.90	1.4				
	143	71	9.81	1.4				
	153	66	9.17	1.2				
	181	56	7.72	1.4				
	246	41	5.69	1.5				
	302	33	4.63	1.8				
	366	28	3.82	2.2				
	285	35	9.81	2.8	**QRC01**	**80B5/B14**	**8022**	21
	305	33	9.17	2.4	**QRCF01**	**80B5/B14**	**8022**	21
	363	28	7.72	2.9	**QRCZ01**	**80B5/B14**	**8022**	21
	492	20	5.69	2.9				
	605	17	4.63	3.6				
	733	14	3.82	4.4				
	39.0	259	35.91*	0.77	**QRC02**	**90B5/B14**	**90S4**	23
	48.5	208	28.88*	1.0	**QRCF02**	**90B5/B14**	**90S4**	23
	58.7	172	23.85*	1.2	**QRCZ02**	**90B5/B14**	**90S4**	23
	69.7	145	20.08*	1.4				
	81.9	123	17.10	1.3				

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	fs				Page
1.1	94.5	107	14.81*	1.9	**QRC02**	**90B5/B14**	**90S4**	23
	106	95	13.21	1.7	**QRCF02**	**90B5/B14**	**90S4**	23
	116	87	12.05	2.3	**QRCZ02**	**90B5/B14**	**90S4**	23
	141	72	9.93	2.2				
	159	63	8.78	1.9				
	189	53	7.39	2.3				
	257	39	5.45	2.5				
	316	32	4.43	3.1				
	383	26	3.66	3.8				
	27.3	370	51.30*	0.81	**QRC03**	**90B5/B14**	**90S4**	25
	31.7	318	44.18*	0.94	**QRCF03**	**90B5/B14**	**90S4**	25
	36.2	278	38.63	1.1	**QRCZ03**	**90B5/B14**	**90S4**	25
	40.9	246	34.20*	1.2				
	45.8	220	30.57	1.4				
	56.0	180	24.99	1.7				
	66.2	152	21.15*	1.8				
	72.8	139	19.24*	2.0				
	76.9	131	18.21*	2.1				
	91.5	110	15.30*	2.5				
	72.5	139	38.63	2.2	**QRC03**	**80B5/B14**	**8022**	25
	81.9	123	34.20*	2.4	**QRCF03**	**80B5/B14**	**8022**	25
	91.6	110	30.57	2.7	**QRCZ03**	**80B5/B14**	**8022**	25
	112.0	90	24.99	3.3				
	132.4	76	21.15*	3.7				
	145.5	69	19.24*	4.0				
	153.8	69	18.21*	4.3				
	27.3	370	51.30*	1.4	**QRC04**	**90B5/B14**	**90S4**	27
	31.7	318	44.18*	1.6	**QRCF04**	**90B5/B14**	**90S4**	27
	36.2	278	38.63	1.8	**QRCZ04**	**90B5/B14**	**90S4**	27
	40.9	246	34.20*	1.9				
	45.8	220	30.57	2.2				
	56.0	180	24.99	2.7				
	66.2	152	21.15*	2.8				
	72.8	139	19.24*	3.0				
	76.9	131	18.21*	3.2				
	91.5	110	15.30*	3.8				
	105	96	13.30	3.7				
1.5	118	117	11.90	1.0	**QRC01**	**90B5/B14**	**90L4**	21
	143	96	9.81	1.0	**QRCF01**	**90B5/B14**	**90L4**	21
	153	90	9.17	0.9	**QRCZ01**	**90B5/B14**	**90L4**	21
	181	76	7.72	1.1				
	246	56	5.69	1.1				
	302	45	4.63	1.3				
	366	38	3.82	1.6				
	305	45	9.17	1.8	**QRC01**	**90B5/B14**	**90S2**	21
	363	38	7.72	2.1	**QRCF01**	**90B5/B14**	**90S2**	21
	492	28	5.69	2.1	**QRCZ01**	**90B5/B14**	**90S2**	21
	605	23	4.63	2.6				
	733	19	3.82	3.2				

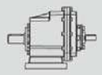
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	fs				Page
1.5	58.7	234	23.85*	0.85	**QRC02**	**90B5/B14**	**90L4**	23
	69.7	197	20.08*	1.0	**QRCF02**	**90B5/B14**	**90L4**	23
	81.9	168	17.10	1.0	**QRCZ02**	**90B5/B14**	**90L4**	23
	94.5	145	14.81*	1.4				
	106	130	13.21	1.2				
	116	118	12.05	1.7				
	141	98	9.93	1.6				
	159	86	8.78	1.4				
	189	73	7.39	1.7				
	257	54	5.45	1.9				
	316	44	4.43	2.3				
	383	36	3.66	2.8				
	212	65	13.21	2.5	**QRC02**	**90B5/B14**	**90S2**	23
	232	59	12.05	3.4	**QRCF02**	**90B5/B14**	**90S2**	23
	282	49	9.93	3.3	**QRCZ02**	**90B5/B14**	**90S2**	23
	319	43	8.78	2.8				
	379	36	7.39	3.3				
	514	27	5.45	3.7				
	40.9	336	34.20*	0.89	**QRC03**	**90B5/B14**	**90L4**	25
	45.8	300	30.57	1.0	**QRCF03**	**90B5/B14**	**90L4**	25
	56.0	245	24.99	1.2	**QRCZ03**	**90B5/B14**	**90L4**	25
	66.2	208	21.15*	1.3				
	72.8	189	19.24*	1.5				
	76.9	179	18.21*	1.6				
	91.5	150	15.30*	1.9				
	105	131	13.30*	1.9				
	111	124	12.60	2.0				
	128	107	10.93*	1.7				
	154	89	9.08	2.0				
	177	78	7.93*	2.3				
	222	62	6.31	2.9				
	255	54	5.48	2.8				
	311	44	4.50	3.4				
	374	37	3.74	4.1				
	256	54	10.93*	3.4	**QRC03**	**90B5/B14**	**90S2**	25
	308	45	9.08	4.0	**QRCF03**	**90B5/B14**	**90S2**	25
	353	39	7.93*	4.6	**QRCZ03**	**90B5/B14**	**90S2**	25
	26.3	523	34.20*	0.92	**QRC04**	**100B5/B14**	**100L6**	27
	29.4	467	30.57	1.0	**QRCF04**	**100B5/B14**	**100L6**	27
	36.0	382	24.99	1.3	**QRCZ04**	**100B5/B14**	**100L6**	27
	27.3	504	51.30*	1.0	**QRC04**	**90B5/B14**	**90L4**	27
	31.7	434	44.18*	1.2	**QRCF04**	**90B5/B14**	**90L4**	27
	36.2	379	38.63	1.3	**QRCZ04**	**90B5/B14**	**90L4**	27
	40.9	336	34.20*	1.4				
	45.8	300	30.57	1.6				
	56.0	245	24.99	2.0				
	66.2	208	21.15*	2.0				
	72.8	189	19.24*	2.2				
	76.9	179	18.21*	2.3				
	91.5	150	15.30*	2.8				
	105	131	13.30*	2.7				
	111	124	12.60	2.8				
	128	107	10.93*	2.6				
	154	89	9.08	3.1				
	177	78	7.93*	3.3				

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	fs				Page
2.2	72.8	277	19.24*	1.0	**QRC03**	**100B5/B14**	**100L14**	25
	91.5	220	15.30*	1.1	**QRCF03**	**100B5/B14**	**100L14**	25
	105	192	13.30*	1.3	**QRCZ03**	**100B5/B14**	**100L14**	25
	111	182	12.60	1.4				
	128	157	10.93*	1.1				
	154	131	9.08	1.4				
	177	114	7.93*	1.6				
	222	91	6.31	2.0				
	255	79	5.48	1.9				
	311	65	4.50	2.3				
	374	54	3.74	2.8				
	308	65	9.08	2.8	**QRC03**	**90B5/B14**	**90L2**	25
	353	57	7.93*	3.2	**QRCF03**	**90B5/B14**	**90L2**	25
	444	45	6.31	4.0	**QRCZ03**	**90B5/B14**	**90L2**	25
	511	39	5.48	3.8				
	36.0	560	24.99	0.86	**QRC04**	**112B5/B14**	**112M6**	27
	46.8	431	19.24*	1.0	**QRCF04**	**112B5/B14**	**112M6**	27
					QRCZ04	**112B5/B14**	**112M6**	27
	40.9	493	34.20*	1.0	**QRC04**	**100B5/B14**	**100L14**	27
	45.8	440	30.57	1.1	**QRCF04**	**100B5/B14**	**100L14**	27
	56.0	360	24.99	1.3	**QRCZ04**	**100B5/B14**	**100L14**	27
	72.8	277	19.24*	1.5				
	91.5	220	15.30*	1.9				
	105	192	13.30*	1.8				
	111	182	12.60	1.9				
	128	157	10.93*	1.8				
	154	131	9.08	2.1				
	177	114	7.93*	2.3				
	222	91	6.31	2.9				
	255	79	5.48	2.9				
	311	65	4.50	3.5				
	374	54	3.74	4.3				
3	91.5	301	15.30*	0.93	**QRC03**	**100B5/B14**	**100L24**	25
	105	261	13.30*	1.0	**QRCF03**	**100B5/B14**	**100L24**	25
	111	248	12.60	1.0	**QRCZ03**	**100B5/B14**	**100L24**	25
	128	215	10.93*	0.8				
	154	178	9.08	1.0				
	177	156	7.93*	1.2				
	222	124	6.31	1.5				
	255	108	5.48	1.4				
	311	88	4.50	1.7				
	374	73	3.74	2.0				
	45.8	601	30.57	0.80	**QRC04**	**100B5/B14**	**100L24**	27
	56.0	491	24.99	1.0	**QRCF04**	**100B5/B14**	**100L24**	27
	72.8	378	19.24*	1.1	**QRCZ04**	**100B5/B14**	**100L24**	27
	91.5	301	15.30*	1.4				
	105	261	13.30*	1.3				
	111	248	12.60	1.4				
	128	215	10.93*	1.3				
	154	178	9.08	1.6				

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	fs				Page
3	177	156	7.93*	1.7	**QRC04**	**100B5/B14**	**100L24**	27
	222	124	6.31	2.1	**QRCF04**	**100B5/B14**	**100L24**	27
	255	108	5.48	2.1	**QRCZ04**	**100B5/B14**	**100L24**	27
	311	88	4.50	2.6				
	374	73	3.74	3.1				
	308	89	9.08	3.1	**QRC04**	**100B5/B14**	**100L2**	27
	353	78	7.93*	3.3	**QRCF04**	**100B5/B14**	**100L2**	27
	444	62	6.31	4.2	**QRCZ04**	**100B5/B14**	**100L2**	27
	511	54	5.48	4.3				
4	177	208	7.93*	0.87	**QRC03**	**112B5/B14**	**112M4**	25
	222	165	6.31	1.1	**QRCF03**	**112B5/B14**	**112M4**	25
	255	144	5.48	1.0	**QRCZ03**	**112B5/B14**	**112M4**	25
	311	188	4.50	1.3				
	374	98	3.74	1.5				
	105	348	13.30*	1.0	**QRC04**	**112B5/B14**	**112M4**	27
	111	330	12.60	1.1	**QRCF04**	**112B5/B14**	**112M4**	27
	128	286	10.93*	1.0	**QRCZ04**	**112B5/B14**	**112M4**	27
	154	238	9.08	1.2				
	177	208	7.93*	1.3				
	222	165	6.31	1.6				
	255	144	5.48	1.6				
	311	118	4.50	2.0				
	374	98	3.74	2.3				
	308	119	9.08	2.4	**QRC04**	**112B5/B14**	**112M2**	27
	353	104	7.93*	2.5	**QRCF04**	**112B5/B14**	**112M2**	27
	444	83	6.31	3.1	**QRCZ04**	**112B5/B14**	**112M2**	27
	511	72	5.48	3.2				
	622	59	4.50	3.9				

SRC..HS..Performance parameter

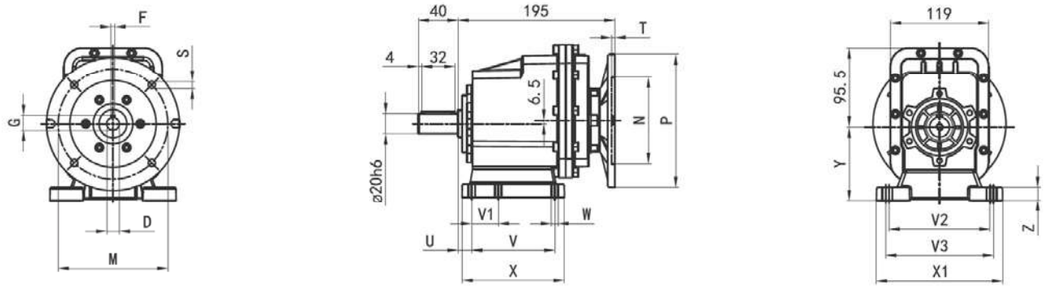
M_{2max} [Nm]	n_1 [r/min]	i	P_{1n} [kW]	n_2 [r/min]		Page
120	1400	53.33	0.34	26.3	**QRC01 - HS**	22
120	1400	45.89	0.40	30.5	**QRCF01 - HS**	22
120	1400	40.10	0.46	34.9	**QRCZ01 - HS**	22
120	1400	35.47	0.52	39.5		
120	1400	28.50	0.64	49.1		
120	1400	23.56	0.78	59.4		
120	1400	19.83	0.92	70.6		
100	1400	17.86	0.86	78.4		
120	1400	14.62	1.25	95.7		
100	1400	13.80*	1.10	101		
120	1400	11.90	1.54	118		
100	1400	9.81	1.56	143		
80	1400	9.17	1.34	153		
80	1400	7.72	1.58	181		
60	1400	5.69	1.61	246		
60	1400	4.63	1.98	302		
60	1400	3.82	2.40	367		
200	1400	54.00*	0.57	25.9	**QRC02 - HS**	24
200	1400	46.46*	0.66	30.1	**QRCF02 - HS**	24
200	1400	40.60*	0.75	34.5	**QRCZ02 - HS**	24
200	1400	35.91*	0.85	39		
200	1400	28.88*	1.06	48.5		
200	1400	23.85*	1.28	58.7		
200	1400	20.08*	1.52	69.7		
160	1400	17.10	1.43	81.9		
200	1400	14.81*	2.06	94.6		
160	1400	13.21	1.85	106		
200	1400	12.05	2.53	116		
160	1400	9.93	2.46	141		
120	1400	8.78	2.08	159		
120	1400	7.39	2.49	190		
100	1400	5.45	2.80	257		
100	1400	4.43	3.45	316		
100	1400	3.66	4.18	383		

M_{2max} [Nm]	n_1 [r/min]	i	P_{1n} [kW]	n_2 [r/min]		Page
300	1400	51.30*	0.89	27.3	**QRC03 - HS**	26
300	1400	44.18*	1.04	31.7	**QRCF03 - HS**	26
300	1400	38.63	1.19	36.2	**QRCZ03 - HS**	26
300	1400	34.20*	1.34	40.9		
300	1400	30.57	1.50	45.8		
300	1400	24.99	1.83	56.0		
280	1400	21.15*	2.02	66.2		
280	1400	19.24*	2.22	72.8		
250	1400	18.21*	2.10	76.9		
280	1400	15.30*	2.79	91.5		
250	1400	13.30*	2.86	105		
250	1400	12.60	3.03	111		
180	1400	10.93*	2.51	128		
180	1400	9.08	3.02	154		
180	1400	7.93*	3.46	176		
180	1400	6.31	4.36	222		
150	1400	5.48	4.17	255		
150	1400	4.50	5.09	311		
150	1400	3.74	6.12	374		
500	1400	51.30*	1.49	27.3	**QRC04 - HS**	28
500	1400	44.18*	1.73	31.7	**QRCF04 - HS**	28
500	1400	38.63	1.98	36.2	**QRCZ04 - HS**	28
480	1400	34.20*	2.14	40.9		
480	1400	30.57	2.40	45.8		
480	1400	24.99	2.93	56.0		
480	1400	21.15*	2.02	66.2		
420	1400	19.24*	3.34	72.8		
420	1400	15.30*	4.19	91.5		
350	1400	13.30*	4.01	105		
350	1400	12.60	4.24	111		
280	1400	10.93*	3.91	128		
280	1400	9.08	4.70	154		
260	1400	7.93*	4.99	176		
260	1400	6.31	6.30	222		
230	1400	5.48	6.40	255		
230	1400	4.50	7.80	311		
230	1400	3.74	9.38	374		

OUTLINE DIMENSION SHEET

QRC 01..P(IEC)

INPUT



QRCF 01..P(IEC)

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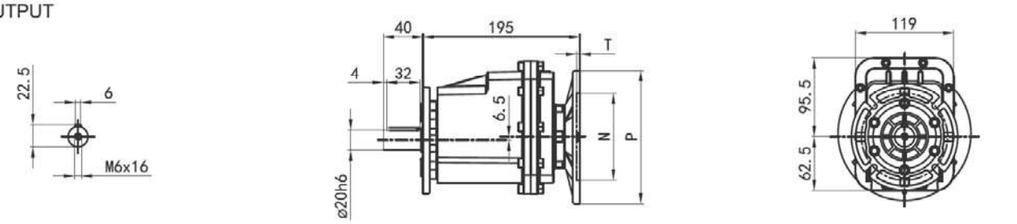

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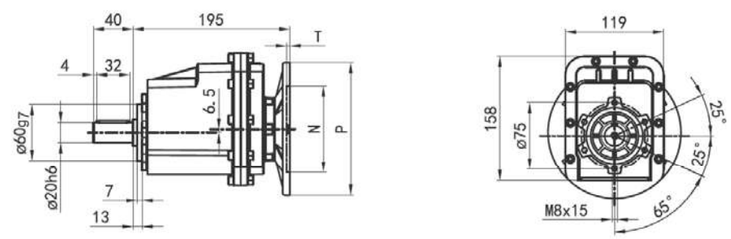


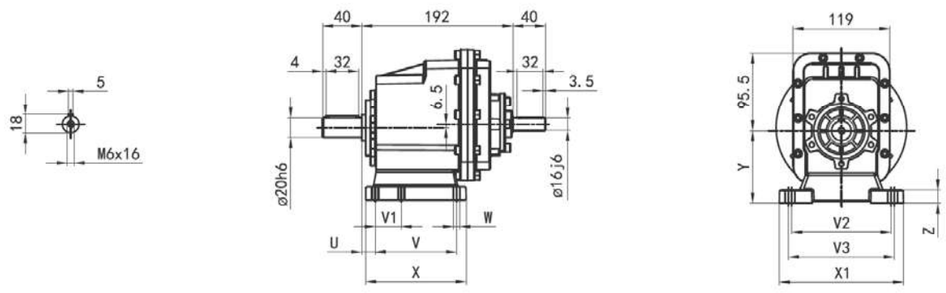
IEC	D	F	G	P	M	N	S	T
63B5	11	4	12.8	140	115	95	9	5
71B5	14	5	16.3	160	130	110	9	5
71B14	14	5	16.3	105	85	70	7	5
80B5	19	6	21.8	200	165	130	11	5
80B14	19	6	21.8	120	100	80	7	5
90B5	24	8	27.3	200	165	130	11	5
90B14	24	8	27.3	140	115	95	9	5

Foot Code	U	V	V_1	V_2	V_3	W	X	X_1	Y	Z
B01	18	87	50	110	–	9	118	130	85	15
M01	18	80	–	110	120	9	118	145	75	15
M02	25	85	–	110	120	9	112	145	75	15
B02	18	107.5	60	–	130	11	136	155	95	17

OUTLINE DIMENSION SHEET

QRC 01..HS

INPUT



QRCF 01..HS

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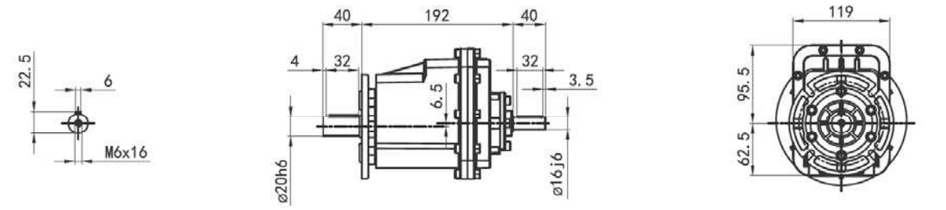
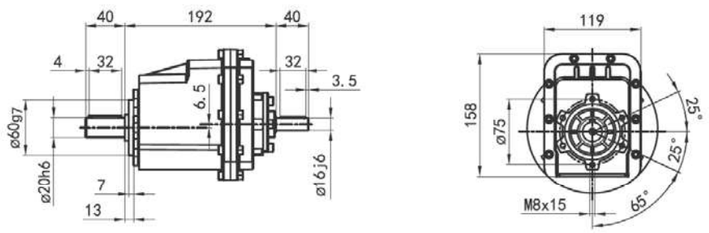
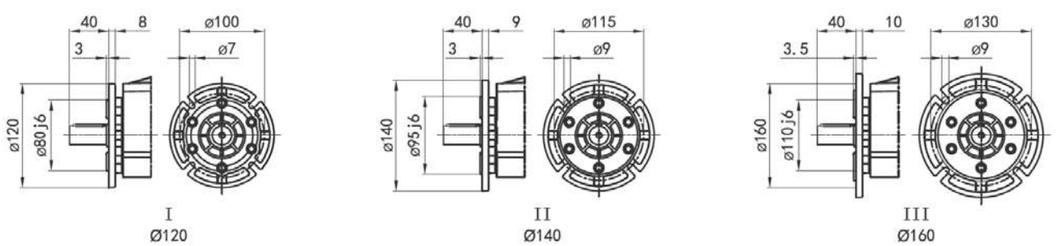


QRCZ 01..HS



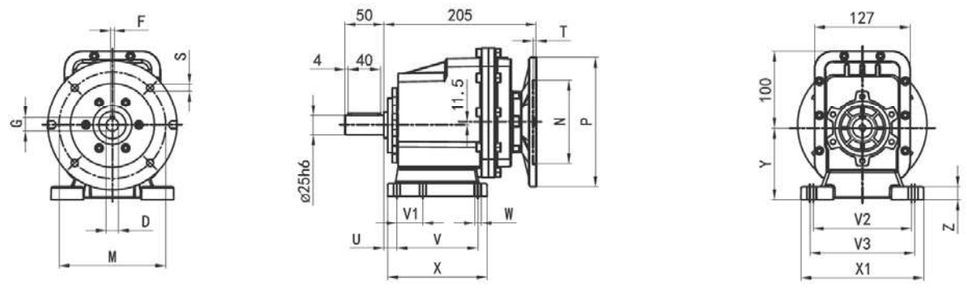
OUTPUT FLANGE



OUTLINE DIMENSION SHEET

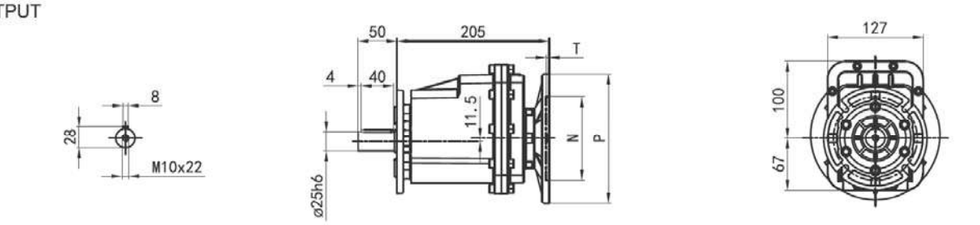
QRC 02..P(IEC)

INPUT

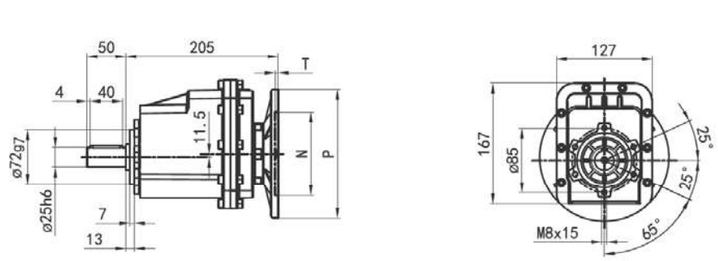


QRCF 02..P(IEC)

OUTPUT



QRCZ 02..P(IEC)



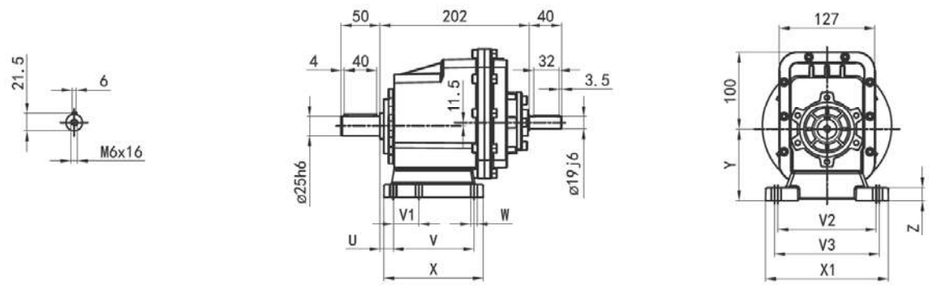
IEC	D	F	G	P	M	N	S	T
63B5	11	4	12.8	140	115	95	9	5
71B5	14	5	16.3	160	130	110	9	5
71B14	14	5	16.3	105	85	70	7	5
80B5	19	6	21.8	200	165	130	11	5
80B14	19	6	21.8	120	100	80	7	5
90B5	24	8	27.3	200	165	130	11	5
90B14	24	8	27.3	140	115	95	9	5

Foot Code	U	V	V_1	V_2	V_3	W	X	X_1	Y	Z
B02	18	107.5	60	-	130	11	136	155	100	17
M02	25	85	-	110	120	9	112	145	80	15
M01	18	80	-	110	120	9	118	145	80	15
B01	18	87	50	110	-	9	118	130	90	15

OUTLINE DIMENSION SHEET

QRC 02..HS

INPUT



QRCF 02..HS

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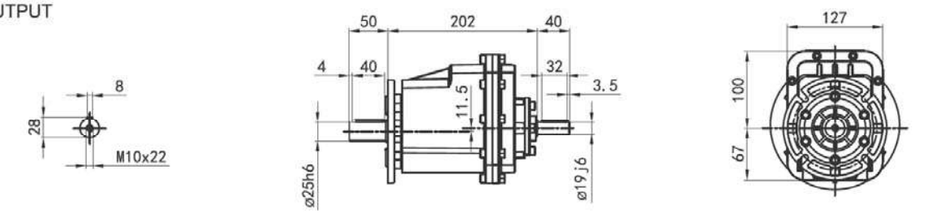
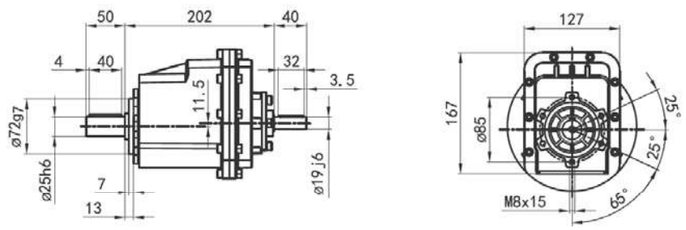
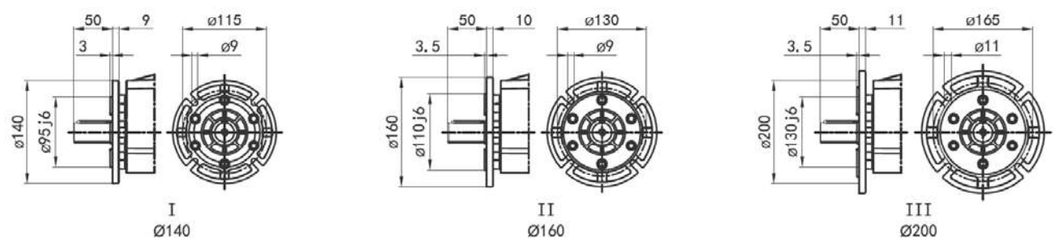


QRCZ 02..HS



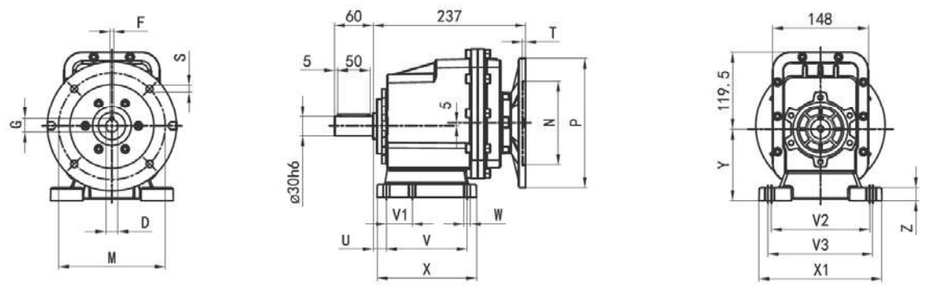
OUTPUT FLANGE



OUTLINE DIMENSION SHEET

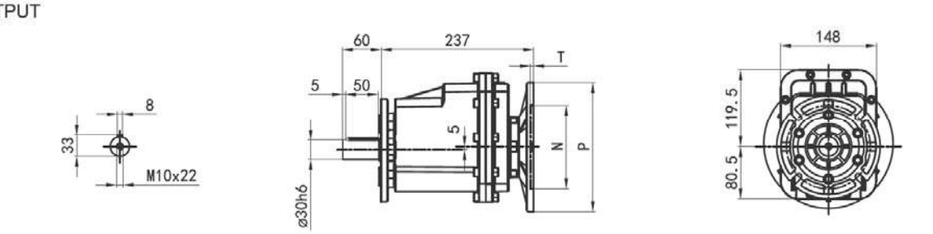
QRC 03..P(IEC)

INPUT



QRCF 03..P(IEC)

OUTPUT



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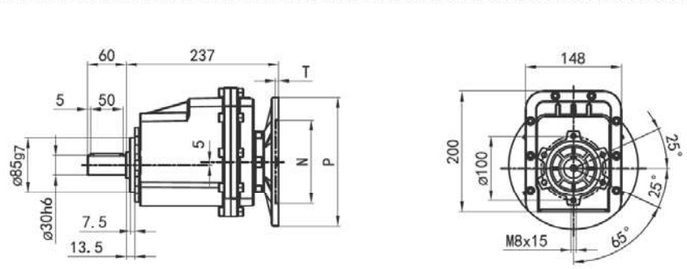


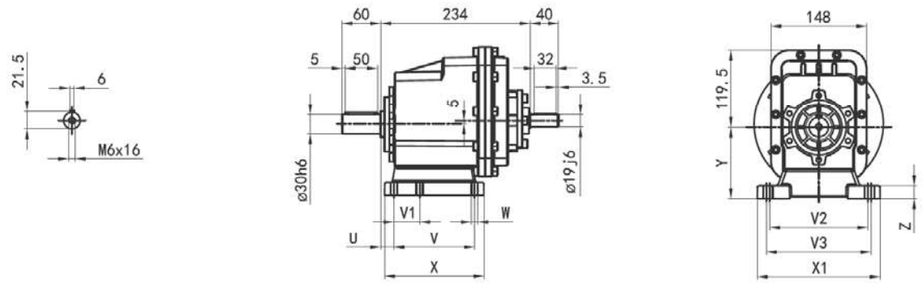
IEC	D	F	G	P	M	N	S	T
71B5	14	5	16.3	160	130	110	9	5
80B5	19	6	21.8	200	165	130	11	5
80B14	19	6	21.8	120	100	80	7	5
90B5	24	8	27.3	200	165	130	11	5
90B14	24	8	27.3	140	115	95	9	5
100/112B5	28	8	31.3	250	215	180	13.5	5
100/112B14	28	8	31.3	160	130	110	9	5

Foot Code	U	V	V_1	V_2	V_3	W	X	X_1	Y	Z
B03	18	130	70	-	160	11	156	190	110	20
M03	30	100	-	135	150	11	150	190	110	18
M04	32	110	-	170	185	14	150	230	110	20
B04	20.5	130	-	170	-	14	168	205	105	20

OUTLINE DIMENSION SHEET

QRC 03..HS

INPUT



QRCF 03..HS

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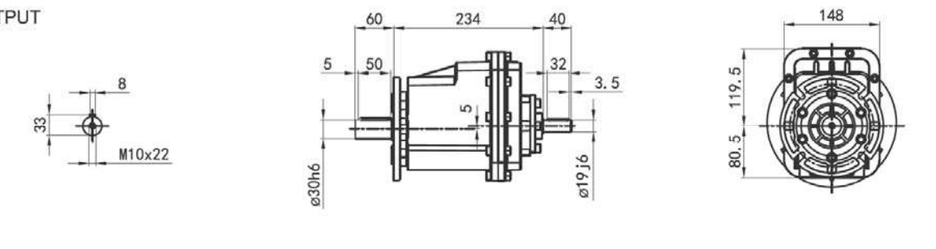

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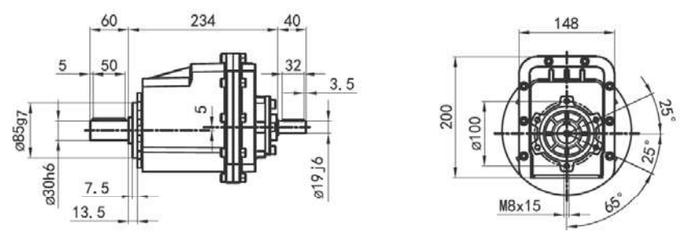
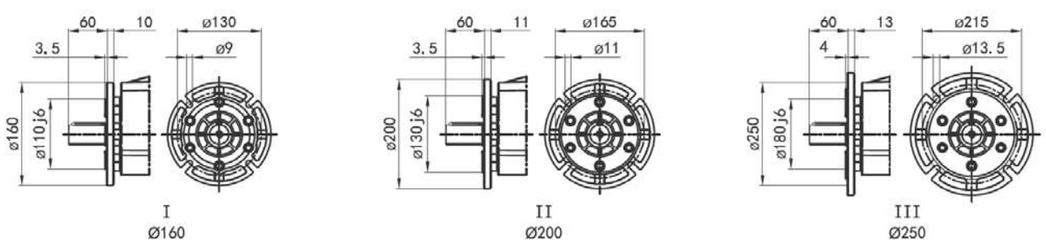


OUTPUT FLANGE



OUTLINE DIMENSION SHEET

QRC 04..P(IEC)

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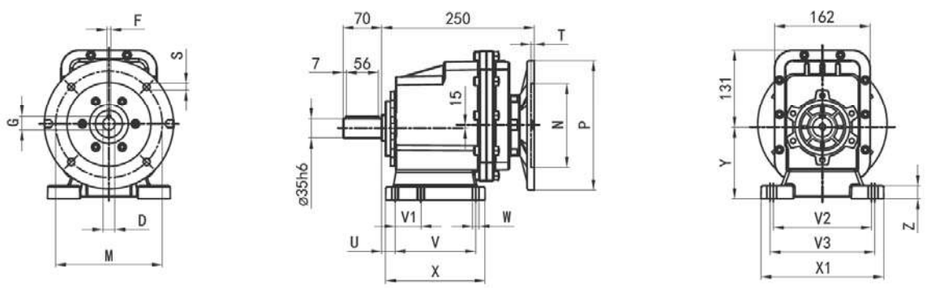

QRCF 04..P(IEC)

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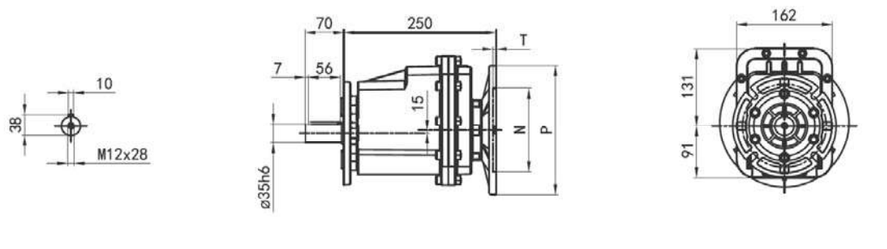

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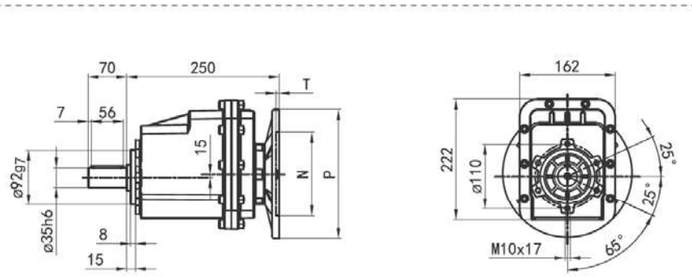


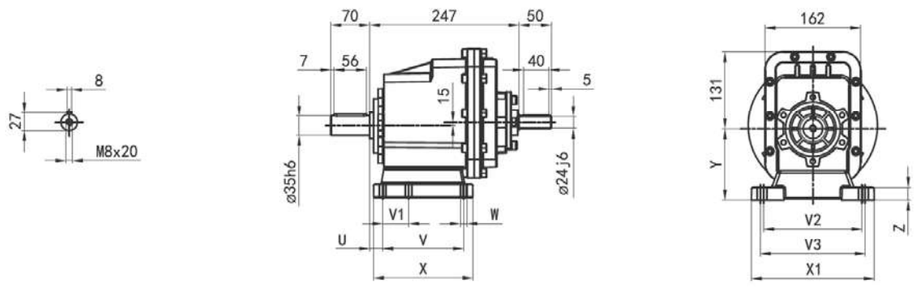
IEC	D	F	G	P	M	N	S	T
80B5	19	6	21.8	200	165	130	11	5
80B14	19	6	21.8	120	100	80	7	5
90B5	24	8	27.3	200	165	130	11	5
90B14	24	8	27.3	140	115	95	9	5
100/112B5	28	8	31.3	250	215	180	13.5	5
100/112B14	28	8	31.3	160	130	110	9	5

Foot Code	U	V	V_1	V_2	V_3	W	X	X_1	Y	Z
B04	23.5	130	–	170	–	14	168	205	115	20
M04	35	110	–	170	185	14	150	230	120	20
M03	33	100	–	135	150	11	150	190	120	18
B03	21	130	70	–	160	11	156	190	120	20

OUTLINE DIMENSION SHEET

QRC 04..HS

INPUT



QRCF 04..HS

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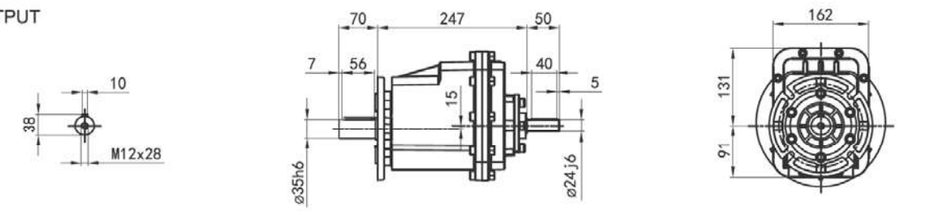
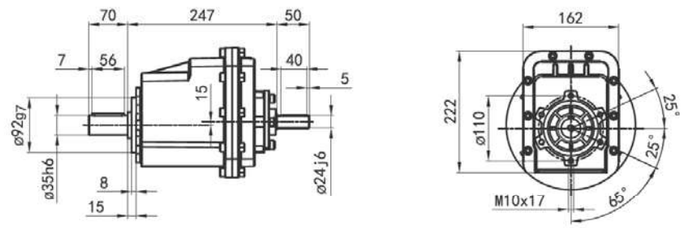
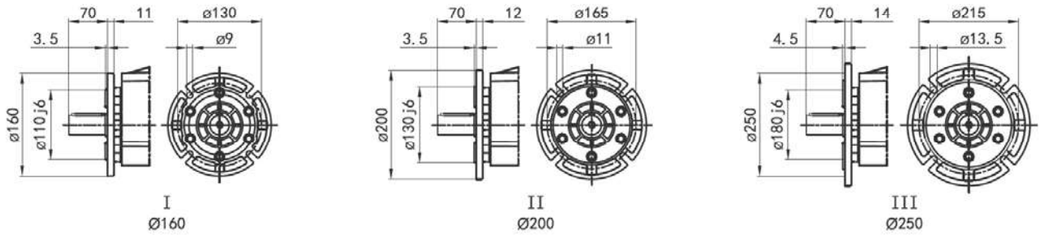


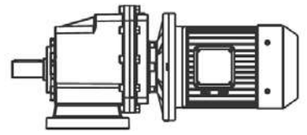
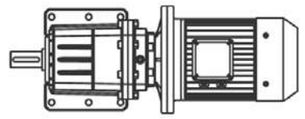
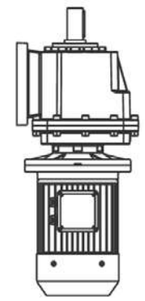
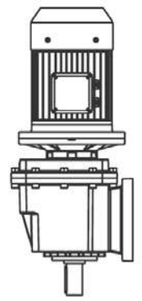
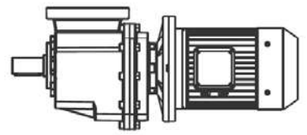
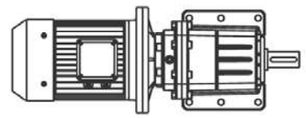
QRCZ 04..HS

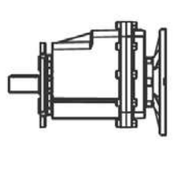
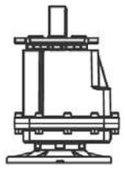
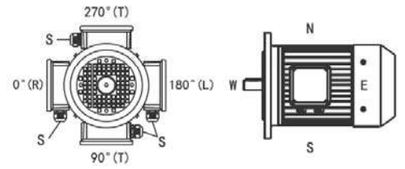


OUTPUT FLANGE



MOUNTING POSITION AND TERMINAL BOX ORIENTATION

QRC .. M1	M5	M2	M4
			
M3	M6		
			

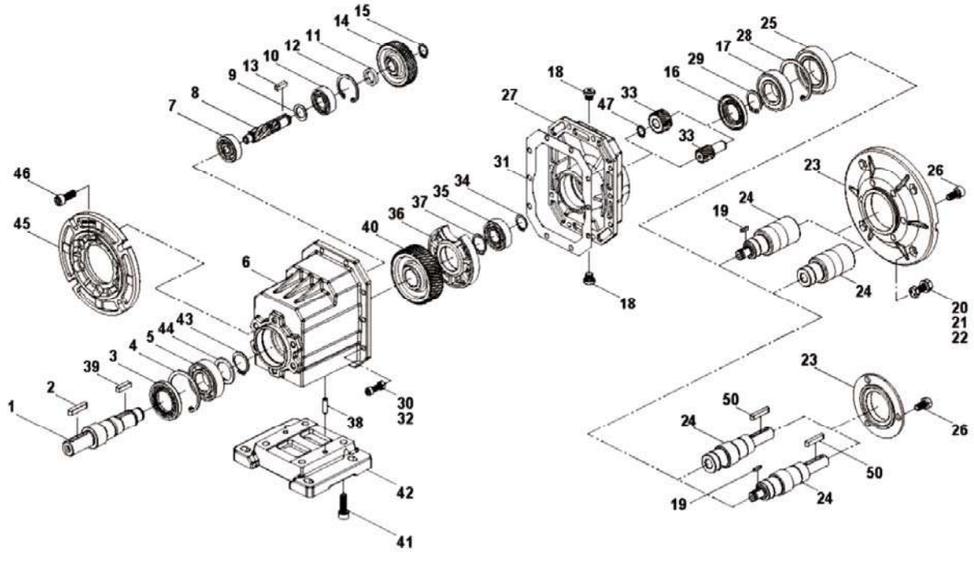
QRCF .. M1	M2	M4	Terminal box orientation
			

LUBRICANT FILL QUANTITY

Gear units	Fill quantity in liters					unit: (L)
	M1	M2	M3	M4	M5	M6
QRC..01..	0.4	0.6	0.4	0.3	0.3	0.3
QRC..02..	0.5	0.7	0.5	0.4	0.4	0.4
QRC..03..	0.8	1.1	0.8	0.6	0.6	0.6
QRC..04..	1.2	1.6	1.0	1.0	0.9	0.9

The fill quantity in the table is referenced,the exact value velating to the ratio.All QRC Series helical gear units are filled with life lubrication before delivery,do not need to change it in general.

BASIC STRUCTURE



1	Output shaft	25	Bearing
2	Parallel key	26	Inner hex screw
3	Oil seal	27	Intput cover
4	Hole circlip	28	Hole circlip
5	Bearing	29	Shaft circlip
6	Gear box	30	Hex head bolt
7	Bearing	31	Housing gasket
8	Pinion shaft	32	Inner hex screw
9	Circlips retaining rings	33	Pinion
10	Bearing	34	Shaft circlip
11	Spacer ring	35	Bearing
12	Hole circlip	36	Support seat
13	Parallel key	37	Shaft circlip
14	Gear	38	Cylindrical pin
15	Shaft circlip	39	Parallel key
16	Oil seal	40	Gear
17	Bearing	41	Inner hex screw
18	Oil plug	42	Foot
19	Parallel key	43	Shaft circlip
20	Hex head bolt	44	Washe
21	Washe	45	Output flage
22	Hex head bolt	46	Hex socket screws
23	Intput flange	47	Shaft circlip
24	Intput shaft	48	Parallel key