



齿
轮
减
速
电
机
选
型
手
册



in spirit in the gear industry



因专业 而杰出
Excellence From Expertise



JF

在专业化的路上走向胜利
On road to specialization strive together

1=^bE $\frac{4}{4}$

稍快、朝气蓬勃地
allegretto, full of youth

||: (1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 5̣ 1 1 2 3 4 5 6 | 5̣

5̣ 1 1 2 3 1 0 | 5̣ 4 3 2 3 1 0 | i 7 7 6 6 5 | 6

要做就做 一流 是我永恒追求 产业联盟 我们

To be the star is my eternal pursue industrial union we

产业事业家业 共同富裕和谐 目标在前 我们

Estate career family harmonious with wealth for the goal ahead we

5̣ 1 1 2 3 1 0 | 5̣ 4 3 2 3 1 0 | 1 1 7 6 | 5 4

聚万物之灵 造天地之杰 产业发展 我们

Nimbus from all beings making it outstanding industry developing we w

团结创新专业 推动联盟发展 胜利在前 我们

Joint Innovation Expertise enhancing the union for the victory ahead we w

i - i i 7 i | 5 - - 1 | 6 - 6 6 7 i 3

啦啦啦啦 啦啦 啦啦啦啦

La La La La La La La La La La

(节奏强烈、有冲击力)

(hot, powerful)

1 - 4 5 | 6 7 i 6 · 5 | 6 6 5 4 3 5 | 5

在专业化的路上 我们一起努力

On road to specialization we strive together

1 - 4 5 | 6 7 i 6 · 5 | 4 3 2 2 1 2 | 2

在专业化的路上 我们走向胜利

On road to specialization we go to victory

1 - 4 5 | 6 7 i 6 · 5 | 6 6 5 4 3 6 | 6

在专业化的路上 我们一起努力

On road to specialization we strive together

JIE 杰牌传动
ASIADRIVE JIE ASIA DRIVE

因 专 业 而 杰 出

亚洲传动专家
Asia Drive Expert



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1. 产品图片 Product Pictures




2. 产品说明




杰牌 JRT.. 系列硬齿面齿轮减速电机是具有国际先进水平的著名品牌传动产品，包括 JRTR 系列斜齿轮减速电机、JRTF 系列平行轴——斜齿轮减速电机、JRTK 系列斜齿轮-伞齿轮减速电机、JRTS 系列斜齿轮-蜗轮蜗杆减速电机。



杰牌 JRT.. 系列产品遵循模块化、最优化设计理念，运用有限元分析技术，采用独特的低噪音齿轮齿形设计，确保设计的先进性；传动比分级精细，具备数百万种不同的组合，可满足用户各种不同需求；从选料到制造均做到细致入微、严格把关——箱体精密铸造、美观坚固，齿轮渗碳硬化、经久耐用。以 FMC 柔性制造单元加工，实现产品的高精度、免维护。



我公司还备有双联型减速电机（输入端加装一个斜齿轮减速器）、锁紧盘、花键空心轴、B14 法兰等多种组合方式供客户选择，详情请向我公司咨询。



Product Description

JIE JRT.. Series Geared Motor is the famous brand in drive field with international advanced level, including JRTR Series Helical Geared Motor, JRTF Series Parallel Shaft-Helical Geared Motor, JRTK Series Helical-Bevel Geared Motor, JRTS Series Helical-Worm.

JIE JRT.. Series products follow the philosophy of modularization and optimization, adopt finite element analysis method and unique lower noise technology in designing gear, to insure advanced design. The classification of ratio is so accurate that. Gear profile design for lower noise level. It has millions of combinations to meet various demand of customers. The process from the material selection to manufacturing is strictly controlled ---house is beautiful and rigid casted by precision control, gear is endurable by carburizing. Take the flexible manufacturing control (FMC)..... in the manufacturing to realize the high precision level and free-maintenance of products.

Our corporation also provides other product options such as combined geared motor, shrink disk, spline hollow shaft, B14 flange. Please consult our company for further information.



3. 型号说明 Model Notes

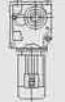
3.1 减速电机符号说明

J	RTR	F	67	II	DS	80	S	4	BE	HF	TF	128.97	M1	180°
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 企业代码 J-- 杰牌企业	2 产品代码 RTR--斜齿轮减速电机 RTF--平行轴-斜齿轮减速电机 RTK--斜齿轮-伞齿轮减速电机 RTS--斜齿轮-蜗轮蜗杆减速电机	3 装配型式 无代码-- 底脚安装 F-- 法兰安装 ..F-- 底脚法兰安装 M-- 法兰安装带加长轴承箱 X-- 底脚安装单级传动 XF-- 法兰安装单级传动	4 减速机规格号 67-- 减速机规格号为 67	5 法兰盘大小 无代码--无法兰, 或只有一种法兰, 或一种以上法兰中的最小法兰 II-- 两种法兰中的大法兰, 三种法兰中的中法兰 III-- 三种法兰中的最大法兰	6 电动机 D--三相异步电动机(IP54) DP/DE/DS 能效电机1级/2级/3级 YB--隔爆型三相异步电动机 YGP--铁道用变频调速三相异步电动机 YZP--冶金、起重用变频调速三相异步电动机 YD--变频多速三相异步电动机	7 电动机规格代号 80-- 电机中心高为 80mm	8 电动机定子铁心长度代号 S、M、L	9 电动机极数 4-- 电动机极数为 4	10 制动器 无代码 -- 无制动器 BE-- 盘式制动器	11 手动释放装置 无代码--无手动释放装置 HF--释放螺钉 锁在制动释放位置 HR--释放手柄 自动返回制动位置	12 电机热保护 无代码--无电机热保护 TF--热敏电阻保护装置 PTC热敏电阻 TH--恒温器保护装置 双金属片开关	13 减速机传动比 128.97-- 减速机传动比为 128.97	14 安装位置 M1-- 安装型式图中 M1 位置	15 接线盒位置 无代码 -- 安装型式图中 0° 位置 180°-- 安装型式图中 180° 位置

Code Introduction

1 Enterprise Code J--JIE Corp	2 Product Code RTR--Helical Geared Motor RTF--Parallel Shaft-Helical Geared Motor RTK--Helical-Bevel Geared Motor RTS--Helical-Worm Geared Motor	3 Installation type No Code--Feet-mounted F--Flange-mounted F--Feet and Flange-mounted M--Flange-mounted with extended bearing housing X--Single-stage Feet-mounted XF--Single-stage Flange-mounted	4 Gear Unit Size 67--Gear Unit Size 67	5 Flange Size I --No Code--No Flange or Only One Flange or The Smallest Flange II --Second Bigger Flange III --Biggest Flange
6 Electric Motor D--Three Phase Asynchronous Motor(IP 54) DP/DE/DS -- Energy efficiency rating class 1/class 2/class 3 YB--Flame-proof Three Phase Asynchronous Motor YGP--Table Roller Three Phase Asynchronous Motor YZP--Metallurgy Hoist Frequency Variable Motor YD--Multi Speed Three Phase Motor	7 Frame Size 80--Motor Center Height 80mm	8 Stator Length S、M、L	9 Number of Poles 4--4 Poles	10 Brake No Code--No Brakes BE--Brakes
11 Brake Release No Code--No Brake Release HF--Screw release(lock in the brake release position) Brake Release HR--handle release(automatic braking position)	12 Thermal Protection No Code--No Thermistor TF--Thermistor Sensor TF--Thermistor protection (PTC thermistor) TH--Thermostat protection (Bimetal switch)	13 Ratio 128.97--Ratio 128.97	14 Mounting Position M1--Mounting Position M1	15 Terminal Box Position No Code--Terminal Box Position is 0° 180° --Terminal Box Position is 180°





J RTF A 67 / G DS 80 S 4 / BE / HF / TF / 109.04 / M1 / 180°

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 企业代码 J-- 杰牌企业	2 产品代码 RTR--斜齿轮减速机 RTF--平行轴-斜齿轮减速机 RTK--斜齿轮-伞齿轮减速机 RTS--斜齿轮-蜗轮蜗杆减速机	3 装配型式 无代码-- 底脚安装 F-- 法兰安装 A-- 空心轴安装 AF-- 法兰空心轴安装	4 减速机规格号 67-- 减速机规格号为 67	5 扭矩臂 无代码-- 无扭矩臂 G-- 扭矩臂	6 电动机 D--三相异步电动机(IP54) DP/DE/DS 能效电机1级/2级/3级 YB--隔爆型三相异步电动机 YGP--强迫变频调速三相异步电动机 YZP--冶金、起重变频调速三相异步电动机 YD--变频多速三相异步电动机	7 电动机规格代号 80-- 电机中心高为 80mm	8 电动机定子铁心长度代号 S、M、L	9 电动机极数 4-- 电动机极数为 4	10 制动器 无代码-- 无制动器 BE-- 盘式制动器	11 手动释放装置 无代码-- 无手动释放装置 HF-- 释放螺钉 锁在制动释放位置 HR-- 释放手柄 自动返回制动位置	12 电机热保护 无代码-- 无电机热保护 TF-- 热敏电阻保护装置 PTC热敏电阻 TH-- 恒温器保护装置 双金属片开关	13 减速机传动比 109.04-- 减速机传动比为 109.04	14 安装位置 M1-- 安装型式图中 M1 位置	15 接线盒位置 无代码-- 安装型式图中 0° 位置 180°-- 安装型式图中 180° 位置

J RTF A 67 / G DS 80 S 4 / BE / HF / TF / 109.04 / M1 / 180°

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 Enterprise Code J--JIE Corp	2 Product Code RTR--Helical Geared Motor RTF--Parallel Shaft-Helical Geared Motor RTK--Helical-Bevel Geared Motor RTS--Helical-Worm Geared Motor	3 Unit Model No Code--Feet-mounted F--Flange-mounted A--Hollow Shaft-mounted AF--Flange-mounted with Hollow Shaft	4 Gear Unit Size 67--Gear Unit Size 67	5 Torque Arm No Code--No Torque Arm G--Torque Arm	6 Electric Motor D--Three Phase Asynchronous Motor(IP 54) DP/DE/DS - Energy efficiency rating class 1/class 2/class 3 YB--Flame-proof Three Phase Asynchronous Motor YGP--Table Roller Three Phase Asynchronous Motor YZP--Metallurgy Hoist Frequency Variable Motor YD--Multi Speed Three Phase Motor	7 Frame Size 80--Motor Center Height 80mm	8 Stator Length S、M、L	9 Number of Poles 4-- 4 Poles	10 Brake No Code--No Brakes BE--Brakes	11 Brake Release No Code--No Brake Release HF--Screw release(lock in the brake release position) Brake Release HR--handle release(automatic braking position)	12 Thermal Protection No Code--No Thermistor TF--Thermistor Sensor TF--Thermistor protection (PTC thermistor) TH--Thermostat protection (Bimetal switch)	13 Ratio 109.04--Ratio 109.04	14 Mounting Position M1--Mounting Position M1	15 Terminal Box Position No Code--Terminal Box Position is 0° 180° --Terminal Box Position is 180°



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
J	RTKA	67	T	DS	80	S	4	BE	HF	TF	108.03	B	M1	180°	
1 企业代码 J-- 杰牌企业	2 产品代码 RTR--斜齿轮减速电机 RTF--平行轴-斜齿轮减速电机 RTK--斜齿轮-伞齿轮减速电机 RTS--斜齿轮-蜗轮蜗杆减速电机	3 装配型式 无代码-- 底脚安装 F-- 法兰安装 A-- 空心轴安装 AF-- 法兰空心轴安装	4 减速机规格号 67-- 减速机规格号为 67	5 扭矩臂 无代码-- 无扭矩臂 T-- 扭矩臂	6 电动机 D--三相异步电动机(IP54) DP/DE/DS 能效电机1级/2级/3级 YB--隔爆型三相异步电动机 YGP--磁道用变频调速三相异步电动机 YZP--冶金、起重用变频调速三相异步电动机 YD--变频多速三相异步电动机	7 电动机规格代号 80-- 电机中心高为 80mm	8 电动机定子铁心长度代号 S、M、L	9 电动机极数 4-- 电动机极数为 4	10 制动器 无代码-- 无制动器 BE--盘式制动器	11 手动释放装置 无代码-- 无手动释放装置 HF--释放螺钉 锁在制动释放位置 HR--释放手柄 自动返回制动位置	12 电机热保护 无代码-- 无电机热保护 TF--热敏电阻保护装置 PTC热敏电阻 TH--恒温器保护装置 双金属片开关	13 减速机传动比 108.03-- 减速机传动比为 108.03	14 轴指向 A -- 轴指向为 A B -- 轴指向为 B AB -- 双输出轴	15 安装位置 M1-- 安装型式图中 M1 位置	16 接线盒位置 无代码-- 安装型式图中 0° 位置 180°-- 安装型式图中 180° 位置



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
J	RTKA	67	T	DS	80	S	4	BE	HF	TF	108.03	B	M1	180°	
1 Enterprise Code J--JIE Corp	2 Product Code RTR--Helical Geared Motor RTF--Parallel Shaft-Helical Geared Motor RTK--Helical-Bevel Geared Motor RTS--Helical-Worm Geared Motor	3 Unit Model No Code--Feet-mounted F--Flange-mounted A--Hollow Shaft-mounted AF--Flange-mounted with Hollow Shaft	4 Gear Unit Size 67--Gear Unit Size 67	5 Torque Arm No Code--No Torque Arm T--Torque Arm	6 Electric Motor D--Three Phase Asynchronous Motor(IP 54) DP/DE/DS - Energy efficiency rating class 1/class 2/class 3 YB-- Flame-proof Three Phase Asynchronous Motor YGP-- Table Prolifer Three Phase Asynchronous Motor YZP-- Metallurgy Hotset Frequency Variable Motor YD--Multi Speed Three Phase Motor	7 Frame Size 80--Motor Center Height 80mm	8 Stator Length S、M、L	9 Number of Poles 4--4P	10 Brake No Code--No Brakes BE--Brakes	11 Brake Release No Code--No Brake Release HF--Screw release(lock in the brake release position) Brake Release HR--handle release(automatic braking position)	12 Thermal Protection No Code--No Thermistor TF--Thermistor Sensor TF--Thermistor protection (PTC thermistor) TH--Thermostat protection (Bimetal switch)	13 Ratio 108.03--Ratio 108.03	14 Position of the Output Shaft A--Shaft with A B--Shaft with B AB--Shaft with A+B	15 Mounting Position M1--Mounting Position M1	16 Terminal Box Position No Code--Terminal Box Position is 0° 180° --Terminal Box Position is 180°

JRT 系列齿轮减速电机

J RTS A 67 / T DS 80 S 4 / BE / HF / TF / 106.75 / d45 / B / M1 / 180°

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1 企业代码 J-- 杰牌企业	2 产品代码 RTR--斜齿轮减速机 RTF--平行轴-斜齿轮减速机 RTK--斜齿轮-伞齿轮减速机 RTS--斜齿轮-蜗轮蜗杆减速机	3 装配型式 无代码 -- 底脚安装 F-- 法兰安装 A-- 空心轴安装 AF-- 法兰空心轴安装	4 减速机规格号 67-- 减速机规格号为 67	5 扭矩臂 无代码 -- 无扭矩臂 T-- 扭矩臂	6 电动机 D--三相异步电动机(IP54) DP/DE/DS 能效电机1级/2级/3级 YB--隔爆型三相异步电动机 YGP--绕线用变频调速三相异步电动机 YZP--冶金、起重用变频调速三相异步电动机 YD--变频多速三相异步电动机	7 电动机规格代号 80-- 电机中心高为 80mm	8 电动机定子铁心长度代号 S、M、L	9 电动机极数 4-- 电动机极数为 4	10 制动器 无代号 -- 无制动器 BE-- 盘式制动器	11 手动释放装置 无代码-- 无手动释放装置 HF-- 释放螺钉 锁在制动释放位置 HR-- 释放手柄 自动返回制动位置	12 电机热保护 无代码-- 无电机热保护 TF-- 热敏电阻保护装置 PTC热敏电阻 TH-- 恒温器保护装置 双金属片开关	13 减速机传动比 106.75-- 减速机传动比为 106.75	14 空心轴孔径 d45-- 空心轴孔径为 45H7 (尺寸表中两种孔径选择一种)	15 轴指向 A -- 轴指向为 A B -- 轴指向为 B AB -- 双输出轴	16 安装位置 M1-- 安装型式图中 M1 位置	17 接线盒位置 无代码 -- 安装型式图中 0° 位置 180°-- 安装型式图中 180° 位置

J RTS A 67 / T DS 80 S 4 / BE / HF / TF / 106.75 / d45 / B / M1 / 180°

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1 Enterprise Code J--JIE Corp	2 Product Code RTR--Helical Geared Motor RTF--Parallel Shaft-Helical Geared Motor RTK--Helical-Bevel Geared Motor RTS--Helical-Worm Geared Motor	3 Unit Model No Code--Feet-mounted F--Flange-mounted A--Hollow Shaft-mounted AF--Flange-mounted with Hollow Shaft	4 Gear Unit Size 67--Gear Unit Size 67	5 Torque Arm No Code--No Torque Arm T--Torque Arm	6 Electric Motor D--Three Phase Asynchronous Motor(IP 54) DP/DE/DS -- Energy efficiency rating class 1/class 2/class 3 YB--Flame-proof Three Phase Asynchronous Motor YGP--Table Roller Three Phase Asynchronous Motor YZP--Metallurgy Hoist Frequency Variable Motor YD--Multi Speed Three Phase Motor	7 Frame Size 80--Motor Center Height 80mm	8 Stator Length S、M、L	9 Number of Poles 4--4P	10 Brake No Code--No Brakes BE--Brakes	11 Brake Release No Code--No Brake Release HF--Screw release(lock in the brake release position) Brake Release HR--handle release(automatic braking position)	12 Thermal Protection No Code--No Thermistor TF--Thermistor Sensor TF--Thermistor protection (PTC thermistor) TH--Thermostat protection (Bimetal switch)	13 Ratio 108.03--Ratio 108.03	14 Hollow shaft diameter d45--Hollow shaft diameter is 45	15 Position of the Output Shaft A--Shaft with A B--Shaft with B AB--Shaft with A+B	16 Mounting Position M1--Mounting Position M1	17 Terminal Box Position No Code--Terminal Box Position is 0° 180° --Terminal Box Position is 180°



三相异步电动机与能效电动机型号对照表(GB18613-2012)
 Three-phase Asynchronous Motors & Energy Efficiency Motor Type Control Table(GB18613-2012)

功率power (kW)	三相异步电动机 Three-phase Asynchronous Motors	能效电动机 Energy Efficiency Motor			功率power (kW)	三相异步电动机 Three-phase Asynchronous Motors	能效电动机 Energy Efficiency Motor		
		1级能效 Class 1	2级能效 Class 2	3级能效 Class 3			1级能效 Class 1	2级能效 Class 2	3级能效 Class 3
0.09	D63S6	—	—	JDS63S6	1.5	D90S2	JDP90L2	JDE90L2	JDS90M2
	D63S4	—	—	JDS63S4		D90L4	JDP100M4	JDE90L4	JDS90M4
	D63M6	—	—	JDS63M6		D100L6	JDP112M6	JDE100L6	JDS100M6
0.12	D63S2	—	—	JDS63S2	2.2	D90L2	JDP100M2	JDE100M2	JDS90L2
	D63M4	—	—	JDS63M4		D100M4	JDP100L4	JDE100M4	JDS90L4
	D63L6	—	—	JDS63L6		D112M6	JDP132S6	JDE112M6	JDS100L6
0.18	D63M2	—	—	JDS63M2	3	D100M2	JDP112M2	JDE100L2	JDS100M2
	D63L4	—	—	JDS63L4		D100L4	JDP132S4	JDE112M4	JDS100M4
	D71D6	—	—	JDS71S6		D132S6	JDP132M6	JDE132S6	JDS112M6
0.25	D63L2	—	—	JDS63L2	4	D112M2	JDP132S2	JDE112M2	JDS112M2
	D71D4	—	—	JDS71S4		D112M4	JDP132M4	JDE132S4	JDS112M4
	D80K6	—	—	JDS71M6		D132M1-6	JDP160M6	JDE132M6	JDS132S6
0.37	D71D2	—	—	JDS71M2	5.5	D132S2	JDP132M2	JDE132S2	JDS132S2
	D80K4	—	—	JDS71M4		D132S4	JDP160S4	JDE132M4	JDS132S4
	D80N6	—	—	JDS80S6		D132M2-6	—	JDE160M6	JDS160S6
0.55	D80K2	JDP80M2	JDE80M2	JDS80S2	7.5	D132M2	—	JDE132M2	JDS132M2
	D80N4	JDP90M4	JDE80M4	JDS80S4		D132M4	JDP160M4	JDE160S4	JDS132M4
	D90S6	JDP90L6	JDE90L6	JDS80M6		D160M6	—	—	JDS160M6
0.75	D80N2	JDP90M2	JDE90M2	JDS80M2	9.2	D132ML4	JDP180S4	JDE160M4	JDS160S4
	D90S4	JDP90L4	JDE90M4	JDS80M4		D160M4	JDP180M4	JDE180S4	JDS160M4
	D90L6	JDP100L6	JDE100M6	JDS90L6		D160L4	JDP180L4	JDE180M4	JDS180S4
1.1					15	D180M4	JDP200M4	JDE180L4	JDS180M4
						D180M4	JDP200M4	JDE180L4	JDS180M4
						D180L4	JDP200L4	—	JDS180L4
					22				



3.2 减速电机和减速制动电机供货型号 Type of gear motor and gear motor with brake

JRTR/F/K/S

减速电机
gear motor

下表列出了可提供的斜齿轮(JRTR)、平行轴(JRTF)、斜齿轮-伞齿轮(JRTK)和斜齿轮-蜗轮蜗杆(JRTS)减速电机型号。

There are the types of helical(R),parallel shaft helical(F),helical-bevel and helical-worm(s)geared motors.We supplied in the table.

型号 Model		减速电机			
		斜齿轮 (JRTR) Helical	平行轴 (JRTF) Parallel shaft	斜齿轮-伞齿轮 (JRTK) helical bevel	斜齿轮-蜗轮蜗杆 (JRTS) helical worm
底脚安装	Foot mounted	•	•	•	•
B5法兰安装	B5 flange mounted	•	•	•	•
底脚/B5法兰安装	Foot/B5 flange mounted	• ²⁾	•	• ³⁾	—
带键空心轴安装	Hollow shaft mounted	—	•	• ¹⁾	• ¹⁾
带锁紧盘空心轴安装	Hollow shaft with shrink disk	—	•	• ¹⁾	• ¹⁾
带花键空心轴安装	Splined hollow shaft mounted	—	•	• ¹⁾	—
带锁紧盘空心轴安装+底脚安装	Hollow shaft with shrink disk+foot mounted	—	•	•	—
带键空心轴安装+底脚安装	Hollow shaft with key+foot mounted	—	•	•	—
带花键空心轴安装+底脚安装	Splined hollow shaft mounted+foot mounted	—	•	•	—
带键空心轴安装+B5法兰安装	Hollow shaft with key+B5 flange mounted	—	•	•	•
带锁紧盘空心轴安装+B5法兰安装	Hollow shaft with shrink disk+B5 flange mounted	—	•	•	•
带花键空心轴安装+B5法兰安装	Splined hollow shaft mounted+B5 flange mounted	—	•	•	—
带键空心轴安装+B14法兰安装	Hollow shaft with key+B14 flange mounted	—	•	•	•
带锁紧盘空心轴安装+B14法兰安装	Hollow shaft with shrink disk+B14 flange mounted	—	•	•	•
带花键空心轴安装+B14法兰安装	Splined hollow shaft mounted+B14 flange mounted	—	•	•	—

• 适用于标准型号 The normal type

— 不可用 Can't use

1) 也可带力矩臂 You can use the torque arm

2) 仅用于JRTR17-JRTR87 Only used by JRTR17-R87

3) 仅用于JRTK127-JRTK157 Only used by JRTK127-K157

多级减速电机 Multi-stage geared motor

通过多级减速电机；可获得特别低的输出转速。就是在输入端安装一个斜齿轮减速机或减速电机作为第二级减速机。此时，要注意根据减速机最大许用的输出扭矩，限制电机功率。

You can achieve the particularly low output speed by using multi-stage geared motor. The method is mounting a helical gear unit as a second gear units on the input end .Notice that restrict the motor power according the maximum permitted output torque.

搅拌专用减速电机 JRTRM geared motor

JRTRM减速电机作为斜齿轮减速电机的特殊规格，它带有一个加长的轴承箱，专为搅拌应用场合设计的，它可应用于承受大的径向力和轴向力甚至弯矩的场合，其它数据和斜齿轮减速电机相一致。

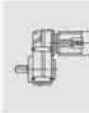
JRTRM geared motors are a special type of helical geared motor with an expanded output bearing hub.They are specially designed for agitating applications and can be used in applications subject to high overhung and axial loads as well as flexural torque.The remaining data correspond with to the standard helical geared motors.



制动电机
Brake motors

根据需要可把机械制动与JIE电机及减速电机合成一体提供。JIE制动器是由带直流线圈的电磁盘式制动器，通过电磁力打开，弹簧力制动。它的制动原理意味着失电制动、满足了基本安全需要，JIE制动器如果安装手动释放，可实现机械式释放。手动释放有手柄或平头螺丝两种形式，手柄可自动弹回，平头螺丝可锁在释放位置。制动器通过装在电机接线盒或电气柜的制动控制系统来驱动。

On request, JIE motors and geared motors can be supplied with an integrated mechanical brake. The JIE brake is an electromagnetic disk brake with a DC coil which is released electricaly and braked using spring force. The design principle means the brake is applied if the power fails. This means it complies with fundamental safety requirements. The JIE brake can also be released mechanically if fitted with manual brake release. For this purpose, either a hand lever or a setscrew is supplied with the brake. The hand lever springs back automatically and the setscrew can be locked. The brake is activated by a brake control system which is in the wiring switch cabinet.



3.3 减速机及附件的名称
Unit designations for gear units and options

斜齿轮减速机
Helical gear units

JRTR..	底脚安装 Foot-mounted
JRTRF..	法兰安装 Flange-mounted
JRTR..F	底脚-法兰安装 Foot and flange-mounted
JRTRM..	带加长轴承箱，法兰安装 Flange-mounted with the extended bearing housing
JRTRX..	单级底脚安装 Single-stage foot-mounted
JRTRXF..	单级法兰安装 Single-stage flange-mounted

平行轴减速机
Parallel shaft helical gear units

JRTF..	底脚安装 Foot mounted
JRTFA..B	底脚安装，空心轴 Foot mounted with hollow shaft
JRTFH..B	底脚安装，带锁紧盘空心轴 Foot mounted with hollow shaft and shrink disk
JRTFV..B	底脚安装，带花键空心轴 Foot mounted with hollow shaft and splined hollow shaft
JRTFF..	B5法兰安装 B5 flange mounted
JRTFAF..	B5法兰安装，空心轴 B5 flange mounted with hollow shaft
JRTFHF..	B5法兰安装，带锁紧盘空心轴 B5 flange mounted with hollow shaft and shrink disk
JRTFVF..	B5法兰安装，带花键空心轴 B5 flange mounted with spined hollow shaft disk
JRTFA..	空心轴安装 Hollow shaft mounted
JRTFH..	带锁紧盘空心轴安装 Hollow shaft with shrink disk

JRTFV..	带花键空心轴安装 Splined hollow shaft mounted
JRTFAZ..	B14 法兰安装, 空心轴 B14 flange mounted with hollow shaft
JRTFHZ..	B14 法兰安装, 带锁紧盘空心轴 B14 flange mounted with hollow shaft disk
JRTFVZ..	B14 法兰安装, 带花键空心轴 B14 flange mounted with Splined hollow shaft

斜齿轮-伞齿轮减速机
 Helical-bevel gear units

JRTK..	底脚安装 Foot mounted
JRTKA..B	底脚安装, 空心轴 Foot mounted with hollow shaft
JRTKH..B	底脚安装, 带锁紧盘空心轴 Foot mounted with hollow shaft and shrink disk
JRTKV..B	底脚安装, 带花键空心轴 Foot mounted with hollow shaft and splined hollow shaft
JRTKF..	B5 法兰安装 B5 flange mounted
JRTKAF..	B5 法兰安装, 空心轴 B5 flange mounted with hollow shaft
JRTKHF..	B5 法兰安装, 带锁紧盘空心轴 B5 flange mounted with hollow shaft and shrink
JRTKVF..	B5 法兰安装, 带花键空心轴 B5 flange mounted with spined hollow shaft disk
JRTKA..	空心轴安装 Hollow shaft mounted
JRTKH..	带锁紧盘空心轴安装 Hollow shaft with shrink disk
JRTKV..	带花键空心轴安装 Splined hollow shaft mounted
JRTKAZ..	B14 法兰安装, 空心轴 B14 flange mounted with hollow shaft
JRTKHZ.	B14 法兰安装, 带锁紧盘空心轴 B14 flange mounted with hollow shaft disk
JRTKVZ..	B14 法兰安装, 带花键空心轴 B14 flange mounted with Splined hollow shaft

斜齿轮-蜗轮蜗杆减速机
 Helical-worm gear units

JRTS..	底脚安装 Foot-mounted
JRTSF..	B5 法兰安装 B5 flange-mounted
JRTSAF..	B5 法兰安装, 空心轴 B5 flange-mounted and hollow shaft
JRTSHF..	B5 法兰安装, 带锁紧盘空心轴 B5 flange-mounted and hollow shaft with shrink disk
JRTSA..	空心轴安装 Hollow shaft
JRTSH..	带锁紧盘空心轴安装 Hollow shaft with shrink disk
JRTSAZ..	B14 法兰安装, 空心轴 B14 flange-mounted and hollow shaft
JRTSHZ..	B14 法兰安装, 带锁紧盘空心轴 B14 flange-mounted and hollow shaft with shrink disk



3.4 交流电机及附件名称 The name of AC motors and its access

电机选项 Motor options

BE	盘式制动器 Brake
../HF	释放螺钉(锁在制动释放位置) .. with lock able manual brake release
../HR	释放手柄(自动返回制动位置) .. with automatic manual brake disengaging
/RS	逆止器 Brakstop
/TF	热敏电阻保护装置(PTC热敏电阻) Thermistor sensor (PTC resistance)
/TH	恒温器保护装置(双金属片开关) Thermostat (bimetallic switch)
/U	无通风设计 Non-ventilated
/V	强冷风机 Forced cooling fan
/Z	高惯量飞轮风扇 Additional flywheel mass
/C	防雨罩 Rain cover
YB	隔爆型三相异步电动机 Flame-Proof with three-phase asynchronous motor
YGP	辊道用变频调速三相异步电动机 Roller with three-phase asynchronous motor
YZP	冶金、起重用变频调速三相异步电动机 Metallurgy overweight with three-phase asynchronous motor
JD../V	变频调速三相异步电动机 three phase asynchronous motor asynchronous motor with frequency.
YD	变极多速三相异步电动机 Pole-Changing three-phase asynchronous motor

编码器附件

Encoder on AC motor options

/AV1Y	绝对值编码器, MSI和sin/cos信号, 24V _{DC} 电源 Absolute encoder with solid shaft .MSI and Sin/cos signals and 24V _{DC} supply
/ES..	空心轴编码器, TTL(RS-422)信号, 5V _{DC} 电源 Encoder with hollow shaft. TTL(RS-422) signals and 5V _{DC} supply
	空心轴编码器, sin/cos信号, 24V _{DC} 电源 Encoder with hollow shaft. signals and 24V _{DC} supply
	空心轴编码器, TTL(RS-422)信号, 24V _{DC} 电源 Encoder with hollow shaft. TTL(RS-422) signals and 24V _{DC} supply
	空心轴编码器, HTL Encoder with hollow shaft.
/EV..	实心轴编码器, TTL(RS-422)信号, 5V _{DC} 电源 Encoder with solid shaft. TTL(RS-422) signals and 5V _{DC} supply
	实心轴编码器, sin/cos信号, 24V _{DC} 电源 Encoder with solid shaft. signals and 24V _{DC} supply
	实心轴编码器, TTL(RS-422)信号, 24V _{DC} 电源 Encoder with solid shaft. TTL(RS-422) signals and 24V _{DC} supply
	实心轴编码器, HTL Encoder with solid shaft

编码器安装附件

Mounting device for encoders on AC motor options

ES..A	空心轴安装 .. With hollow shaft
EV1A	实心轴安装托架 .. With solid shaft



4. 减速机选型 Selection of gear reducer

4.1 传动装置选型数据 Drive selection data

准确地确定所需传动装置，下表所列的数据是必需的：

Certain data are essential to specify the components for your drive. These are:

传动装置选型数据 Drive selection data			
n_{amin}	最小输出转速 Minimum output speed	[rpm]	
n_{amax}	最大输出转速 Maximum output speed	[rpm]	
P_a at n_{amin}	最低输出转速下的输出功率 Output power at minimum output speed	[kW]	
P_a at n_{amax}	最高输出转速下的输出功率 Output power at maximum output speed	[kW]	
M_a at n_{amin}	最低输出转速下的输出扭矩 Output torque at minimum output speed	[Nm]	
M_a at n_{amax}	最高输出转速下的输出扭矩 Output torque at maximum output speed	[Nm]	
F_R	输出轴径向力。假设载荷作用在轴伸的中点，如果不一致，请确定径向力准确的作用点、作用角度和轴的旋转方向以便进行校核计算。 Overhung load on output shaft. Assumes force application is in the center of shaft end. If not, please specify the exact application point indicating the application angle and direction of rotation of the shaft for a check calculation.	[N]	
F_A	输出轴轴向负载（拉力和压力） Axial load (tension and compression) on output shaft	[N]	
J_{load}	被驱动件的转动惯量 Mass moment of inertia to be driven	[10 ⁴ kgm ²]	
JRTR/F/K/S M1-M6	所需减速机类型和安装位置 Required gear unit type and mounting position(→ Sec. Mounting positions, churning losses)	-	
IP..	外壳防护等级 Required protect rank	-	
ϑ_{env}	环境温度 Ambient temperature	[C]	
H	海拔高度 Altitude	[m above sea level]	
S., ..%Cdf	工作制和负载持续率cdf; 也可给出精确的负载周期图 Operating mode and intermittency factor cdf; alternatively, exact load cycle can be specified	-	
Z	启停频率; 也可给出精确的负载周期图 Starting frequency; alternatively, exact load cycle can be specified	[per h]	
f_{mains}	电源频率 Supply frequency	[Hz]	
V_{mot} V_{brake}	电机工作电压和制动器电压 Operating voltage of motor and brake	[V]	
M_B	所需制动力矩 Required braking torque	[Nm]	



例
Example

4.2 选型流程图 Project planning sequence

带有位置要求驱动方案的流程图，所涉及的减速电机由变频器控制

The following flowchart displays a schematic view of the procedure for planning a project incorporating a positioning drive. The drive comprises a geared motor which is powered by an inverter.



图:选型应用流程图
Figure: Project planning process



4.3 JIE减速机的效率 Efficiency of JIE gear units

JRTR.JRTF.JRTK JRTS减速机

JRTR.JRTF.JRTK JRTS gear units

减速机的效率主要由齿轮啮合和轴承磨擦损失所决定的。

减速机运行初期的效率总是比正常运行时要低，尤其是斜齿轮蜗轮蜗杆和更为明显。

The efficiency of the gear units is mainly determined by the gearing ,mesh and bearing friction. Please note that the starting efficiency of a gear unit is always less than its efficiency at operating speed .This fact is especially obvious in helical-worm right-angle geared motors

JRTR.JRTF.JRTK减速机

JRTR.JRTF.JRTK gear units

斜齿轮、平行轴、斜齿轮-锥齿轮减速机的效率是根据减速级数确定，在94%(3级)~98%(1级)之间。

The efficiency of helical,parallel shaft and helical-bevel gear units varies according to the number of gear stages,between 94%(3-stage)and 98%(1-stage).

JRTS减速机

JRTS gear units

斜齿轮蜗杆减速机由于产生高损失的滑动摩擦，所以它们比JRTR.JRTF.JRTK减速机损失大、效率低，主要是由以下因素决定：

- 斜齿轮蜗杆级的传动比
- 输入转速
- 齿轮箱温度

JIE设计的斜齿轮蜗杆减速机比单级的蜗轮蜗杆减速机的效率有明显的提高,对于很大速比的斜齿轮蜗轮蜗杆才有可能其效率 $\eta < 0.5$ 。

The gearing in helical-worm and gear units produces a high proportion of sliding friction. As a result, these gear units may have higher gearing losses than R, F or K gear units, and thus be less efficient. The cause of factors are:

- Gear ratio of the helical-worm
- Input speed
- Gear unit temperature

JIE gear units are designed as helical worm which makes them significantly more efficient than standard worm gear units. The efficiency may reach $\eta < 0.5$ if the helical-worm stage has a very high ratio step.

运行初始阶段

Running-inphase

由于新的斜齿轮蜗杆减速机齿面不够光滑、摩擦角较大，所以效率较正常运行时要小，这种影响在大传动比时变得更加明显。

The tooth flanks of new helical-worm and gear units are not yet completely smooth. For the friction angle is greater, the efficiency will be less than later operation. This effect becomes more apparent in the greater ratio.

在运初始阶段，所给定的效率值应减去表中数值：

In the first beginning, the given efficiency number should minus a number as follows:

	Helical-worm	速比i的范围 i range
1start	approx.12%	approx.50-280
2start	approx.6%	approx.20-75
3start	approx.3%	approx.20-90
4start	-	-
5start	approx.3%	approx.6-25
6start	approx.2%	approx.7-25



经过连续24小时运行，斜齿轮蜗轮蜗杆满足以下条件可以达到给出的额定效率：
The running-in phase normally lasts 24 hours. Helical-worm gear units achieve their listed rated efficiency values when:

- 减速机经过充分的试运行
the gear unit has been run in completely
 - 减速机达到正常运行温度值
the gear unit has reached normal operation temperature
 - 加入推荐的润滑剂
the recommended lubricant has been filled in
- 减速机在额定的负载范围内工作
the gear unit is working within the rated load range

搅动损失
Churning losses

在某些安装位置，第一级小齿轮完全浸在油中，对于大机座号减速机和有较高输入转速的减速机，搅动损失会急剧上升，不能忽视。因此，当遇到此类情况请向JIE咨询。
如果可能，对于JRTR、JRTRK和JRTRTS系列减速机尽量使用M1安装位置以确保较小的搅动损失。

In certain gear unit mounting positions the first reduction stage is completely immersed in the lubricant. For larger gear unit sizes and high circumferential velocities of the input stage, this gives rise to churning losses constituting a factor which cannot be ignored. Please contact JIE if you wish to use gear units of this type.

If possible, use the mounting position M1 for R, K and S gear units in order to keep the churning losses in low.

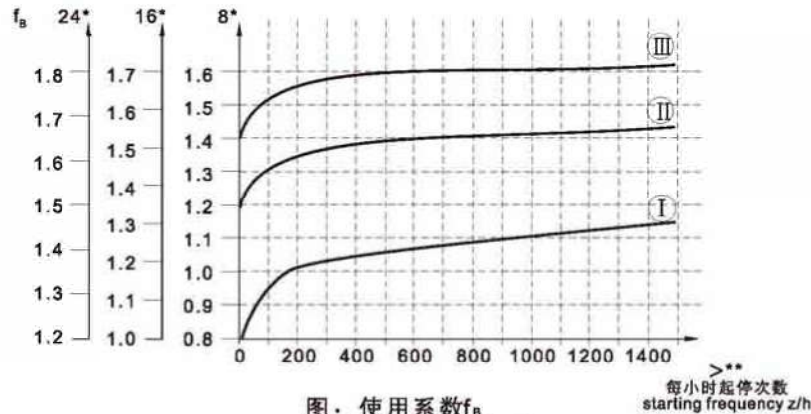


4.4 使用系数(一)
Service factor(One)

决定使用系数的因素
Determining of the service factor

选用减速机要考虑一定的使用系数用 f_b 表示，使用系数 f_b 由每天的运行时间和起停频率所决定，根据惯量加速系数确定的三种负载类型也要考虑，可以从图中读取驱动方案的使用系数，从图中确定的使用系数一定要小于或等于从选型表中所给定的JIE使用系数。

Gear unit selection needs to consider a certain factor which we use f_b to express. This service factor is determined by the daily operating time and the starting frequency. Three load classification-s are also considered to depend on the mass acceleration factor. You can read the different service factor from the figure as follows. The service factor determined using this diagram must be small than or equal to the JIE service factor as given in the selection tables.



图：使用系数 f_b
Fig: Service factor f_b

*运行小时/天
Daily operating time in hours/day

**起停次数，包括所在的起停和制动过程，所括从低到高，从高到低变换过程。
Starting frequency Z: The cycles include all starting and braking procedures as well as changes from low to high and high to low speed.

负载类型

Load classification

三种负载类型:

Three load classifications are differentiated:

- 1 均匀载荷, 允用的惯性加速系数 ≤ 0.2
 Uniform, approved mass acceleration factor ≤ 0.2
- 2 中等冲击载荷, 允用的惯性加速系数 ≤ 3
 Moderate shock load, approved mass acceleration factor ≤ 3
- 3 强冲击载荷, 允用的惯性加速系数 ≤ 10
 Severe shock load, approved mass acceleration factor ≤ 10

惯性加速系数

Mass acceleration factor

惯性加速系数的计算方式:

The mass acceleration factor is calculated as follows:

$$\text{惯性加速系数} = \frac{\text{所有的外部转动惯量}}{\text{电动机的转动惯量}}$$

Mass acceleration factor = $\frac{\text{All external mass moments of inertia}}{\text{Mass moment of inertia on the motor end}}$

所有的外部转动惯量是指被驱动装置加上减速机相对于电机转速的转动惯量,

折算公式如下: $J_x = j \cdot \left(\frac{n}{n_m}\right)^2$

"All external mass moments of inertia" are the mass moments of inertia of the driven machine and the gear unit, scaled down to the motor speed. The calculation for scaling down to the motor speed performed using the following formula:

$$J_x = j \cdot \left(\frac{n}{n_m}\right)^2$$

J_x = 相对于电机轴的外部转动惯量

J_x = Reduced mass moment of inertia on the motor shaft

J = 相对于减速机输出轴的外部转动惯量

J = Mass moment of inertia referenced to the output speed of the gear unit

n = 减速机的输出转速

n = Output speed of the gear unit

n_m = 电机转速

n_m = Motor speed

电机的转动惯量, 若配有制动器和高惯量飞轮 (Z风扇) 则要相应增

加所配部件的转动惯量。

"Mass moment of inertia on the motor if it equips the brake and the flywheel fan (Z fan), the components' mass moment of inertia should be increased at the same time.

惯性加速系数大于10, 要求传动部件高平稳性及大的径向负载时使用系数 f_B 就大于1.8,

此类情况请向JIE咨询。

Service factors $f_B > 1.8$ may occur with large mass acceleration factors (> 10), high levels of play in the transmission elements or large overhung loads. Please contact JIE in this case.

JIE使用系数 JIE- f_B

JIE service factor: JIE f_B

确定最大持续运行扭矩 M_{max} 和由此推导出的使用系统 $f_B = M_{max}/M_a$ 是不标准的, 并且不同的制造商之间有很大不同。JIE使用系数 $f_B = 1$ 是, JIE驱动设备在疲劳强度范围内能提供相当高的工作安全性和可靠性(除斜齿齿轮蜗轮蜗杆减速机的蜗轮之外)。在一定条件下, JIE的使用系数不必和其它减速机制造商所给出的进行比较。若有疑问, 请和JIE联系索取针对特殊驱动设备详细资料。

The method for determining the maximum approved continuous torque M_{max} and then deriving the service factor $f_B = M_{max}/M_a$ is not defined in a standard and varies greatly from manufacturer to manufacturer. With their JIE service factor $f_B = 1$, JIE drives afford an extremely high level of safety and reliability in the fatigue strength range (exception: wearing of the worm wheel in helical-worm gear units). Under a certain circumstances, the JIE service factor may not be comparable to the information given details for your specific drive. If there is any questions, please contact JIE to get the special drive equipments' document in detail.



举例
Example

惯性加速系数2.5(II类载荷), 运行时间14小时/天, (按16小时/天查图)和300次起停/小时, 使用系数在图中为 $f_B=1.51$, 根据选型表所选择的减速电机JIE f_B 值要 ≥ 1.51 。

Mass acceleration factor 2.5 (load classification II), 14 hours/day operating time (check the figure at 16h/d) and 300 cycles/hour produce a service factor $f_B=1.51$ as shown in Fig.2. According to the selection table, the selected geared motor must have an JIE f_B value of 1.51 or greater.

斜齿轮蜗杆减速机
Helical-worm gear units

在斜齿轮蜗杆减速机中, 除了已有图中的使用系数 f_B 外还有两个使用系数 f_{B1} 、 f_{B2} 要考虑。
Two further service factors have to be taken into account with helical-worm gear units in addition to the service factor f_B shown in Fig.2. These are:

f_{B1} =环境温度使用系统
Service factor from the ambient temperature

f_{B2} =负载持续系数
Service factor from the cyclic duration factor

附加的使用系数 f_{B1} 、 f_{B2} 可通过图4确定, 确定 f_{B1} 耐用和确定 f_B 同样的方法考虑负载类型。
Additional service factors f_{B1} and f_{B2} can be determined by diagrams in Fig.4.
For the f_{B1} factor, we can define it just in the same way as f_B .

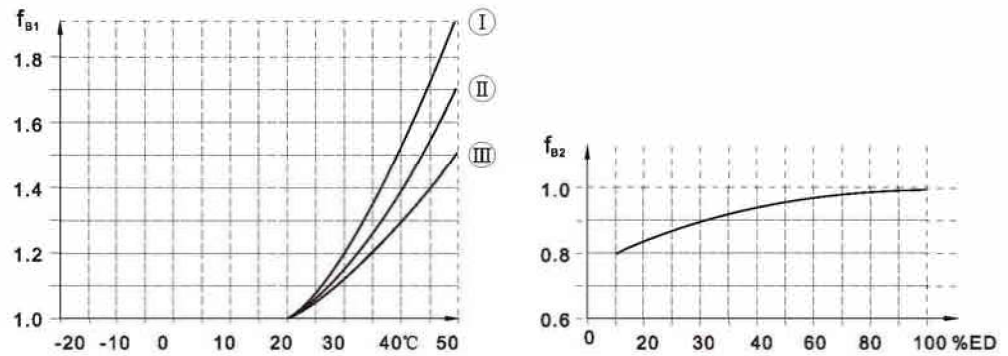


图: 附加使用系数 f_{B1} 和 f_{B2}
Additional service factors f_{B1} and f_{B2}

$$cdf(\%) = \frac{\text{负载持续时间分钟/小时}}{\text{Time under load in min/h}} \cdot 100 = \frac{\quad}{60} \cdot 100$$

确定 f_{B1} 时, 环境温度低于-20°C请向JIE咨询。
Please contact JIE in case of temperatures below -20°C ($\rightarrow f_{B1}$).

斜齿轮蜗杆减速机总的使用系数 f_{Btot} 按下式计算
The total service factor for helical-worm gear units is calculated as follows:

$$F_{Btot} = f_B \cdot f_{B1} \cdot f_{B2}$$

举例
Example

若前一个例子使用系统 $f_B=1.51$ 的减速机是斜齿轮蜗杆减速机,
If the geared motor with the service factor $f_B=1.51$ in the previous example is a helical-worm geared motor.
环境温度=40°C $\rightarrow f_{B1}=1.38$ (负载类型 II)
Ambient temperature $t = 40^\circ\text{C} \rightarrow f_{B1}=1.38$ (read off at load classification II)
负载工作时间40分钟/小时 $cdf=66.7\%$ $f_{B2}=0.95$
Time under load = 40min/h $\rightarrow cdf=66.7\% \rightarrow f_{B2}=0.95$
The total service factor is
 $F_{Btot} = 1.51 \cdot 1.38 \cdot 0.95 = 1.98$
根据选型表, 所选的斜齿轮蜗杆减速机的JIE f_B 则应 ≥ 1.98 。
According to the selection tables, the selected helical-worm geared motor must have a JIE f_B value of 1.98 or greater.



使用系数(二) Service factor(Two)

减速机是按载荷平稳，每天工作时间一定和少量起停次数的情况设计的，而在实际使用中往往不是处于此种理想状况，因此必须按照实际情况的载荷类型、运行时间、起动频率来确定工作机系数 f_{B1} 、原动机系数 f_{B2} 、起动系数 f_{B3} 。使用小于或等于选型表中的使用系数 f_B ，即 $f_{B1} \times f_{B2} \times f_{B3} \leq f_B$ 。或将工作机所需的转矩乘以使用系数（ $f_{B1} \times f_{B2} \times f_{B3}$ ）应小于或等于减速机的许用转矩。

Gear units are designed under the circumstance of steady load, stated operating time per day and a few starting times. But the practical condition will be not as perfect as the designed circumstance. So we must confirm driven machine factor f_{B1} , prime mover factor f_{B2} , starting factor f_{B3} according to actual load type, operating time, starting frequency. Let it less than or equal to the service factor f_B of selection table, viz $f_{B1} \times f_{B2} \times f_{B3} \leq f_B$. The needed torque of service machine multiply the service factor ($f_{B1} \times f_{B2} \times f_{B3}$) should less than or equal to gear units' permissible torque.

$$\text{即 } M_a \geq M_d \times f_{B1} \times f_{B2} \times f_{B3}$$

f_{B1} —工作机系数（见表1） f_{B1} -driven machine factor(see table 1)

f_{B2} —原动机系数（见表2） f_{B2} -prime mover factor (see table 2)

f_{B3} —起动系数（见表3） f_{B3} -starting factor(see table 3)

M_d —工作机所需转矩 M_d -the needed torque of driven machine

M_a —减速机许用转矩 M_a -gear units' permissible torque

表1 Table 1		工作机系数	Factor for driven machine f_{B1}		
工作机		Driven machines	日工作小时数 The day work hours		
			$\leq 0.5h$	0.5-10h	$>10h$
污水处理 Waste water treatment	浓缩器 (中心传动)	Thickeners (central drive)	-	-	1.2
	压滤器	Fitter presses	1.0	1.3	1.5
	絮凝器	Flocculation apparata	0.8	1.0	1.3
	曝气机	Aerators	-	1.8	2.0
	搂集设备	Raking equipment	1.0	1.2	1.3
	纵向、回转组合接集装置	Combined longitudinal and rotary rakes	1.0	1.3	1.5
	预浓缩器	Pre-thickeners	-	1.1	1.3
	螺杆泵	Screw pumps	-	1.3	1.5
	水轮机	Water turbines	-	-	2.0
	离心泵	Centrifugal pumps	1.0	1.2	1.3
挖泥机 Dredgers	1个活塞容积式泵	1 piston positive-displacement pumps	1.3	1.4	1.8
	>1个活塞容积式泵	> 1 piston positive displacement pumps	1.2	1.4	1.5
	斗式运输机	Bucker conveyors	-	1.6	1.6
	倾卸装置	Dumping devices	-	1.3	1.5
	Carteypillar行走机构	Carterpillar travelling gears	1.2	1.6	1.8
	斗轮式挖掘机 (用于捡拾)	Bucket wheel excavators as pick-up	-	1.7	1.7
	斗轮式挖掘机 (用于粗料)	Bucket wheel excavators for primitive material	-	2.2	2.2
	切碎机	Cutter heads	-	2.2	2.2
行走机构*	Traversing gears*	-	1.4	1.8	
弯板机*	Plate bending machines	-	1.0	1.0	
化学工业 Chemical industry	挤压机	Extnuders	-	-	1.6
	调浆机	Dough mills	-	1.8	1.8
	橡胶码光机	Rubber calenders	-	1.5	1.5
	冷却圆筒	Cooling drums	-	1.3	1.4
	混料机, 用于均匀介	Mixers for uniform media	1.0	1.3	1.4
	混料机, 用于非均匀介	Mixers for non-uniform media	1.4	1.6	1.7
	搅拌机, 用于密度均匀介质	Agitators for media with uniform density	1.0	1.3	1.5
	搅拌机, 用于非均匀介质	Agitators for media with non uniform density	1.2	1.4	1.6
搅拌机, 用于不均匀气体吸收	Agitators for media with non uniform gas absorption	1.4	1.6	1.8	
起重机械 Cranes	烘炉	Toasters	1.0	1.3	1.5
	离心机	Centrifuges	1.0	1.2	1.3
	回转机构	Slewing gears	2.5	2.5	3.0
	俯仰机构	Luffing gears	2.5	2.5	3.0
	行走机构	Travelling gears	2.5	3.0	3.0
	提升机构	Hoisting gears	2.5	2.5	3.0
转臂式起重机	Derricking jib cranes	2.5	2.5	3.0	



工作机 Driven machines		日工作小时数 The day work hours			
		≤0.5h	0.5-10h	>10h	
金属加工设备 Metal working mills	翻板机	Plate titers	1.0	1.0	1.2
	推钢机	Ingot pushers	1.0	1.2	1.2
	绕线机	Winding machines	-	1.6	1.6
	冷床横移架	Cooling bed transfer frames	-	1.5	1.5
	辊式矫直机	Roller straighteners	-	1.6	1.6
	辊道(连续式)	Roller tables continuous	-	1.5	1.5
	辊道(间歇式)	Roller tables intermittent	-	2.0	2.0
	可逆式轧管机	Roller tables Reversing tube mills	-	1.8	1.8
	剪切机(连续式)*	Shears continuous*	-	1.5	1.5
	剪切机(曲柄式)*	Shears crank type*	1.0	1.0	1.0
	连铸机驱动装置	Continuous casting drivers	-	1.4	1.4
	可逆式开坯机	Reversing blooming mills	-	2.5	2.5
	可逆式板坯轧机	Reversing slabbing mills	-	2.5	2.5
	可逆式线材轧机	Reversing wire mills	-	1.8	1.8
	可逆式薄板轧机	Reversing sheet mills	-	2.0	2.0
	可逆式中厚板轧机	Reversing plate mills	-	1.8	1.8
辊缝调节驱动装置	Roll adjustment drives	0.9	1.0	-	
输送机械 Conveyors	斗式输送机	Bucket conveyors	-	1.2	1.5
	绞车	Hauling winches	1.4	1.6	1.6
	卷扬机	Hoists	-	1.5	1.8
	皮带输送机<150kw	Belt conveyors<150kw	1.0	1.2	1.3
	皮带输送机≥150kw	Belt conveyors≥150kw	1.1	1.3	1.5
	货用电梯*	Goods lifts*	-	1.2	1.5
	客用电梯*	Passenger lifts*	-	1.5	1.8
	刮板式输送机	Apron conveyors	-	1.2	1.5
	自动扶梯	Escalators	-	1.2	1.4
	轨道行走机构	Rail travelling gears	-	1.5	-
冷却塔 Cooling towers	变频装置	Frequency converters	-	1.8	2.0
	往复式压缩机	Reciprocating compressors	-	1.8	1.9
	冷却塔风扇	Cooling tower fans	-	-	2.0
蔗糖生产 Cane sugar production	风机(轴流和离心式)	Blowers(axial and radial)	-	1.4	1.5
	甘蔗切碎机*	Cane knives*	-	-	1.7
甜菜糖生产 Beet sugar production	甘蔗碾磨机	Cane mills	-	-	1.7
	甜菜绞碎机	Beet cossettes macerators	-	-	1.2
	榨取机, 机械致冷机, 蒸煮机	Extraction plants, Mechanical refrigerators, Juice boilers	-	-	1.4
	甜菜清洗机	Sugar beet washing machines	-	-	1.5
造纸机械 Paper machines	甜菜切碎机	Sugar beet cutters	-	-	1.5
	各种类型**	Of all-kind**	-	1.8	2.0
	碎浆机驱动装置	Pulper drives	2.0	2.0	2.0
索道缆车 Cableways	离心式压缩机	Centrifugal compressors	-	1.4	1.5
	运货索道	Material ropeways	-	1.3	1.4
	往返系统空中索道	To-and fro system aerial ropeways	-	1.6	1.8
	T型杆升降机	T-barlifts	-	1.3	1.4
	连续索道	Continuous ropeways	-	1.4	1.6
水泥工业 Cement industry	混凝土搅拌机	Concrete mixers	-	1.5	1.5
	破碎机*	Breakers*	-	1.2	1.4
	回转窑	Rotary kilns	-	-	2.0
	管式磨机	Tube mills	-	-	2.0
	选粉机	Separators	-	1.6	1.6
	辊压机	Roll crushers	-	-	2.0



电机, 液压马达, 汽轮机 Electric motos, hydraulic motors, turbines	1.0
4-6缸活塞发动机 Piston engines 4-6 cylinders	1.25
1-3缸活塞发动机 Piston engines 1-3 cylinders	1.5

启停次数/每小时 Number of starts and stop/hour	
<10	1
10< f_{B3} <100	1.15
100< f_{B3} <500	1.25

4.5 径向和轴向负载 Overhung and axial loads

径向负载 Determining overhung load

确定径向负载时,要考虑安装在轴端传动部件的影响,传动部件系数 f_z 列于下表:
When determining the overhung load, the type of transmission element mounted on the shaft end must be considered. The transmission element factors f_z are listed as follows.

传动部件 Transmission element		传动部件系数 f_z Transmission element factor f_z	备注 Comments	
齿轮	Gears	1.15	> 17齿	>17teeth
链轮	Chain sprockets	1.40	> 13齿	>13teeth
链轮	Chain sprockets	1.25	> 20齿	>20teeth
窄V型带	Narrow V-belt pulleys	1.75	预应力影响	Pre-tensioning influence
宽平皮带	Flat belt pulleys	2.50	预应力影响	Pre-tensioning influence
齿型皮带	Toothed belt pulleys	2.5	预应力影响	Pre-tensioning influence

作用在电机或减速机轴伸上的径向力按下式计算:
The overhung load exerted on the motor or gear shaft is then calculated as follows:

$$F_R = \frac{M_d \cdot 2000}{d_o} \cdot f_z$$

- F_R 径向载荷(N)
Overhung load in N
- M_d 力矩(N.m)
Torque in Nm
- d_o 节圆直径(mm)
Mean diameter of the mounted transmission element in mm
- f_z 传动部件系数
Transmission element factor

作用的径向载荷 Permitted overhung load

根据耐磨轴承额定寿命 L_{H10} 来确定许用径向载荷。
对于特殊的运行条件,许用径向载荷根据所要求的修正寿命 L_{na} 来确定。
对于地脚安装实心轴输出的减速机许用径向载荷列于减速机选型表中。对于其它安装形式可与JIE联系。

According to the rated service life L_{H10} of the anti-friction bearings to define the permitted overhung loads.
For the special operating conditions, the permitted overhung loads can be determined by the modified service life L_{na} .
The permitted overhung loads F_{Ra} for the output shafts of foot-mounted gear units with a solid shaft are listed in the selection tables for geared motors. Please contact JIE in case of other types.

选型表中的径向力数值按照力作用于轴伸的中点(斜齿轮-伞齿轮减速机按照A端输出轴考虑)。径向力作用角度 α 和旋转方向已经按最不利的条件给予考虑。

The data refer to the radial force acting midway on the shaft end (with right-angle gear units on the A-side output). Worst case conditions have been assumed for the force application angle α and the direction of rotation.



• 对于JRTK和JRTS系列减速机，M1安装位置前面与安装固定面连接时，许用径向载荷只是选型表中 F_{Ra} 数值的50%。

Only 50% of the F_{Ra} value specified in the selection tables is permitted in mounting position M1 with wall attachment on the front face for K and S gear units.

• 对于JRTK167和JRTK187减速机 在安装位置M1-M4时；若安装与其安装位置示例有所区别情况下，其许用径向载荷最大只为选型表中 F_{Ra} 的50%。

Helical-bevel geared motors K167 and K187 in mounting positions M1 to M4: If the mounting position is different from the position we offered (M1-M4), the overhung load F_{Ra} lasted in the selection tables.

• 地脚/法兰安装斜齿轮减速机(JRTR/F):当通过法兰安装传递力矩时，许用径向载荷最大为选型表中 F_{Ra} 的50%。

Foot and flange-mounted helical geared motors(R..F): A maximum of 50% of the overhung load F_{Ra} specified in the selection tables in the case of torque transmission via the flange mounting, when the torque transmission via the flange mounting the overhung load F_{Ra} will only be 50% compared with the F_{Ra} lasted the selection tables.



更高的许用径向载荷

Higher approved overhung loads

对于JRTR/F/K系列减速机，安装重载轴承可提高许用径向载荷。另外，精确考虑旋转方向和力作用角 α ，也可提高许用径向载荷，在此情况下，请和JIE联系。

It possible to achieve a higher overhung load by exactly considering the force application angle α and the direction of rotation. In addition, higher output shaft loads are permitted if heavy duty bearings are installed, especially with R, F and K gear units. Please contact JIE in this case.

所受力的定义

Definition of force application

所受力根据下图来定义

Force application is defined according to the following diagram:

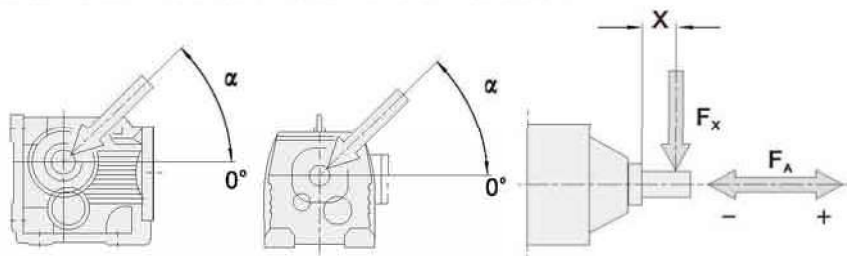


图: 受力定义
Fig: Definition of force application

F_x = 在X点的许用径向载荷(N)
Approved overhung load at point X [N]

F_A = 许用轴向载荷(N)
Approved axial load [N]

许用轴向载荷

Approved axial loads

如果没有径向载荷,那么轴向载荷 F_A (+表示拉力, -表示压紧力)依据表中径向负荷的50%给定是允许的,这适用于

If there is no overhung load, then an axial load F_A (tension or compression) amount to 50% of the overhung load given in the selection tables is approved. This applies to the following gear-d motors:

- 斜齿轮减速机 (JRTR..137到167除外)
Helical geared motors except for R..137...to R..167...
- 平行轴斜齿轮减速机与斜齿轮-伞齿轮(实心轴)减速机 (JRTF97...除外)
Parallel shaft and helical-bevel geared motors with solid shaft except for F97...
- 实心轴斜齿轮蜗轮蜗杆减速机
Helical-worm geared motors with solid shaft

对于其它类型的减速机请与JIE咨询,以防过大的轴向载荷或轴向及径向的合成力。

Please contact JIE for all other types of gear units and in the event of significantly greater axial loads or combinations of overhung load and axial load.

偏离中心点的径向力

Overhung load conversion for off-center force application

对于受力点不在轴端中点的允许径向载荷要根据下面的公式计算。 F_{xL} 和 F_{xw} 中的较小值是在X点允许数值,所计算的数值应用于 M_{amax}

The approved overhung loads given in the selection tables must be calculated using the following formulae in the event of force application not in the center of the shaft end. The smaller of the two values F_{xL} (according to bearing service life) and F_{xw} (according to shaft strength) is the approved value for the overhung load at point x. Note that the calculations apply to M_{amax} .

根据轴承寿命 F_{xL}

FXL acc.to bearing service life

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

根据输出轴强度 F_{xw}

FXW from the shaft strength

$$F_{xw} = \frac{c}{f+x} \text{ [N]}$$

F_{ra} = 对于底脚安装齿轮箱的允许径向载荷(选型表中所列值)单位: N
Approved overhung load($x=1/2$) for foot-mounted gear units according to the selection tables in [N]

X = 从轴肩到受力点的距离
Distance from the shaft shoulder to the force application point in [mm]

a,b,f = 对于径向负载转化的齿轮箱常量
Gear unit constants for overhung load conversion [mm]

c = 对于径向负载转化的齿轮箱常量
Gear unit constant for overhung load conversion [Nmm]

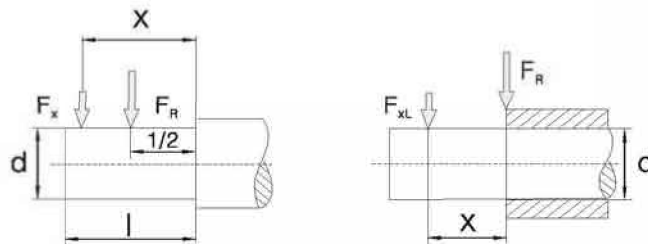


图: 偏离中心点的径向力 F_x

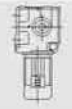
Fig: Overhung load F_x for off-center force application

据径向负载/转化所得的/减速机常量
Gear unit constants for overhung load conversion

减速机常量 Gear unit type	a [mm]	b [mm]	c [Nmm]	f [mm]	d [mm]	l [mm]
JRTR17	88.5	68.5	6.527×10^4	17		40
JRTR27	106.5	81.5	1.56×10^5	11.8	20	50
JRTR37	118	93	1.24×10^5	0	25	50
JRTR47	137	107	2.44×10^5	15	20	60
JRTR57	147.5	112.5	3.77×10^5	18	35	70
JRTR67	168.5	133.5	2.51×10^5	0	35	70
JRTR77	173.7	133.7	3.97×10^5	0	40	80
JRTR87	216.7	166.7	8.47×10^5	0	50	100
JRTR97	255.5	195.5	1.19×10^6	0	60	120
JRTR107	285.5	215.5	2.06×10^6	0	70	140
JRTR137	343.5	258.5	6.14×10^6	30	90	170
JRTR147	402	297	8.65×10^6	33	110	210
JRTR167	450	345	1.26×10^7	0	120	210
JRTR177	621.5	496.5	1.88×10^7	0	160	250
JRTR187	720.5	560.5	3.04×10^7	0	190	320
JRTRX57	43.5	23.5	1.51×10^5	34.2	20	40
JRTRX67	52.5	27.5	2.42×10^5	39.7	25	50
JRTRX77	60.5	30.5	1.95×10^5	0	30	60
JRTRX87	73.5	33.5	7.69×10^5	48.9	40	80
JRTRX97	86.5	36.5	1.43×10^6	53.9	50	100
JRTRX107	102.5	42.5	2.47×10^6	62.3	60	120
JRTF37	123.5	98.5	1.07×10^5	0	25	50
JRTF47	153.5	123.5	1.78×10^5	0	30	60
JRTF57	170.7	135.7	5.49×10^5	32	35	70
JRTF67	181.3	141.3	4.12×10^5	0	40	80
JRTF77	215.8	165.8	7.87×10^5	0	50	100
JRTF87	263	203	1.19×10^6	0	60	120
JRTF97	350	280	2.09×10^6	0	70	140
JRTF107	373.5	288.5	4.23×10^6	0	90	170
JRTF127	442.5	337.5	9.49×10^6	0	110	210
JRTF157	512	407	1.05×10^7	0	120	210
JRTF167	621.5	496.5	1.88×10^7	0	160	250
JRTK37	123.5	98.5	1.41×10^5	0	25	50
JRTK47	153.5	123.5	1.78×10^5	0	30	60
JRTK57	169.7	134.7	6.8×10^5	31	35	70
JRTK67	181.3	141.3	4.12×10^5	0	40	80
JRTK77	215.8	165.8	7.69×10^5	0	50	100
JRTK87	252	192	1.64×10^6	0	60	120
JRTK97	319	249	2.8×10^6	0	70	140
JRTK107	373.5	288.5	5.53×10^6	0	90	170
JRTK127	443.5	338.5	8.31×10^6	0	110	210
JRTK157	509	404	1.18×10^7	0	120	210
JRTK167	621.5	496.5	1.88×10^7	0	160	250
JRTK187	720.5	560.5	3.04×10^7	0	190	320
JRTS37	118.5	98.5	6.0×10^4	0	20	40
JRTS47	130	105	1.33×10^5	0	25	50
JRTS57	150	120	2.14×10^5	0	30	60
JRTS67	184	149	3.04×10^5	0	35	70
JRTS77	224	179	5.26×10^5	0	45	90
JRTS87	281.5	221.5	1.68×10^6	0	60	120
JRTS97	326.3	256.3	2.54×10^6	0	70	140

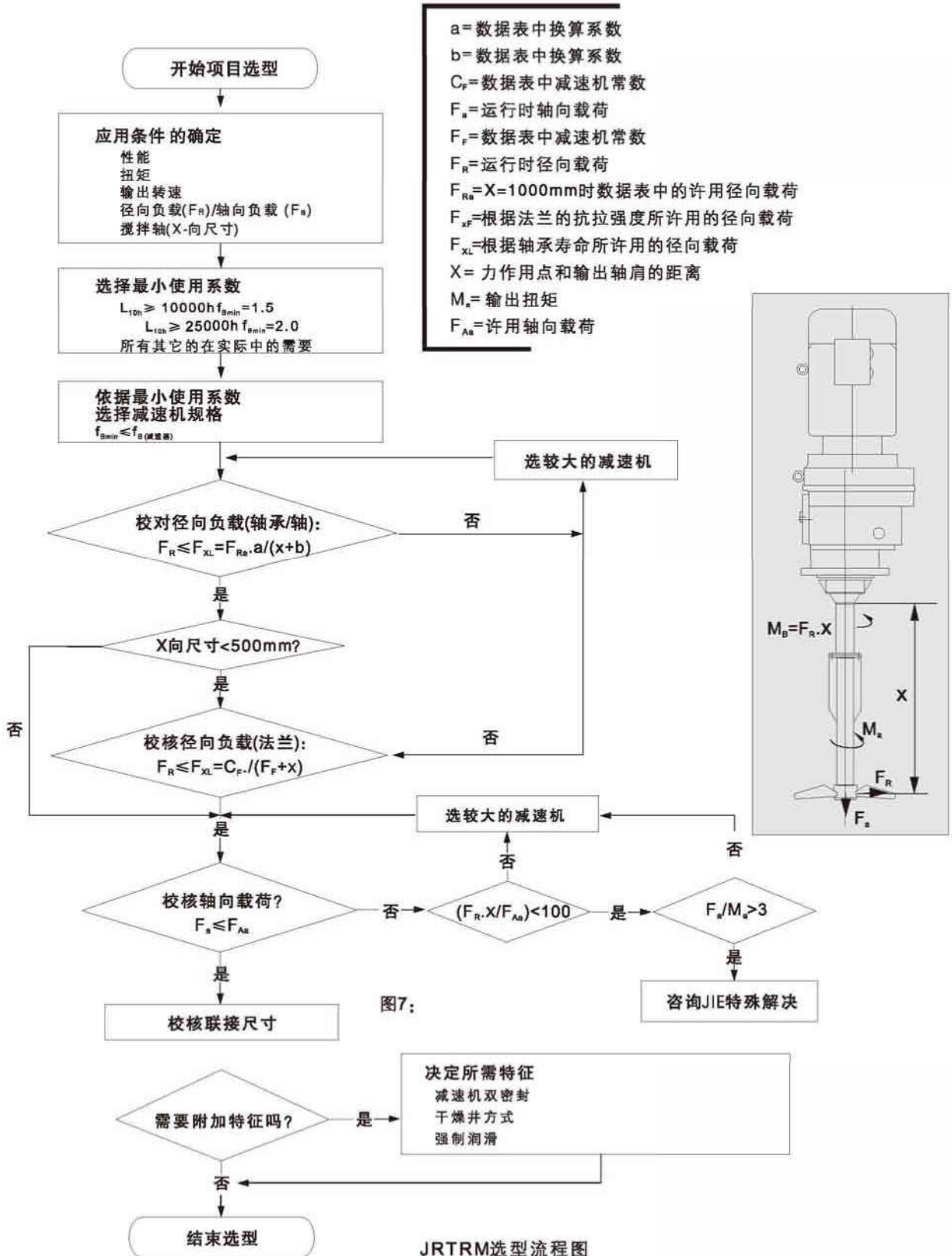
对于没有列出的类型的值需要给定。

Values for types not listed are available on request.



4.6 JRTRM减速机

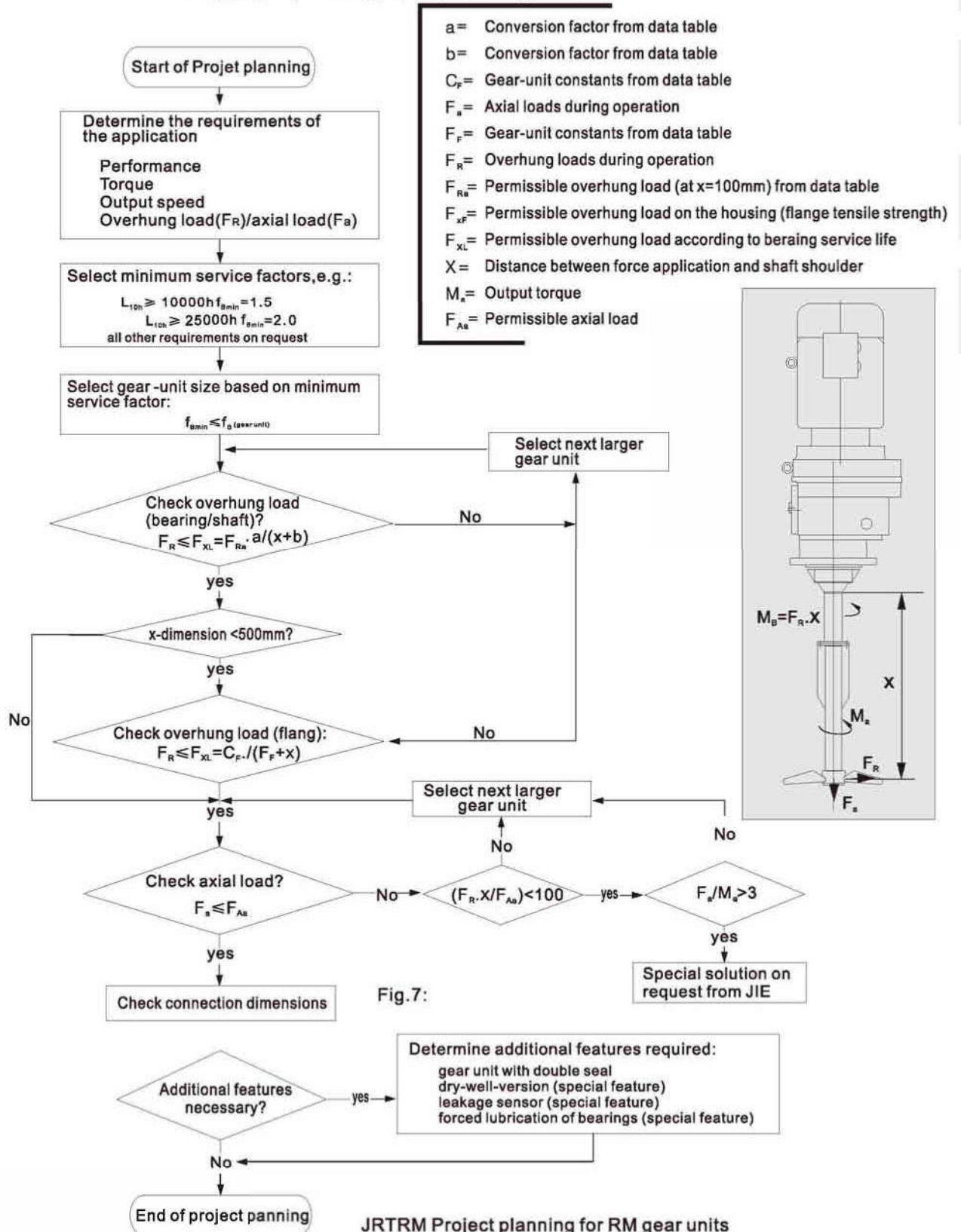
选型 当选用带加长轴承箱的JRTRM系列减速电机时，要考虑较高的径向和轴向负载，请按照下列步骤计算选型





3.6 JRTRM gear reducer Project planning

You must take account of the higher overhung and axial loads when planning projects with RM helical geared motors with extended bearing housing. Please adhere to the following project planning procedure:



允许径向和轴向负载
Permitted overhung loads and axial forces

根据不同的使用系数 f_B 和正常轴承寿命 L_{H10} 所确定的许用径向负载 F_{Ra} 和轴向负载 F_{Ra}
The permitted overhung loads F_{Ra} and axial loads F_{Ra} are specified for various service factors f_B and normal bearing service life L_{H10}

$f_{Bmin}=1.5$
 $L_{10h}=10000h$

	n_a [rpm]	<16	16-25	26-40	41-60	61-100	101-160	161-250	251-400
JRTRM57	F_{Ra} [N]	400	400	400	400	400	405	410	415
	F_{Aa} [N]	18800	15000	11500	9700	7100	5650	4450	3800
JRTRM67	F_{Ra} [N]	575	575	575	580	575	585	590	600
	F_{Aa} [N]	19000	18900	15300	11900	9210	7470	5870	5050
JRTRM77	F_{Ra} [N]	1200	1200	1200	1200	1200	1210	1210	1220
	F_{Aa} [N]	22000	22000	19400	15100	11400	9220	7200	6710
JRTRM87	F_{Ra} [N]	1970	1970	1970	1970	1980	1990	2000	2010
	F_{Aa} [N]	30000	30000	23600	18000	14300	11000	8940	8030
JRTRM97	F_{Ra} [N]	2980	2980	2980	2990	3010	3050	3060	3080
	F_{Aa} [N]	40000	36100	27300	20300	15900	12600	9640	7810
JRTRM107	F_{Ra} [N]	4230	4230	4230	4230	4230	4230	3580	3830
	F_{Aa} [N]	48000	41000	30300	23000	18000	13100	9550	9030
JRTRM137	F_{Ra} [N]	8710	8710	8710	8710	7220	5060	3980	6750
	F_{Aa} [N]	70000	70000	70000	57600	46900	44000	35600	32400
JRTRM147	F_{Ra} [N]	11100	11100	11100	11100	11100	10600	8640	10800
	F_{Aa} [N]	70000	70000	69700	58400	45600	38000	32800	30800
JRTRM167	F_{Ra} [N]	14600	14600	14600	14600	14600	14700	-	-
	F_{Aa} [N]	70000	70000	70000	60300	45300	36900	-	-

$f_{Bmin}=2.0$
 $L_{10h}=25000h$

	N_a [rpm]	<16	16-25	26-40	41-60	61-100	101-160	161-250	251-400
JRTRM57	F_{Ra} [N]	410	410	410	410	410	415	415	420
	F_{Aa} [N]	12100	9600	7350	6050	4300	3350	2600	2200
JRTRM67	F_{Ra} [N]	590	590	590	595	590	595	600	605
	F_{Aa} [N]	15800	12000	9580	7330	5580	4460	3460	2930
JRTRM77	F_{Ra} [N]	1210	1210	1210	1210	1210	1220	1220	1220
	F_{Aa} [N]	20000	15400	11900	9070	6670	5280	4010	3700
JRTRM87	F_{Ra} [N]	2000	2000	2000	2000	2000	1720	1690	1710
	F_{Aa} [N]	24600	19200	14300	10600	8190	6100	5490	4860
JRTRM97	F_{Ra} [N]	3040	3040	3040	3050	3070	3080	2540	2430
	F_{Aa} [N]	28400	22000	16200	11600	8850	6840	5830	4760
JRTRM107	F_{Ra} [N]	4330	4330	4330	4330	4330	3350	2810	2990
	F_{Aa} [N]	32300	24800	17800	13000	9780	8170	5950	5620
JRTRM137	F_{Ra} [N]	8850	8850	8850	8830	5660	4020	3200	5240
	F_{Aa} [N]	70000	59900	48000	37900	33800	31700	25600	23300
JRTRM147	F_{Ra} [N]	11400	11400	11400	11400	11400	8320	6850	8440
	F_{Aa} [N]	70000	60600	45900	39900	33500	27900	24100	22600
JRTRM167	F_{Ra} [N]	15100	15100	15100	15100	15100	13100	-	-
	F_{Aa} [N]	70000	63500	51600	37800	26800	23600	-	-

下表是对于JRTRM减速电机在力作用点 $X \neq 1000\text{mm}$ 时计算径向载荷 F_{XL} 所需的换算系数和减速器常数

The following conversion factors and gear unit constants apply to calculating the permitted overhung load F_{XL} at point $X \neq 1000\text{mm}$ for RM gearmotors.

换算系数和减速机常数

Conversion factors and gear unit constants

减速机型号	a	b	$C_F(f_s=1.5)$	$C_F(f_s=2.0)$	F_F
JRTRM57	1047	47	1220600	1260400	277
JRTRM67	1047	47	2047600	2100000	297.5
JRTRM77	1050	50	2512800	2574700	340.5
JRTRM87	1056.5	56.5	4917800	5029000	414
JRTRM97	1061	61	10911600	11124100	481
JRTRM107	1069	69	15367000	15652000	554.5
JRTRM137	1088	88	25291700	25993600	650
JRTRM147	1091	91	30038700	31173900	756
JRTRM167	1089.5	89.5	42096100	43654300	869

JRTRM减速机的附加重量

Additional weights of RM gear units

型号 Type	在带有最小法兰尺寸RF减速机重量基础上的附加重量 Additional weight in addition to RF, related to the smallest RF flange $\Delta m[\text{kg}]$
JRTRM57	12.0
JRTRM67	15.8
JRTRM77	25.0
JRTRM87	29.7
JRTRM97	51.3
JRTRM107	88.0
JRTRM137	111.1
JRTRM147	167.4
JRTRM167	195.4



产品选型表
Selection Table

序号 No.	确认项目 Item	确认项目 Content	序号 No.	确认项目 Item	确认项目 Content
1	减速电机型号规格 Gearmotor Model				
2	减速机型号规格 Gearbox Model	<input type="checkbox"/> JRTR _____ <input type="checkbox"/> JRTF _____ <input type="checkbox"/> JRTRK _____ <input type="checkbox"/> JRSTS _____ <input type="checkbox"/> 其他/Others: _____	21	电机种类 Motor Type	<input type="checkbox"/> □□□□/General Motors <input type="checkbox"/> 变频电机/Frequency conversion motor <input type="checkbox"/> 其他/Other: _____
3	安装形式 Installation Type	<input type="checkbox"/> □□□□/Foot mounting <input type="checkbox"/> F法兰安装/F Flange mounting <input type="checkbox"/> ..F底脚法兰/..F Foot mounting <input type="checkbox"/> 其他/Others: _____	22	电机规格 Electrical Specifications	□□/Specifications: _____
4	安装方位 Installation position	<input type="checkbox"/> M1 <input type="checkbox"/> M2 <input type="checkbox"/> M3 <input type="checkbox"/> M4 <input type="checkbox"/> M5 <input type="checkbox"/> M6	23	电机品牌 Motor brand	<input type="checkbox"/> JIE提供/JIE Supply <input type="checkbox"/> 用户指定/User-specified: _____
5	输出转速 Output speed	转速/Speed: _____ rpm	24	接线盒角度 Angle of junction box	<input type="checkbox"/> 0 <input type="checkbox"/> 90 <input type="checkbox"/> 180 <input type="checkbox"/> 270
6	输出扭矩 Output torque	扭矩/Torque: _____ Nm	25	出线口位置 Outlet location	<input type="checkbox"/> X <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3
7	输出轴/轴力 Output shaft radial/axial force	径向力/Radial force _____ N 轴向力/Axial force _____ N	26	电机功率 Motor power	功率/Power: _____ KW
8	使用系数 Use factor	fa= _____	27	绝缘等级 Insulation Class	<input type="checkbox"/> F <input type="checkbox"/> H <input type="checkbox"/> 其它/other: _____
9	使用环境 Use of the environment	<input type="checkbox"/> □□□□/Temperature: _____ <input type="checkbox"/> 海拔高度/Altitude: _____	28	防护等级 Protection class	<input type="checkbox"/> IP54 <input type="checkbox"/> IP55 <input type="checkbox"/> 其它/other: IP _____
10	速比 Ratio	i= _____	29	电压 Voltage	<input type="checkbox"/> AC220 <input type="checkbox"/> AC380 <input type="checkbox"/> 其它/other: _____
11	输出轴形式 Form of the output shaft	<input type="checkbox"/> 实心轴/Solid shaft <input type="checkbox"/> A单键空心轴/A single key hollow shaft <input type="checkbox"/> H锁紧盘空心轴/H Locking plate hollow shaft <input type="checkbox"/> V花键空心轴/V Spline hollow shaft	30	电机级数 Motor pole	<input type="checkbox"/> 2极/2 pole <input type="checkbox"/> 4极/4 pole <input type="checkbox"/> 其它/others: _____
12	输出轴直径 Output shaft diameter	<input type="checkbox"/> 标准/Standard <input type="checkbox"/> 非标/Non-standard	31	频率 (Hz) Frequency (Hz)	<input type="checkbox"/> 50 <input type="checkbox"/> 60 <input type="checkbox"/> 其它/other: _____
13	输出轴方向 Output axis direction	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> AB	32	电机起停频次 Motor start-stop frequency	频次/Frequency: _____ 次/Times/分/min
14	输出轴旋向 Output shaft rotation	<input type="checkbox"/> 顺时针/Clockwise <input type="checkbox"/> 逆时针/Counterclockwise <input type="checkbox"/> 双向/Two-way	33	电机接线方法 Electrical Wiring Methods	<input type="checkbox"/> △/Y <input type="checkbox"/> △ <input type="checkbox"/> Y
15	润滑油品牌 规格 Lubricants brand specifications	<input type="checkbox"/> □□□□□/According to factory standards <input type="checkbox"/> 用户指定/User-specified: _____	34	制动器 Brakes	<input type="checkbox"/> □□□□/single brake <input type="checkbox"/> 双制动/double brake <input type="checkbox"/> 不带/without <input type="checkbox"/> 普通制动/ordinary brake <input type="checkbox"/> 快速制动/quick brake
16	表面油漆质量 Surface paint quality	<input type="checkbox"/> □□□/Orange-peel <input type="checkbox"/> □□□/Plain glass <input type="checkbox"/> 亚光/Matt	35	制动器输入电压 Brake input pressure	电压/Voltage: _____ V _{AC}
17	油漆颜色 Paint Color	<input type="checkbox"/> □□□/Standard: 机器灰/gray <input type="checkbox"/> 用户指定/User-specified: _____	36	制动扭矩 Braking torque	扭矩/Torque: _____ N.m
18	输入形式 Input format	<input type="checkbox"/> 电机/motor <input type="checkbox"/> 无电机,带输入齿轮 no motor,with input gear <input type="checkbox"/> AD <input type="checkbox"/> AM <input type="checkbox"/> AQA	37	编码器 Encoder	<input type="checkbox"/> 有/have <input type="checkbox"/> 无/no
19	AD规格 AD Specifications	□□/Specifications□ AD	38	释放装置 Release device	<input type="checkbox"/> HR手柄/HR handle <input type="checkbox"/> HF螺钉/HF screw <input type="checkbox"/> 无/no
20	AM规格 AM Specifications	AM 法兰直径/Flange diameter: _____	39	电机热保护 Motor thermal protection	<input type="checkbox"/> TF热敏电阻型/TF thermistor <input type="checkbox"/> TH双金属片型/TH Bimetal <input type="checkbox"/> 无/no
21	锁紧盘 Locking plate	<input type="checkbox"/> 有/have <input type="checkbox"/> 无/no	40	铭牌 Nameplate	<input type="checkbox"/> 中文/Chinese <input type="checkbox"/> 英文/English <input type="checkbox"/> 3C认证 <input type="checkbox"/> CE认证 <input type="checkbox"/> 无/no
22	扭矩臂 Torque arm	<input type="checkbox"/> 带/with <input type="checkbox"/> 不带/without	41	使用说明书 Manual	<input type="checkbox"/> 中文/Chinese <input type="checkbox"/> 英文/English <input type="checkbox"/> 无/no
43	其它特殊要求 Other requirements	如使用环境: 高温、低温、强酸、强碱、耐腐、潜水等。 Such as the use of the environment: heat, cold, acid, alkali, corrosion and diving.			

JRT 系列齿轮减速电机

用户名称/Urser: _____ 订单数量/Oredr Qty: _____

联系人/Time: _____ 电话/Tel: _____ 传真/Fax: _____

E-mail: _____

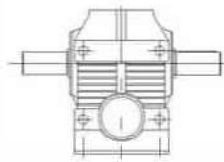
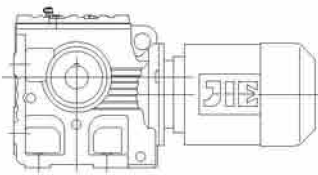


8. JRTS 斜齿轮—蜗轮蜗杆减速电机 JRTS Helical–Worm Geared Motor

8.1 设计方案 Type of Geared Motors

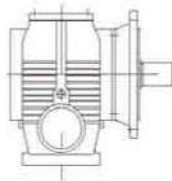
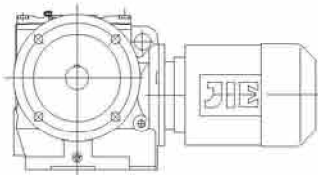
斜齿轮 – 蜗轮蜗杆齿轮减速电机有以下设计方案:

The following types of helical-worm gearmotors can be supplied.



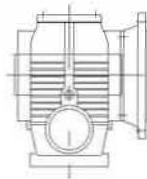
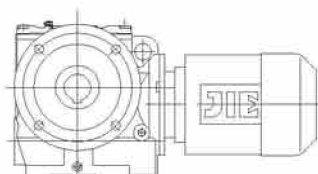
JRTS..D..

底脚安装斜齿轮 – 蜗轮蜗杆齿轮减速电机
Foot-mounted helical-worm gearmotor



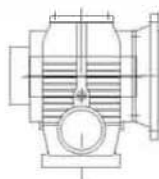
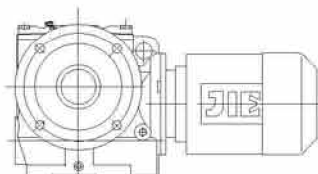
JRTSF..D..

法兰盘安装斜齿轮 – 蜗轮蜗杆齿轮减速电机
Helical-worm gearmotor in B5 flange-mounted version.



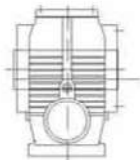
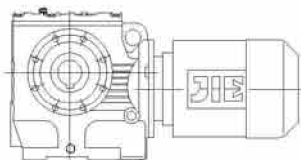
JRTSAF..D..

B5 法兰空心轴安装斜齿轮 – 蜗轮蜗杆齿轮减速电机
Helical-worm gearmotor in B5 flange-mounted version
with hollow shaft.



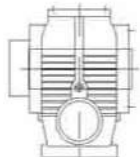
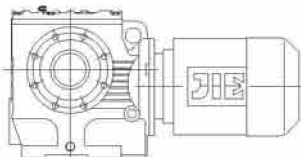
JRTSHF..D..

B5 法兰空心轴锁紧盘安装斜齿轮 – 蜗轮蜗杆齿轮减
速电机
Helical-worm gearmotor in B5 flange-mounted version
with hollow shaft and shrink disk.



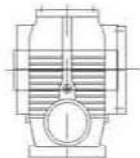
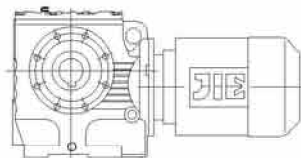
JRTSA..D..

空心轴安装斜齿轮 - 蜗轮蜗杆齿轮减速电机
 Helical-worm gearmotor with hollow shaft.



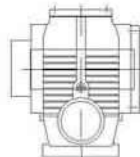
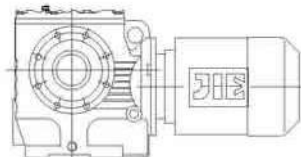
JRTSH..D..

空心轴锁紧盘安装斜齿轮 - 蜗轮蜗杆齿轮减速电机
 Helical-worm gearmotor with hollow shaft and shrink disk.



JRTSAZ..D..

B14 法兰空心轴安装斜齿轮 - 蜗轮蜗杆齿轮减速电机
 Helical-worm gearmotor in B14 flange-mounted version
 with hollow shaft.



JRTSHZ..D..

B14 法兰空心轴锁紧盘安装斜齿轮 - 蜗轮蜗杆齿轮减
 速电机
 Helical-worm gearmotor in B14 flange-mounted version
 with hollow shaft and shrink disk.



8.2 可行组合方式 Type of Combination

以下是斜齿轮蜗杆减速与交流(带制动)电机的组合列表。表中给出了每种组合的速比范围。
The below is combination table between gear box and electromotor in each list the ratio range.

减速机型号 Gear unit size	级 Stages	D63 D71	D80	D90	D100	D112	D132S	D132M
JRTS/SF/SA/SAF37	2	6.80-18.24 19.89-51.30 55.93-157.43	6.80-15.53 19.13 22.50-43.68 53.83 63.33-122.94	6.80-13.39 19.13 22.50-37.66 53.83				
JRTS/SF/SA/SAF47	2	7.28-17.62 20.33-54.59 63.80-201.00	7.28-17.62 20.33-54.59 67.20 71.75-158.12	7.28-19.54 23.20-47.32 56.61 67.20 71.75-137.05	7.28-14.24 19.54 23.20-38.23 56.61 67.20 71.75-110.73			
JRTS/SF/SA/SAF57	2	7.28-17.62 20.33-54.59 63.80-201.00	7.28-17.62 20.33-54.59 67.20 71.75-158.12	7.28-19.54 23.20-47.32 56.61 67.20 71.75-137.05	7.28-14.24 19.54 23.20-38.23 56.61 67.20 71.75-110.73			
JRTS/SF/SA/SAF67	2	11.03-17.28 20.37-23.22 24.44 29.63-54.70 62.35-65.63 75.06 85.83-217.41	8.69-17.28 20.37-23.22 24.44-54.70 62.35-65.63 75.06 85.83-217.41	7.56-17.28 20.37-23.22 24.44-54.70 62.35-65.63 78.00-190.1	7.56-17.28 20.37 23.33 26.93-54.70 67.57 78.00-158.45	7.56-20.30 23.33 26.93-46.40 58.80 67.57 78.00-134.40	7.56-13.73 20.30 23.33 26.93-36.85 58.80 67.57 78.00-106.75	7.56-13.73 20.30 23.33 26.93-36.85 58.80 67.57 78.00-106.75
JRTS/SF/SA/SAF77	2	15.28-18.42 20.99 22.89 35.94-53.87 63.03 71.33-75.09 107.83-256.47	12.07-18.42 20.99 22.89 28.41-53.87 63.03 71.33-75.09 85.22-256.47	8.06-18.42 20.99 22.89-75.09 85.22-225.26	8.06-18.42 20.99 22.89-66.67 75.20-189.09	8.06-18.42 20.99 22.89-56.92 66.67 75.20-161.60	8.06-18.97 22.22 25.07-43.33 56.92 66.67 75.20-130.00	8.06-18.97 22.22 25.07-43.33 56.92 66.67 75.20-130.00
JRTS/SF/SA/SAF87	2		17.49-19.70 21.43 25.50 39.10-57.00 64.27-70.43 81.76 91.20 123.48-288.00	12.21-19.70 21.43 25.50-57.00 64.27-70.43 81.76-288.00	9.07-19.70 21.43 25.50-57.00 64.27-86.15 99.26-258.18	9.07-19.70 21.43 25.50-57.00 64.27-77.14 86.15 99.26-222.40	7.88-19.70 21.43 25.50-64.00 77.14 86.15 99.26-180.00	
JRTS/SF/SA/SAF97	2		23.59 26.39 49.87-60.59 71.43 80.85 161.74-286.40	17.05-23.59 26.39 36.05-60.59 71.43 80.85 116.92-286.40	13.07-23.859 26.39 32.60-60.59 71.43 80.85-286.40	13.07-23.59 26.39 32.60-60.59 71.43 80.85-286.40	8.26-23.59 26.39 32.60-78.26 89.60-231.67	8.26-23.59 26.39 32.60-78.26 89.60-231.67
减速机型号 Gear unit size	级 Stages	D160S	D160M	D160L	D180			
JRTS/SF/SA/SAF77	2	8.06-13.76 18.97 22.22 25.07-32.38 56.92 66.67 75.20-97.14	8.06-13.76 18.97 22.22 25.07-32.38 56.92 66.67 75.20-97.14					
JRTS/SF/SA/SAF87	2	7.88-20.27 24.43 27.28-44.03 64.00 77.14 86.15 99.26-139.05	7.88-20.27 24.43 27.28-44.03 64.00 77.14 86.15 99.26-139.05	7.88-20.27 24.43 27.28-44.03 64.00 77.14 86.15 99.26-139.05	7.88-15.64 20.27 24.43 27.28-34.96 64.00 77.14 86.15 99.26-110.40			
JRTS/SF/SA/SAF97	2	8.26-23.59 26.39 32.60-55.79 65.45 78.26 89.60-180.95	8.26-23.59 26.39 32.60-55.79 65.45 78.26 89.60-180.95	8.26-23.59 26.39 32.60-55.79 65.45 78.26 89.60-180.95	8.26-21.23 24.13 27.63-44.89 65.45 78.26 89.60-145.60			



8.3 速比与最大扭矩 Ratio and max torque

JRTS37-57 $n_g=1400$ 1/min



JRTS37		90Nm		
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
157.43	8.9	92	3000	
144.40	9.7	92	3000	
122.94	11	91	3000	
106.00	13	88	3000	
98.80	14	87	3000	AD ₁
86.36	16	86	3000	
80.96	17	85	3000	
71.44	20	84	3000	
63.33	22	82	3000	
55.93	25	81	3000	
53.83	26	80	3000	AD ₂
51.30	27	81	3000	
43.68	32	81	3000	
37.66	37	79	3000	
35.10	40	78	3000	
30.68	46	76	2870	AD ₁
28.76	49	75	2800	
25.38	55	74	2660	
22.50	62	73	2530	
19.89	70	52	2470	
19.13	73	71	2380	AD ₂
18.24	77	52	2380	
15.53	90	50	2240	AD ₁
13.39	105	49	2110	
12.48	112	48	2060	
10.91	128	48	1940	
10.23	137	47	1900	AD ₂
9.02	155	46	1810	
8.00	175	45	1730	
6.80	206	43	1630	

JRTS47		170Nm		
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
201.00	7.0	170	5340	
184.80	7.6	170	5340	
158.12	8.9	170	5340	
137.05	10	168	5350	
128.10	11	168	5350	
110.73	13	168	5350	AD ₁
94.08	15	168	5350	
84.00	17	167	5360	
71.75	20	167	5360	
69.39	20	155	5370	
67.20	21	167	5360	
63.80	22	155	5370	
56.61	25	165	5320	AD ₂
54.59	26	155	5150	
47.32	30	155	4850	AD ₁
44.22	32	155	4710	
38.23	37	155	4430	
32.48	43	155	4120	
29.00	48	155	3920	
24.77	57	155	3650	
23.20	60	152	3570	
20.33	69	110	3370	
19.54	72	144	3370	AD ₂
17.62	79	110	3160	
16.47	85	110	3060	
14.24	98	110	2850	
12.10	116	109	2650	
10.80	130	109	2500	
9.23	152	109	2310	
8.64	162	109	2230	
7.28	192	103	2110	

JRTS57		300Nm		
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD
201.00	7.0	295	7130	
184.80	7.6	295	7130	
158.12	8.9	295	7130	
137.05	10	295	7130	AD ₁
128.10	11	295	7130	
110.73	13	295	7130	
94.08	15	295	7130	
84.00	17	295	7130	
71.75	20	290	7170	
69.39	20	245	7520	
67.20	21	285	7220	
63.80	22	245	7520	
56.61	25	265	7370	
54.59	26	245	7520	
47.32	30	245	7520	
44.22	32	245	7520	
38.23	37	245	7320	
32.48	43	245	6840	
29.00	48	245	6520	AD ₂
24.77	57	245	6100	
23.20	60	245	5930	
20.33	69	168	5690	
19.54	72	215	5720	
17.62	79	168	5350	
16.47	85	168	5200	
14.24	98	169	4860	
12.10	116	169	4520	
10.80	130	169	4290	
9.23	152	169	3990	
8.64	162	166	3900	
7.28	192	146	3790	



JRTS67-87 $n_g=1400$ 1/min

JRTS67		520Nm			
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD	
217.41	6.4	520	8680		
190.11	7.4	520	8680		
180.60	7.8	520	8680		
158.45	8.8	520	8680		
134.40	10	520	8680		
121.33	12	520	8680	AD ₂	
106.75	13	520	8680		
100.80	14	520	8680		
85.83	16	520	8680		
78.00	18	520	8680		
75.06	19	480	9020		
67.57	21	520	8680		
65.63	21	480	9020		
62.35	22	480	9020		
58.80	24	500	8850	AD ₃	
54.70	26	480	8670		
46.40	30	480	8060		
41.89	33	480	7690		
36.85	38	480	7250		
34.80	40	480	7060		
29.63	47	480	6540	AD ₂	
26.93	52	480	6240		
24.44	57	340	6040		
23.33	60	480	5810		
23.22	60	340	5890		
20.37	69	340	5520		
20.30	69	425	5760	AD ₃	
17.28	81	340	5080		
15.60	90	340	4820	AD ₂	
13.73	102	340	4510		
12.96	108	340	4310		
11.03	127	340	3660		
10.03	140	340	3290	AD ₃	
8.69	161	335	2860		
7.56	185	295	3220		

JRTS77		1270Nm			
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD	
256.47	5.5	1270	11800		
225.26	6.2	1270	11800		
214.00	6.5	1270	11800		
189.09	7.4	1270	11800		
161.60	8.7	1260	11900		
148.15	9.4	1240	12000		
130.00	11	1210	12300		
123.20	11	1200	12400		
107.83	13	1170	12600		
97.14	14	1140	12900	AD ₂	
85.22	16	1100	13200		
75.20	19	1070	13400		
75.09	19	1100	13200		
71.33	20	1100	13200		
66.67	21	1040	13600		
63.03	22	1100	12800		
56.92	25	990	13300		
53.87	26	1100	11900		
49.38	28	1100	11500		
43.33	32	1100	10800		
41.07	34	1100	10500		
35.94	39	1100	9850		
32.38	43	1090	9400		
28.41	49	1050	8970		
25.07	56	1020	8550		
22.89	61	705	7440		
22.22	63	980	8220		
20.99	67	705	6820	AD ₃	
18.97	74	930	7800		
18.42	76	705	5920		
17.45	80	710	5470		
15.28	92	710	4610		
13.76	102	710	3960		
12.07	116	720	3000		
10.65	131	720	2280		
9.44	148	725	1040	AD ₄	
8.06	174	680	1160		

JRTS87		2280Nm			
i	n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	AD	
288.00	4.9	2280	27900		
258.18	5.4	2280	27900		
222.40	6.3	2280	27900		
202.96	6.9	2260	28000		
180.00	7.8	2210	28100		
151.30	9.3	2150	28200		
139.05	10	2100	28300		
123.48	11	2060	28300	AD ₂	
110.40	13	2000	28400		
99.26	14	1960	28500		
91.20	15	1510	29100		
86.15	16	1880	28600		
81.76	17	1600	29000		
77.14	18	1820	28700		
70.43	20	1600	29000		
64.27	22	1600	29000		
64.00	22	1700	28900	AD ₃	
57.00	25	1600	29000	AD ₂	
47.91	29	1600	29000		
44.03	32	1600	29000		
39.10	36	1600	28200	AD ₃	
34.96	40	1600	27100		
31.43	45	1600	26000		
27.28	51	1600	24700		
25.50	55	1240	23400		
24.43	57	1600	23700		
21.43	65	1240	21800		
20.27	69	1600	22100		
19.70	71	1240	21100		
17.49	80	1240	20200		
15.64	90	1240	19300	AD ₄	
14.06	100	1240	18500		
12.21	115	1240	17400		
10.93	128	1240	16600		
9.07	154	1140	15900		
7.88	178	1010	15700		



JRTS97, JRTS37R17, JRTS47R17



JRTS97		4000Nm			AD
i	n _a [1/min]	M _{amax} [Nm]	F _{Ra} [N]	AD	
286.40	4.9	4000	36300		
262.22	5.3	4000	36300		
231.67	6.0	4000	36300		
196.52	7.1	4000	36300		
180.95	7.7	3920	36500		
161.74	8.7	3840	36600	AD ₃	
145.60	9.6	3730	36800		
131.85	11	3650	37000		
116.92	12	3510	37200		
105.71	13	3440	37300		
89.60	16	3240	37600		
80.85	17	3230	37600		
78.26	18	3080	37900		
71.43	20	3300	37500	AD ₄	
65.45	21	2900	38100	AD ₃	
60.59	23	3300	37500		
55.79	25	3300	37100		
49.87	28	3300	35600		
44.89	31	3300	34100	AD ₄	
40.65	34	3300	32800		
36.05	39	3300	31300		
32.60	43	3200	30400		
27.63	51	3010	29000	AD ₅	
26.39	53	2600	26100	AD ₄	
24.13	58	2870	28000		
23.59	59	2600	24900		
21.23	66	2600	23700		
19.23	73	2600	22700		
17.05	82	2570	21100	AD ₅	
15.42	91	2470	20800		
13.07	107	2330	20100		
11.41	123	2210	19500		
9.55	147	2040	18800		
8.26	169	1770	18800		

JRTS37R17		90Nm			AD
i	n _a [1/min]	Stage S37 R17	M _{amax} [Nm]	F _{Ra} [N]	
10037	0.14	2 3	92	3000	
8654	0.16	2 3	92	3000	
8066	0.17	2 3	92	3000	
7051	0.20	2 3	92	3000	
6079	0.23	2 3	92	3000	
5431	0.26	2 3	92	3000	
4747	0.29	2 3	92	3000	
4155	0.34	2 3	92	3000	
3632	0.39	2 3	92	3000	
2866	0.49	2 3	92	3000	
2471	0.57	2 3	92	3000	
2160	0.65	2 3	92	3000	
1887	0.74	2 3	92	3000	
1665	0.84	2 3	92	3000	
1456	0.96	2 3	92	3000	
1271	1.1	2 3	92	3000	
1121	1.2	2 3	92	3000	
994	1.4	2 3	92	3000	
869	1.6	2 3	92	3000	
774	1.8	2 2	92	3000	
666	2.1	2 2	92	3000	
596	2.3	2 2	92	3000	
521	2.7	2 2	92	3000	
456	3.1	2 2	92	3000	
398	3.5	2 2	92	3000	
351	4.0	2 2	92	3000	
303	4.6	2 2	92	3000	
265	5.3	2 2	92	3000	
232	6.0	2 2	92	3000	
202	6.9	2 2	92	3000	
179	7.8	2 2	92	3000	
158	8.9	2 2	92	3000	
144	9.7	2 2	92	3000	
118	12	2 2	92	3000	
110	13	2 2	92	3000	

JRTS47R17		185Nm			AD
i	n _a [1/min]	Stage S47 R17	M _{amax} [Nm]	F _{Ra} [N]	
12909	0.11	2 3	185	5250	
11189	0.13	2 3	185	5250	
10374	0.13	2 3	185	5250	
8992	0.16	2 3	185	5250	
7860	0.18	2 3	185	5250	
6887	0.20	2 3	185	5250	
6055	0.23	2 3	185	5250	
5259	0.26	2 3	185	5250	
4637	0.30	2 3	185	5250	
4092	0.34	2 3	185	5250	
3582	0.39	2 3	185	5200	
3131	0.45	2 3	185	5200	
2714	0.52	2 3	185	5200	
2412	0.58	2 3	185	5200	
2131	0.66	2 3	185	5200	
1863	0.75	2 3	185	5200	
1663	0.84	2 3	185	5200	
1435	0.98	2 3	185	5200	
1254	1.1	2 3	185	5200	
1120	1.2	2 3	185	5200	
1083	1.3	2 3	185	5200	
965	1.5	2 3	185	5200	
956	1.5	2 3	185	5210	
865	1.6	2 2	185	5200	
750	1.9	2 2	185	5200	
655	2.1	2 2	185	5200	
574	2.4	2 2	185	5200	
506	2.8	2 2	185	5200	
438	3.2	2 2	185	5200	
388	3.6	2 2	185	5200	
336	4.2	2 2	185	5200	
294	4.8	2 2	185	5200	
257	5.4	2 2	185	5260	
229	6.1	2 2	185	5200	
200	7.0	2 2	185	5200	
187	7.5	2 2	185	5200	
165	8.5	2 2	185	5200	
148	9.5	2 2	185	5200	
131	11	2 2	185	5200	



JRTS57R17, JRTS67/77R37 $n_g=1400$ 1/min

JRTS57R17			300Nm			
i	n_a [1/min]	Stage		M_{amax} [Nm]	F_{Ra} [N]	
		S57	R17			
12909	0.11	2	3	330	6800	
11189	0.13	2	3	330	6800	
10374	0.13	2	3	330	6800	
8992	0.16	2	3	330	6800	
7860	0.18	2	3	330	6800	
6887	0.20	2	3	330	6800	
6055	0.23	2	3	330	6800	
5292	0.26	2	3	330	6800	
4637	0.30	2	3	330	6800	
4092	0.34	2	3	330	6800	
3628	0.39	2	3	330	6800	
3131	0.45	2	3	300	7090	
2714	0.52	2	3	300	7090	
2412	0.58	2	3	300	7090	
2131	0.66	2	3	300	7090	
1863	0.75	2	3	300	7090	
1663	0.84	2	3	300	7090	
1435	0.98	2	3	300	7090	
1254	1.1	2	3	300	7090	
1083	1.3	2	3	300	7090	
965	1.5	2	2	300	7090	
865	1.6	2	2	300	7090	
750	1.9	2	2	300	7090	
655	2.1	2	2	300	7090	
574	2.4	2	2	300	7090	
506	2.8	2	2	300	7090	
438	3.2	2	2	300	7090	
388	3.6	2	2	300	7090	
336	4.2	2	2	300	7090	
294	4.8	2	2	300	7090	
269	5.2	2	2	300	7090	
229	6.1	2	2	300	7090	
204	6.9	2	2	300	7090	
187	7.5	2	2	300	7090	
165	8.5	2	2	300	7090	
131	11	2	2	300	7090	

JRTS67R37			570Nm			
i	n_a [1/min]	Stage		M_{amax} [Nm]	F_{Ra} [N]	
		S67	R37			
21362	0.07	2	3	570	8190	
19594	0.07	2	3	570	8190	
18120	0.08	2	3	570	8190	
16682	0.08	2	3	570	8190	
14383	0.10	2	3	570	8190	
12774	0.11	2	3	570	8190	
11013	0.13	2	3	570	8190	
9694	0.14	2	3	570	8190	
8529	0.16	2	3	570	8190	
7455	0.19	2	3	570	8190	
6531	0.21	2	3	570	8190	
5759	0.24	2	3	570	8190	
4965	0.28	2	3	570	8190	
4410	0.32	2	3	570	8190	
3880	0.36	2	3	570	8190	
3432	0.41	2	3	570	8190	
2944	0.48	2	3	570	8190	
2630	0.53	2	3	570	8190	
2279	0.61	2	3	570	8190	
2014	0.70	2	3	570	8190	
1772	0.79	2	3	570	8190	
1559	0.90	2	3	570	8190	
1363	1.0	2	3	570	8190	
1194	1.2	2	3	570	8190	
1045	1.3	2	3	570	8190	
914	1.5	2	3	570	8190	
809	1.7	2	2	570	8190	
712	2.0	2	2	570	8190	
615	2.3	2	2	570	8190	
543	2.6	2	2	570	8190	
469	3.0	2	2	570	8190	
424	3.3	2	2	570	8190	
365	3.8	2	2	570	8190	
319	4.4	2	2	570	8190	
281	5.0	2	2	570	8190	
246	5.7	2	2	570	8190	
221	6.3	2	2	570	8190	
198	7.1	2	2	570	8190	
168	8.3	2	2	570	8190	
156	9.0	2	2	570	8190	

JRTS77R37			1270Nm			
i	n_a [1/min]	Stage		M_{amax} [Nm]	F_{Ra} [N]	
		S77	R37			
25493	0.05	2	3	1270	11700	
21787	0.06	2	3	1270	11700	
19907	0.07	2	3	1270	11700	
17013	0.08	2	3	1270	11700	
14668	0.10	2	3	1270	11700	
13110	0.11	2	3	1270	11700	
11569	0.12	2	3	1270	11700	
9887	0.14	2	3	1270	11700	
8817	0.16	2	3	1270	11700	
7735	0.18	2	3	1270	11700	
6735	0.21	2	3	1270	11700	
5943	0.24	2	3	1270	11700	
5214	0.27	2	3	1270	11700	
4618	0.30	2	3	1270	11700	
3992	0.35	2	3	1270	11700	
3540	0.40	2	3	1270	11700	
3098	0.45	2	3	1270	11700	
2753	0.51	2	3	1240	12000	
2374	0.59	2	3	1240	12000	
2083	0.67	2	3	1240	12000	
1813	0.77	2	3	1240	12000	
1745	0.80	2	3	1240	12000	
1600	0.88	2	3	1240	12000	
1404	1.0	2	3	1240	12000	
1245	1.1	2	3	1240	12000	
1100	1.3	2	2	1240	12000	
954	1.5	2	2	1240	12000	
837	1.7	2	2	1240	12000	
714	2.0	2	2	1240	12000	
637	2.2	2	2	1240	12000	
574	2.4	2	2	1240	12000	
499	2.8	2	2	1240	12000	
438	3.2	2	2	1240	12000	
389	3.6	2	2	1240	12000	
327	4.3	2	2	1240	12000	
289	4.8	2	2	1240	12000	
250	5.6	2	2	1240	12000	
219	6.4	2	2	1240	12000	



JRTS87/97R57, $n_e=1400$ 1/min

JRTS87R57		2500Nm			
i	n_a [1/min]	Stage		M_{amax} [Nm]	F_{Ra} [N]
		S87	R57		
25987	0.05	2	3	2500	27500
23940	0.06	2	3	2500	27500
20568	0.07	2	3	2500	27500
18265	0.08	2	3	2500	27500
16774	0.08	2	3	2500	27500
14820	0.09	2	3	2500	27500
13160	0.11	2	3	2500	27500
11200	0.12	2	3	2500	27500
9904	0.14	2	3	2500	27500
8549	0.16	2	3	2500	27500
7643	0.18	2	3	2500	27500
6706	0.21	2	3	2500	27500
5875	0.24	2	3	2500	27500
5187	0.27	2	3	2500	27500
4606	0.30	2	3	2500	27500
3872	0.36	2	3	2500	27500
3475	0.40	2	2	2500	27500
2905	0.48	2	2	2500	27500
2586	0.54	2	2	2500	27500
2335	0.60	2	2	2500	27500
2054	0.68	2	2	2500	27500
1824	0.77	2	2	2500	27500
1631	0.86	2	2	2500	27500
1332	1.1	2	2	2500	27500
1191	1.2	2	2	2500	27500
1032	1.4	2	2	2500	27500
930	1.5	2	2	2500	27500
831	1.7	2	2	2500	27500
719	1.9	2	2	2500	27500
624	2.2	2	2	2500	27500
558	2.5	2	2	2500	27500
485	2.9	2	2	2500	27500
435	3.2	2	2	2450	27600
378	3.7	2	2	2450	27600
323	4.3	2	2	2400	27700
281	5.0	2	2	2400	27700
255	5.5	2	2	1980	28400
222	6.3	2	2	1980	28400
205	6.8	2	2	1980	28400

JRTS97R57		4200Nm			
i	n_a [1/min]	Stage		M_{amax} [Nm]	F_{Ra} [N]
		S97	R57		
33818	0.04	2	3	4200	34200
31154	0.04	2	3	4200	34200
27847	0.05	2	3	4200	34200
24641	0.06	2	3	4200	34200
21537	0.07	2	3	4200	34200
18749	0.07	2	3	4200	34200
16233	0.09	2	3	4200	34200
14576	0.10	2	3	4200	34200
12752	0.11	2	3	4200	34200
11267	0.12	2	3	4200	34200
10078	0.14	2	3	4200	34200
8608	0.16	2	3	4200	34200
7554	0.19	2	3	4200	34200
6640	0.21	2	3	4200	30600
5780	0.24	2	3	4200	30600
4937	0.28	2	3	4200	30600
4444	0.32	2	3	4200	30600
4017	0.35	2	3	4200	30600
3453	0.41	2	3	4200	30600
3108	0.45	2	3	4200	30600
2654	0.53	2	3	4200	30600
2329	0.60	2	3	4200	30600
2081	0.67	2	3	4200	30600
1860	0.75	2	3	4200	30600
1574	0.89	2	3	4200	30600
1394	1.0	2	2	4200	30600
1223	1.1	2	2	4200	30600
1070	1.3	2	2	4200	30600
928	1.5	2	2	4200	30600
824	1.7	2	2	4200	30600
714	2.0	2	2	4200	34400
626	2.2	2	2	4200	30600
538	2.6	2	2	4200	30600
484	2.9	2	2	4200	30700
420	3.3	2	2	4200	30700
376	3.7	2	2	4200	30800
327	4.3	2	2	4200	30800
287	4.9	2	2	4200	30900
252	5.6	2	2	4200	31000
219	6.4	2	2	4200	31000
205	6.8	2	2	4200	31000

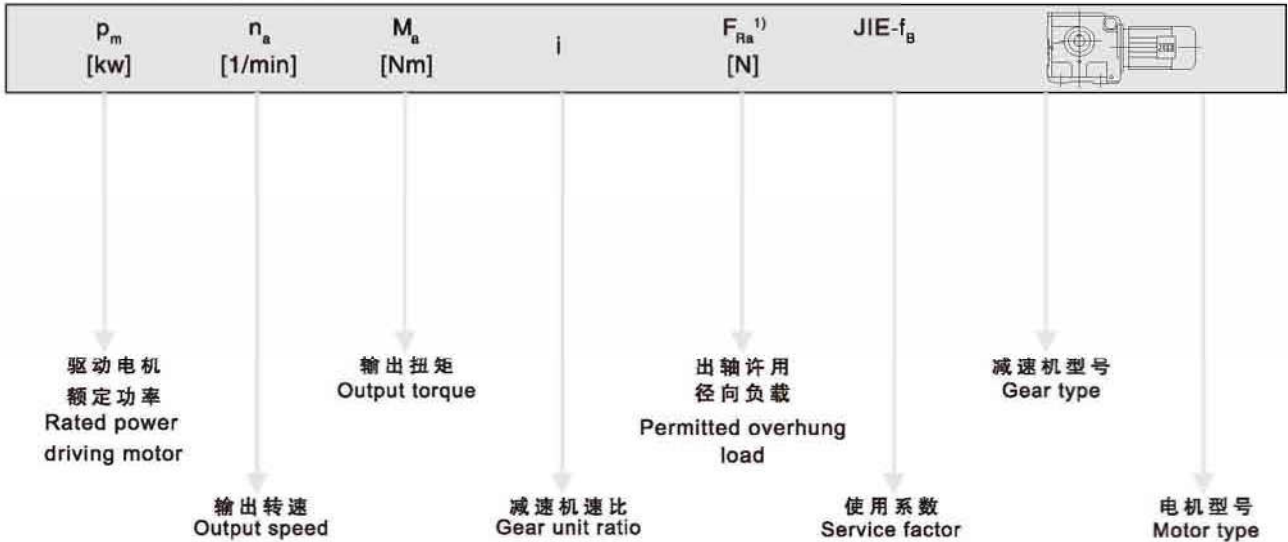




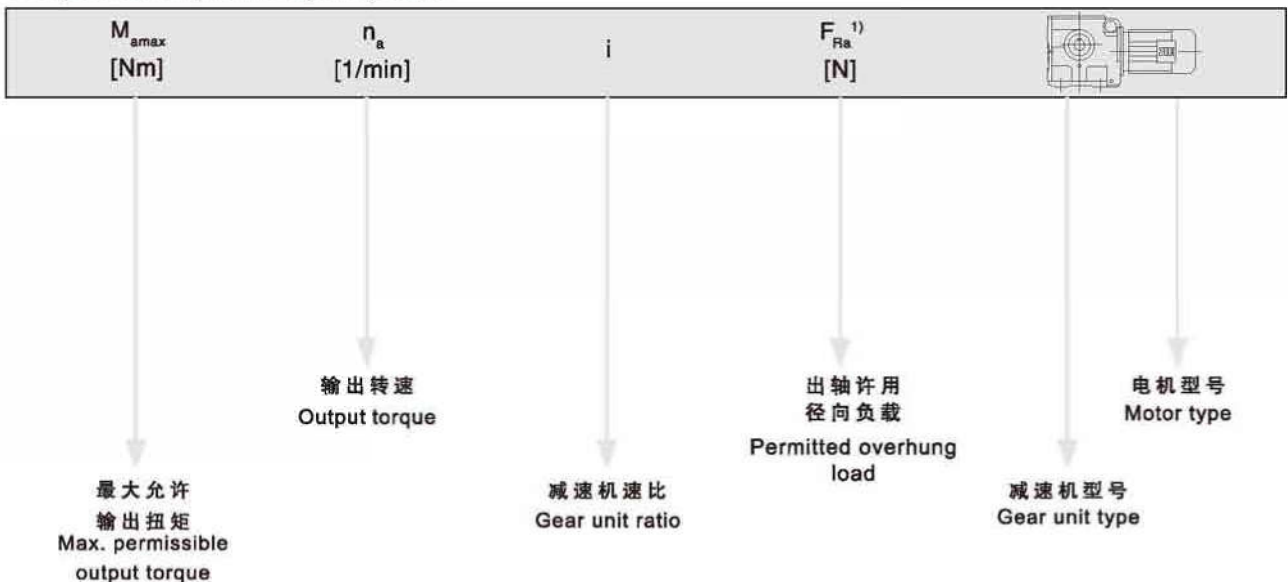
8.4 选型表注释 Selection table

选型表的结构

Selection table for geared motors



对于特殊低输出转速：
For particularly low output speeds



图例 Cutoffine

★也可用于EExe电机

★EEXE motor is optional

1) 实心轴底脚安装减速机的径向负载

1)Overhung load specified for foot-mounted gear unit with solid shaft

注意: Notice:

对于特殊低输出转速驱动（多级减速电机），电机功率必须与减速机的最大允许输出扭矩相对应。
In drives for particularly low output speeds(multi-stage geared motors),the motor power must be limited according to the maximum permitted output torque of the gear unit.



输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.12kW					
0.12	4610	11267	28700	0.90	JRTS97R57DS63S4
0.14	4210	10078	32800	1.00	JRTSF97R57DS63S4
0.16	3500	8608	34200	1.20	JRTSA97R57DS63S4
0.18	3090	7554	34800	1.35	JRTSAF97R57DS63S4
0.18	3120	7643	14400	0.80	
0.21	2630	6706	27200	0.95	JRTS87R57DS63S4
0.23	2330	5875	27800	1.05	JRTSF87R57DS63S4
0.27	1960	5187	28500	1.25	JRTSA87R57DS63S4
0.30	1740	4606	28800	1.45	JRTSAF87R57DS63S4
0.36	1450	3872	29200	1.70	
0.39	1340	3540	9700	0.95	
0.45	1170	3098	12500	1.10	
0.58	1280	2374	11600	0.95	
0.66	1130	2083	12900	1.10	JRTS77R37DS63S4
0.76	960	1813	14100	1.30	JRTSF77R37DS63S4
0.79	910	1745	14300	1.35	JRTSA77R37DS63S4
0.86	840	1600	14700	1.50	JRTSAF77R37DS63S4
0.98	735	1404	15200	1.70	
1.1	645	1245	15600	1.90	
1.0	665	1363	4800	0.85	JRTS67R37DS63S4
1.2	575	1194	8160	1.00	JRTSF67R37DS63S4
1.3	515	1045	8720	1.10	JRTSA67R37DS63S4
1.5	445	914	9280	1.30	JRTSAF67R37DS63S4
1.7	400	809	9580	1.40	
1.9	355	712	9860	1.60	
2.2	295	615	10100	1.95	JRTS67R37DS63S4
2.5	265	543	10300	2.2	JRTSF67R37DS63S4
2.9	220	469	10400	2.6	JRTSA67R37DS63S4
3.3	197	424	10500	2.9	JRTSAF67R37DS63S4
3.8	180	365	10500	3.2	
2.1	315	655	6930	0.95	
2.4	275	574	7290	1.10	
2.7	240	506	7540	1.25	JRTS57R17DS63S4
3.2	210	438	7750	1.45	JRTSF57R17DS63S4
3.6	183	388	7880	1.65	JRTSA57R17DS63S4
4.1	163	336	7980	1.85	JRTSAF57R17DS63S4
4.7	140	294	8070	2.1	
5.1	134	269	8090	2.2	
3.2	210	438	5060	0.90	
3.6	183	388	5210	1.00	
4.1	162	336	5320	1.15	JRTS47R17DS63S4
4.7	139	294	5450	1.35	JRTSF47R17DS63S4
5.4	95	257	5680	1.95	JRTSA47R17DS63S4
6.0	113	229	5570	1.65	JRTSAF47R17DS63S4
6.9	99	200	5630	1.90	
7.4	92	187	5660	2.0	
6.8	99	202	3000	0.95	
7.7	88	179	3000	1.05	JRTS37R17DS63S4
8.7	78	158	3000	1.15	JRTSF37R17DS63S4
9.6	72	144	3000	1.25	JRTSA37R17DS63S4
12	59	118	3000	1.55	JRTSAF37R17DS63S4
13	55	110	3000	1.65	

输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.12kW					
4.5	143	201.00	8050	2.1	JRTS57DS63M6
4.9	133	184.80	8090	2.2	JRTSF57DS63M6
5.7	116	158.12	8150	2.5	JRTSA57DS63M6
6.6	103	137.05	8180	2.9	JRTSAF57DS63M6
4.5	138	201.00	5490	1.30	JRTS47DS63M6
4.9	129	184.80	5540	1.40	JRTSF47DS63M6
5.7	112	158.12	5610	1.55	JRTSA47DS63M6
6.6	99	137.05	5660	1.75	JRTSAF47DS63M6
7.0	93	128.10	5680	1.85	
6.9	95	201.00	5680	1.80	
7.5	89	184.80	5700	1.90	JRTS47DS63S4
8.7	77	158.12	5740	2.2	JRTSF47DS63S4
10	68	137.05	5780	2.5	JRTSA47DS63S4
11	64	128.10	5790	2.6	JRTSAF47DS63S4
12	57	110.73	5810	3.0	
5.7	107	157.43	3000	0.85	
6.2	99	144.40	3000	0.95	JRTS37DS63M6
7.3	86	122.94	3000	1.05	JRTSF37DS63M6
8.5	76	106.00	3000	1.20	JRTSA37DS63M6
9.1	71	98.80	3000	1.30	JRTSAF37DS63M6
10	64	86.36	3000	1.45	
8.8	74	157.43	3000	1.25	
9.6	68	144.40	3000	1.35	JRTS37DS63S4
11	60	122.94	3000	1.55	JRTSF37DS63S4
13	52	106.00	3000	1.70	JRTSA37DS63S4
14	49	98.80	3000	1.75	JRTSAF37DS63S4
16	44	86.36	3000	1.95	
17	41	80.96	3000	2.1	
19	37	71.44	3000	2.3	
22	33	63.33	3000	2.5	
25	35	55.93	3000	2.3	
27	33	51.30	3000	2.5	
32	28	43.68	3000	2.9	
37	25	37.66	3000	3.2	JRTS37DS63S4
39	23	35.10	3000	3.4	JRTSF37DS63S4
45	20	30.68	3000	3.7	JRTSA37DS63S4
48	19	28.76	3000	3.9	JRTSAF37DS63S4
54	17	25.38	3000	4.3	
61	15	22.50	3000	4.8	
69	14	19.89	3000	3.6	
76	13	18.24	3000	3.9	
89	11	15.53	2870	4.4	
0.18kW					
0.29	2970	4606	20900	0.85	JRTS87R57DS63M4
0.34	2480	3872	27500	1.00	JRTSF87R57DS63M4
					JRTSA87R57DS63M4
					JRTSAF87R57DS63M4



输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.18kW					
0.38	2350	3475	27800	1.05	
0.45	1970	2905	28500	1.25	
0.51	1710	2586	28900	1.45	JRTS87R57DS63M4
0.57	1520	2335	29100	1.65	JRTSF87R57DS63M4
0.64	1320	2054	29400	1.90	JRTSA87R57DS63M4
0.72	1170	1824	29500	2.1	JRTSAF87R57DS63M4
0.81	1050	1631	29600	2.4	
0.94	1220	1404	12200	1.00	JRTS77R37DS63M4
1.1	1070	1245	13300	1.15	JRTSF77R37DS63M4 JRTSA77R37DS63M4 JRTSAF77R37DS63M4
1.2	990	1100	13900	1.25	
1.4	850	954	14700	1.45	JRTS77R37DS63M4
1.6	745	837	15200	1.65	JRTSF77R37DS63M4
1.9	625	714	15600	2.0	JRTSA77R37DS63M4
2.1	555	637	15900	2.2	JRTSAF77R37DS63M4
2.3	500	574	16000	2.5	
1.6	660	809	5140	0.85	
1.9	580	712	8060	1.00	
2.2	490	615	8920	1.15	JRTS67R37DS63M4
2.4	440	543	9330	1.30	JRTSF67R37DS63M4
2.8	370	469	9780	1.55	JRTSA67R37DS63M4
3.1	335	424	9970	1.70	JRTSAF67R37DS63M4
3.6	295	365	10100	1.90	
3.0	345	438	6630	0.85	
3.4	305	388	7040	1.00	
3.9	270	336	7350	1.10	JRTS57R17DS63M4
4.5	235	294	7600	1.30	JRTSF57R17DS63M4
4.9	220	269	7690	1.35	JRTSA57R17DS63M4
5.8	188	229	7860	1.60	JRTSAF57R17DS63M4
6.5	169	204	7950	1.80	
7.1	154	187	8010	1.95	
4.5	230	294	4910	0.80	
5.1	158	257	5400	1.15	
5.8	185	229	5200	1.00	JRTS47R17DS63M4
6.6	162	200	5330	1.15	JRTSF47R17DS63M4
7.1	152	187	5380	1.20	JRTSA47R17DS63M4
8.0	134	165	5470	1.40	JRTSAF47R17DS63M4
8.9	121	148	5530	1.55	
10	108	131	5590	1.70	
4.0	255	217.41	10300	2.2	JRTS67DS63L6
4.6	225	190.11	10400	2.5	JRTSF67DS63L6
4.8	215	180.60	10400	2.6	JRTSA67DS63L6 JRTSAF67DS63L6
4.3	220	201.00	7670	1.35	JRTS57DS63L6
4.7	205	184.80	7760	1.45	JRTSF57DS63L6
5.5	180	158.12	7900	1.65	JRTSA57DS63L6
6.3	159	137.05	7990	1.85	JRTSAF57DS63L6
6.6	154	201.00	8010	1.90	JRTS57DS63M4
7.1	143	184.80	8050	2.1	JRTSF57DS63M4
8.4	125	158.12	8120	2.4	JRTSA57DS63M4
9.6	110	137.05	8160	2.7	JRTSAF57DS63M4

输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.18kW					
4.3	215	201.00	5090	0.85	JRTS47DS63L6
4.7	199	184.80	5180	0.90	JRTSF47DS63L6
5.5	173	158.12	5320	1.00	JRTSA47DS63L6
6.3	153	137.05	5420	1.10	JRTSAF47DS63L6
6.8	144	128.10	5470	1.20	
6.6	149	201.00	5440	1.15	
7.1	138	184.80	5490	1.25	
8.4	121	158.12	5570	1.40	
9.6	107	137.05	5630	1.60	JRTS47DS63M4
10	100	128.10	5660	1.65	JRTSF47DS63M4
12	88	110.73	5700	1.90	JRTSA47DS63M4
14	77	94.08	5750	2.2	JRTSAF47DS63M4
16	69	84.00	5770	2.4	
18	60	71.75	5800	2.8	
19	69	69.39	5750	2.2	
8.4	115	157.43	3000	0.80	
9.1	107	144.40	3000	0.85	JRTS37DS63M4
11	93	122.94	3000	1.00	JRTSF37DS63M4
12	82	106.00	3000	1.10	JRTSA37DS63M4
13	77	98.80	3000	1.15	JRTSAF37DS63M4
15	68	86.36	3000	1.25	
16	64	80.96	3000	1.30	
18	58	71.44	3000	1.45	
21	52	63.33	3000	1.60	
24	55	55.93	3000	1.45	
26	51	51.30	3000	1.60	
30	44	43.68	3000	1.85	
35	38	37.66	3000	2.1	
38	36	35.10	3000	2.2	JRTS37DS63M4
43	32	30.68	3000	2.4	JRTSF37DS63M4
46	30	28.76	3000	2.5	JRTSA37DS63M4
52	27	25.38	3000	2.8	JRTSAF37DS63M4
59	24	22.50	3000	3.0	
66	22	19.89	3000	2.3	
72	21	18.24	2940	2.5	
85	18	15.53	2810	2.8	
99	15	13.39	2700	3.2	
106	14	12.48	2650	3.4	
121	13	10.91	2550	3.8	
129	12	10.23	2500	4.0	
0.25kW					
0.45	2860	2905	24300	0.85	
0.50	2500	2586	27500	1.00	
0.56	2240	2335	28000	1.10	JRTS87R57DS63L4
0.63	1950	2054	28500	1.30	JRTSF87R57DS63L4
0.71	1730	1824	28900	1.45	JRTSA87R57DS63L4
0.80	1550	1631	29100	1.60	JRTSAF87R57DS63L4
1.4	910	930	29800	2.8	





输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.25kW					
1.4	1230	954	12100	1.00	
1.5	1080	837	13300	1.15	JRTS77R37DS63L4
1.8	910	714	14400	1.35	JRTSF77R37DS63L4
2.0	810	637	14900	1.55	JRTSA77R37DS63L4
2.3	730	574	15200	1.70	JRTSAF77R37DS63L4
2.6	625	499	15600	2.0	
2.4	635	543	7420	0.90	
2.8	540	469	8500	1.05	JRTS67R37DS63L4
3.1	485	424	8970	1.15	JRTSF67R37DS63L4
3.6	430	365	9390	1.30	JRTSA67R37DS63L4
4.1	375	319	9750	1.50	JRTSAF67R37DS63L4
4.6	330	281	9990	1.75	
4.4	340	294	6720	0.90	
4.8	315	269	6950	0.95	
5.7	270	229	7330	1.10	JRTS57R17DS63L4
6.4	245	204	7530	1.25	JRTSF57R17DS63L4
6.9	225	187	7660	1.35	JRTSA57R17DS63L4
7.9	198	165	7810	1.50	JRTSAF57R17DS63L4
9.9	159	131	7990	1.90	
3.1	435	217.41	9350	1.30	JRTS67D80N8
3.6	390	190.11	9670	1.45	JRTSF67D80N8
3.8	370	180.60	9770	1.50	JRTSA67D80N8
4.3	330	158.45	9980	1.70	JRTSAF67D80N8
4.1	350	217.41	9890	1.60	JRTS67DS71S6
4.6	310	190.11	10100	1.80	JRTSF67DS71S6
4.9	295	180.60	10100	1.90	JRTSA67DS71S6
5.6	265	158.45	10300	2.1	JRTSAF67DS71S6
6.0	245	217.41	10300	2.1	
6.8	220	190.11	10400	2.4	JRTS67DS63L4
7.2	210	180.60	10500	2.5	JRTSF67DS63L4
8.2	187	158.45	10500	2.8	JRTSA67DS63L4
9.7	161	134.40	10600	3.2	JRTSAF67DS63L4
11	147	121.33	10600	3.5	
12	131	106.75	10700	4.0	
4.4	305	201.00	7050	1.00	JRTS57DS71S6
4.8	285	184.80	7230	1.05	JRTSF57DS71S6
5.6	245	158.12	7510	1.20	JRTSA57DS71S6
6.4	220	137.05	7690	1.35	JRTSAF57DS71S6
6.9	205	128.10	7760	1.45	
6.5	215	201.00	7700	1.35	
7.0	200	184.80	7790	1.45	
8.2	176	158.12	7920	1.70	JRTS57DS63L4
9.5	155	137.05	8010	1.90	JRTSF57DS63L4
10	146	128.10	8040	2.0	JRTSA57DS63L4
12	129	110.73	8110	2.3	JRTSAF57DS63L4
14	111	94.08	8160	2.7	
15	101	84.00	8190	2.9	

输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.25kW					
6.5	210	201.00	5120	0.80	
7.0	195	184.80	5210	0.85	
8.2	170	158.12	5340	1.00	
9.5	150	137.05	5440	1.10	
10	141	128.10	5480	1.20	
12	124	110.73	5560	1.35	JRTS47DS63L4
14	108	94.08	5630	1.55	JRTSF47DS63L4
15	98	84.00	5670	1.70	JRTSA47DS63L4
18	85	71.75	5720	1.95	JRTSAF47DS63L4
19	97	69.39	5640	1.60	
19	80	67.20	5740	2.1	
20	90	63.80	5670	1.70	
24	78	54.59	5720	2.0	
27	68	47.32	5760	2.3	
13	108	98.80	3000	0.80	
15	96	86.36	3000	0.90	
16	91	80.96	3000	0.95	
18	81	71.44	3000	1.05	
21	73	63.33	3000	1.10	
23	78	55.93	3000	1.05	
25	72	51.30	3000	1.15	
30	62	43.68	3000	1.30	
35	54	37.66	3000	1.45	
37	51	35.10	3000	1.55	JRTS37DS63L4
42	45	30.68	3000	1.70	JRTSF37DS63L4
45	42	28.76	3000	1.80	JRTSA37DS63L4
51	37	25.38	3000	2.0	JRTSAF37DS63L4
58	33	22.50	3000	2.2	
65	32	19.89	2870	1.65	
71	29	18.24	2820	1.80	
84	25	15.53	2710	2.0	
97	22	13.39	2620	2.3	
104	20	12.48	2570	2.4	
119	18	10.91	2480	2.7	
127	17	10.23	2440	2.8	
144	15	9.02	2360	3.1	
163	13	8.00	2290	3.4	
191	11	6.80	2180	3.8	
92	21	28.76	2740	3.0	
105	19	25.38	2650	3.3	
118	17	22.50	2560	3.4	JRTS37DS63M2
134	16	19.89	2410	2.8	JRTSF37DS63M2
146	15	18.24	2350	3.0	JRTSA37DS63M2
171	13	15.53	2250	3.4	JRTSAF37DS63M2
199	11	13.39	2160	3.8	
213	10	12.48	2120	4.0	



输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N · m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.37kW					
0.67	2810	2054	25400	0.90	JRTS87R57DS71S4*
0.76	2490	1824	27500	1.00	JRTSF87R57DS71S4*
0.85	2230	1631	28000	1.10	JRTSA87R57DS71S4*
1.5	1320	930	29400	1.90	JRTSAF87R57DS71S4*
1.7	1190	831	29500	2.1	JRTSAF87R57DS71S4*
1.9	1290	714	11500	0.95	
2.2	1150	637	12700	1.10	JRTS77R37DS71S4*
2.4	1040	574	13600	1.20	JRTSF77R37DS71S4*
2.8	900	499	14400	1.40	JRTSA77R37DS71S4*
3.2	785	438	15000	1.60	JRTSAF77R37DS71S4*
3.5	700	389	15400	1.80	JRTSAF77R37DS71S4*
3.8	615	365	7700	0.95	JRTS67R37DS71S4*
4.3	535	319	8540	1.05	JRTSF67R37DS71S4*
4.9	470	281	9080	1.20	JRTSA67R37DS71S4*
5.6	425	246	9430	1.35	JRTSAF67R37DS71S4*
2.4	980	288.00	29700	2.5	JRTS87D90S8 *
2.6	890	258.18	29800	2.8	JRTSF87D90S8 *
3.1	775	222.40	29900	3.2	JRTSA87D90S8 *
					JRTSAF87D90S8*
3.0	735	225.26	15200	1.75	JRTS77D90S8 *
3.2	700	214.00	15300	1.80	JRTSF77D90S8 *
3.6	630	189.09	15600	2.0	JRTSA77D90S8 *
4.2	545	161.60	15900	2.3	JRTSAF77D90S8 *
					JRTS77DS71M6*
3.5	645	256.47	15600	2.0	JRTSF77DS71M6*
4.0	575	225.26	15800	2.2	JRTSA77DS71M6*
4.2	545	214.00	15900	2.3	JRTSAF77DS71M6*
4.1	505	217.41	8810	1.10	JRTS67DS71M6*
4.7	450	190.11	9260	1.25	JRTSF67DS71M6*
5.0	430	180.60	9400	1.30	JRTSA67DS71M6*
5.7	380	158.45	9700	1.45	JRTSAF67DS71M6*
6.3	345	217.41	9900	1.50	
7.3	310	190.11	10100	1.70	JRTS67DS71S4*
7.6	295	180.60	10200	1.75	JRTSF67DS71S4*
8.7	260	158.45	10300	2.0	JRTSA67DS71S4*
10	225	134.40	10400	2.3	JRTSAF67DS71S4*
11	205	121.33	10500	2.5	
5.7	360	158.12	6490	0.80	
6.6	315	137.05	6930	0.95	JRTS57DS71M6*
7.0	300	128.10	7100	1.00	JRTSF57DS71M6*
8.1	265	110.73	7390	1.10	JRTSA57DS71M6*
9.6	230	94.08	7630	1.30	JRTSAF57DS71M6*
11	205	84.00	7760	1.45	
6.9	305	201.00	7050	0.95	
7.5	285	184.80	7230	1.05	
8.7	245	158.12	7510	1.20	
10	220	137.05	7690	1.35	JRTS57DS71S4*
11	205	128.10	7770	1.45	JRTSF57DS71S4*
12	180	110.73	7900	1.65	JRTSA57DS71S4*
15	156	94.08	8000	1.90	JRTSAF57DS71S4*
16	141	84.00	8060	2.1	
19	122	71.75	8130	2.4	
20	139	69.39	8070	1.75	

输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N · m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.37kW					
21	115	67.20	8150	2.5	JRTS57DS71S4*
22	128	63.80	8110	1.90	JRTSF57DS71S4*
					JRTSA57DS71S4*
					JRTSAF57DS71S4*
10	210	137.05	5110	0.80	
11	199	128.10	5190	0.85	
12	175	110.73	5320	0.95	
15	151	94.08	5430	1.10	
16	137	84.00	5500	1.20	
19	119	71.75	5580	1.40	
20	136	69.39	5460	1.15	
21	112	67.20	5610	1.50	
22	126	63.80	5510	1.25	JRTS47DS71S4*
25	109	54.59	5590	1.40	JRTSF47DS71S4*
29	96	47.32	5410	1.60	JRTSA47DS71S4
31	90	44.22	5330	1.75	JRTSAF47DS71S4
36	78	38.23	5140	2.0	
42	67	32.48	4930	2.3	
48	60	29.00	4790	2.6	
56	52	24.77	4590	3.0	
59	49	23.20	4510	3.1	
68	46	20.33	4180	2.4	
78	40	17.62	4030	2.8	
84	37	16.47	3960	3.0	
22	103	63.33	3000	0.80	
27	101	51.30	3000	0.80	
32	87	43.68	3000	0.95	
37	76	37.66	3000	1.05	
39	71	35.10	3000	1.10	
45	63	30.68	3000	1.20	
48	59	28.76	3000	1.30	
54	52	25.38	2940	1.40	JRTS37DS71S4*
61	47	22.50	2870	1.55	JRTSF37DS71S4
69	44	19.89	2610	1.20	JRTSA37DS71S4
76	41	18.24	2570	1.30	JRTSAF37DS71S4
89	35	15.53	2500	1.45	
103	30	13.39	2420	1.60	
111	28	12.48	2390	1.70	
127	25	10.91	2320	1.95	
135	23	10.23	2280	2.0	
153	21	9.02	2220	2.2	
173	18	8.00	2150	2.5	
203	16	6.80	2070	2.7	
104	28	25.38	2540	2.2	
118	25	22.50	2460	2.3	
133	24	19.89	2290	1.85	JRTS37DS63L2
145	22	18.24	2250	2.0	JRTSF37DS63L2
171	19	15.53	2160	2.3	JRTSA37DS63L2
198	16	13.39	2080	2.5	JRTSAF37DS63L2
212	15	12.48	2040	2.7	
243	13	10.91	1970	3.0	





输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.37kW					
259	12	10.23	1940	3.1	JRTS37DS63L2
294	11	9.02	1870	3.3	JRTSF37DS63L2 JRTSA37DS63L2 JRTSAF37DS63L2
0.55kW					
1.0	2810	1332	25400	0.90	
1.1	2540	1191	27400	1.00	
1.3	2210	1032	28100	1.15	JRTS87R57DS71M4*
1.5	2040	930	28400	1.25	JRTSF87R57DS71M4*
1.6	1840	831	28700	1.35	JRTSA87R57DS71M4*
1.9	1600	719	29000	1.55	JRTSAF87R57DS71M4*
2.2	1400	624	29300	1.80	
2.4	1270	558	29400	1.95	
3.1	1010	435	29700	2.4	
2.7	1380	499	6920	0.90	
3.1	1210	438	12300	1.05	JRTS77R37DS71M4*
3.5	1070	389	13300	1.15	JRTSF77R37DS71M4*
4.2	910	327	14300	1.35	JRTSA77R37DS71M4*
4.7	820	289	14800	1.50	JRTSAF77R37DS71M4*
5.4	710	250	15300	1.75	
5.5	650	246	6600	0.90	JRTS67R37DS71M4*
6.2	580	221	8080	1.00	JRTSF67R37DS71M4*
6.9	530	198	8590	1.10	JRTSA67R37DS71M4*
8.1	455	168	9230	1.25	JRTSAF67R37DS71M4*
2.4	1450	288.00	29200	1.70	JRTS87D90L8 *
2.6	1320	258.18	29400	1.85	JRTSF87D90L8 *
3.1	1150	222.40	29600	2.1	JRTSA87D90L8 *
					JRTSAF87D90L8 *
3.1	1130	288.00	29600	2.2	JRTS87DS80S6*
3.5	1020	258.18	29700	2.4	JRTSF87DS80S6*
4.1	900	222.40	29800	2.7	JRTSA87DS80S6*
4.4	820	202.96	29800	2.9	JRTSAF87DS80S6*
3.0	1090	225.26	13200	1.15	JRTS77D90L8 *
3.2	1040	214.00	13500	1.20	JRTSF77D90L8 *
3.6	930	189.09	14200	1.35	JRTSA77D90L8 *
4.2	810	161.60	14900	1.55	JRTSAF77D90L8 *
3.5	960	256.47	14100	1.35	JRTS77DS80S6*
4.0	850	225.26	14700	1.50	JRTSF77DS80S6*
4.2	810	214.00	14800	1.55	JRTSA77DS80S6*
4.8	730	189.09	15200	1.75	JRTSAF77DS80S6*
5.6	635	161.60	15600	2.0	
5.3	660	256.47	15500	1.90	JRTS77DS71M4*
6.0	590	225.26	15800	2.2	JRTSF77DS71M4*
6.4	560	214.00	15800	2.3	JRTSA77DS71M4*
7.2	505	189.09	16000	2.5	JRTSAF77DS71M4*
6.3	520	217.41	8660	1.00	
7.2	465	190.11	9150	1.10	JRTS67DS71M4*
7.5	445	180.60	9300	1.15	JRTSF67DS71M4*
8.6	395	158.45	9620	1.30	JRTSA67DS71M4*
10	340	134.40	9930	1.55	JRTSAF67DS71M4*
11	310	121.33	10100	1.65	

输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.55kW					
13	275	106.75	10200	1.85	
13	265	100.80	10300	1.95	JRTS67DS71M4*
16	230	85.83	10400	2.3	JRTSF67DS71M4*
18	230	75.06	10400	2.1	JRTSA67DS71M4*
21	205	65.63	10500	2.3	JRTSAF67DS71M4*
9.6	340	94.08	6710	0.85	
11	305	84.00	7030	0.95	
13	265	71.75	7360	1.10	JRTS57DS80S6*
13	250	67.20	7470	1.15	JRTSF57DS80S6*
16	245	54.59	7520	1.10	JRTSA57DS80S6*
19	215	47.32	7710	1.25	JRTSAF57DS80S6*
20	200	44.22	7790	1.35	
24	176	38.23	7920	1.55	
8.6	370	158.12	6830	0.80	
9.9	330	137.05	6820	0.90	
11	310	128.10	7010	0.95	
12	270	110.73	7320	1.10	
14	235	94.08	7590	1.25	
16	210	84.00	7730	1.40	
19	184	71.75	7880	1.55	JRTS57DS71M4*
20	174	67.20	7930	1.65	JRTSF57DS71M4*
25	167	54.59	7960	1.45	JRTSA57DS71M4*
29	146	47.32	8040	1.70	JRTSAF57DS71M4*
31	137	44.22	8080	1.80	
36	120	38.23	8130	2.0	
42	103	32.48	7970	2.4	
47	92	29.00	7730	2.7	
55	79	24.77	7390	3.1	
59	75	23.20	7250	3.3	
67	69	20.33	6760	2.4	
16	205	84.00	5140	0.80	
19	179	71.75	5290	0.95	
20	169	67.20	5350	1.00	
25	165	54.59	5130	0.95	
29	144	47.32	5010	1.10	
31	135	44.22	4950	1.15	
36	118	38.23	4810	1.30	JRTS47DS71M4*
42	101	32.48	4650	1.55	JRTSF47DS71M4*
47	91	29.00	4540	1.70	JRTSA47DS71M4*
55	78	24.77	4380	2.0	JRTSAF47DS71M4*
59	74	23.20	4310	2.1	
67	69	20.33	3920	1.60	
77	60	17.62	3810	1.85	
83	56	16.47	3750	1.95	
96	49	14.24	3630	2.2	
112	42	12.10	3500	2.6	
126	37	10.80	3400	2.9	
147	32	9.23	3270	3.4	
44	94	30.68	2680	0.80	JRTS37DS71M4*
47	89	28.76	2670	0.85	JRTSF37DS71M4*
54	79	25.38	2630	0.95	JRTSA37DS71M4*
60	70	22.50	2600	1.05	JRTSAF37DS71M4*
71	60	19.13	2540	1.20	



输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.55kW					
88	53	15.53	2230	0.95	
102	46	13.39	2200	1.10	
109	43	12.48	2180	1.15	JRTS37DS71M4*
125	37	10.91	2130	1.30	JRTSF37DS71M4*
133	35	10.23	2110	1.35	JRTSA37DS71M4*
151	31	9.02	2070	1.50	JRTSAF37DS71M4*
170	28	8.00	2020	1.60	
200	24	6.80	1950	1.80	
94	46	28.76	2420	1.40	
106	41	25.38	2360	1.50	
120	37	22.50	2310	1.55	
136	34	19.89	2100	1.30	
148	32	18.24	2070	1.40	JRTS37DS71M2
174	27	15.53	2010	1.55	JRTSF37DS71M2
202	24	13.39	1950	1.75	JRTSA37DS71M2
216	22	12.48	1920	1.85	JRTSAF37DS71M2
248	19	10.91	1870	2.0	
264	18	10.23	1840	2.1	
299	16	9.02	1780	2.2	
338	14	8.00	1730	2.5	
397	12	6.80	1660	2.4	
0.75kW					
1.1	4840	1223	21300	0.85	
1.3	4240	1070	30700	1.00	
1.5	3650	928	33900	1.15	JRTS97R57DS80S4*
1.7	3230	824	34600	1.30	JRTSF97R57DS80S4*
1.9	2300	714	35900	1.85	JRTSA97R57DS80S4*
2.2	2450	626	35700	1.70	JRTSAF97R57DS80S4*
2.6	2110	538	36100	2.0	
2.8	1900	484	36300	2.2	
1.3	3030	1032	18700	0.85	
1.5	2780	930	25900	0.90	
1.7	2510	831	27500	1.00	JRTS87R57DS80S4*
1.9	2190	719	28100	1.15	JRTSF87R57DS80S4*
2.2	1920	624	28600	1.30	JRTSA87R57DS80S4*
2.5	1730	558	28900	1.45	JRTSAF87R57DS80S4*
3.2	1390	435	29300	1.75	
4.3	1060	323	29600	2.3	
4.2	1240	327	12000	1.00	JRTS77R37DS80S4*
4.8	1110	289	13100	1.10	JRTSF77R37DS80S4*
5.5	960	250	14000	1.30	JRTSA77R37DS80S4*
6.3	850	219	14700	1.45	JRTSAF77R37DS80S4*
2.4	2040	286.40	36100	2.1	JRTS97D100M8*
2.6	1890	262.22	36300	2.2	JRTSF97D100M8*
3.0	1690	231.67	36400	2.5	JRTSA97D100M8* JRTSAF97D100M8*
3.1	1540	288.00	29100	1.60	JRTS87DS80M6*
3.5	1400	258.18	29300	1.75	JRTSF87DS80M6*
4.1	1220	222.40	29500	1.95	JRTSA87DS80M6*
4.4	1120	202.96	29600	2.1	JRTSAF87DS80M6*
4.8	1050	288.00	29600	2.2	JRTS87DS80S4*
5.3	950	258.18	29700	2.4	JRTSF87DS80S4*
6.2	830	222.40	29800	2.8	JRTSA87DS80S4*
6.8	765	202.96	29900	3.0	JRTSAF87DS80S4*

输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.75kW					
4.0	1160	225.26	12700	1.10	JRTS77DS80M6*
4.2	1110	214.00	13100	1.15	JRTSF77DS80M6*
4.8	990	189.09	13900	1.30	JRTSA77DS80M6*
5.6	860	161.60	14600	1.45	JRTSAF77DS80M6*
5.4	890	256.47	14500	1.45	
6.1	790	225.26	14900	1.60	
6.4	755	214.00	15100	1.70	JRTS77DS80S4*
7.3	675	189.09	15400	1.90	JRTSF77DS80S4*
8.5	585	161.60	15800	2.2	JRTSA77DS80S4*
9.3	545	148.15	15900	2.3	JRTSAF77DS80S4*
11	480	130.00	16000	2.5	
11	460	123.20	16000	2.6	
13	405	107.83	16000	2.9	
7.3	625	190.11	7570	0.85	
7.6	595	180.60	7900	0.85	
8.7	530	158.45	8570	1.00	
10	460	134.40	9180	1.15	
11	420	121.33	9470	1.25	JRTS67DS80S4*
13	375	106.75	9750	1.40	JRTSF67DS80S4*
14	355	100.80	9860	1.45	JRTSA67DS80S4*
16	305	85.83	10100	1.70	JRTSAF67DS80S4*
18	310	75.06	10100	1.55	
21	275	65.63	10200	1.75	
22	260	62.35	10300	1.85	
25	230	54.70	10300	2.1	
30	198	46.40	9840	2.4	
13	365	71.75	6430	0.80	JRTS57DS80M6*
13	345	67.20	6660	0.85	JRTSF57DS80M6*
16	295	56.61	7140	1.00	JRTSA57DS80M6*
19	295	47.32	7150	0.90	JRTSAF57DS80M6*
20	275	44.22	7300	1.00	
12	365	110.73	6400	0.80	
15	315	94.08	6930	0.95	
16	285	84.00	7210	1.05	
19	250	71.75	7500	1.15	
21	235	67.20	7590	1.20	
25	225	54.59	7650	1.10	
29	197	47.32	7810	1.25	JRTS57DS80S4*
31	185	44.22	7870	1.35	JRTSF57DS80S4*
36	161	38.23	7980	1.50	JRTSA57DS80S4*
42	138	32.48	7670	1.80	JRTSAF57DS80S4*
48	124	29.00	7450	2.0	
56	107	24.77	7150	2.3	
59	100	23.20	7030	2.5	
68	93	20.33	6490	1.80	
78	81	17.62	6260	2.1	
84	76	16.47	6160	2.2	
97	66	14.24	5930	2.6	
29	194	47.32	4530	0.80	JRTS47DS80S4*
31	182	44.22	4500	0.85	JRTSF47DS80S4*
36	159	38.23	4420	1.00	JRTSA47DS80S4*
42	136	32.48	4310	1.15	JRTSAF47DS80S4*
48	122	29.00	4230	1.25	





输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
0.75kW					
56	106	24.77	4110	1.45	
59	99	23.20	4060	1.55	
68	93	20.33	3610	1.20	
78	81	17.62	3530	1.35	JRTS47DS80S4*
84	76	16.47	3490	1.45	JRTSF47DS80S4*
97	66	14.24	3410	1.65	JRTSA47DS80S4*
114	56	12.10	3300	1.95	JRTSAF47DS80S4*
128	50	10.80	3230	2.2	
150	43	9.23	3120	2.5	
160	41	8.64	3070	2.7	
190	34	7.28	2950	3.0	
72	81	19.13	2270	0.85	
111	57	12.48	1930	0.85	JRTS37DS80S4*
127	50	10.91	1920	0.95	JRTSF37DS80S4*
135	47	10.23	1910	1.00	JRTSA37DS80S4*
153	42	9.02	1890	1.10	JRTSAF37DS80S4*
173	37	8.00	1860	1.20	
203	32	6.80	1820	1.35	
141	43	19.13	2090	1.05	
174	37	15.53	1860	1.15	
202	32	13.39	1820	1.30	JRTS37DS80S2
216	30	12.48	1800	1.35	JRTSF37DS80S2
248	26	10.91	1760	1.50	JRTSA37DS80S2
264	25	10.23	1740	1.55	JRTSAF37DS80S2
299	22	9.02	1690	1.65	
338	19	8.00	1650	1.80	
397	17	6.80	1590	1.75	
1.1kW					
1.7	4720	824	23300	0.90	
2.0	3370	714	34400	1.25	JRTS97R57DS80M4*
2.2	3590	626	34000	1.15	JRTSF97R57DS80M4*
2.6	3090	538	34800	1.35	JRTSA97R57DS80M4*
2.9	2790	484	35200	1.50	JRTSAF97R57DS80M4*
3.3	2430	420	35700	1.75	
2.2	2820	624	25400	0.90	
2.5	2550	558	27400	1.00	
2.9	2240	485	28000	1.10	
3.2	2040	435	28400	1.20	JRTS87R57DS80M4*
3.7	1790	378	28800	1.35	JRTSF87R57DS80M4*
4.3	1560	323	29100	1.55	JRTSA87R57DS80M4*
5.0	1370	281	29300	1.75	JRTSAF87R57DS80M4*
5.5	1460	255	29200	1.35	
6.3	1280	222	29400	1.55	
6.8	1200	205	29500	1.65	
6.4	1240	219	12000	1.00	JRTS77R37DS80M4* JRTSF77R37DS80M4* JRTSA77R37DS80M4* JRTSAF77R37DS80M4*
2.4	3030	286.40	34900	1.40	JRTS97D100L8 *
2.6	2800	262.22	35200	1.50	JRTSF97D100L8 *
2.9	2500	231.67	35600	1.70	JRTSA97D100L8 *
3.5	2160	196.52	36000	1.95	JRTSAF97D100L8 *

输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_s	型 号 Model
1.1kW					
3.2	2310	286.40	35900	1.80	JRTS97DS90L6*
3.5	2130	262.22	36000	1.95	JRTSF97DS90L6*
4.0	1900	231.67	36300	2.2	JRTSA97DS90L6*
					JRTSAF97DS90L6*
3.2	2220	288.00	28100	1.10	JRTS87DS90L6*
3.6	2010	258.18	28400	1.20	JRTSF87DS90L6*
4.1	1760	222.40	28800	1.35	JRTSA87DS90L6*
4.5	1620	202.96	29000	1.45	JRTSAF87DS90L6*
4.9	1520	288.00	29100	1.50	
5.4	1370	258.18	29300	1.65	JRTS87DS80M4*
6.3	1200	222.40	29500	1.90	JRTSF87DS80M4*
6.9	1100	202.96	29600	2.0	JRTSA87DS80M4*
7.8	990	180.00	29700	2.2	JRTSAF87DS80M4*
9.2	840	151.30	29800	2.5	
6.2	1150	225.26	12800	1.10	
6.5	1100	214.00	13200	1.15	
7.4	980	189.09	13900	1.30	
8.7	850	161.60	14700	1.50	JRTS77DS80M4*
9.4	785	148.15	15000	1.60	JRTSF77DS80M4*
11	695	130.00	15400	1.75	JRTSA77DS80M4*
11	665	123.20	15500	1.80	JRTSAF77DS80M4*
13	585	107.83	15800	2.0	
14	535	97.14	15900	2.1	
16	470	85.22	16000	2.3	
12	605	121.33	7790	0.85	
13	540	106.75	8490	0.95	
14	515	100.80	8740	1.00	
16	445	85.83	9300	1.15	
18	405	78.00	9550	1.30	JRTS67DS80M4*
21	400	65.63	9610	1.20	JRTSF67DS80M4*
22	380	62.35	9720	1.25	JRTSA67DS80M4*
26	335	54.70	9560	1.45	JRTSAF67DS80M4*
30	285	46.40	9240	1.65	
33	260	41.89	9040	1.85	
38	230	36.85	8780	2.1	
40	220	34.80	8660	2.2	
47	187	29.63	8330	2.6	
20	360	71.75	6480	0.80	JRTS57DS80M4*
21	340	67.20	6710	0.85	JRTSF57DS80M4*
25	290	56.61	7180	0.90	JRTSA57DS80M4*
30	285	47.32	7220	0.85	JRTSAF57DS80M4*
32	265	44.22	7360	0.90	
37	235	38.23	7410	1.05	
43	200	32.48	7170	1.25	JRTS57DS80M4*
48	179	29.00	7000	1.35	JRTSF57DS80M4*
57	154	24.77	6760	1.60	JRTSA57DS80M4*
60	145	23.20	6660	1.70	JRTSAF57DS80M4*
72	123	19.54	6390	1.75	



输出转速 Output speed n_n [r/min]	输出转矩 Output torque T_n [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_b	型 号 Model
1.1kW					
79	117	17.62	5870	1.45	
85	110	16.47	5780	1.55	JRTS57DS80M4*
98	95	14.24	5610	1.75	JRTSF57DS80M4*
116	82	12.10	5400	2.1	JRTSA57DS80M4*
130	73	10.80	5260	2.3	JRTSAF57DS80M4*
152	63	9.23	5050	2.7	
48	177	29.00	3720	0.90	
57	153	24.77	3670	1.00	
60	143	23.20	3640	1.05	
72	122	19.54	3560	1.20	
79	117	17.62	3070	0.95	JRTS47DS80M4*
85	109	16.47	3060	1.00	JRTSF47DS80M4*
98	95	14.24	3030	1.15	JRTSA47DS80M4*
116	81	12.10	2980	1.35	JRTSAF47DS80M4*
130	73	10.80	2940	1.50	
152	63	9.23	2870	1.75	
162	59	8.64	2840	1.85	
192	50	7.28	2750	2.1	
175	54	8.00	1570	0.85	JRTS37DS80M4*
206	46	6.80	1580	0.95	JRTSF37DS80M4*
					JRTSA37DS80M4*
					JRTSAF37DS80M4*
202	47	13.39	1590	0.85	
216	44	12.48	1580	0.90	JRTS37DS80S2*
248	39	10.91	1570	1.00	JRTSF37DS80S2*
264	36	10.23	1560	1.05	JRTSA37DS80S2*
299	32	9.02	1540	1.10	JRTSAF37DS80S2*
338	28	8.00	1510	1.25	
397	24	6.80	1470	1.20	
1.5kW					
2.0	4590	714	29100	0.90	
2.2	4890	626	19100	0.85	JRTS97R57DS90M4*
2.6	4220	538	31100	1.00	JRTSF97R57DS90M4*
2.9	3810	484	33600	1.10	JRTSA97R57DS90M4*
3.4	3310	420	34500	1.25	JRTSAF97R57DS90M4*
3.8	2990	376	35000	1.40	
4.3	2630	327	35500	1.60	
2.9	3060	485	17200	0.80	
3.2	2780	435	25900	0.90	
3.7	2450	378	27600	1.00	JRTS87R57DS90M4*
4.4	2130	323	28200	1.15	JRTSF87R57DS90M4*
5.0	1870	281	28600	1.30	JRTSA87R57DS90M4*
5.5	2000	255	28400	1.00	JRTSAF87R57DS90M4*
6.3	1750	222	28800	1.15	
6.9	1630	205	29000	1.20	
2.4	4030	286.40	33100	1.05	JRTS97D112M8 *
2.7	3720	262.22	33700	1.15	JRTSF97D112M8 *
3.0	3330	231.67	34400	1.25	JRTSA97D112M8 *
3.6	2870	196.52	35200	1.45	JRTSAF97D112M8*

输出转速 Output speed n_n [r/min]	输出转矩 Output torque T_n [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_b	型 号 Model
1.5kW					
3.2	3150	286.40	34700	1.35	JRTS97DS100M6*
3.5	2910	262.22	35100	1.45	JRTSF97DS100M6*
4.0	2600	231.67	35500	1.60	JRTSA97DS100M6*
4.7	2230	196.52	35900	1.90	JRTSAF97DS100M6*
4.9	2130	286.40	36000	1.90	JRTS97DS90M4*
5.4	1970	262.22	36200	2.0	JRTSF97DS90M4*
6.1	1760	231.67	36400	2.3	JRTSA97DS90M4*
7.2	1510	196.52	36600	2.7	JRTSAF97DS90M4*
3.6	2740	258.18	26600	0.90	JRTS87DS100M6*
4.1	2390	222.40	27700	1.00	JRTSF87DS100M6*
4.5	2200	202.96	28100	1.10	JRTSA87DS100M6*
5.1	1980	180.00	28500	1.20	JRTSAF87DS100M6*
4.9	2060	288.00	28300	1.10	
5.5	1860	258.18	28700	1.20	
6.3	1630	222.40	29000	1.40	
6.9	1500	202.96	29200	1.50	JRTS87DS90M4*
7.8	1340	180.00	29400	1.65	JRTSF87DS90M4*
9.3	1140	151.30	29600	1.90	JRTSA87DS90M4*
10	1060	139.05	29600	2.0	JRTSAF87DS90M4*
11	950	123.48	29700	2.2	
13	850	110.40	29800	2.3	
14	770	99.26	29900	2.5	
7.5	1330	189.09	10600	0.95	
8.7	1150	161.60	12700	1.10	
9.5	1060	148.15	13400	1.15	
11	940	130.00	14100	1.30	
11	900	123.20	14400	1.35	
13	795	107.83	14900	1.45	
15	725	97.14	15300	1.60	JRTS77DS90M4*
17	640	85.22	15400	1.70	JRTSF77DS90M4*
19	650	75.09	14100	1.70	JRTSA77DS90M4*
20	620	71.33	14000	1.80	JRTSAF77DS90M4*
21	510	66.67	14600	2.0	
22	550	63.03	13700	2.0	
25	440	56.92	14000	2.3	
26	470	53.87	13200	2.3	
29	435	49.38	13000	2.5	
33	385	43.33	12600	2.9	
16	600	85.83	7850	0.85	JRTS67DS90M4*
18	550	78.00	8390	0.95	JRTSF67DS90M4*
21	540	65.63	8510	0.90	JRTSA67DS90M4*
					JRTSAF67DS90M4*
23	515	62.35	8740	0.95	
26	455	54.70	8810	1.05	
30	390	46.40	8590	1.25	
34	355	41.89	8450	1.35	JRTS67DS90M4*
38	310	36.85	8250	1.55	JRTSF67DS90M4*
41	295	34.80	8160	1.60	JRTSA67DS90M4*
48	255	29.63	7900	1.90	JRTSAF67DS90M4*
52	230	26.93	7740	2.1	
58	220	24.44	7000	1.55	
61	210	23.22	6950	1.60	
69	186	20.37	6790	1.85	





输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_b	型 号 Model
1.5kW					
82	159	17.28	6580	2.1	JRTS67DS90M4*
90	144	15.60	6440	2.4	JRTSF67DS90M4*
103	127	13.73	6260	2.7	JRTSA67DS90M4*
					JRTSAF67DS90M4*
43	270	32.48	6630	0.90	
49	245	29.00	6520	1.00	
57	210	24.77	6340	1.15	
61	196	23.20	6270	1.25	JRTS57DS90M4*
72	167	19.54	6060	1.30	JRTSF57DS90M4*
80	159	17.62	5430	1.05	JRTSA57DS90M4*
86	149	16.47	5380	1.15	JRTSAF57DS90M4*
99	129	14.24	5250	1.30	
117	110	12.10	5100	1.55	
131	99	10.80	4980	1.70	
153	85	9.23	4820	2.0	
99	129	14.24	2610	0.85	JRTS47DS90M4*
117	110	12.10	2620	1.00	JRTSF47DS90M4*
131	99	10.80	2620	1.10	JRTSA47DS90M4*
					JRTSAF47DS90M4*
153	85	9.23	2590	1.30	JRTS47DS90M4*
163	79	8.64	2580	1.35	JRTSF47DS90M4*
194	67	7.28	2530	1.55	JRTSA47DS90M4*
					JRTSAF47DS90M4*
299	44	9.02	1330	0.85	JRTS37DS90M2*
338	39	8.00	1350	0.90	JRTSF37DS90M2*
397	33	6.80	1340	0.90	JRTSA37DS90M2*
					JRTSAF37DS90M2*
2.2kW					
3.4	4900	420	18800	0.85	
3.8	4410	376	28300	0.95	JRTS97R57DS90L4*
4.3	3870	327	33500	1.10	JRTSF97R57DS90L4*
4.9	3420	287	34300	1.25	JRTSA97R57DS90L4*
5.6	3000	252	35000	1.40	JRTSAF97R57DS90L4*
3.3	4530	286.40	30200	0.95	JRTS97DS100L6*
3.6	4180	262.22	32800	1.00	JRTSF97DS100L6*
4.1	3730	231.67	33700	1.15	JRTSA97DS100L6*
4.8	3210	196.52	34600	1.30	JRTSAF97DS100L6*
4.9	3130	286.40	34800	1.30	
5.4	2890	262.22	35100	1.40	
6.1	2570	231.67	35500	1.55	
7.2	2210	196.52	36000	1.80	JRTS97DS90L4*
7.8	2050	180.95	36100	1.90	JRTSF97DS90L4*
8.7	1840	161.74	36300	2.1	JRTSA97DS90L4*
9.7	1670	145.60	36500	2.2	JRTSAF97DS90L4*
11	1520	131.85	36600	2.4	
12	1360	116.92	36700	2.6	
13	1240	105.71	36800	2.8	
16	1060	89.60	36900	3.1	
5.5	2730	258.18	26800	0.85	JRTS87DS90L4*
6.3	2380	222.40	27700	0.95	JRTSF87DS90L4*
6.9	2190	202.96	28100	1.05	JRTSA87DS90L4*
7.8	1970	180.00	28500	1.10	JRTSAF87DS90L4*
9.3	1680	151.30	28900	1.30	

输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_b	型 号 Model
2.2kW					
10	1550	139.05	29100	1.35	
11	1390	123.48	29300	1.50	
13	1250	110.40	29500	1.60	
14	1130	99.26	29600	1.75	JRTS87DS90L4*
16	990	86.15	29700	1.90	JRTSF87DS90L4*
17	1060	81.76	29600	1.50	JRTSA87DS90L4*
18	890	77.14	29800	2.0	JRTSAF87DS90L4*
20	920	70.43	29700	1.75	
22	840	64.27	29800	1.90	
25	750	57.00	29900	2.1	
11	1390	130.00	6140	0.85	
11	1320	123.20	11100	0.90	
13	1170	107.83	12600	1.00	
15	1060	97.14	13400	1.10	
17	940	85.22	14100	1.15	
19	840	75.20	13800	1.30	
21	745	66.67	13500	1.40	
22	810	63.03	12400	1.35	
25	645	56.92	13100	1.55	JRTS77DS90L4*
26	695	53.87	12100	1.60	JRTSF77DS90L4*
29	635	49.38	11900	1.75	JRTSA77DS90L4*
33	560	43.33	11700	1.95	JRTSAF77DS90L4*
34	535	41.07	11600	2.1	
39	470	35.94	11300	2.3	
44	425	32.38	11000	2.6	
50	375	28.41	10700	2.8	
56	330	25.07	10400	3.1	
62	310	22.89	9490	2.3	
67	285	20.99	9340	2.5	
30	570	46.40	7480	0.85	
34	515	41.89	7440	0.95	
38	460	36.85	7360	1.05	
41	435	34.80	7320	1.10	
48	370	29.63	7180	1.30	
52	340	26.93	7080	1.40	JRTS67DS90L4*
60	295	23.33	6920	1.60	JRTSF67DS90L4*
69	275	20.37	6060	1.25	JRTSA67DS90L4*
82	235	17.28	5960	1.45	JRTSAF67DS90L4*
90	210	15.60	5880	1.60	
103	186	13.73	5770	1.85	
109	176	12.96	5710	1.95	
128	151	11.03	5550	2.3	
141	137	10.03	5450	2.5	
162	119	8.69	5300	2.8	
99	190	14.24	4640	0.90	
117	162	12.10	4580	1.05	JRTS57DS90L4*
131	145	10.80	4520	1.15	JRTSF57DS90L4*
153	124	9.23	4420	1.35	JRTSA57DS90L4*
163	117	8.64	4380	1.40	JRTSAF57DS90L4*
194	99	7.28	4250	1.50	



输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_b	型 号 Model
3.0kW					
4.9	4710	287	23700	0.90	JRTS97R57DS100M4*
5.6	4140	252	32400	1.00	JRTSF97R57DS100M4*
6.4	3620	219	33900	1.15	JRTSA97R57DS100M4*
6.8	3400	205	34300	1.25	JRTSAF97R57DS100M4*
4.9	4290	286.40	32600	0.95	
5.3	3960	262.22	33300	1.00	
6.0	3530	231.67	34100	1.15	
7.1	3040	196.52	34900	1.30	JRTS97DS100M4*
7.7	2810	180.95	35200	1.40	JRTSF97DS100M4*
8.7	2530	161.74	35600	1.50	JRTSA97DS100M4*
9.6	2300	145.60	35900	1.65	JRTSAF97DS100M4*
11	2090	131.85	36100	1.75	
12	1870	116.92	36300	1.90	
13	1700	105.71	36400	2.0	
16	1450	89.60	36600	2.2	
17	1470	80.85	36600	2.2	
7.8	2700	180.00	27100	0.80	
9.2	2300	151.30	27900	0.95	
10	2130	139.05	28200	1.00	
11	1900	123.48	28600	1.10	
13	1720	110.40	28900	1.15	
14	1550	99.26	29100	1.25	
16	1360	86.15	29300	1.40	JRTS87DS100M4*
17	1460	81.76	29200	1.10	JRTSF87DS100M4*
18	1230	77.14	29500	1.50	JRTSA87DS100M4*
20	1260	70.43	29400	1.25	JRTSAF87DS100M4*
22	1160	64.27	29500	1.40	
25	1030	57.00	29700	1.55	
29	870	47.91	29800	1.85	
32	800	44.03	29800	2.0	
36	715	39.10	29900	2.2	
40	640	34.96	29900	2.5	
16	1290	85.22	11500	0.85	JRTS77DS100M4*
19	1150	75.20	12500	0.95	JRTSF77DS100M4*
21	1020	66.67	12400	1.00	JRTSA77DS100M4*
22	1110	63.03	10900	1.00	JRTSAF77DS100M4*
25	880	56.92	12100	1.10	
26	950	53.87	10800	1.15	
28	880	49.38	10800	1.25	
32	770	43.33	10700	1.40	
34	735	41.07	10600	1.50	
39	645	35.94	10400	1.70	JRTS77DS100M4*
43	585	32.38	10300	1.85	JRTSF77DS100M4*
49	515	28.41	10100	2.0	JRTSA77DS100M4*
56	455	25.07	9840	2.2	JRTSAF77DS100M4*
61	430	22.89	8680	1.65	
67	395	20.99	8590	1.80	
76	345	18.42	8450	2.0	
80	330	17.45	8390	2.2	
92	290	15.28	8210	2.5	
102	260	13.76	8060	2.7	

输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_b	型 号 Model
3.0kW					
116	230	12.07	7870	3.1	JRTS77DS100M4*
131	205	10.65	7670	3.5	JRTSF77DS100M4*
					JRTSA77DS100M4*
					JRTSAF77DS100M4*
40	595	34.80	6350	0.80	JRTS67DS100M4*
47	510	29.63	6350	0.95	JRTSF67DS100M4*
52	465	26.93	6330	1.05	JRTSA67DS100M4*
					JRTSAF67DS100M4*
60	405	23.33	6270	1.20	
69	375	20.37	5230	0.90	
81	320	17.28	5250	1.05	
90	290	15.60	5240	1.15	JRTS67DS100M4*
102	255	13.73	5210	1.35	JRTSF67DS100M4*
108	240	12.96	5190	1.40	JRTSA67DS100M4*
127	205	11.03	5100	1.65	JRTSAF67DS100M4*
140	188	10.03	5050	1.80	
161	164	8.69	4940	2.0	
185	143	7.56	4830	2.1	
130	199	10.80	3990	0.85	JRTS57DS100M4*
152	171	9.23	3970	1.00	JRTSF57DS100M4*
162	160	8.64	3960	1.05	JRTSA57DS100M4*
192	136	7.28	3900	1.10	JRTSAF57DS100M4*
4.0kW					
					JRTS97R57DS112M4*
6.5	4780	219	22700	0.90	JRTSF97R57DS112M4*
6.9	4490	205	27300	0.95	JRTSA97R57DS112M4*
					JRTSAF97R57DS112M4*
6.1	4650	231.67	28300	0.85	
7.2	3990	196.52	33200	1.00	
7.8	3700	180.95	33800	1.05	
8.8	3330	161.74	34400	1.15	
9.8	3020	145.60	34900	1.25	
11	2750	131.85	35300	1.35	JRTS97DS112M4*
12	2460	116.92	35700	1.45	JRTSF97DS112M4*
13	2230	105.71	35900	1.55	JRTSA97DS112M4*
16	1910	89.60	36300	1.70	JRTSAF97DS112M4*
18	1940	80.85	36200	1.65	
20	1720	71.43	36400	1.90	
23	1470	60.59	36600	2.2	
25	1350	55.79	36700	2.4	
12	2510	123.48	27500	0.80	
13	2260	110.40	28000	0.90	
14	2040	99.26	28400	0.95	
16	1790	86.15	28800	1.05	
18	1610	77.14	29000	1.15	JRTS87DS112M4*
20	1660	70.43	28900	0.95	JRTSF87DS112M4*
22	1520	64.27	29100	1.05	JRTSA87DS112M4*
25	1350	57.00	29300	1.20	JRTSAF87DS112M4*
30	1150	47.91	29500	1.40	
32	1060	44.03	29600	1.50	
36	940	39.10	29700	1.70	





输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_b	型 号 Model
4.0kW					
41	840	34.96	29800	1.90	JRTS87DS112M4*
45	760	31.43	29100	2.1	JRTSF87DS112M4*
52	665	27.28	28200	2.4	JRTSA87DS112M4*
56	635	25.50	26600	1.95	JRTSAF87DS112M4*
25	1160	56.92	10800	0.85	JRTS77DS112M4*
26	1250	53.87	9250	0.90	JRTSF77DS112M4*
29	1150	49.38	9320	0.95	JRTSA77DS112M4*
33	1020	43.33	9370	1.10	JRTSAF77DS112M4*
35	960	41.07	9370	1.15	
40	850	35.94	9340	1.30	
44	765	32.38	9290	1.40	
50	675	28.41	9190	1.55	
57	600	25.07	9070	1.70	
62	565	22.89	7650	1.25	JRTS77DS112M4*
68	520	20.99	7650	1.35	JRTSF77DS112M4*
77	455	18.42	7620	1.55	JRTSA77DS112M4*
81	435	17.45	7590	1.65	JRTSAF77DS112M4*
93	380	15.28	7510	1.85	
103	345	13.76	7430	2.1	
118	300	12.07	7310	2.4	
133	265	10.65	7170	2.7	
150	235	9.44	7030	3.1	
176	205	8.06	6830	3.3	
82	420	17.28	3810	0.80	
91	380	15.60	4180	0.90	
103	335	13.73	4500	1.00	JRTS67DS112M4*
110	320	12.96	4520	1.05	JRTSF67DS112M4*
129	270	11.03	4530	1.25	JRTSA67DS112M4*
142	245	10.03	4520	1.35	JRTSAF67DS112M4*
163	215	8.69	4490	1.55	
188	188	7.56	4430	1.55	
5.5kW					
8.8	4550	161.74	29900	0.85	
9.8	4130	145.60	32900	0.90	
11	3760	131.85	33700	0.95	
12	3360	116.92	34400	1.05	
14	3050	105.71	34900	1.15	
16	2610	89.60	35500	1.25	JRTS97DS132S4*
18	2290	78.26	35900	1.35	JRTSF97DS132S4*
20	2350	71.43	35800	1.40	JRTSA97DS132S4*
22	1930	65.45	36200	1.50	JRTSAF97DS132S4*
24	2000	60.59	36200	1.65	
26	1850	55.79	36300	1.80	
29	1660	49.87	36500	2.0	
32	1500	44.89	36600	2.2	
35	1360	40.65	36700	2.4	
19	2200	77.14	28100	0.85	JRTS87DS132S4*
22	1850	64.00	28700	0.90	JRTSF87DS132S4*
25	1850	57.00	28700	0.85	JRTSA87DS132S4*
30	1560	47.91	29100	1.00	JRTSAF87DS132S4*

输出转速 Output speed n_a [r/min]	输出转矩 Output torque T_a [N·m]	传动比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_b	型 号 Model
5.5kW					
32	1440	44.03	29200	1.10	
37	1280	39.10	29200	1.25	
41	1150	34.96	28600	1.40	
45	1040	31.43	28000	1.55	
52	910	27.28	27200	1.75	JRTS87DS132S4*
56	870	25.50	25200	1.45	JRTSF87DS132S4*
67	730	21.43	24500	1.70	JRTSA87DS132S4*
73	675	19.70	24100	1.85	JRTSAF87DS132S4*
82	600	17.49	23500	2.1	
91	535	15.64	23000	2.3	
102	485	14.06	22500	2.6	
117	420	12.21	21800	3.0	
131	375	10.93	21200	3.3	
35	1320	41.07	7560	0.85	JRTS77DS132S4*
40	1160	35.94	7750	0.95	JRTSF77DS132S4*
44	1050	32.38	7850	1.05	JRTSA77DS132S4*
					JRTSAF77DS132S4*
50	920	28.41	7920	1.15	
57	820	25.07	7940	1.25	
64	725	22.22	7920	1.35	
78	625	18.42	5920	1.15	JRTS77DS132S4*
82	590	17.45	6170	1.20	JRTSF77DS132S4*
94	520	15.28	6490	1.35	JRTSA77DS132S4*
104	470	13.76	6510	1.50	JRTSAF77DS132S4*
118	410	12.07	6500	1.75	
134	365	10.65	6450	2.0	
151	325	9.44	6390	2.2	
177	275	8.06	6280	2.5	
130	370	11.03	2930	0.90	JRTS67DS132S4*
143	340	10.03	3260	1.00	JRTSF67DS132S4*
165	295	8.69	3670	1.15	JRTSA67DS132S4*
189	255	7.56	3850	1.15	JRTSAF67DS132S4*
7.5kW					
14	4160	105.71	32900	0.85	
16	3560	89.60	34100	0.90	
18	3130	78.26	34800	1.00	
20	3200	71.43	34600	1.05	
22	2630	65.45	35500	1.10	
24	2730	60.59	35300	1.20	
26	2520	55.79	35600	1.30	JRTS97DS132M4*
29	2260	49.87	35900	1.45	JRTSF97DS132M4*
32	2040	44.89	36100	1.60	JRTSA97DS132M4*
35	1850	40.89	36300	1.80	JRTSAF97DS132M4*
40	1650	36.05	36200	2.0	
44	1490	32.60	35500	2.2	
54	1240	26.39	32000	2.1	
61	1110	23.59	31400	2.3	
67	1000	21.23	30700	2.6	
74	910	19.23	30100	2.9	



输出 转速 Output speed n_a [r/min]	输出 转矩 Output torque T_a [N·m]	传动 比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_b	型 号 Model
7.5kW					
32	1970	44.03	27800	0.80	JRTS87DS132M4*
37	1750	39.10	27400	0.90	JRTSF87DS132M4*
41	1570	34.96	27000	1.00	JRTSA87DS132M4* JRTSAF87DS132M4*
45	1420	31.43	26500	1.15	
52	1230	27.28	25900	1.30	
56	1180	25.50	23500	1.05	
67	1000	21.43	23000	1.25	
73	920	19.70	22700	1.35	JRTS87DS132M4*
82	820	17.49	22300	1.50	JRTSF87DS132M4*
91	730	15.64	21900	1.70	JRTSA87DS132M4*
102	660	14.06	21500	1.90	JRTSAF87DS132M4*
117	575	12.21	20900	2.2	
131	515	10.93	20500	2.4	
158	430	9.07	19700	2.7	
181	375	7.88	19100	2.7	
50	1260	28.41	6240	0.85	JRTS77DS132M4*
57	1110	25.07	6450	0.90	JRTSF77DS132M4*
64	990	22.22	6600	1.00	JRTSA77DS132M4*
78	850	18.42	1860	0.85	JRTSAF77DS132M4*
82	810	17.45	2290	0.90	
94	705	15.28	3250	1.00	JRTS77DS132M4*
104	640	13.76	3890	1.10	JRTSF77DS132M4*
118	560	12.07	4570	1.30	JRTSA77DS132M4*
134	495	10.65	5110	1.45	JRTSAF77DS132M4*
151	440	9.44	5540	1.65	
177	380	8.06	5560	1.80	
9.2kW					
18	3810	78.26	33600	0.80	JRTS97DS160S4*
22	3210	65.45	34600	0.90	JRTSF97DS160S4*
26	3070	55.79	34800	1.05	JRTSA97DS160S4* JRTSAF97DS160S4*
29	2750	49.87	35300	1.20	
32	2480	44.89	35600	1.35	
35	2260	40.65	35700	1.45	
40	2010	36.05	35000	1.65	
44	1820	32.60	34400	1.75	
55	1510	26.39	30700	1.70	JRTS97DS160S4*
61	1350	23.59	30200	1.90	JRTSF97DS160S4*
68	1220	21.23	29700	2.1	JRTSA97DS160S4*
75	1110	19.23	29200	2.3	JRTSAF97DS160S4*
84	980	17.05	28500	2.6	
93	890	15.42	28000	2.8	
110	755	13.07	27000	3.1	
126	660	11.41	26200	3.3	
41	1910	34.96	25600	0.85	JRTS87DS160S4*
46	1730	31.43	25300	0.95	JRTSF87DS160S4*
53	1500	27.28	24800	1.05	JRTSA87DS160S4*
59	1350	24.43	24400	1.20	JRTSAF87DS160S4*

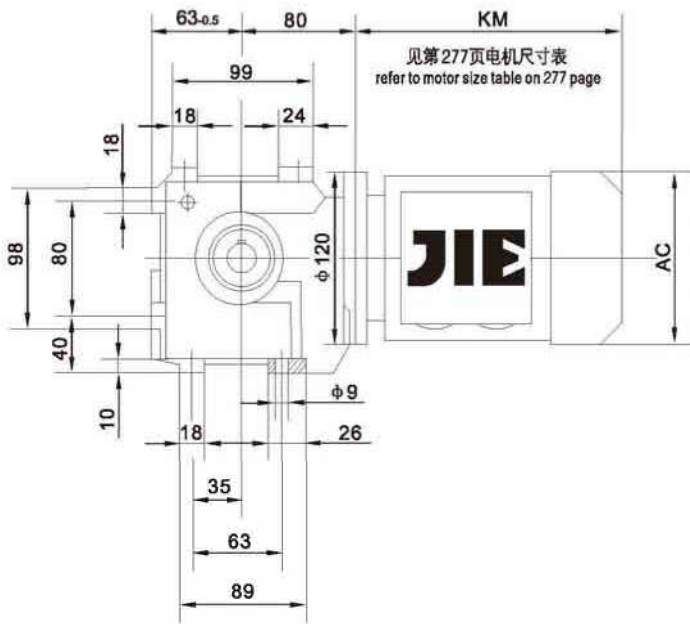
输出 转速 Output speed n_a [r/min]	输出 转矩 Output torque T_a [N·m]	传动 比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Ra}^{(1)}$ [N]	使用 系数 Service factor f_b	型 号 Model
9.2kW					
71	1120	20.27	23700	1.40	
73	1120	19.70	21600	1.10	
82	1000	17.49	21300	1.25	
92	890	15.64	21000	1.40	JRTS87DS160S4*
102	800	14.06	20700	1.55	JRTSF87DS160S4*
118	700	12.21	20200	1.75	JRTSA87DS160S4*
132	625	10.93	19800	2.0	JRTSAF87DS160S4*
159	520	9.07	19100	2.2	
183	455	7.88	18600	2.2	
76	1040	18.97	5760	0.90	
105	780	13.76	1350	0.90	JRTS77DS160S4*
119	685	12.07	2290	1.05	JRTSF77DS160S4*
135	605	10.65	3060	1.20	JRTSA77DS160S4*
152	535	9.44	3690	1.35	JRTSAF77DS160S4*
179	460	8.06	4360	1.50	
11.0kW					
26	3670	55.79	33800	0.90	
29	3290	49.87	34500	1.00	
32	2970	44.89	34800	1.10	
35	2700	40.65	34400	1.20	
40	2400	36.05	33800	1.40	
44	2170	32.60	33300	1.45	JRTS97DS160M4*
55	1810	26.39	29400	1.45	JRTSF97DS160M4*
61	1620	23.59	29000	1.60	JRTSA97DS160M4*
68	1460	21.23	28600	1.80	JRTSAF97DS160M4*
75	1320	19.23	28200	1.95	
84	1180	17.05	27600	2.2	
93	1070	15.42	27200	2.3	
110	900	13.07	26400	2.6	
126	790	11.41	25700	2.8	
53	1800	27.28	23700	0.90	
59	1610	24.43	23400	1.00	
71	1340	20.27	22800	1.20	
73	1340	19.70	20400	0.95	JRTS87DS160M4*
82	1190	17.49	20200	1.05	JRTSF87DS160M4*
92	1070	15.64	20000	1.15	JRTSA87DS160M4*
102	960	14.06	19800	1.30	JRTSAF87DS160M4*
118	840	12.21	19400	1.50	
132	750	10.93	19100	1.65	
159	625	9.07	18600	1.85	
183	545	7.88	18100	1.85	
15.0kW					
33	4000	44.89	31400	0.85	JRTS97DS180S4*
36	3630	40.65	31300	0.90	JRTSF97DS180S4*
41	3230	36.05	31000	1.00	JRTSA97DS180S4* JRTSAF97DS180S4*
45	2920	32.60	30800	1.10	JRTS97DS180S4*
55	2430	26.39	26400	1.05	JRTSF97DS180S4*
62	2180	23.59	26300	1.20	JRTSA97DS180S4*
69	1970	21.23	26200	1.30	JRTSAF97DS180S4*
76	1780	19.23	26000	1.45	



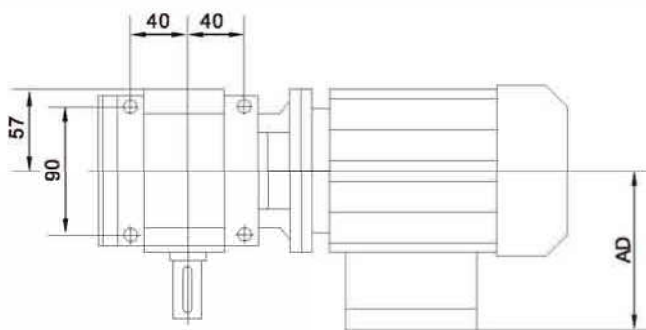
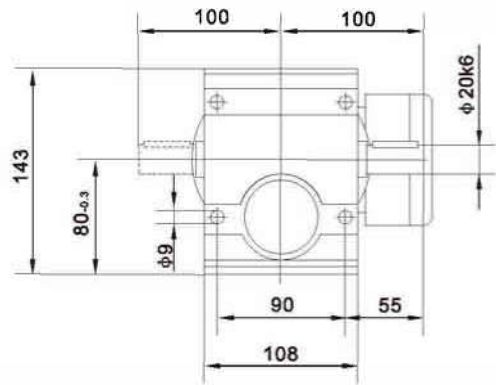
输出 转速 Output speed n_n [r/min]	输出 转矩 Output torque T_n [N · m]	传动 比 Ratio i	出轴许用 径向负载 Permitted overhung load $F_{Rn}^{(1)}$ [N]	使用 系数 Service factor f_n	型 号 Model
15.0kW					
86	1580	17.05	25700	1.60	
95	1430	15.42	25400	1.70	JRTS97DS180S4*
112	1220	13.07	24800	1.90	JRTSF97DS180S4*
128	1060	11.41	24300	2.1	JRTSA97DS180S4*
153	890	9.55	23600	2.3	JRTSAF97DS180S4*
177	775	8.26	22900	2.3	
93	1430	15.64	17900	0.85	JRTS87DS180S4*
104	1290	14.06	17900	0.95	JRTSF87DS180S4*
120	1120	12.21	17800	1.10	JRTSA87DS180S4* JRTSAF87DS180S4*
134	1010	10.93	17600	1.25	JRTS87DS180S4*
161	840	9.07	17300	1.35	JRTSF87DS180S4*
185	730	7.88	17000	1.40	JRTSA87DS180S4* JRTSAF87DS180S4*
18.5kW					
41	3970	36.05	28700	0.85	
45	3590	32.60	28600	0.90	
53	3060	27.63	28400	1.00	
61	2680	24.13	28100	1.05	
69	2420	21.23	24100	1.10	JRTS97DS180M4*
76	2190	19.23	24100	1.20	JRTSF97DS180M4*
86	1950	17.05	24000	1.30	JRTSA97DS180M4*
95	1760	15.42	23900	1.40	JRTSAF97DS180M4*
112	1500	13.07	23500	1.55	
128	1310	11.41	23200	1.70	
153	1100	9.55	22600	1.85	
177	950	8.26	22100	1.85	
22kW					
53	3630	27.63	26600	0.85	JRTS97DS180L4*
61	3180	24.13	26500	0.90	JRTSF97DS180L4*
69	2870	21.23	19800	0.90	JRTSA97DS180L4*
76	2600	19.23	21800	1.00	JRTSAF97DS180L4*
86	2310	17.05	22300	1.10	
95	2090	15.42	22400	1.20	JRTS97DS180L4*
112	1780	13.07	22300	1.30	JRTSF97DS180L4*
128	1560	11.41	22100	1.40	JRTSA97DS180L4*
153	1300	9.55	21700	1.55	JRTSAF97DS180L4*
177	1130	8.26	21300	1.55	



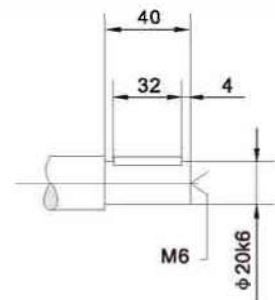
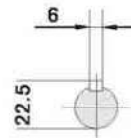
JRTS37..



见第277页电机尺寸表
refer to motor size table on 277 page

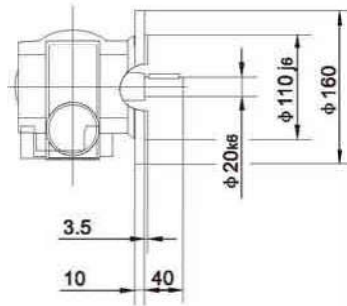
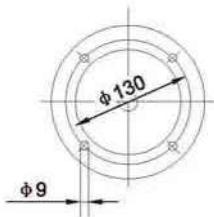
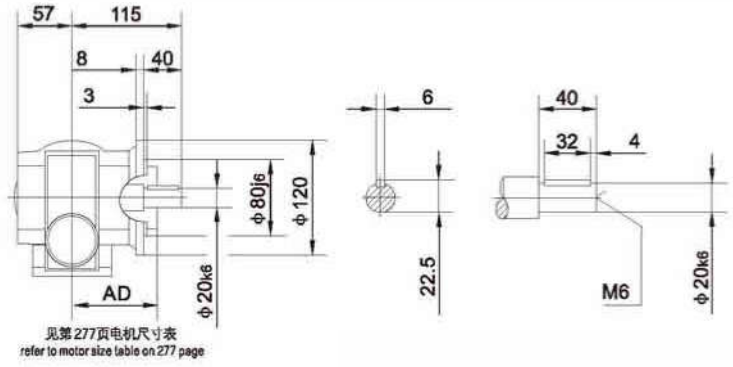
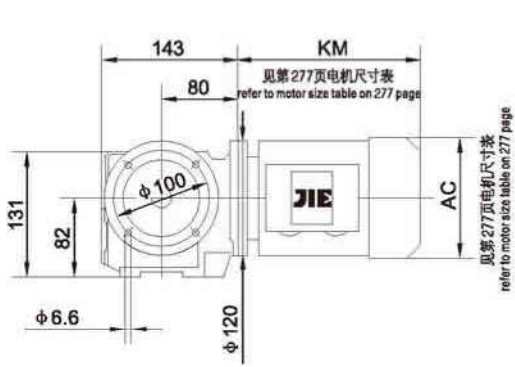


见第277页电机尺寸表
refer to motor size table on 277 page

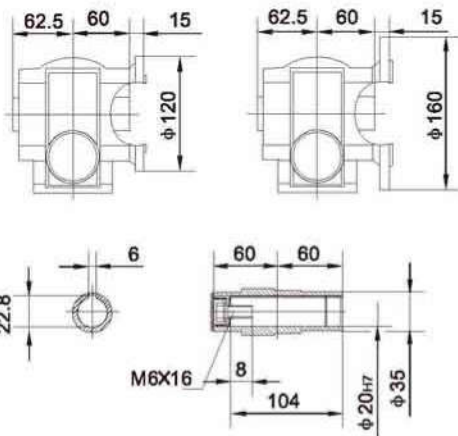


JRTS
系列斜齿轮—蜗轮蜗杆减速电机
Series Helical-Worm Gearmotors

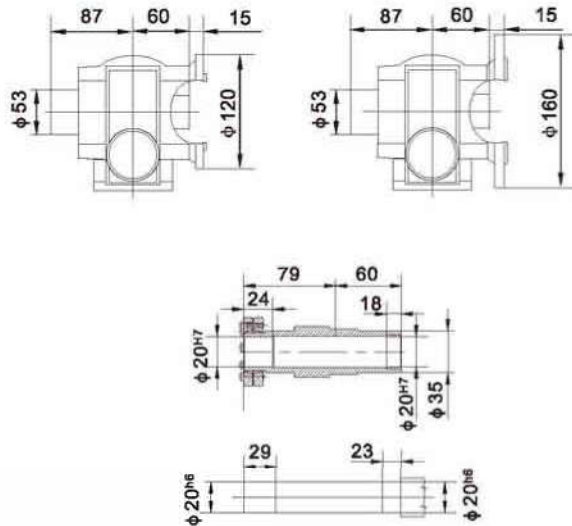
JRTSF37..



JRTSAF37..

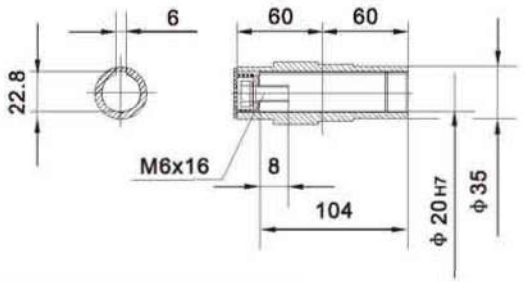
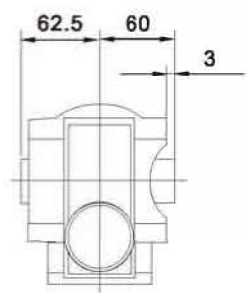
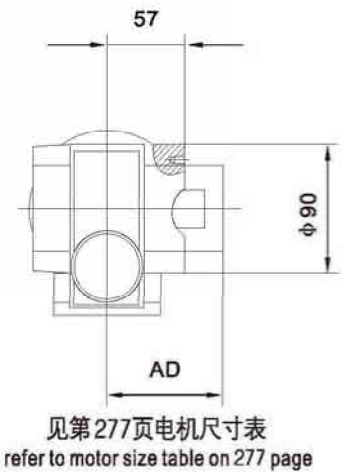
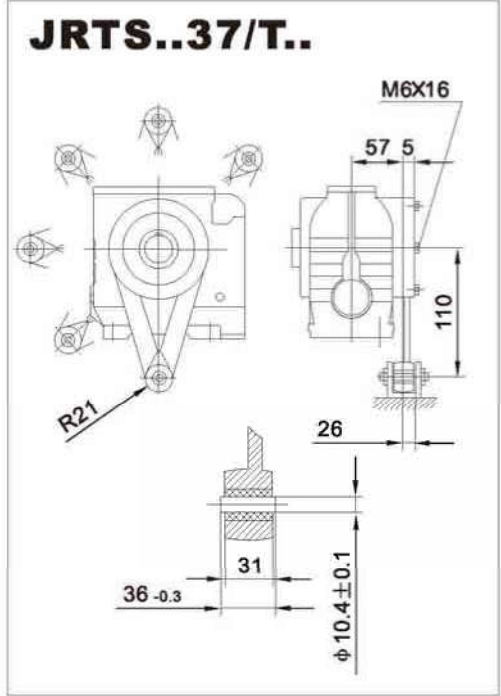
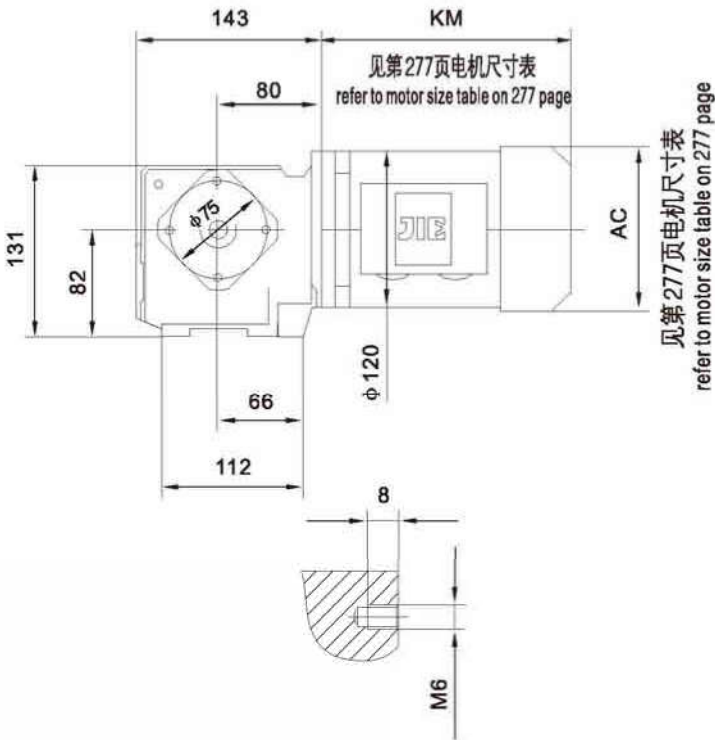


JRTSHF37..



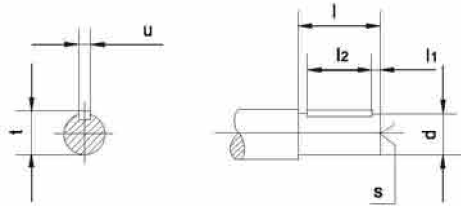
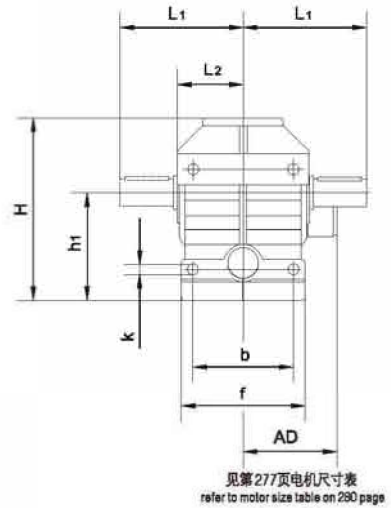
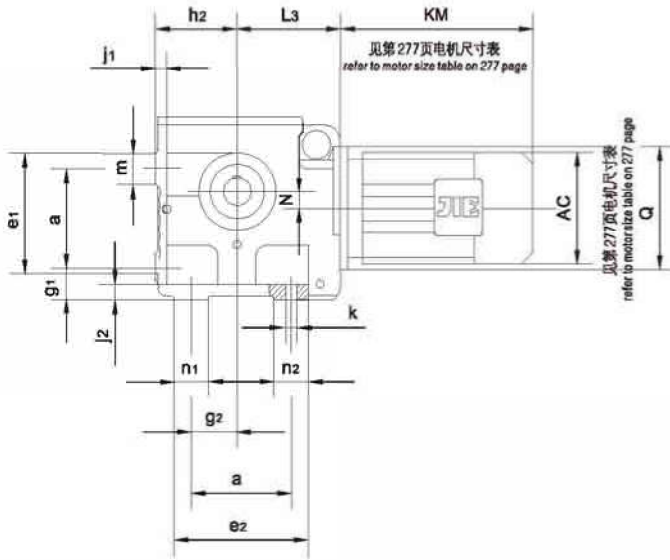


JRTSA37..



JRTS 系列斜齿轮-蜗轮蜗杆减速电机
Series Helical-Worm Gearmotors

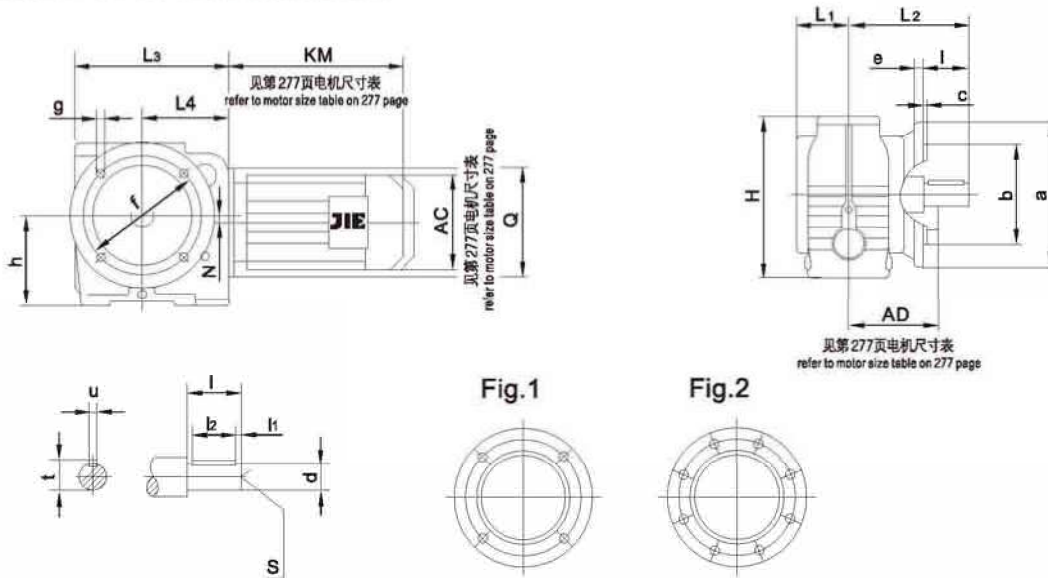
JRTS47..~JRTS97..



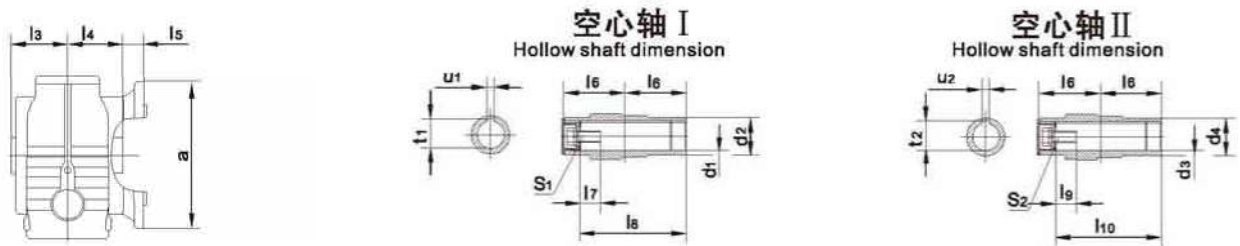
型号 Model	a b	e ₁ e ₂ f	g ₁ g ₂	h ₁ h ₂	j ₁ j ₂ k	m n ₁ n ₂	轴伸尺寸				L ₁ L ₂ L ₃	H	N Q
							d l	l ₁ l ₂	s	t u			
JRTS47..	80	105	35	100 ^{-0.5}	12	25	25k6	5	M10	28	115	8	
	100	120	35	75 ^{-0.5}	11	30	50	40		8	96		120
JRTS57..	100	130	35	112 ^{-0.5}	12	30	30k6	3.5	M10	33	134	20	
	110	136	45	80 ^{-0.5}	11	30	60	50		8	107		120
JRTS67..	130	170	40	140 ^{-0.5}	15	40	35k6	7	M12	38	160	22	
	130	160	60	106 ^{-0.5}	13.5	45	70	56		10	135		160
JRTS77..	135	177	70	180 ^{-0.5}	25	42	45k6	5	M16	48.5	195	34	
	150	185	75	125 ^{-0.5}	17.5	69	90	80		14	162		200
JRTS87..	180	230	82	225 ^{-0.5}	30	50	60m6	5	M20	64	255	37.5	
	200	250	92	150 ^{-0.5}	22	67	120	110		18	190		250
JRTS97..	235	295	90	280 ⁻¹	35	60	70m6	7.5	M20	74.5	295	52	
	250	300	115	180 ^{-0.5}	26	85	140	125		20	240		300



JRTSF47..~JRTSF97..



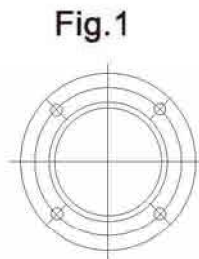
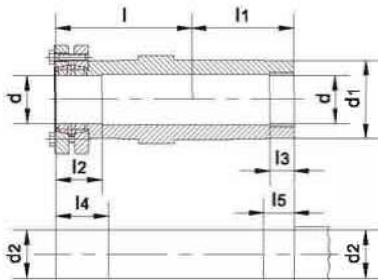
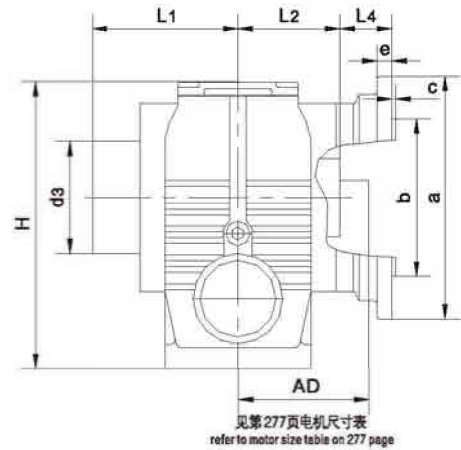
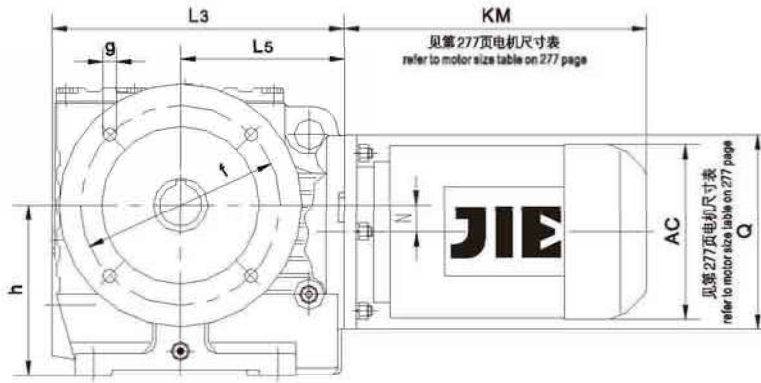
JRTSAF47..~JRTSAF97..



型号 Model	法兰型式 flange form	a b	c e	f g h	轴伸尺寸 Shaft dimension			空心轴 I 尺寸 Hollow shaft dimension				空心轴 II 尺寸 Hollow shaft dimension			H N Q	L ₁ L ₂	L ₃ L ₄
					d l	l ₁ l ₂	s t u	d ₁ d ₂	l ₃ l ₄ l ₅	l ₆ l ₇ l ₈	s ₁ t ₁ u ₁	d ₃ d ₄	l ₉ l ₁₀	s ₂ t ₂ u ₂			
JRTSF47.. JRTSAF47..	Fig.1	160 110j6	3.5 10	130 9 100	25k6 50	5 40	M10 28 8	30H7 45	63 60 24	60 17 105	M10 × 25 33.3 8	25H7 45	17 105	M10 × 25 28.3 8	179 8 120	57.5 133.5	171 96
JRTSF57.. JRTSAF57..	Fig.1	200 130j6	3.5 12	165 11 112	30k6 60	3.5 50	M10 33 8	35H7 50	78 75 25	75 22 132	M12 × 30 38.3 10	30H7 50	17 132	M10 × 25 33.3 8	189 20 120	72 160	187 107
JRTSF67.. JRTSAF67..	Fig.1	200 130j6	3.5 12	165 11 140	35k6 70	7 56	M12 38 10	45H7 65	87 84 42.5	84 29 144	M16 × 40 48.8 14	40H7 65	29 144	M16 × 40 43.3 12	236 22 160	80.5 190	242 135
JRTSF77.. JRTSAF77..	Fig.1	250 180j6	4 15	215 13.5 180	45k6 90	5 80	M16 48.5 14	60H7 80	108 105 45.5	105 37 180	M20 × 50 64.4 18	50H7 80	32 183	M16 × 45 53.8 14	301 34 200	121 232	287 162
JRTSF87.. JRTSAF87..	Fig.1	350 250h6	5 18	300 17.5 225	60m6 120	5 110	M20 64 18	70H7 95	128 125 52.5	125 34 220	M20 × 50 74.9 20	60H7 95	36 220	M20 × 50 64.4 18	368 37.5 250	145 290	340 190
JRTSF97.. JRTSAF97..	Fig.2	450 350h6	5 22	400 17.5 280	70m6 140	7.5 125	M20 74.5 20	90H7 120	149 145 60	145 41 255	M24 × 60 95.4 25	70H7 120	34 260	M20 × 50 74.9 20	455 52 300	165 340	420 240



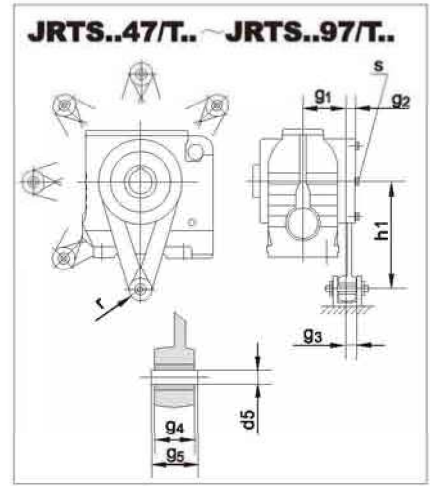
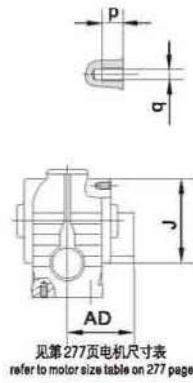
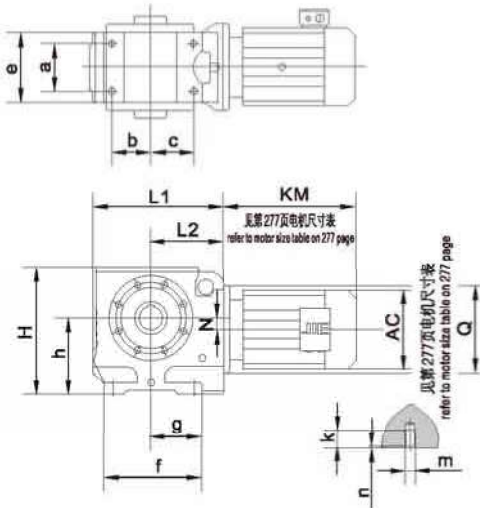
JRTSHF47..~JRTSHF97..



型号 Model	法兰式 flange form	a b	c e	f g h	l l1	l2 l3	l4 l5	d d1	d2 d3	H N Q	L ₁ L ₂	L ₃ L ₄	L ₅
JRTSHF47..	Fig.1	160 110q6	3.5 10	130 9 100	86 60	31 20	36 25	30H7 45	30h6 75	179 8 120	57.5 60	171 24	96
JRTSHF57..	Fig.1	200 130q6	3.5 12	165 11 112	102 75	32 20	37 25	35H7 50	35h6 83	189 20 120	72 75	187 25	107
JRTSHF67..	Fig.1	200 130q6	3.5 12	165 11 140	112 84	38 20	43 25	40H7 65	40h6 93	236 22 160	80.5 84	242 42.5	135
JRTSHF77..	Fig.1	250 180q6	4 15	215 13.5 180	136 105	36 30	41 35	50H7 80	50h6 114	301 34 200	121 105	287 45.5	162
JRTSHF87..	Fig.1	350 250h6	5 18	300 17.5 225	165 125	40 40	45 45	65H7 95	65h6 157	368 37.5 250	145 125	340 52.5	190
JRTSHF97..	Fig.2	450 350h6	5 22	400 17.5 145	190 145	55 50	60 55	75H7 120	75h6 174	455 52 300	165 145	420 60	240



JRTSA47..~JRTSA97..



JRTSA47..

JRTSA57..

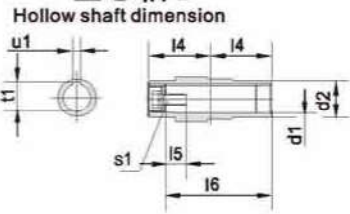
JRTSA67..

JRTSA77..

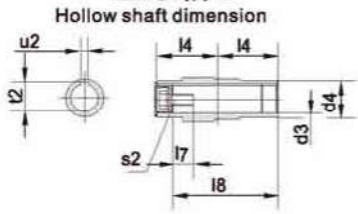
JRTSA87..

JRTSA97..

空心轴 I



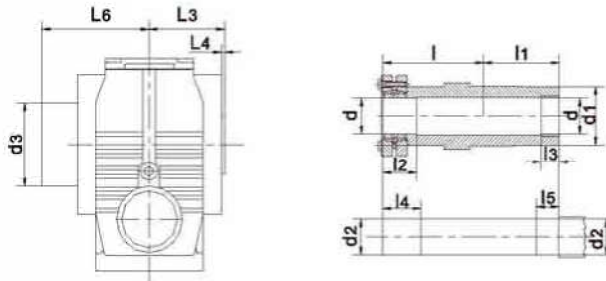
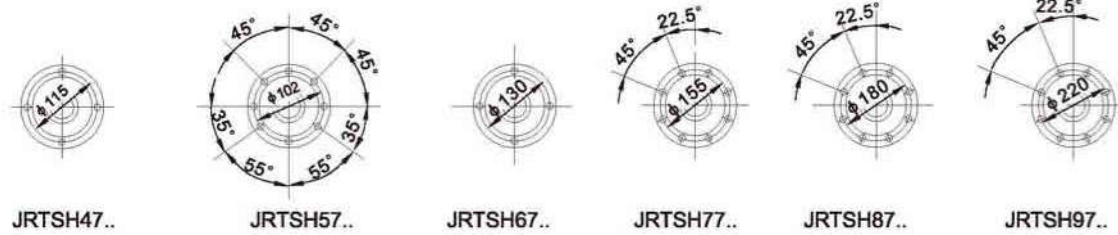
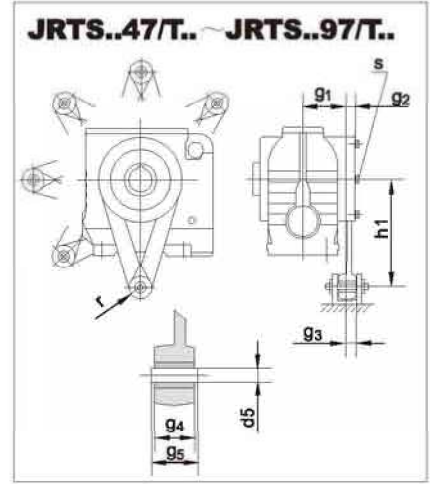
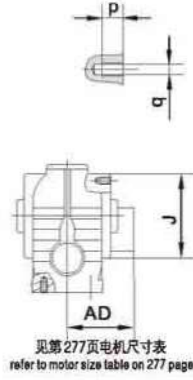
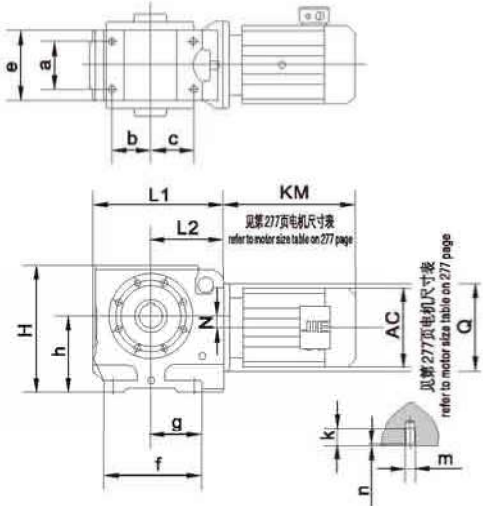
空心轴 II



型号 Model	a b c	e f g	h	k m n	p q	空心轴 I 尺寸 Hollow shaft dimension			空心轴 II 尺寸 Hollow shaft dimension			扭矩臂尺寸 Torque arm form			H L ₁ L ₂	N Q J		
						d ₁	l ₁	l ₄	s ₁	d ₃	l ₇	s ₂	g ₁	g ₄			d ₅	
						d ₂	l ₂	l ₅	t ₁	d ₄	l ₈	t ₂	g ₂	g ₅			r	
JRTSA47.. JRTS..47/T..	60	94	100	20	12	30 ^{H7}	63	60	M10 × 25	25 ^{H7}	17	M10 × 25	57.5	31	10.4 ± 0.1	179	8	
	35	127		M10	4	M8	45	2.5	105	8	45	105	28.3	5	36 _{0.3}	21	171	120
	52	67		4	M8	45	2.5	105	8	45	105	28.3	5	36 _{0.3}	M8 × 25	96	130	
JRTSA57.. JRTS..57/T..	60	100	112	20	12	35 ^{H7}	78	75	M12 × 30	30 ^{H7}	17	M10 × 25	72	31	10.4 ± 0.1	189	20	
	58.5	146		M10	4	M8	50	3	132	10	50	132	33.3	5	36 _{0.3}	21	187	120
	58.5	73		4	M8	50	3	132	10	50	132	33.3	5	36 _{0.3}	M8 × 25	107	120	
JRTSA67.. JRTS..67/T..	88	128	140	25	20	45 ^{H7}	87	84	M16 × 40	40 ^{H7}	29	M16 × 40	80.5	31	10.4 ± 0.1	236	22	
	71.5	182		M12	5	M12	65	3.5	144	14	65	144	43.3	10	36 _{0.3}	21	242	160
	80.5	95.5		5	M12	65	3.5	144	14	65	144	43.3	10	36 _{0.3}	M12 × 35	135	155	
JRTSA77.. JRTS..77/T..	102	154	180	32	20	60 ^{H7}	108	105	M20 × 50	50 ^{H7}	32	M16 × 45	101	54	16.4 ± 0.08	301	34	
	85	204		M16	6	M12	80	4	180	18	80	183	53.8	10	60 _{0.3}	30	287	200
	85	104		6	M12	80	4	180	18	80	183	53.8	10	60 _{0.3}	M12 × 35	162	178	
JRTSA87.. JRTS..87/T..	118	194	225	32	26	70 ^{H7}	128	125	M20 × 50	60 ^{H7}	36	M20 × 50	120	54	16.4 ± 0.08	368	37.5	
	115	260		M16	6	M16	95	5	220	20	95	220	64.4	10	60 _{0.5}	30	340	250
	110	125		6	M16	95	5	220	20	95	220	64.4	10	60 _{0.5}	M16 × 45	190	215	
JRTSA97.. JRTS..97/T..	160	236	280	36	26	90 ^{H7}	149	145	M24 × 60	70 ^{H7}	34	M20 × 50	140	72	25 ± 0.08	455	52	
	135	301		M20	6	M16	120	5	255	25	120	260	74.9	10	80 _{0.5}	40	420	300
	113	140		6	M16	120	5	255	25	120	260	74.9	10	80 _{0.5}	M16 × 50	240	260	

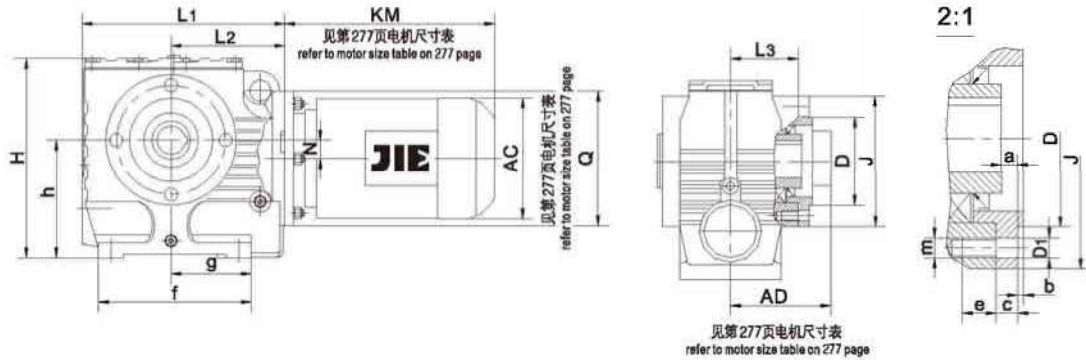
JRTS 系列斜齿轮-蜗杆蜗轮蜗杆减速电机
Series Helical-Worm Gearmotors

JRTSH47..~JRTSH97..



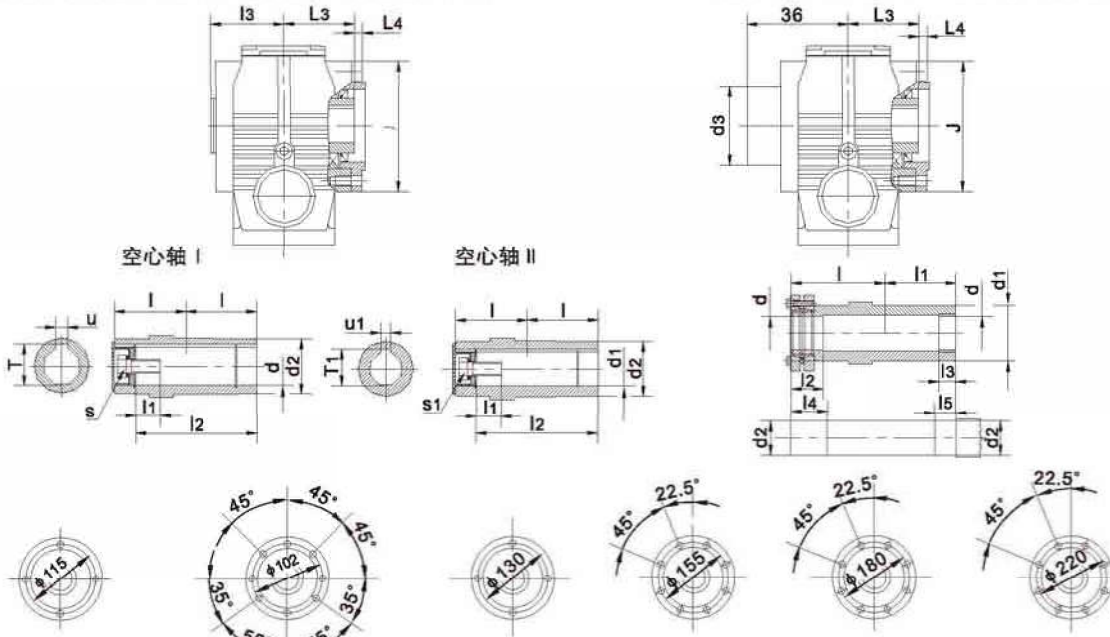
JRTS 系列斜齿轮-蜗轮蜗杆减速机
Series Helical-Worm Gearmotors

型号 Model	a b c	e f g	h	k m n	p q	空心轴 II 尺寸 Hollow shaft dimension						扭矩臂尺寸 Torque arm form			H L ₁ L ₂	L ₃ L ₄	N Q J			
						L	L ₂	L ₄	L ₆	d ₁	d ₃	g ₁	g ₄	d ₅				r	L ₁	L ₃
JRTSH47.. JRTS..47/T..	60 35 52	94 127 67	100	20 M10 4	12 M8	86 60	31 20	36 25	95 30H7	45 30h6	75	57.5 5 20.5	31 36 _{-0.3} 130	10.4 ± 0.1 21 M8 × 25	179 171 96	60 2.5	8 120 130			
JRTSH57.. JRTS..57/T..	60 58.5 58.5	100 146 73	112	20 M10 4	12 M8	102 75	32 20	37 25	110 35H7	50 35h6	83	72 5 18.5	31 36 _{-0.3} 160	10.4 ± 0.1 21 M8 × 25	189 187 107	75 2.5	20 120 120			
JRTSH67.. JRTS..67/T..	88 71.5 80.5	128 182 95.5	140	25 M12 5	20 M12	112 84	38 20	43 25	120 40H7	65 40h6	93	80.5 10 19.5	31 36 _{-0.3} 200	10.4 ± 0.1 21 M12 × 35	236 242 135	84 3.5	22 160 155			
JRTSH77.. JRTS..77/T..	102 85 85	154 204 104	180	32 M16 6	20 M12	136 105	36 30	41 35	146 50H7	80 50h6	114	101 10 32.5	54 60 _{-0.3} 250	16.4 ± 0.08 30 M12 × 35	301 287 162	105 4	34 200 178			
JRTSH87.. JRTS..87/T..	118 115 110	194 260 125	225	32 M16 6	26 M16	165 125	40 40	45 45	176 65H7	95 65h6	157	120 10 25.5	54 60 _{-0.5} 310	16.4 ± 0.08 30 M16 × 45	368 340 190	125 5	375 250 215			
JRTSH97.. JRTS..97/T..	160 135 113	236 301 140	280	36 M20 6	26 M16	190 145	55 50	60 55	204 75H7	120 75h6	174	140 10 33	72 80 _{-0.5} 380	25 ± 0.08 40 M16 × 50	455 420 240	146 5	52 300 260			



JRTSAZ47..~JRTSAZ97..

JRTSHZ47..~JRTSHZ97..



JRTS..Z47..

JRTS..Z57..

JRTS..Z67..

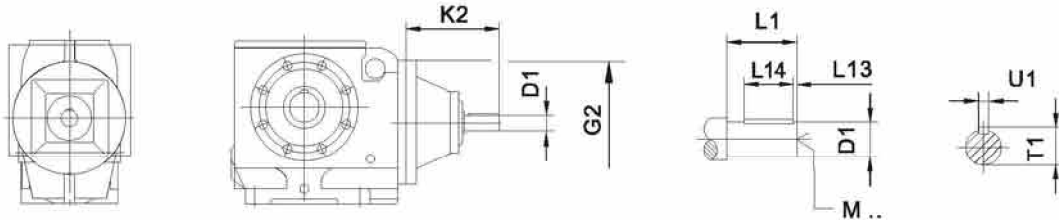
JRTS..Z77..

JRTS..Z87..

JRTS..Z97..

型号 Model	a b c	e f g	h m	D D1	l	l1	l2	l3	l4	l5	l6	d	d1	d2	d3	u	u1	T	T1	S	S1	H L1 L2	L3 L4	N Q J
JRTSAZ47	8.5 3	12 127	100	95j6	60	17	105	63	-	-	-	30H7	25H7	45	-	8	8	33.3	28.3	M10 × 25	M10 × 25	179 171	60	8 120
JRTSHZ47	11	67	M8	9	86	60	31	20	36	25	95	30H7	45	30h6	75	-	-	-	-	-	-	96	8.5	130
JRTSAZ57	8 3	12 146	112	80j6	75	22	132	78	-	-	-	35H7	30H7	50	-	10	8	38.3	33.3	M12 × 30	M10 × 25	189 187	75	20 120
JRTSHZ57	11	73	M8	9	102	75	32	20	37	25	110	35H7	50	35h6	83	-	-	-	-	-	-	107	8	120
JRTSAZ67	9.5 3.5	20 182	140	105j6	84	29	144	87	-	-	-	45H7	40H7	65	-	14	12	48.8	43.3	M16 × 40	M16 × 40	236 242	84	22 160
JRTSHZ67	13	95.5	M12	13.5	112	84	38	20	43	25	120	40H7	65	40h6	93	-	-	-	-	-	-	135	9.5	155
JRTSAZ77	14.5 4	18.5 204	180	125j6	105	37	180	108	-	-	-	60H7	50H7	80	-	18	14	64.4	53.8	M20 × 50	M16 × 45	301 287	105	34 200
JRTSHZ77	14	104	M12	13.5	136	105	36	30	41	35	146	50H7	80	50h6	114	-	-	-	-	-	-	162	14.5	178
JRTSAZ87	18.5 5	23.5 260	225	150j6	125	36	220	128	-	-	-	70H7	60H7	95	-	20	18	74.9	64.4	M20 × 50	M20 × 50	368 340	125	375 250
JRTSHZ87	13.5	125	M16	17.5	165	125	40	40	45	45	176	65H7	95	65h6	157	-	-	-	-	-	-	190	18.5	215
JRTSAZ97	18.5 5	23.5 301	280	180j6	145	41	255	149	-	-	-	90H7	70H7	120	-	25	20	95.4	74.9	M24 × 60	M20 × 50	455 420	145	52 300
JRTSHZ97	13.5	140	M16	17.5	190	145	55	50	60	55	204	75H7	120	75h6	174	-	-	-	-	-	-	240	18.5	260

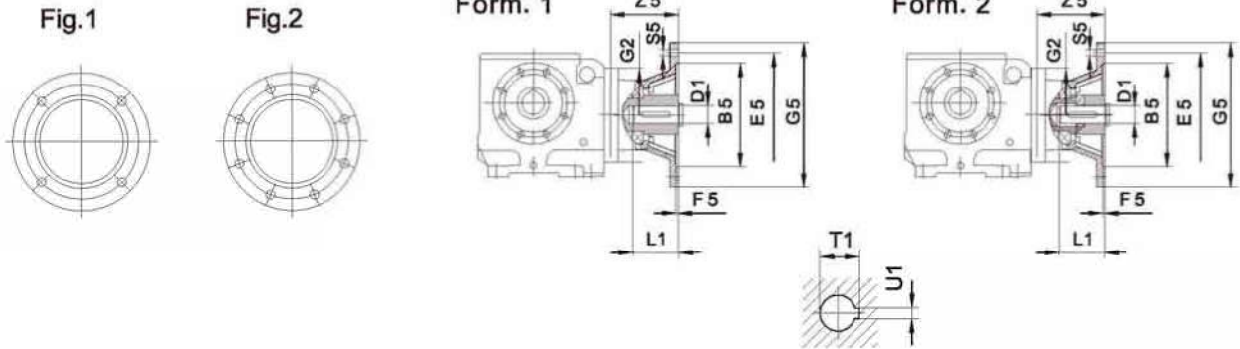
JRTS..AD..



		G2	K2	D1	L1	L13	L14	T1	U1	M
JRTS..37 JRTS..47 JRTS..57	AD1	120	102	16k6	40	4	32	18	5	M5
	AD2		130	19k6	40	4	32	21.5	6	M6
	JRTS..67	AD2	160	123	19k6	40	4	32	21.5	6
AD3		159		24k6	50	5	40	27	8	M8
JRTS..77	AD2	200	116	19k6	40	4	32	21.5	6	M6
	AD3		151	24k6	50	5	40	27	8	M8
	AD4		224	38k6	80	5	70	41	10	M12
JRTS..87	AD2	250	111	19k6	40	4	32	21.5	6	M6
	AD3		156	28k6	60	5	50	31	8	M10
	AD4		219	38k6	80	5	70	41	10	M12
	AD5		292	42k6	110	10	70	45	12	M16
JRTS..97	AD3	300	151	28k6	60	5	50	31	8	M10
	AD4		214	38k6	80	5	70	41	10	M12
	AD5		287	42k6	110	10	70	45	12	M16
	AD6		327	48k6	110	10	80	51.5	14	M16



JRTS..AM..



JRTS..37		Fig	Form	B5	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1			
JRTS..47	AM63	1	1	95G7	115	4.5	120	140	M8	72	11F7	23	12.8	4			
JRTS..57	AM71 ¹⁾			110G7	130			160			14F7	30	16.3	5			
	AM80 ¹⁾			130G7	165			200			M10	118	19F7	40	21.8	6	
	AM90 ¹⁾							24F7				50	27.3	8			
JRTS..67	AM63	1	1	95G7	115	4.5	160	140	M8	66	11F7	23	12.8	4			
	AM71			110G7	130			160			14F7	30	16.3	5			
	AM80			130G7	165			200			M10	113	19F7	40	21.8	6	
	AM90							24F7				50	27.3	8			
		AM100 ¹⁾	2		180G7	215	5	250	M12	144	28H7	60	31.3	8			
		AM112 ¹⁾			230G7	265					300	177	38H7	80	41.3	10	
	AM132																
JRTS..77	AM63 ¹⁾	1	1	95G7	115	4.5	200	140	M8	60	11F7	23	12.8	4			
	AM71			110G7	130			160			14F7	30	16.3	5			
	AM80			130G7	165			200			M10	105	19F7	40	21.8	6	
	AM90							24F7				50	27.3	8			
		AM100 ¹⁾	2		180G7	215	5	250	M12	136	28H7	60	31.3	8			
		AM112 ¹⁾			230G7	265					300	196	38H7	80	41.3	10	
		AM132S ¹⁾			230G7	265					350	M16	236	42H7	110	45.3	12
		AM132M ¹⁾												48H7		51.8	14
	AM132ML ¹⁾																
JRTS..87	AM80	1	1	130G7	165	4.5	250	200	M10	100	19F7	40	21.8	6			
	AM90			180G7	215			250			M12	131	28H7	60	31.3	8	
	AM100												230G7	265	300	M12	191
	AM112			250G7	300			350			M16	236					
		AM132S															
		AM132M															
		AM132ML															
		AM160 ¹⁾															
	AM180 ¹⁾																
JRTS..97	AM100	1	2	180G7	215	5	300	250	M12	126	28H7	60	31.3	8			
	AM112			230G7	265			300			M12	186	38H7	80	41.3	10	
	AM132S												250G7	300	350	M16	231
	AM132M			48H7	51.8			14									
		AM160															
		AM180															
		AM200	1	300G7	350	7	400	M16	268	55F7	110	59.3	16				
		AM225 ¹⁾	2	350G7	400	6	450	M16	303	60H7	140	64.4	18				

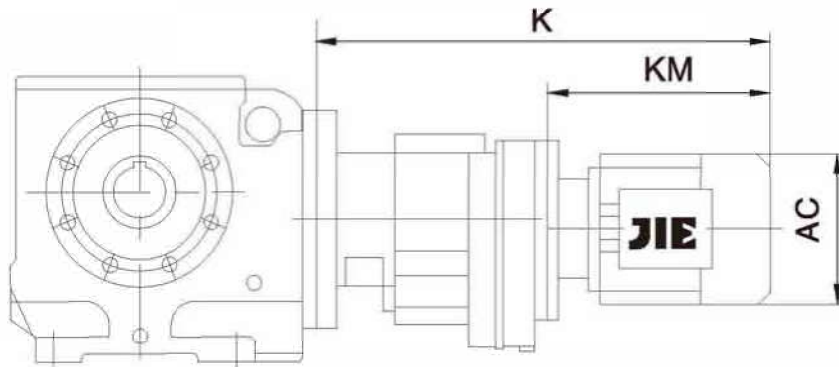
1) 如果安装在 S 系列脚安装方式的减速机上, 请检查尺寸 G5/2, 它可能已突出安装平面。

Dimension G5/2 May protrude past foot mounting surface if mounted on s foot-mounted gear unit, please check.



JRTS
系列斜齿轮-蜗轮蜗杆减速电机
Series Helical-Worm Gearmotors

JRTS..R..



		AC	K	KM
JRTS..37R17	DS63..	120	373	198
	DS71..	135	404	229
	DS80..	156	444	269
JRTS..47R37 JRTS..57R37	DS63..	120	363	198
	DS71..	135	394	229
	DS80..	156	434	269
JRTS..67R37	DS63..	120	363	198
	DS71..	135	394	229
	DS80..	156	434	269
	DS90..	175	456	291
JRTS..77R37	DS63..	120	355	198
	DS71..	135	386	229
	DS80..	156	426	269
	DS90..	175	448	291
JRTS..87R57	DS63..	120	408	192
	DS71..	135	438	222
	DS80..	156	478	262
	DS90..	175	500	284
	DS100M	189	560	344
JRTS..97R57	DS63..	120	403	192
	DS71..	135	433	222
	DS80..	156	473	262
	DS90..	175	495	284
	DS100M	189	555	344
	DS112M	221	603	392

JRTS 系列斜齿轮-蜗轮蜗杆减速机

注：上表中电机尺寸为参考尺寸，因空间限制对电机尺寸有严格要求时请向我公司咨询。

Notes: The dimension of motor in the above table is only for reference. If you have special require, please consult us.



9. 设计和装配注意事项 Important notes of design and mounting

9.1 拆装单键空心轴减速机

Installation/removal of gear units with hollow shafts and keys

重要提示
Installation

· 在装配过程中一定要使用所供应的润滑剂。它的作用是防止接触腐蚀和便于拆卸。
Always use the supplied NOCO Fluid paste during the assembly procedure. It avoids contact corrosion and easy for disassembly.

· 键的尺寸X是由用户确定，但X必须>DK。
The key dimension X is defined by the customer, however X must be >DK.

安装
Customer shaft

JIE推荐两种方法将用户轴安装到单键空心轴上。
JIE recommends two methods for mounting gear units with hollow shafts and keys onto the input shaft of the driven machine (=customer shaft):

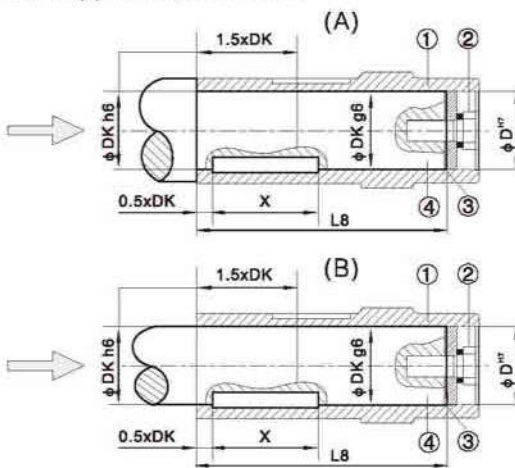
1. 用提供的固定件进行装配
Install with supplied fastening elements
2. 用JIE可选件:装卸工具进行装配
Install using the optional JIE installation/removal kit

9.1.1 提供的固定件

Supplied fastening elements

JIE标准产品提供下列固定件：
The following fastening elements are supplied as standard:

- 带垫片的紧固螺栓 Retaining screw with washer ②
- 孔用挡圈 Circlip ③



带轴肩的用户轴
用户轴的安装长度必须为L8-1(mm)(图)

Installation length of customer shaft with contact shoulder(A) must be L8-1mm

用户轴不带轴肩
安装长度必须等于L8(图)

Installation length of customer shaft with contact shoulder(B) must equal to L8.

紧固螺栓要拧紧到MS所示拧紧力矩值
The retaining screw ② must be tightened to the tightening torque MS listed in the following table.

- ①空心轴 Hollow shaft
- ②带垫片的紧固螺栓 Retaining screw with washer
- ③孔用挡圈 Circlip
- ④用户轴 Customer shaft

图：带轴肩附用户轴(A)和不带轴肩附用户轴(B)
Fig. :Customer shaft with contact shoulder(A) and without contact shoulder (B)

减速机型号 Gear unit type	D ^{H7} [mm]	DK[mm]	L8[mm]	MS[Nm]
JRTSA..37	20	20	84,106,104	8
JRTSA..47	25	25	105	20
JRTFA..37,JRTKA..37,JRTSA..47,JRTSA..57	30	30	105 132	20
JRTFA..47,JRTKA..47,JRTSA..57	35	35	132	20
JRTFA..57,JRTKA..57,JRTFA..67,JRTKA..67 JRTSA..67	40	40	142 156 144	40
JRTSA..67	45	45	144	40
JRTFA..77,JRTKA..77,JRTSA..77	50	50	183	40
JRTFA..87,JRTKA..87,JRTSA..77,JRTSA..87	60	60	210 180,220	80
JRTFA..97,JRTKA..97,JRTSA..87,JRTSA..97	70	70	270, 220,260	80
JRTFA..107,JRTKA..107,JRTSA..97	90	90	313,313.255	200
JRTFA..127,JRTKA..127	100	100	373	200
JRTFA..157,JRTKA..157	120	120	460	200



9.1.2 JIE拆装工具

JIE installation/removal kit

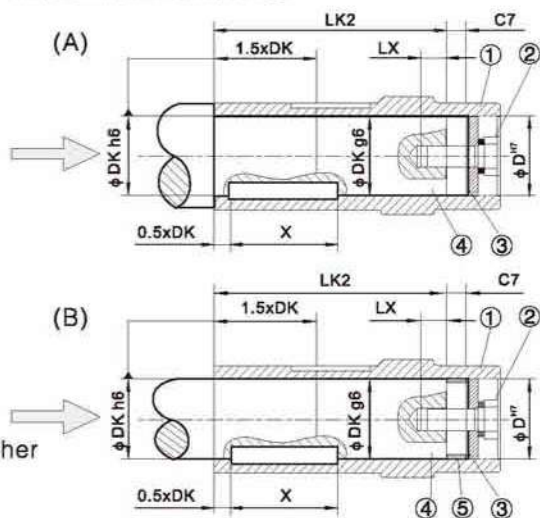
可使用JIE的选件，拆装工具进行装配。可以通过表中给出的零件号订购减速机的拆装工具。

JIE的拆装工具包含以下零件：

- 对没有轴肩的用户轴装配所用的轴套
- 装配用的紧固螺栓
- 拆卸用的压盘
- 拆卸用的锁母

You can use the optional JIE installation/removal kit for installation .The kit can be ordered for the specific gear unit types by quoting the part numbers in the table below. The accessories of the tools includorg:

- Distance piece for installation without contact shoulder ⑤
- Retaining screw for installation ②
- Removal washer for installation ⑦
- Fixed nut for removal ⑧



带轴肩的用户轴

安装长度LK2 [→图(A)] 不使用轴套
The installation length of the customer shaft must be LK2. The distance piece must not be used if the customer shaft does have a contact shoulder (A).

不带轴肩的用户轴

安装长度LK2 [→图(B)] 轴套必须使用
The installation length of the customer shaft must be LK2. The distance piece must not be used if the customer shaft does have a contact shoulder (B).

- ①空心轴
- ②带垫片的紧固螺栓
- ③孔用挡圈
- ④用户轴
- ⑤轴套

- ①Hollow shaft
- ②Retaining screw with washer
- ③Chirclip
- ④Customer shaft
- ⑤Distance piece

图：带轴肩附用户轴(A)和不带轴肩附用户轴(B)
Fig. :Customer shaft with contact shoulder(A) and without contact shoulder (B)

减速机型号 Gear unit type	D ^{HT} [mm]	DK[mm]	LK2[mm]	LX ^{*2} [Nm]	C7[Nm]	MS[Nm]
JRTSA..37	20	20	92	16	12	8
JRTSA..47	25	25	89	22	16	20
JRTFA..37,JRTKA..37,JRTSA..47 JRTSA..57	30	30	89 89,116	22	16	20
JRTFA..47,JRTKA..47,JRTSA..57	35	35	114	28	18	20
JRTFA..57,JRTKA..57 JRTFA..67,JRTKA..67 JRTSA..67	40	40	124 138,138,126	36	18	40
JRTSA..67	45	45	126	36	18	40
JRTFA..77,JRTKA..77,JRTSA..77	50	50	165	36	18	40
JRTFA..87,JRTKA..87 JRTSA..77,JRTSA..87	60	60	188 158,198	42	22	80
JRTFA..97,JRTKA..97 JRTSA..87,JRTSA..97	70	70	248 198,238	42	22	80
JRTFA..107,JRTKA..107, JRTSA..97	90	90	287 229	50	26	200
JRTFA..127,JRTKA..127	100	100	347	50	26	200
JRTFA..157,JRTKA..157	120	120	434	50	26	200



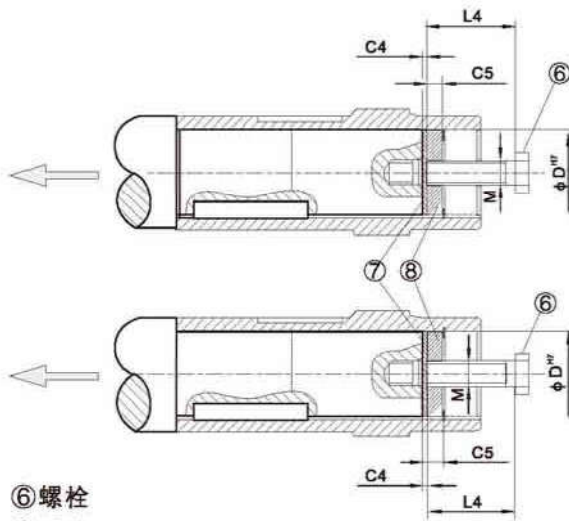
拆卸 Removal

用JIE的拆装工具进行装配，须按以下步骤进行拆卸

1. 拆下紧固螺栓⑥
 2. 拆下挡圈③,若使用了轴套⑤也一并拆下
 3. 在用户轴④和挡圈③之间按图装上压盘⑦和锁母⑧
 4. 重新装上挡圈③
 5. 重新装上紧固螺栓⑥
- 这样就可以把轴拆下来。

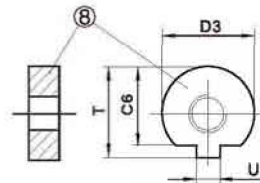
Applies prior installation with the JIE installation/removal kit only .

- Proceed as follows for removal:
1. Remove the retaining screw⑥.
 2. Remove the Circlip ③ and, if used, the distance piece ⑤,
 3. Insert the removal washer⑦ and the fixed nut ⑧ between the customer shaft ④ and circlip ③ according to Fig.
 4. Re-insert the circlip ③.
 5. Re-insert the retaining screw ⑥. You can now push the gear unit off the shaft.



- ⑥ 螺栓
- ⑦ 压盘
- ⑧ 拆卸用锁母

图: 空心轴拆卸示意图
Fig. Removal



- ⑥ Retaining screw
- ⑦ Removal washer
- ⑧ Fixed nut for removal

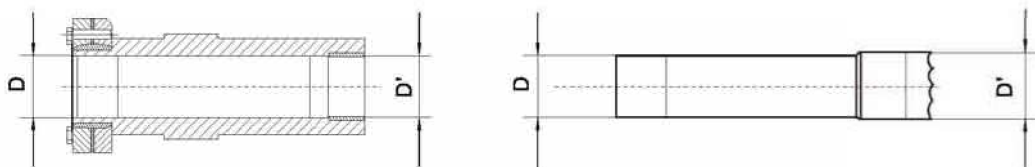
型号 Model	D ^{H7} [mm]	M	C4 [mm]	C5 [mm]	C6 [mm]	U ^{-0.5} [mm]	T3 ^{-0.5} [mm]	D ^{-0.5L4} [mm]	拆装工具零件号 Installation/ removal kit part number
JRTSA..37	20	M6	5	6	15.5	5.5	22.5	19.7	25
JRTSA..47	25	M10	5	10	20	7.5	28	24.7	35
JRTFA..37,JRTKA..37,JRTSA..57	30	M10	5	10	25	7.5	33	29.7	35
JRTFA..47,JRTSA..57	35	M12	5	12	29	9.5	38	34.7	45
JRTFA..57,JRTKA..57,JRTFA..67,JRTKA..67,JRTSA..67	40	M16	5	12	34	11.5	41.9	39.7	50
JRTSA..67	45	M16	5	12	38.5	13.5	48.5	44.7	50
JRTFA..77,JRTKA..77,JRTSA..77	50	M16	5	12	43.5	13.5	53.5	49.7	50
JRTFA..87,JRTKA..87,JRTSA..77,JRTSA..87,	60	M20	5	16	56	17.5	64	59.7	60
JRTFA..97,JRTKA..97,JRTSA..97	70	M20	5	16	65.5	19.5	74.5	69.7	60
JRTFA..107,JRTKA..107,JRTSA..107	90	M24	5	20	80	24.5	95	89.7	70
JRTFA..127,JRTKA..127	100	M24	5	20	89	27.5	106	99.7	70
JRTFA..157,JRTKA..157	120	M24	5	20	107	31	127	119.7	70



9.2 带轴阶的空心轴和锁紧盘选件 Shouldered hollow shaft with shrink disk (option)

带空心轴锁紧盘的减速机(JRTFH/FHF/FHZ37-157)平行轴减速机 JRTKH/KHF/KHZ37-157斜齿轮-锥齿轮减速机 and JRTSH/SHF47-97斜齿轮蜗轮蜗杆减速机), 可提供较大的轴孔直径D'作为选件, D=D'为标准产品

Gear units with a hollow shaft and shrink disk (parallel shaft helical gear units H/FHF/SH/SHF47-97) can be supplied with an optional larger hole diameter D' . The standard is D' =D.



图： 选件轴孔直径D'
 Fig.14:Optional hole diameter D'

减速机型号 Gear unit size	孔径 D/D' Hole diameter
JRTFH/FHF/FHZ37, JRTKH/KHF/KHZ37, JRTSH/SHF/SHZ47	30/32
JRTFH/FHF/FHZ47, JRTKH/KHF/KHZ47, JRTSH/SHF/SHZ57	35/36
JRTFH/FHF/FHZ57, JRTKH/KHF/KHZ57	40/42
JRTFH/FHF/FHZ67, JRTKH/KHF/KHZ67, JRTSH/SHF/SHZ67	40/42
JRTFH/FHF/FHZ77, JRTKH/KHF/KHZ77, JRTSH/SHF/SHZ77	50/52
JRTFH/FHF/FHZ87, JRTKH/KHF/KHZ87, JRTSH/SHF/SHZ87	65/66
JRTFH/HFF/FHZ97, JRTKH/KHF/KHZ97, JRTSH/SHF/SHZ97	75/76
JRTFH/FHF/FHZ107, JRTKH/KHF/KHZ107	95/96
JRTFH/FHF/FHZ127, JRTKH/KHF/KHZ127	105/106
JRTFH/FHF/FHZ157, JRTKH/KHF/KHZ157	125/126

订购带轴阶的空心轴减速机(可选轴孔直径D')必须注明D/D'尺寸。

例如: JRTFH37 DS80S4 30/32

Diameter D/D' must be specified when ordering gear units with a shouldered hollow shaft(optional hole diameter D').



减速电机重量 Gear motor weights

减速机重量 Gear Reducer weights

Gear reducer size	Kg	Gear reducer size	Kg	Gear reducer size	Kg	Gear reducer size	Kg	Gear reducer size	Kg
JRTRX57	9	JRTR..27	4	JRTR..87	55	JRTF27	6.5	JRTF57	25
JRTRXF57	11	JRTR..27F	4	JRTR..87F	63	JRTFA27	6	JRTFA57	24
JRTRX67	12	JRTR..37	10	JRTR..97	100	JRTFF27	8	JRTFF57	31
JRTRXF67	16	JRTR..37F	12	JRTR..97F	118	JRTFAF27	7	JRTFAF57	30
JRTRX77	20	JRTR..47	14	JRTR..107	130	JRTF37	13	JRTF67	31
JRTRXF77	24	JRTR..47F	14	JRTR..137	235	JRTFA37	12	JRTFA67	27
JRTRX87	35	JRTR..57	20	JRTR..147	360	JRTFF37	15	JRTFF67	37
JRTRXF87	40	JRTR..57F	24	JRTR..167	605	JRTFAF37	14	JRTFAF67	35
JRTRX97	59	JRTR..67	25	JRTR..177	980	JRTF47	18	JRTF77	55
JRTRXF97	66	JRTR..67F	29	JRTR..187	1400	JRTFA47	17	JRTFA77	50
JRTRX107	88	JRTR..77	30			JRTFF47	21	JRTFF77	66
JRTRXF107	103	JRTR..77F	36			JRTFAF47	20	JRTFAF77	58

Gear reducer size	Kg	Gear reducer size	Kg	Gear reducer size	Kg	Gear reducer size	Kg	Gear reducer size	Kg
JRTF87	96	JRTF127	401	JRTK37	12	JRTK67	30	JRTK97	150
JRTFA87	90	JRTFA127	365	JRTKF37	15	JRTKF67	36	JRTKF97	171
JRTFF87	112	JRTFF127	447	JRTKA37	11.5	JRTKA67	37	JRTKA97	130
JRTFAF87	105	JRTFAF127	401	JRTKAF37	15	JRTKAF67	34	JRTKAF97	156
JRTF97	157	JRTF157	632	JRTK47	19	JRTK77	54	JRTK107	260
JRTFA97	150	JRTFA157	610	JRTKF47	22.5	JRTKF77	62	JRTKF107	271
JRTFF97	190	JRTFF157	740	JRTKA47	18	JRTKA77	46	JRTKA107	231
JRTFAF97	171	JRTFAF157	670	JRTKAF47	21	JRTKAF77	55	JRTKAF107	265
JRTF107	241	JRTF167	1040	JRTK57	24	JRTK87	90	JRTK127	410
JRTFA107	225	JRTFA167	990	JRTKF57	29	JRTKF87	100	JRTKF127	452
JRTFF107	269	JRTF177	1520	JRTKA57	22	JRTKA87	78	JRTKA127	381
JRTFAF107	245	JRTFA177	1460	JRTKAF57	28	JRTKAF87	91	JRTKAF127	419



减速电机重量 Gear motor weights
减速机重量 Gear Reducer weights

Gear reducer size	Kg	Gear reducer size	Kg	Gear reducer size	Kg	Gear reducer size	Kg	Motor size	Kg
JRTK157	635	JRTS37	6	JRTS67	25	JRTS97	140	DS63S2	6.5
JRTKF157	715	JRTSF37	8	JRTSF67	32	JRTSF97	171	DS63M2	6.8
JRTKA157	603	JRTSA37	6	JRTSA67	26	JRTSA97	135	DS63L2	7.3
JRTKAF157	660	JRTSAF37	7.5	JRTSAF67	31	JRTSAF97	160	DS71M2	9.1
JRTK167	1035	JRTS47	10	JRTS77	45			DS80S2	11.5
JRTKH167	1000	JRTSF47	14	JRTSF77	55			DS80M2	14.3
JRTK187	1615	JRTSA47	11	JRTSA77	45			DS90M2	18.4
JRTKH187	1550	JRTSAF47	13	JRTSAF77	52			DS90L2	21.5
		JRTS57	14	JRTS87	80			DS100M2	26
		JRTSF57	18	JRTSF87	101			DS112M2	41.5
		JRTSA57	14	JRTSA87	76			DS132S2	44
		JRTSAF57	17	JRTSAF87	94			DS132M2	60

Motor size	Kg	Motor size	Kg	Motor size	Kg	Motor size	Kg	Motor size	Kg
DS160S2	80	DS71S4	7.8	DS180S4	122	DS71M6	9.1	DS200L6	225
DS160M2	106	DS71M4	9.1	DS180M4	141	DS80S6	11.5	DS225M6	280
DS160L2	114	DS80S4	11.5	DS180L4	152	DS80M6	14.3	DS250M6	378
DS180M2	168	DS80M4	14.2	DS200L4	260	DS90L6	21.3	DS280S6	475
DS200L2	236	DS90M4	18.4	DS225S4	295	DS100M6	26	D280M6	541
DS225M2	288	DS90L4	21.5	DS225M4	315	DS100L6	41.5		
D250M2	382	DS100M4	26	D250M4	400	DS112M6	41.5		
D280S2	494	DS112M4	41.5	D280S4	515	DS132S6	44		
DS280M2	550	DS132S4	44	D280M4	601	DS160S6	80		
DS63S4	6.2	DS132M4	60	DS63M6	6.6	DS160M6	92		
DS63M4	6.5	DS160S4	80	DS63L6	7.2	DS180M6	126		
DS63L4	7.5	DS160M4	92	DS71S6	7.8	DS180L6	169		

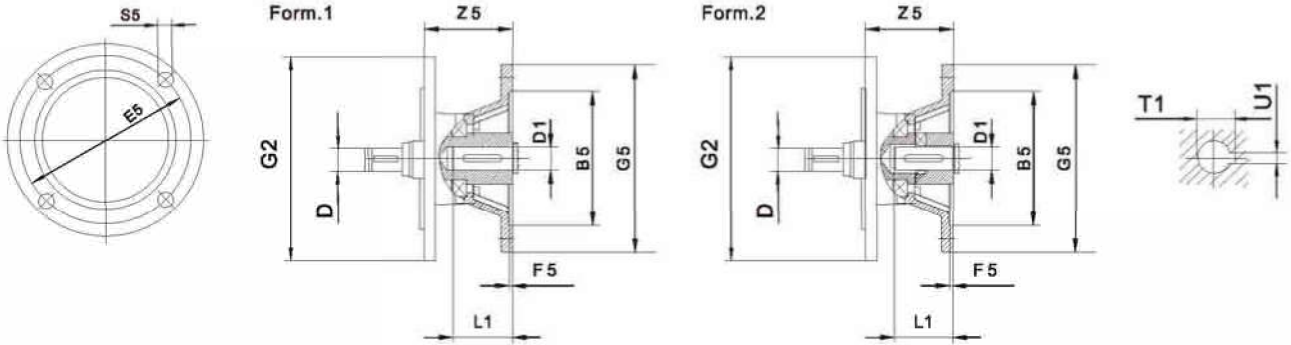
注：减速机重量表中重量值为平均各种速比重量的平均值，需要特定速比时精确值及减速机附带其它输入输出模块的重量值，请咨询本公司。

Notes: The weight of reducers in the table is the average weight for each ratio. If you need exact weight for certain ratio or input output modules, please consult our company.



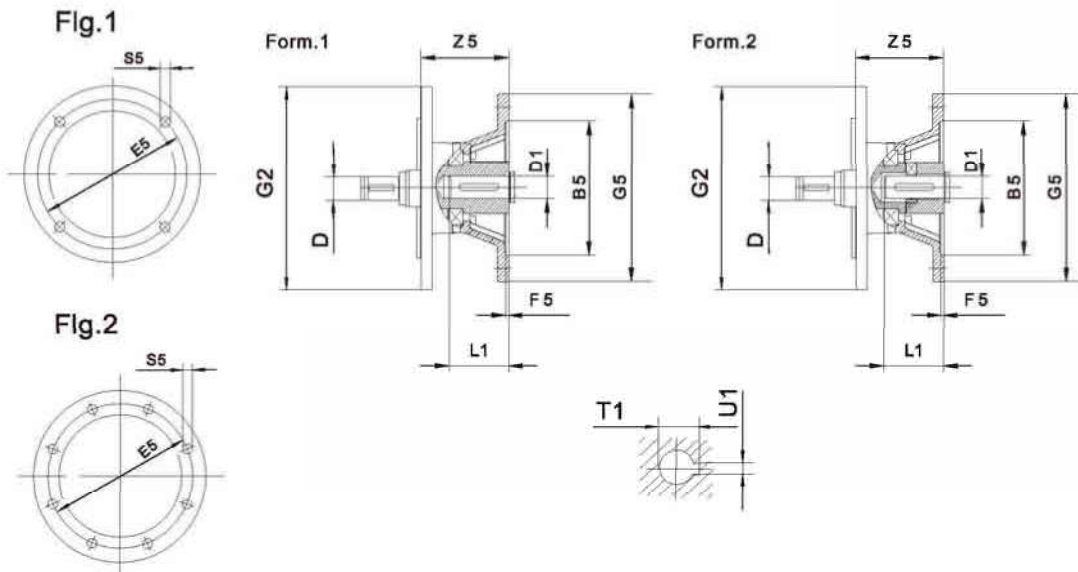


9.3 用于安装IEC标准电机的联接盘 Coupling for mounting of IEC motors



减速机规格 Gear unit type	联接盘规格 Coupling type	Form	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1		
JRTR..27, JRTR..37 JRTRF..37, JRTRF..47 JRTRK..37 JRTRS..37, JRTRS..47, JRTRS..57	AM63	1	95G7	10n6	115	4.5	120	140	M8	72	11F7	23	12.8	4		
	AM71 ¹⁾		110G7		130			160		92.5	14F7	30	16.3	5		
	AM80 ¹⁾		130G7	12n6	165			200	M10	118	19F7	40	21.8	6		
	AM90 ¹⁾			14n6	24F7			50		27.3	8					
JRTR..47, JRTR..57, JRTR..67 JRTRF..57, JRTRF..67 JRTRK..47, JRTRK..57, JRTRK..67 JRTRS..67	AM63	1	95G7	10n6	115	4.5	160	140	M8	66	11F7	23	12.8	4		
	AM71		110G7		130			160		87	14F7	30	16.3	5		
	AM80		130G7	12n6	165			200	M10	113	19F7	40	21.8	6		
	AM90			14n6	24F7			50		27.3	8					
	AM100 ¹⁾	2	180G7	16n6	215	5	250	M12	144	28H7	60	31.3	8			
	AM112 ¹⁾		230G7	18n6	265	300	177		38H7	80	41.3	10				
	AM132 ¹⁾			22n6	265	300	196		38H7	80	41.3	10				
JRTR..77 JRTRF..77 JRTRK..77 JRTRS..77	AM63	1	95G7	10n6	115	4.5	200	140	M8	60	11F7	23	12.8	4		
	AM71		110G7		130			160		14F7	30	16.3	5			
	AM80		130G7	12n6	165			200	M10	92	19F7	40	21.8	6		
	AM90			14n6	24F7			50		27.3	8					
	AM100 ¹⁾	2	180G7	16n6	215	5	250	M12	136	28H7	60	31.3	8			
	AM112 ¹⁾		230G7	18n6	265		300		196	38H7	80	41.3	10			
	AM132S ¹⁾ AM132M ¹⁾ AM132ML ¹⁾			22n6 28n6	265		300		196	38H7	80	41.3	10			
JRTR..87 JRTRF..87 JRTRK..87 JRTRS..87	AM80	1	130G7	12n6	165	4.5	250	200	M10	100	19F7	40	21.8	6		
	AM90			14n6							24F7	50	27.3	8		
	AM100	2	180G7	16n6	215	5	250	250	M12	131	28H7	60	31.3	8		
	AM112			18n6							300	191	38H7	80	41.3	10
	AM132S AM132M AM132ML			22n6 28n6							265	300	191	38H7	80	41.3
	AM160 ¹⁾	2	250G7	28n6	300	6	250	350	M16	236	42H7	110	45.3	12		
	AM180 ¹⁾			32n6							48H7		51.8	14		



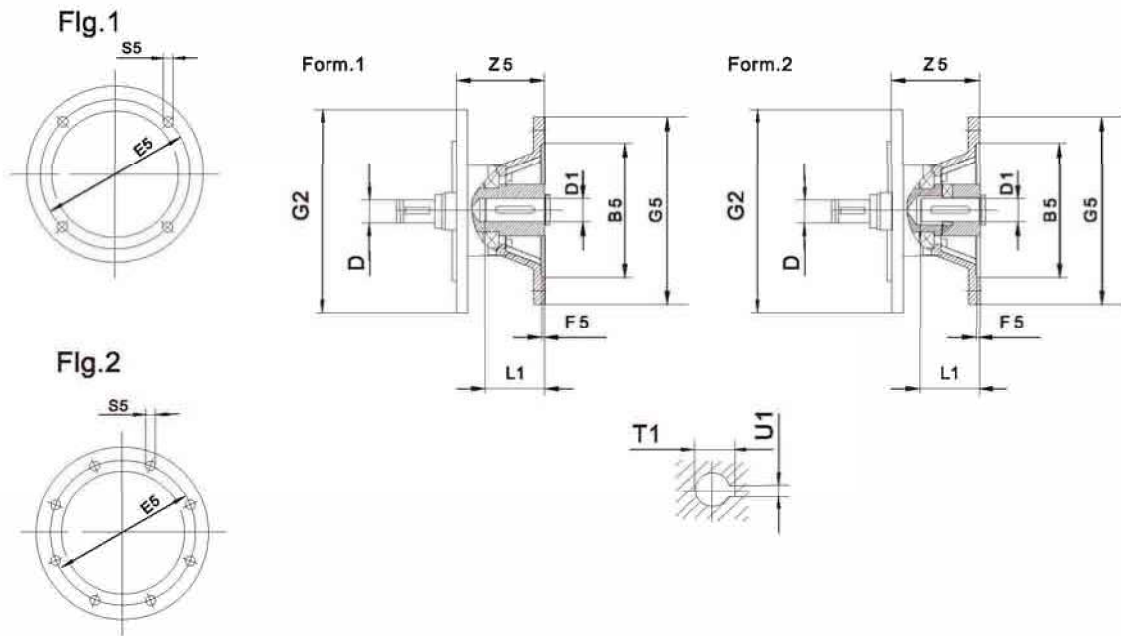


减速机规格 Gear unit type	联接盘规格 Motor adncopator	Fig	Form	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1								
JRTR..97 JRTF..97 JRTK..97 JRTS..97	AM100	1	2	180 G7	16n6	215	5	300	250	M12	126	28H7	60	31.3	8								
	AM112				18n6																		
	AM132S				22n6																		
	AM132M			230 G7	265	300			350	M16	231	42H7	110	45.3	12								
	AM132ML			28n6	48H7							51.8				14							
	AM160			250 G7	28n6							300	6	268	55F7	59.3	16						
	AM180			1	2	300 G7			38n6	350	7	400	M16	262	55F7	110	59.3	16					
	AM200								38n6	400	6								303	60H7	140	64.4	18
	AM225 ¹⁾								350 G7	38n6	400								6	450	60H7	140	64.4
JRTR..107 JRTF..107 JRTK..107	AM100	1	2	180 G7	16n6	215	5	350	250	M12	120	28H7	60	31.3	8								
	AM112				18n6																		
	AM132S				22n6																		
	AM132M			230 G7	265	300			350	M16	225	42H7	110	45.3	12								
	AM132ML			28n6	48H7							51.8				14							
	AM160			250 G7	28n6							300	6	262	55F7	59.3	16						
	AM180			1	2	300 G7			38n6	350	7	400	M16	262	55F7	110	59.3	16					
	AM200								38n6	400	6								297	60H7	140	64.4	18
	AM225								350 G7	38n6	400								6	450	60H7	140	64.4
JRTR..137	AM132S	1	2	230 G7	22n6	265	5	400	300	M12	173	38H7	80	41.3	10								
	AM132M				28n6																		
	AM132ML				28n6																		
	AM160			250 G7	28n6	300			6	350	M16	218	42H7	110	45.3	12							
	AM180			32n6	48H7	51.8			14														
	AM200			1	300 G7	38n6			350				7	255	55F7	59.3	16						
	AM225			2	2	350 G7			38n6	400	6	450	290	60H7	140	64.4	18						

1) 如果安装在R、K和S系列地脚安装方式的减速机上，请检查尺寸G5/2，它可能已经突出安装平面。

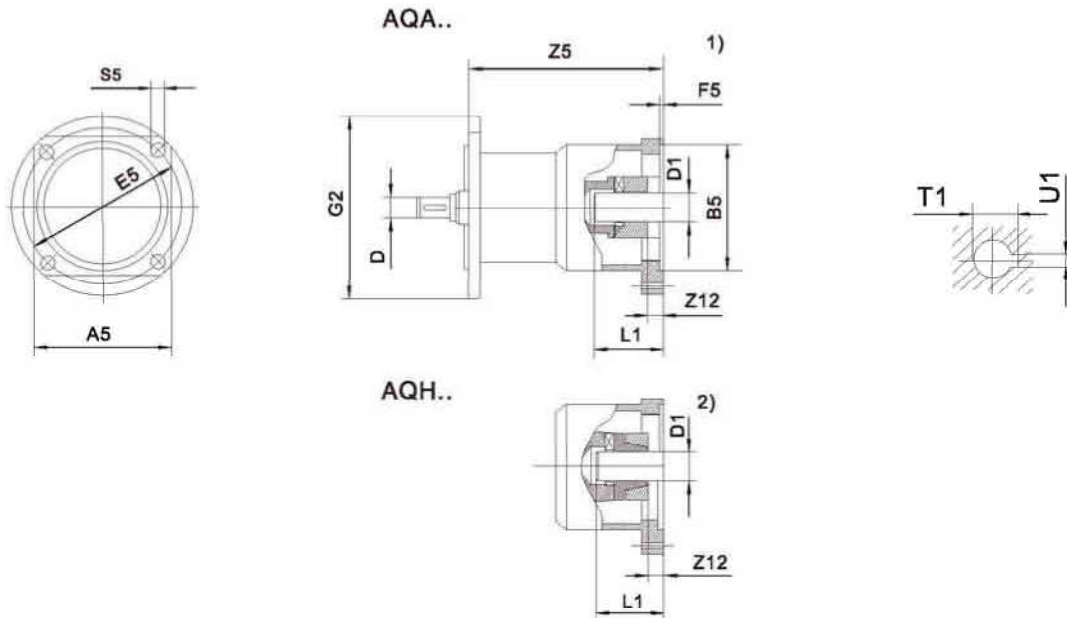
Dimension 1/2 G5 may protrude past foot mounting surface if mounted on R.K or S foot-mounted gear unit, Please check.

2) 此页无AM200 Without AM200



减速机规格 Gear unit type	联接盘规格 Motor adaptor	Fig.	Form	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
JRTR..147 JRTF..127 JRTK..127	AM132S	1	2	230G7	22n6	265	5	450	300	M12	165	38H7	80	41.3	10
	AM132M			28n6											
	AM132ML		1	250G7	28n6	300	6		400	M16	210	42H7	110	45.3	12
	AM160			32n6											
	AM180	2	1	300G7	38n6	350	7	450	M16	247	55F7	140	59.3	16	
	AM200			350G7	38n6										400
	AM225		2	2	450G7	48n6	500	7	550	M16	282	60H7	140	64.4	18
	AM250														
AM280				75H7								79.9	20		
JRTR..167 JRTF..157 JRTK..157 JRTK..167 JRTK..187	AM132	1	2	230G7	32n6	265	5	550	300	M12	165	38H7	80	41.3	10
	AM160			28n6											
	AM180		1	250G7	28n6	300	6		400	M16	202	42H7	110	45.3	12
	AM132ML			32n6											
	AM200	2	1	300G7	38n6	350	7	450	M16	239	55F7	140	59.3	16	
	AM225			350G7	38n6										400
	AM250		2	2	450G7	48n6	500	7	550	M16	274	60H7	140	64.4	18
	AM280														
				75H7								79.9	20		

9.4 用于安装伺服电机的联接盘 Adapter for mounting of servomotors



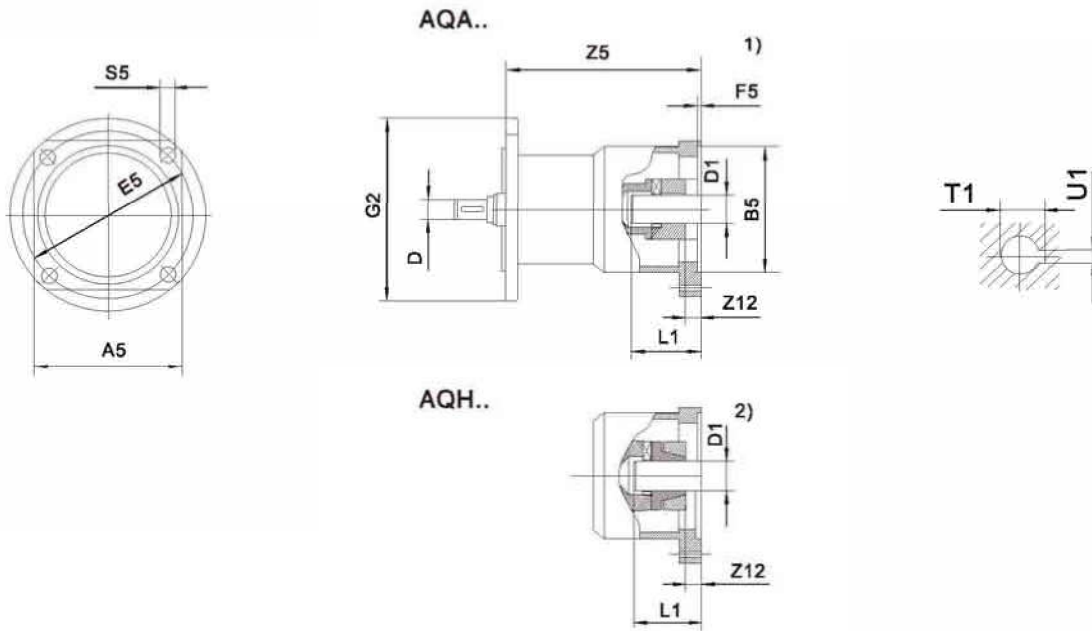
减速机规格 Gear unit type	联接盘规格 Motor adcoopator	A5	B5	D	E5	F5	G2	S5	Z5	Z12 ¹⁾	Z12 ²⁾	D1	L1	T1 ¹⁾	U1 ¹⁾		
JRTR..27 JRTR..37 JRTR..37 JRTR..47 JRTR..47 JRTR..37 JRTR..37 JRTR..47 JRTR..57	AQ..80/1	82	60G7	10n6	75	3	120	M5	104.5	3	3	11F7	23	12.8	4		
	AQ..80/2		12n6	95	M6			14F7				30	16.3	5			
	AQ..80/3		50G7	100	115			M8				129.5	14F7	30	16.3	5	
	AQ..100/1	100	80G7	10n6	100	4		M6	143.5	4	4	19F7	40	21.8	6		
	AQ..100/2		95G7	12n6	115			M8				19F7	40	21.8	6		
	AQ..100/3		80G7	14n6	115			M8				152.5	19F7	40	21.8	6	
	AQ..100/4		95G7	16n6	130			M8				24F7	50	27.3	8		
	AQ..115/1	115	95G7	10n6	75	3		M5	98	3	3	11F7	23	12.8	4		
	AQ..115/2		12n6	95	M6			14F7				30	16.3	5			
	AQ..115/3		50G7	100	115			M8				122.5	14F7	30	16.3	5	
	AQ..100/1	100	80G7	10n6	100	4		M6	136.5	4	4	19F7	40	21.8	6		
AQ..100/2	95G7		12n6	115	M8		19F7	40				21.8	6				
AQ..100/3	80G7		14n6	115	M8		145.5	19F7				40	21.8	6			
AQ..100/4	95G7		16n6	130	M8		24F7	50				27.3	8				
AQ..140/1	140	110G7	16n6	165	5	160	M10	175	5	5	24F7	50	27.3	8			
AQ..140/2		18n6	165	5							175	5	5	24F7	50	27.3	8
AQ..140/3		130G7	22n6	165							5	188	5	5	32F7	60	35.5

1)适用于键连接(AQA..)

1)Applies to type with key way(AQA)

2)适用于锁紧套连接(AQH..)

2)Applies to type with clamping ring hub (AQH)



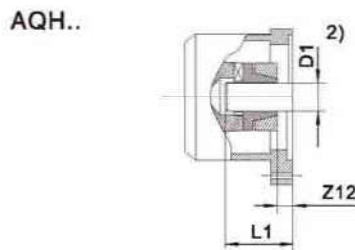
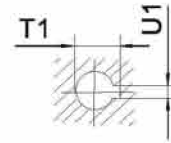
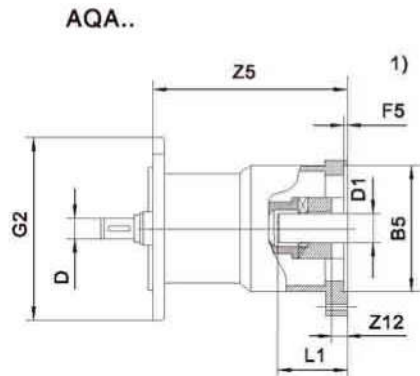
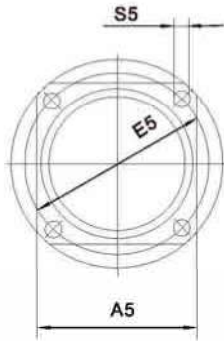
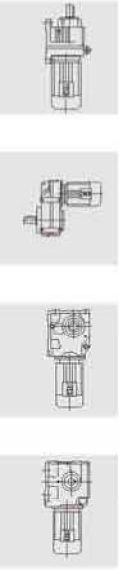
减速器规格 Gear unit type	联接盘规格 Motor adcopator	A5	B5	D	E5	F5	G2	S5	Z5	Z12 ¹⁾	Z12 ²⁾	D1	L1	T1 ¹⁾	U1 ¹⁾				
JRTR..77 JRTF..77 JRTK..77 JRTS..77	AQ..80/1	82	60G7	10n6	75	3	200	M5	92	3	3	11F7	23	12.8	4				
	AQ..80/2				75							14F7	30	16.3	5				
	AQ..80/3		50G7	95	14F7			30	16.3	5									
	AQ..100/1	100	80G7	10n6	100	4		M6	115.5	4	4	14F7	30	16.3	5				
	AQ..100/2				95G7							115	14F7	30	16.3	5			
	AQ..100/3		80G7	12n6	100			M6	129.5	4	4	19F7	40	21.8	6				
	AQ..100/4		95G7	14n6	115							19F7	40	21.8	6				
	AQ..115/1	115	110G7	16n6	130	5		M8	138.5	5	5	19F7	40	21.8	6				
	AQ..115/2											19F7	40	21.8	6				
	AQ..115/3	110G7	16n6	130	M8	138.5		5	5	24F7	50	27.3	8						
	AQ..140/1	140	110G7	16n6						165	5	M10	167	5	5	24F7	50	27.3	8
	AQ..140/2		130G7	18n6	M10	180		5	5							32F7	60	35.3	10
	AQ..140/3		130G7	22n6												225.5	32F7	60	35.3
	AQ..190/1	190	180G7	22n6	215	5		M12	225.5	5	5	38F7	80	41.3	10				
AQ..190/2	180G7						28n6					249.5	38F7	80	41.3	10			
AQ..190/3	180G7		28n6	215	249.5		38F7					80	41.3	10					
JRTR..87 JRTF..87 JRTK..87 JRTS..87	AQ..100/1	100	80G7	12n6	100	4	250	M6	110.5	4	4	14F7	30	16.3	5				
	AQ..100/2				95G7							115	M8	124.5	4	4	19F7	40	21.8
	AQ..100/3		80G7	100	M8			133.5	4			4					19F7	40	21.8
	AQ..100/4		95G7	115									24F7	50	27.3	8			
	AQ..115/1	115	110G7	16n6	130	5		M8	133.5	5	5	19F7	40	21.8	6				
	AQ..115/2											19F7	40	21.8	6				
	AQ..115/3	110G7	16n6	130	M8	133.5		5	5	24F7	50	27.3	8						
	AQ..140/1	140	110G7	16n6						165	5	M10	162	5	5	24F7	50	27.3	8
	AQ..140/2		130G7	18n6	M10	175		5	5							32F7	60	35.3	10
	AQ..140/3		130G7	22n6												220.5	32F7	60	35.3
	AQ..190/1	190	180G7	22n6	215	5		M12	220.5	5	5	32F7	60	35.3	10				
AQ..190/2	180G7						28n6					244.5	38F7	80	41.3	10			
AQ..190/3	180G7		28n6	215	244.5		38F7					80	41.3	10					

1)适用于键连接(AQA..)

2)适用于锁紧套连接(AQH..)

1)Applies to type with key way(AQA)

2)Applies to type with clamping ring hub (AQH)



减速机规格 Gear unit type	联接盘规格 Motor adcopator	A5	B5	D	E5	F5	G2	S5	Z5	Z12 ¹⁾	Z12 ²⁾	D1	L1	T1	U1			
JRTR..97 JRTF..97 JRTK..97 JRTS..97	AQ..140/1	140	110G7	16n6	165	5	300	M10	157	5	5	24F7	50	27.3	8			
	AQ..140/2		130G7	18n6					170			32F7	60	35.3	10			
	AQ..140/3		130G7	22n6					215.5			32F7	60	35.3	10			
	AQ..190/1	190	22n6	215	239.5			38F7	80			41.3						
	AQ..190/2	180G7	28n6															
JRTR..107 JRTF..107 JRTK..107	AQ..140/1	140	110G7	16n6	165	5	350	M10	151	5	5	24F7	50	27.3	8			
	AQ..140/2		130G7	18n6					164			32F7	60	35.3	10			
	AQ..140/3		130G7	22n6					209.5			32F7	60	35.3	10			
	AQ..190/1	190	22n6	215	233.5			38F7	80			41.3						
	AQ..190/2	180G7	28n6															
JRTR..137	AQ..190/1	190	130G7	22n6	215	5	400	M12	202.5	5	5	32F7	60	35.3	10			
	AQ..190/2		180G7	28n6					226.5			38F7	80	41.3				
	AQ..190/3		130G7	22n6					194.5			32F7	60	35.3				
JRTR..147 JRTF..127 JRTK..127	AQ..190/1	190	130G7	22n6	215		5	450	M12			218.5	5	5	38F7	80	41.3	
	AQ..190/2		180G7	28n6														
	AQ..190/3		130G7	22n6														

1)适用于键连接(AQA..)

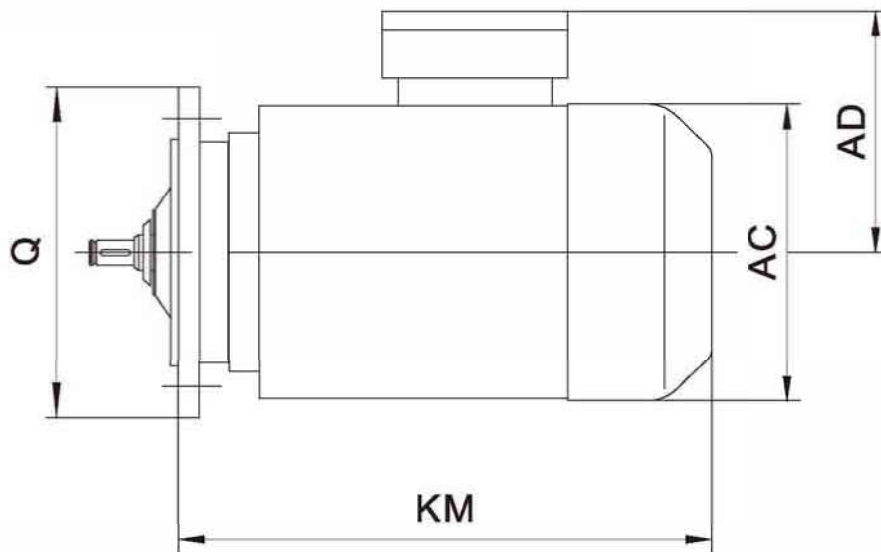
1)Applies to type with key way(AQA)

2)适用于锁紧套连接(AQH..)

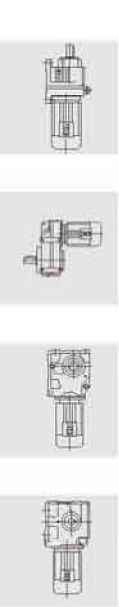
2)Applies to type with clamping ring hub (AQH)



9.5 电机尺寸表
The size of motor



□ □ □ □	Q mm	KM mm	L1 mm	L2 mm	L3 mm	AD mm	AC mm	□ □ □ □	Q mm	KM mm	L1 mm	L2 mm	L3 mm	AD mm	AC mm	
DS63	120	198	258	259	336	109	120	DP90	200	277	355	372	404	149	175	
	160	192	252	252	330				DE90	250	272	350	367			399
DS71	120	229	298	309	350	128	135	DS90	300	267	345	362	394	157	189	
	160	222	282	302	343				DP100	120	353	431	448			480
	200	215	275	295	336					160	344	422	439			471
DP80	120	269	341	354	397	138	156	DE100	200	337	415	432	464	171	221	
	160	262	334	347	390				DS100	250	332	410	427			459
DE80	200	255	327	340	383	138	156	DS100		300	327	405	422	454	171	221
	250	250	322	335	378					350	321	399	416	448		
DP90 DE90 DS90	120	291	369	386	418	149	175	DP112 DE112 DS112	160	392	480	481	533	171	221	
	160	284	362	379	411				200	383	471	472	524			



□ □ □ □	Q mm	KM mm	L1 mm	L2 mm	L3 mm	AD mm	AC mm	□ □ □ □	Q mm	KM mm	L1 mm	L2 mm	L3 mm	AD mm	AC mm
DP112 DE112 DS112	250	378	466	467	519	171	221	DP180L DE180L DS180L	250	665	785	700	820	314	420
	300	373	461	462	514				300	660	780	695	815		
	350	367	455	456	508				350	654	774	689	809		
DP132S DE132S DS132S	160	392	480	481	533	171	221	DP200L DE200L DS200L	400	647	767	682	802	335	470
	200	383	471	472	524				450	639	759	674	794		
	250	378	466	467	519				550	631	751	666	786		
	300	373	461	462	514				300	666	798	711	843		
	350	367	455	456	508				350	660	792	705	837		
DP132M DE132M DS132M	200	433	521	522	574	171	221	DP225S DE225S DS225S	400	653	785	698	830	335	470
	250	428	516	517	569				450	645	777	690	822		
	300	423	511	512	564				550	637	769	682	814		
	350	417	505	506	558				300	686	856	736	906		
	400	410	498	499	551				350	680	850	730	900		
DP160 DE160 DS160	450	402	490	491	543	228	271	DP225M DE225M DS225M	400	673	843	723	893	335	470
	200	471	581	538	661				450	665	835	715	885		
	250	466	576	533	656				550	657	827	707	877		
	300	461	571	528	651				300	711	881	761	931		
	350	455	565	522	645				350	705	875	755	925		
	400	448	558	515	638				400	698	868	748	918		
DP180M DE180M DS180M	450	440	550	507	630	280	380	D250M D280 D315	450	690	860	740	910	370	510
	550	432	542	499	622				450	682	852	732	902		
	250	617	737	652	772				400	793	946	839	992		
	300	612	732	647	767				450	785	938	831	984		
	350	606	726	641	761				550	777	930	823	976		
	400	599	719	634	754				400	905	1061	950	1108		
450	591	711	626	746	450	897	1053	942	1098						
550	583	703	618	738	550	889	1045	934	1090						
									660	1130	1286	1175	1331	530	635

注意:

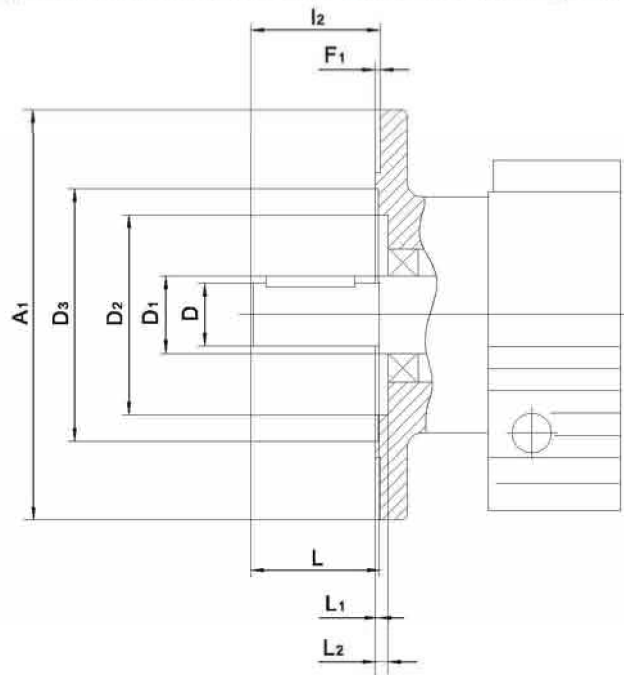
L1表示电机增加制动器后的KM值。
 L2表示电机为变频调速三相异步电动机时的KM值
 L3表示电动机为变频调节三相电动机并附带制动器时的KM值
 因空间限制对电机尺寸有要求时请向我公司咨询。

Notes:

L1 is the KM value for motor with brake.
 L2 is the KM value for asynchronous motor with frequency.
 L3 is the Km value for asynchronous motor with frequency and brake.
 If you have any special requirements, please contact us.



9.6 JRTRF..和JRTR..F减速电机法兰外形图
Flange contours of JRTRF and JRTR..F gear units



选择和安装输出零件时请注意L1和L2尺寸
Check dimensions L1 and L2 for selection and installation of output elements

规格 Type	A1	D	D1	D2		D3	F1	I2	L	L1		L2
				RF	R..F					RF	R..F	
JRTRF17,JRTR17F	120	20	25	46	46	65	3	40	40	1	1	5
	140				-	78	3			1	-	5
JRTRF27,JRTR27F	120	25	30	54	54	66	3	50	50	1	1	6
	140				-	79	3			3	-	7
	160				-	92	3.5			3	-	7
JRTRF37,JRTR37F	120	25	35	60	63	70	3	50	50	5	4	7
	160				-	96	3.5			1	-	7.5
	200				-	119	3.5			1	-	7.5
JRTRF47,JRTR47F	140	30	35	72	64	82	3	60	60	4	1	6
	160				-	96	3.5			0.5	-	6.5
	200				-	116	3.5			0.5	-	6.5
JRTRF57,JRTR57F	160	35	40	76	75	96	3.5	70	70	4	2.5	5
	200				-	116	3.5			0	-	5
	250				-	160	4			0.5	-	5.5
JRTRF67,JRTR67F	200	35	50	90	90	118	3.5	70	70	2	4	7
	250				-	160	4			1	-	7.5
JRTRF77,JRTR77F	250	40	52	112	100	160	4	80	80	0.5	2.5	7
	300				-	210	4			0.5	-	7
	350				-	210	4			0	1.5	8
JRTRF87,JRTR87F	300	50	62	123	122	210	4	100	100	0	1.5	8
	350				-	226	5			1	-	9
JRTRF97	350	60	72	136	-	236	5	120	120	0	-	9
	450				-	320						
JRTRF107	350	70	82	157	-	232	5	140	140	0	-	11
	450				-	316						
JRTRF137	450	90	108	180	-	316	5	170	170	0	-	10
	550				-	416						
JRTRF147	450	110	125	210	-	316	5	210	210	0	-	10
	550				-	416						
JRTRF167	550	120	145	290	-	416	5	210	210	1	-	10
	660				-	517				6	2	-



9.7 减速机安装 Gear unit mounting

安装减速机和减速电机时一定要使用8.8级螺栓

Always use bolts quality 8.8 for mounting gear units and geared motors.

当传递样本上所给定的额定扭矩时，下面几种法兰安装(JRTRF..)和地脚/法兰安装(JRTR...F)的斜齿轮减速机,法兰和用户安装单元固定时一定要用10.9级的螺栓.

- JRTRF37和带 ϕ 120mm 法兰的 JRTR37F
- JRTRF47和带 ϕ 140mm 法兰的 JRTR47F
- JRTRF57和带 ϕ 160mm 法兰的 JRTR57F

Bolts of quality 10.9 must be used for fastening the flange to the customer-supplied unit in order to transmit the rated torque specified in the catalog.

These bolts must be used in case of the following flange-mounted helical geared motors(RF..) and foot/flange-mounted helical geared motors(R..F):

- RF37,R37F with flange ϕ 120mm
- RF47,R47F with flange ϕ 140mm
- RF57,R57F with flange ϕ 160mm

JRTKH167...,JRTKH187..
 的力矩臂

Torque arms for
 JRTKH167...,JRTKH187..

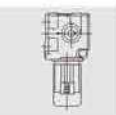
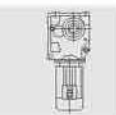
对于减速电机JRTKH167..和JRTKH187..作为标准配置，一般不提供扭矩臂。

如果需要，请和JIE联系，我们将给出推荐的安装位置和尺寸图。

As standard, there are no torque arms available for gear unit sizes KH167.. and KH187.. Please contact JIE if you require torque arms for these gear units. We will submit The configuration of recommendations.



例外
 Exception





9.8 润滑 Lubricants

概述 General information

除非特别要求, JIE所提供的减速电机均按其减速机规格注了油, 订货时, 所规定的安装位置对注油量的多少是一个决定性因素。对于安装位置的调节必须相应地调节注油量, (按286页注油量表)。

Un less there is a special requirement, JIE always supplies the drives that with lubricant fill specifically for the reducers and mounting position .When ordering a drive ,the decisive factor of lubricant fill qwantites is the drives mounting position .You must adapt the lubricant fill to any subsequent change made to the mounting position check P286 for the (Lubricant fill quantities)

润滑油的等级和粘度类型 Lubricating conglutination

JIE推荐使用的润滑油见P285页润滑油表,其等级和粘度指标见下表
JIE commend the lubricant oil in P285 .The grade and conglutination index in the following.

DIN(ISO,SAE)标准润滑油 Normal lubricating	粘度指标 conglutination index	环境温度℃ Ambient temperature	减速机型号 Gear unit type
Mineral oil CLp(cc)	ISOVG220	-10— +40	R系列、F系列 K系列减速机
	ISOVG680	0— +40	S系列减速机

特殊应用场合必须使用特殊润滑油, 比如要求长使用寿命润滑油。若需要可提供用于食品行业的生物降解润滑油。

The special lubricate oil .must be used in special situation. For example requesting use the oil with long life-span. If you want ,we can afford the biology decompose oil for food industry.

DIN(ISO,SAE)标准润滑油 Normal lubricating oil	粘度指标 conglutination index	环境温度℃ Ambient temperature	减速机型号 Gear unit type
Mineral oil CLP(CC)	ISOVG100	-20—+25	R系列、F系列 K系列减速机
Synthetic fluid, CLP PG	ISOVG220	-25—+80	R系列、F系列 K系列减速机
Synthetic fluid ,CLP HC	ISOVG460	-30—+80	S系列减速机

耐磨轴承用润滑脂 Anti-friction bearing greases

下列润滑脂用于减速机和电机的耐磨轴承润滑

DIN(ISO)标准润滑剂 Normal lubricating lipin	环境温度℃ Ambient temperature	减速机类型 Gear unit type
矿物轴承润滑脂K32N/K2K mineral bearing lubricating lipin K32N/K2K	-30—+60	正常型式: 减速机、电机 Normal type: motor reducer
合成轴承润滑脂KHC 2R-40 synthetic bearing lubricating lipin KHC 2R-40	-40—+80	减速机加注合成润滑油 Reducers need to inject the synthetic lubricant
矿物轴承润滑脂K3N-30 mineral bearing lubricating lipin K3N-30	-25—+80	特殊型式: 按应用场合确定的电机 Special type: select the motor in different situation.
合成轴承润滑脂K2S-50 synthetic bearing lubricating lipin K2S-50	-45—-25	特殊型式: 按应用场合确定的电机 Special type: select the motor in different situation.



JIE传动装置润滑油表

Lubricant table

减速机型号 Gear unit type	环境温度 Ambient temperature -50℃ 0℃ +50℃ +100℃	ISO粘度	TOTAL CARTER 道达尔	Mobil	Shell	bp	长城	KunLun 昆仑
JRTF, JRTF, JRTK	0℃ 40℃	VG220	TOTAL CARTER EP220	MOBILGEAR 630	SHELL OMALA 220	ENERGOL GR-XP220	CKD220	CKD220
	-10℃ 40℃	VG220	TOTAL CARTER EP220	MOBILGEAR 630	SHELL OMALA 220	ENERGOL GR-XP220		
	-40℃ 40℃	VG220	TOTAL CARTER SH220	MOBIL SHC220	SHELL OMALAHD 220	ENERSYN HTX220		
	-10℃ 80℃	VG320	TOTAL CARTER SH320	MOBIL SHC320	SHELL OMALA HD320	ENERGOL HTX320		
JRTS	0℃ 40℃	VG680	TOTAL CARTER VP/CS680	MOBILGEAR XMP680				
	-10℃ 40℃	VG460	TOTAL CARTER VP/CS460	MOBILGEAR XMP460				
	-40℃ 40℃	VG220	TOTAL CARTER SY220	MOBIL GLYGOYLE HE220	SHELL TIVELA WB	ENERSYN SG-XP220		
	-10℃ 80℃	VG680	TOTAL CARTER SY680	MOBIL SHC680	SHELL TIVELA SD	ENERSYN SG-XP680		

注：以上表格中上色部分为合成油产品，空白为该品牌无此系列产品。

Notes: In the above table, the color part is synthetic products and the blank one means no this series products.



加油量
Lubricant fill quantities

规定的注油量是参考值。精确的注油量随着减速机的级数和速比的不同而变化。注油时,最有效是检查油位塞,因为它指示精确注油量。

The specified fill quantities are recommended values .The precise values vary depending on the number of stages and gear ratio .When filling,it is essential to check the oil level plug since it indicates the precise oil capacity .

斜齿轮减速机(JRTR..)
Helical gear units(JRTR..)

下表按安装位置M1-M6,给出了注油量的参考值。

The following tables show referenced values for lubricant fill quantities in relation to the Mounting position M1~M6.

减速机型号 Gear unit type	Referenced		注油量(升) Fill quantity(L) M3	M4	M5	M6
	M1 ¹⁾	M2 ¹⁾				
JRTR17/R17F	0.25	0.6	0.35	0.6	0.35	0.35
JRTR27/R27F	0.25/0.4	0.7	0.4	0.7	0.4	0.4
JRTR37/R37F	0.3/1	0.9	1	1.1	0.8	1
JRTR47/R47F	0.7/1.5	1.6	1.5	1.7	1.5	1.5
JRTR57/R57F	0.8/1.7	1.9	1.7	2.1	1.7	1.7
JRTR67/R67F	1.1/2.3	2.6/3.5	2.8	3.2	1.8	2
JRTR77/R77F	1.2/3	3.8/4.3	3.6	4.3	2.5	3.4
JRTR87/R87F	2.3/6	6.7/8.4	7.2	7.7	6.3	6.5
JRTR97	4.6/9.8	11.7/14	11.7	13.4	11.3	11.7
JRTR107	6/13.7	16.3	16.9	19.2	13.2	15.9
JRTR137	10/25	28	29.5	31.5	25	25
JRTR147	15.4/40	46.5	48	52	39.5	41
JRTR167	27/70	82	78	88	66	69

减速机型号 Gear unit type	M1 ¹⁾	M2 ¹⁾	注油量(升) Fill quantity(L) M3	M4	M5	M6
JRTRF27	0.25/0.4	0.7	0.4	0.7	0.4	0.4
JRTRF37	0.4/1	0.9	1	1.1	0.8	1
JRTRF47	0.7/1.5	1.6	1.5	1.7	1.5	1.5
JRTRF57	0.8/1.7	1.8	1.7	2.0	1.7	1.7
JRTRF67	1.2/2.5	2.7/3.6	2.7	3.1	1.9	2.1
JRTRF77	1.2/2.6	3.8/4.1	3.3	4.1	2.4	3
JRTRF87	2.4/6	6.8/7.9	7.1	7.7	6.3	6.4
JRTRF97	5.1/10.2	11.9/14	11.2	14	11.2	11.8
JRTRF107	6.3/14.9	15.9	17	19.2	13.1	15.9
JRTRF137	9.5/25	27	29	32.5	25	25
JRTRF147	16.4/42	47	48	52	42	42
JRTRF167	26/70	82	78	88	65	71

1)多级减速机中较大的减速机须注较多的油量。

The output end gear unit of multi-stage gear units must be filled with the larger oil volume.

减速机型号 Gear unit type	M1	M2	注油量(升) Fill quantity(L) M3	M4	M5	M6
JRTRX67	0.8	0.8	1.7	1.9	1.1	1.1
JRTRX77	1.1	1.5	2.6	2.7	1.6	1.6
JRTRX87	1.7	2.5	4.8	4.8	2.9	2.9
JRTRX97	2.1	3.4	7.4	7	4.8	4.8
JRTRX107	3.9	5.6	11.6	11.9	7.7	7.7

减速机型号 Gear unit type	M1	M2	注油量(升) Fill quantity(L) M3	M4	M5	M6
JRTRXF67	0.7	0.8	1.5	1.7	1	1
JRTRXF77	0.9	1.5	2.4	2.5	1.6	1.6
JRTRXF87	1.6	2.5	4.9	4.7	2.9	2.9
JRTRXF97	2.1	3.6	7.1	7	4.8	4.8
JRTRXF107	3.1	5.9	11.2	10.5	7.2	7.2

注: JRTR177、JRTR187注油量具体咨询JIE公司



平行轴斜齿轮减速机(JRTF..)
Parallel shaft helical gear units.(JRTF..)

JRTF...,JRTFA..B,JRTFH..B,JRTFV..B

减速机型号 Gear unit type	注油量(升) Fill quantity(L)					
	M1	M2	M3	M4	M5	M6
JRTF37	1	1.2	0.7	1.2	1	1.1
JRTF47	1.5	1.8	1.1	1.9	1.5	1.7
JRTF57	2.6	3.7	2.1	3.5	2.8	2.9
JRTF67	2.7	3.8	1.9	3.8	2.9	3.2
JRTF77	5	7.3	4.3	8	6	6.3
JRTF87	10	13.0	7.7	13.8	10.8	11
JRTF97	18.5	22.5	12.6	25.2	18.5	20
JRTF107	24.5	32	19.5	37.5	27	27
JRTF127	40.5	55	34	61	46.5	47
JRTF157	69	104	63	105	86	78

JRTFF..

减速机型号 Gear unit type	注油量(升) Fill quantity(L)					
	M1	M2	M3	M4	M5	M6
JRTFF37	1	1.2	0.7	1.3	1	1.1
JRTFF47	1.6	1.9	1.1	1.9	1.5	1.7
JRTFF57	2.8	3.8	2.1	3.7	2.9	3
JRTFF67	2.7	3.8	1.9	3.8	2.9	3.2
JRTFF77	5.1	7.3	4.3	8.1	6	6.3
JRTFF87	10.3	13.2	7.8	14.1	11	11.2
JRTFF97	19	22.5	12.6	25.5	18.9	20.5
JRTFF107	25.5	32	19.5	38.5	27.5	28
JRTFF127	41.5	56	34	63	46.5	49
JRTFF157	72	105	64	106	87	79

JRTFA...,JRTFH...,JRTFV...,JRTFAF...,JRTFHF...,JRTFVF...,JRTFAZ...,JRTFHZ...,JRTFVZ..

减速机型号 Gear unit type	注油量(升) Fill quantity(L)					
	M1	M2	M3	M4	M5	M6
JRTF..37	1	1.2	0.7	1.2	1	1.1
JRTF..47	1.5	1.8	1.1	1.9	1.5	1.7
JRTF..57	2.7	3.8	2.1	3.6	2.9	3
JRTF..67	2.7	3.8	1.9	3.8	2.9	3.2
JRTF..77	5	7.3	4.3	8	6	6.3
JRTF..87	11	13.0	7.7	13.8	10.8	11
JRTF..97	18.5	22.5	12.6	25.0	18.5	20
JRTF..107	24.5	32	19.5	37.5	27	27
JRTF..127	39	55	34	61	45	46.5
JRTF..157	68	103	62	104	85	77

注: JRTF167、JRTF177注油量具体咨询JIE公司



斜齿轮-锥齿轮减速机(JRTK..)
Helical-bevel Gear unit (JRTK..)

JRTK..,JRTKA..B,JRTKH..B,JRTKV..B

减速机型号 Gear unit type	注油量(升) Fill quantity(L)					
	M1	M2	M3	M4	M5	M6
JRTK..37	0.5	1	1	1.3	1	1
JRTK..47	0.8	1.3	1.5	2	1.6	1.6
JRTK..57.	1.2	2.3	2.5	3	2.6	2.4
JRTK..67	1.1	2.4	2.6	3.4	2.6	2.6
JRTK..77	2.2	4.1	4.4	5.2	4.2	4.4
JRTK..87	3.7	8	8.7	10.4	7.8	8
JRTK..97	7	14	15.7	20	15.7	15.5
JRTK..107	10	21	25.5	33.5	24	24
JRTK..127	21	41.5	44	51	40	41
JRTK..157	31	62	65	90	58	62
JRTK..167	35	100	100	125	85	85
JRTK..187	60	170	170	205	130	130

JRTKF..

减速机型号 Gear unit type	注油量(升) Fill quantity(L)					
	M1	M2	M3	M4	M5	M6
JRTKF37	0.5	1.1	1.1	1.5	1	1
JRTKF47	0.8	1.3	1.7	2.2	1.6	1.6
JRTKF57.	1.3	2.3	2.7	3	2.9	2.7
JRTKF67	1.1	2.4	2.8	3.6	2.7	2.7
JRTKF77	2.1	4.1	4.4	6	4.5	4.5
JRTKF87	3.7	8.2	9	11.9	8.4	8.4
JRTKF97	7	14.7	17.3	21.5	15.7	16.5
JRTKF107	10	22	26	35	25	25
JRTKF127	21	41.5	46	55	41	41
JRTKF157	31	66	69	92	62	62

JRTKA..,JRTKH..,JRTKV..,JRTKAF..,JRTKHF..,JRTKVF..,JRTKAZ..,JRTKHZ..,JRTKVZ..

减速机型号 Gear unit type	注油量(升) Fill quantity(L)					
	M1	M2	M3	M4	M5	M6
JRTK..37	0.5	1	1	1.4	1	1
JRTK..47	0.8	1.3	1.6	2.1	1.6	1.6
JRTK..57.	1.3	2.3	2.7	3	2.9	2.7
JRTK..67	1.1	2.4	2.7	3.6	2.6	2.6
JRTK..77	2.1	4.1	4.6	6	4.4	4.4
JRTK..87	3.7	8.2	8.8	11.1	8	8
JRTK..97	7	14.7	15.7	20	15.7	15.7
JRTK..107	10	20.5	24	32	24	24
JRTK..127	21	41.5	43	51	40	40
JRTK..157	31	66	67	87	62	62
JRTK..167	35	100	100	125	85	85
JRTK..187	60	170	170	205	130	130



斜齿轮-蜗轮蜗杆减速器(JRTS..)
 Helical-worm Gear units.(JRTS..)

JRTS..

减速器型号 Gear unit type	注油量(升) Fill quantity(L)					
	M1	M2	M3 ¹⁾	M4	M5	M6
JRTS37	0.25	0.4	0.5	0.6	0.4	0.4
JRTS47	0.35	0.8	0.7	1.1	0.8	0.8
JRTS57	0.5	1.2	1	1.5	1.3	1.3
JRTS67	1	2.0	2.2/3.1	3.2	2.6	2.6
JRTS77	1.9	4.2	3.7/5.4	6	4.4	4.4
JRTS87	3.3	8.1	6.9/10.4	12	8.4	8.4
JRTS97	6.8	15	13.4/18	22.5	17	17

1)多级减速箱中较大的减速机须注较多的油量。

The output end gear unit of multi-stage gear units must be filled with the larger oil volume.

JRTSF..

减速器型号 Gear unit type	注油量(升) Fill quantity(L)					
	M1	M2	M3 ¹⁾	M4	M5	M6
JRTSF37	0.25	0.4	0.5	0.6	0.4	0.4
JRTSF47	0.4	0.9	0.9	1.2	1.0	1
JRTSF57	0.5	1.2	1	1.6	1.4	1.4
JRTSF67	1	2.2	2.3/3	3.2	2.7	2.7
JRTSF77	1.9	4.1	3.9/5.8	6.5	4.9	4.9
JRTSF87	3.8	8	7.1/10.1	12	9.1	9.1
JRTSF97	7.4	15	13.8/18.8	23.6	18	18

1)多级减速箱中较大的减速机须注较多的油量。

The output end gear unit of multi-stage gear units must be filled with the larger oil volume.

JRTSA..,JRTSH..,JRTSAF..,JRTSHF..,JRTSAZ..,JRTSHZ..

减速器型号 Gear unit type	注油量(升) Fill quantity(L)					
	M1	M2	M3 ¹⁾	M4	M5	M6
JRTS..37	0.25	0.4	0.5	0.6	0.4	0.4
JRTS..47	0.4	0.8	0.7	1.1	0.8	0.8
JRTS..57	0.5	1.1	1	1.6	1.2	1.2
JRTS..67	1	2	1.8/2.6	2.9	2.5	2.5
JRTS..77	1.8	3.9	3.6/5	5.9	4.5	4.5
JRTS..87	3.8	7.4	6/8.7	11.2	8	8
JRTS..97	7	14	11.4/16	21	15.7	15.7

1)多级减速箱中较大的减速机须注较多的油量。

The output end gear unit of multi-stage gear units must be filled with the larger oil volume.



10. 安装位置 Mounting Position

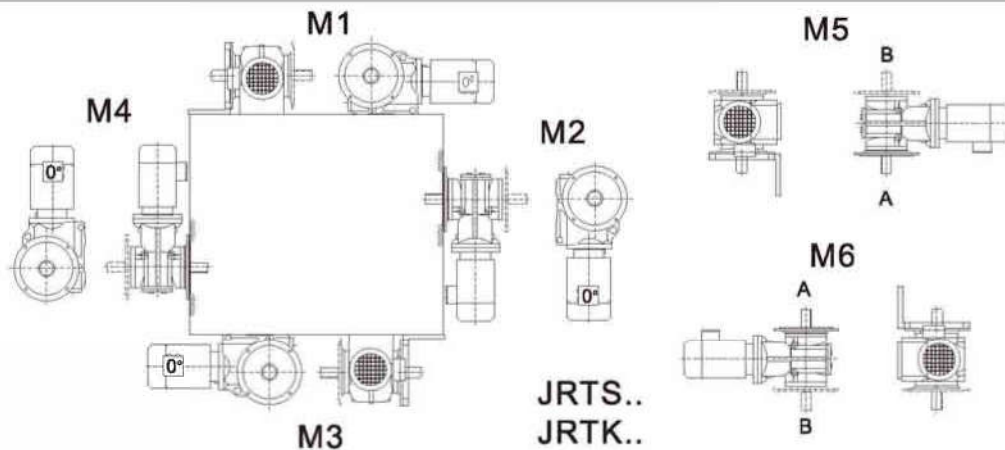
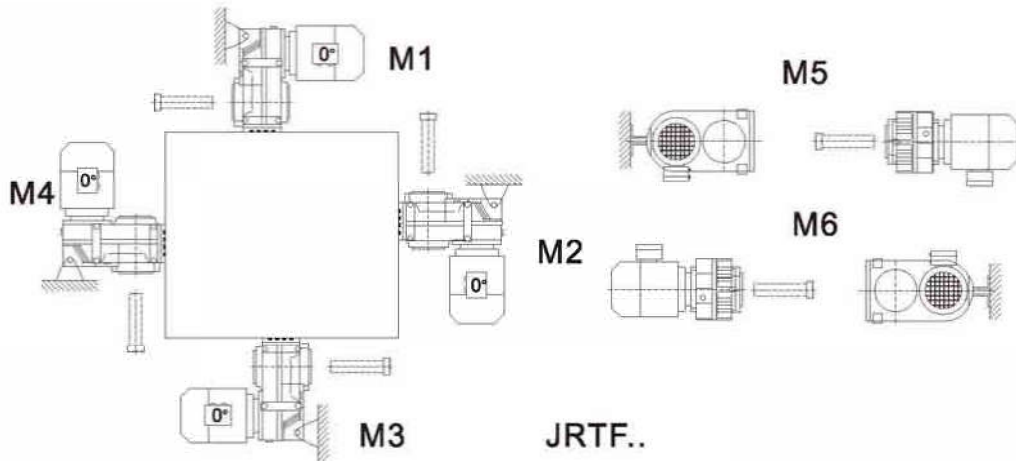
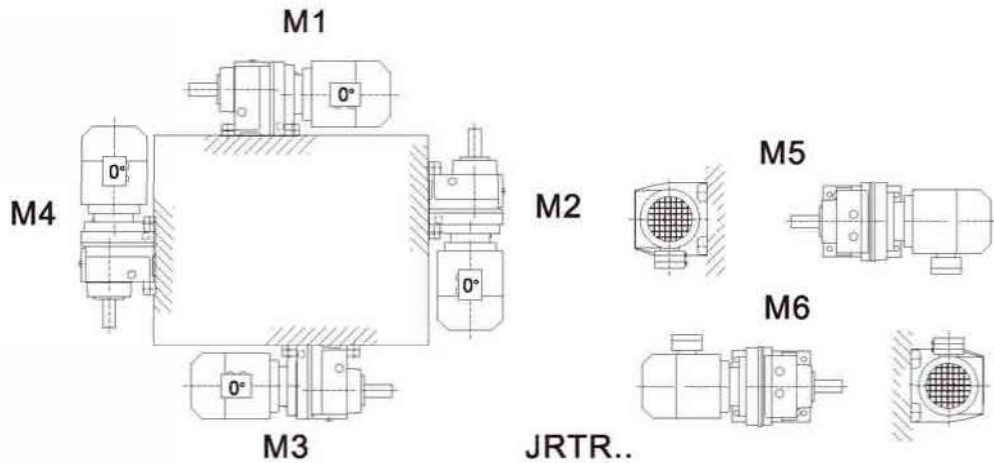
10.1 安装位置概述 Mounting Position designation

安装位置说明: JIE减速电机有M1..M6共6种安装位置。

JIE differentiates between six mounting position M1-M6 for geared motors.

下面的图表说明了减速器安装位置M1..M6的空间排列。

The following shows the spatial arrangement of the gear units in mounting positions M1-M6.





重要的定货信息

Important indention information

除了安装位置以外,下面定货资料也是必需的,以便精确描述所要求的减速电机外形。
 Except the mounting position ,the indention informations for depicting the figure of gear

电机接线盒位置

Unit exactly are necessary.

电机接线盒上出线口位置

Position of the motor terminal box

对直角轴减速机:输出轴方向

For the right-angle shaft reducers: output shaft connection.

对直角轴型带收缩盘轴装式减速机:连接端带或不带法兰

For the right-angle shaft reducers with shrink-disk: with or without frange.

带逆止器的减速电机:设备的旋转方向

For the drive with a backstop: the Direction of rotation.



电机接线盒和出线嘴位置

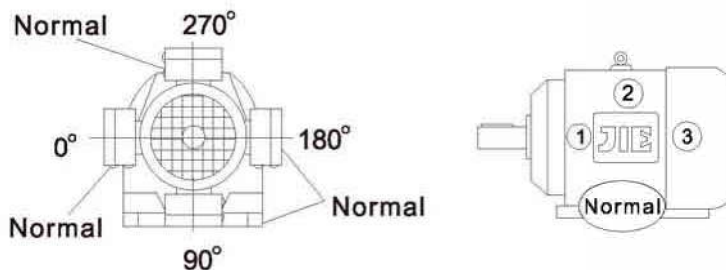
Position of the motor terminal box and cable entry

电机接线盒从电机风扇罩看(如图),位置分别表示为0°,90°,180°或270°

出线嘴的位置也可以进行选择(如图),分别表示为 "Normal", "1", "2" 或 "3"

Possible positions of the terminal box are 0°,90°,180° or 270° as viewed onto the fan guard =B-side

In addition,the position of the cable entry can be selected.The possibilities are "X"(=normal position),"1","2" or "3"



图：接线盒与出线嘴的位置

Fig:Position of the terminal box and cable entry

对于接线盒,除非给出了详细信息,否则接线盒按0°,出线嘴按 "Normal" 供货。

我们建议安装位置在M3时,应选择出线嘴位置为 "2" 。

注意:

Unless other information is given regarding the terminal box,the 0° type with "X" cable entry will be supplied .We recommend selecting cable entry "2" with mounting position M3.

对于JRTR17D71. 减速机;接线盒位置不能标为90°

D71..BE 接线盒位置为90°时,出线嘴位置不能标为 "2" 。

The terminal box cannot be positioned at 90° on the JRTR17D71 geared motor.

Cable entry "2" is not possible with the DT71..BE motor with terminal box position 90°





带逆止器减速电机的旋转方向

Direction of rotation of the drive with a backstop

若减速电机带逆止器,规定出减速电机的旋转方向是很必需的。按下列标识:

从输出轴看;顺时针(CW)为向右旋转逆时针(CCW)为向左旋转

If the drive has a RS backstop, it is necessary to stipulate the direction of drive rotation.

The following definition applies:

Looking onto the output shaft: Clockwise(CW) = Rotating to the right

Counterclockwise(CCW) = Rotating to the left

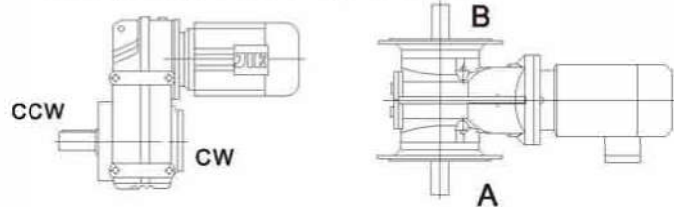


图: 输出轴的旋转方向

Fig: Direction of rotation of the output shaft

对于直角轴型式减速电机,规定出给定的旋转方向是从A端看还是从B端看的,这是非常必要的。In right-angle gear units, it is necessary to indicate if the direction of rotation is given where be looked from the A or B end.

输出轴的位置

Position of the output shaft

对于直角轴型减速机,规定出出轴方向是必需的.:A或B,还是A+B(见图)

In right-angle gear units, it is necessary to indicate the position of the output shaft and output flange: A or B or A+B

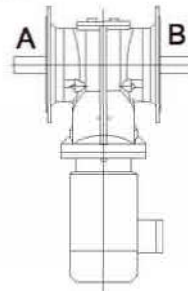


图:出轴方向

Fig.:Position of the output shaft

带锁紧盘的轴装直角轴减速机

Position of the connection end in right-angle gear units with shrink disk

对于轴装式带锁紧盘的直角轴型式减速电机,规定出A端还是B端为连接端并且连接端是否有法兰是必要的。在图中,A端是连接端,锁紧盘在连接端对面。

In shaft mounted right-angle gear units with shrink disk, it is necessary to indicate

whether the A or B end is the connection end. In Fig.20 the A end and is the connection end. The shrink disk is located opposite the connection end.

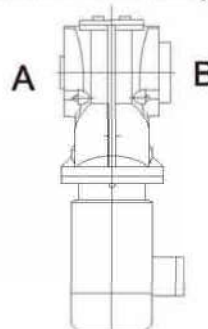


图:连接端的位置

Fig.:Position of the connection end



订购实例
Sample orders

对于JRTK167/JRTK187来讲, 安装方式为M5和M6时, 连接端只能是在底部连接。
Connection end at bottom only is possible with K167/K187 helical-bevel gear units in mounting positions M5 and M6.

类型 Type	安装位置 Mounting position	连接端 Shaft with	锁紧盘位置 Position of Shrink disk	法兰 Flange	接线位置 Position of terminal box	出线嘴位置 Position of cable entry	旋转方向 rotation direction	出轴方向 Out put shaft direction
JRTKF47D71S4/RS	M5	A	-	B	0°	"Normal"	CW	A
JRTSF97D180M4	M2	A+B	-	A+B	180°	"2"	-	A+B
JRTKH107DS180S4	M1	-	B	-	270°	"3"	-	-

所有符号的含义
Symbols used

下表列出, 在安装位置上的符号及其含义
The following table shows the symbols used in the mounting position sheets and what they mean:

符号 Symbol	含义 Meaning
	通气器 Breather valve
	油标 Oil level plug
	放油螺塞 Oil drain plug
	进线位置 In line plug

溅油功能失常
Churning losses



在组合安装方式的减速器中, “*” 发生溅油功能失常的机会较高。下列情况下, 请与JIE联系。
In creased churning losses may arise in some mounting positions, please contact JIE in case of the following combinations.

安装位置 Mounting position	减速机型号 Gear unit type	减速机规格 Gear unit size	输入速度(rpm) Input speed
M2, M4	JRTR	97-107	> 2500
		> 107	> 1500
M2, M3, M4, M5, M6	JRTF	97-107	> 2500
		> 107	> 1500
	JRTK	77-107	> 2500
		> 107	> 1500
JRTS	77-97	> 2500	

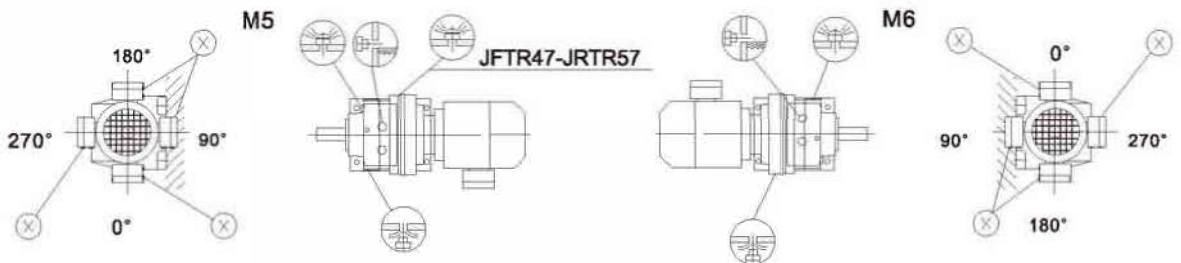
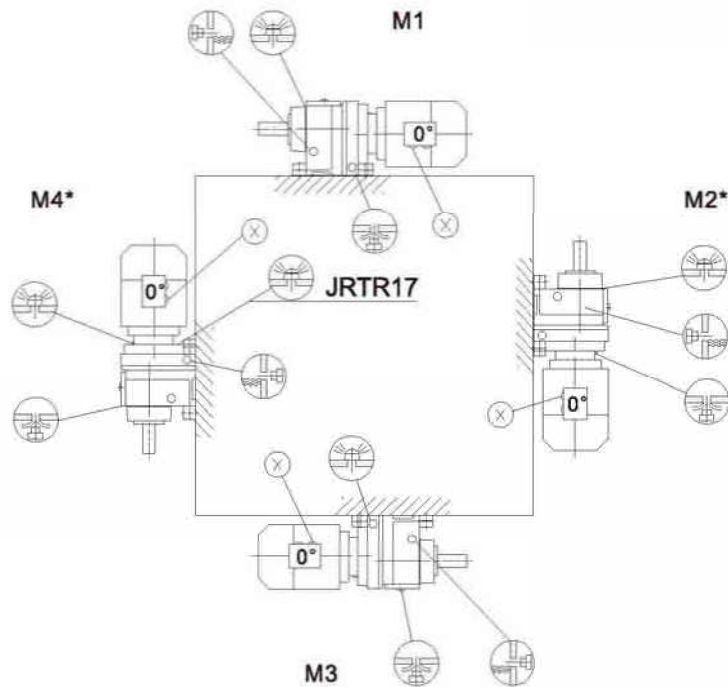
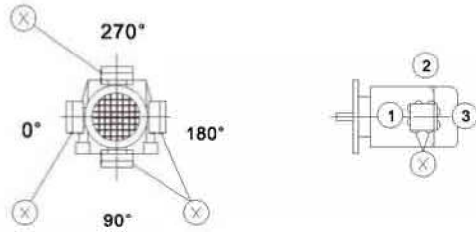
润滑油检查和维护的周期
Oil inspection and maintenance intervals

维护周期 Frequency	操作方式 What to do
首次运行300小时 After 300 hours initial operating	箱体清洗干净后换油 cleaning house, then change oil
每6个月或工作3000小时 Every 3000 machine hours, at least every 6 months	检查油 Check oil and oil level
取决于运行条件 检查周期不得长于3年 Depending on the operating conditions every 3 years at the latest	更换矿物油 Change mineral oil
	更新耐磨轴承润滑脂 Replace anti-friction bearing grease Replace oil seal
取决于运行条件 检查周期不得长于5年 Depending on the operating conditions every 5 years at the latest	更换合成油 Change synthetic oil
	更新耐磨轴承润滑脂 Replace anti-friction bearing grease Replace oil seal
JRTR17/27和JRTF27系列免维护 JRTR17/27 and JRTF27 are have lubrication for life and are therefore maintenance-free	



10.2 斜齿轮减速电机安装位置 Mounting position of Helical gear units

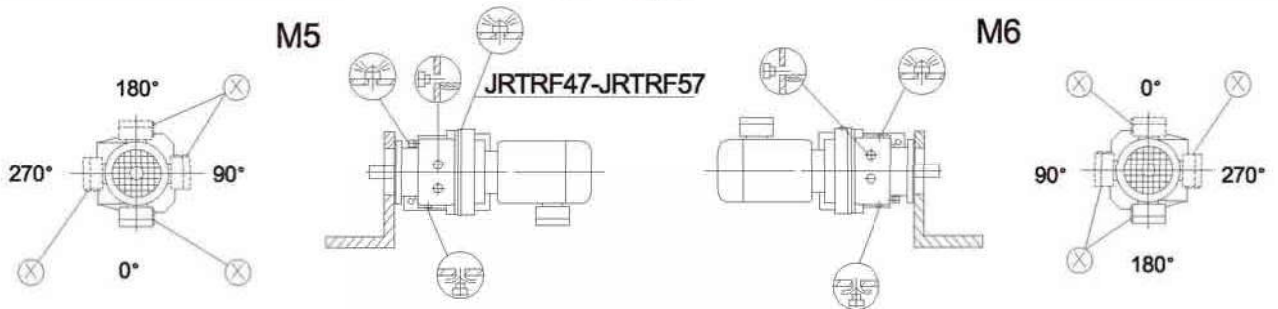
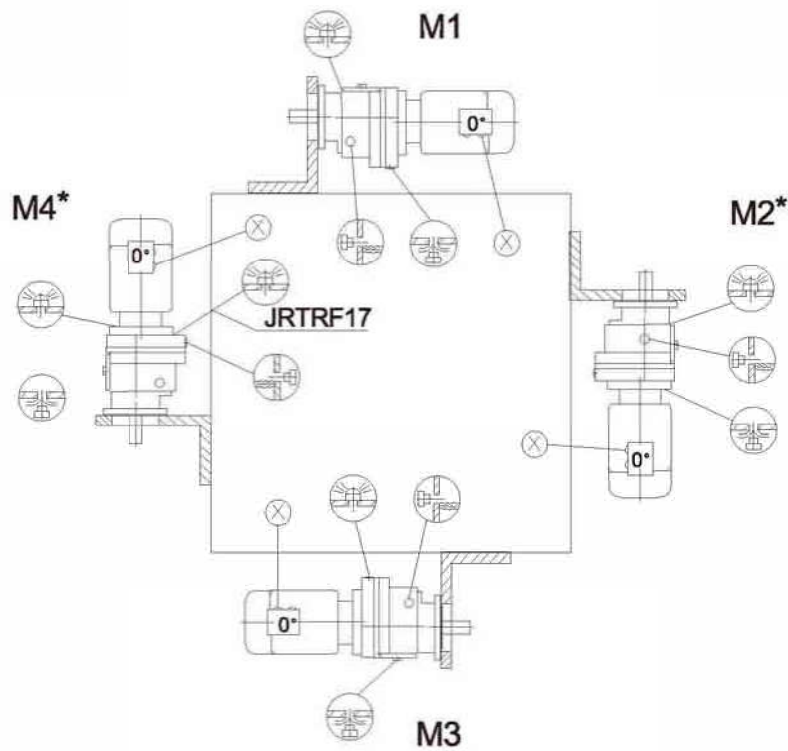
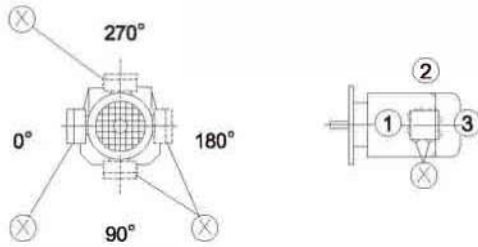
JRTR17-JRTR187



JRTR17, JRTR27		M1, M3, M5, M6
JRTR47, JRTR57		M5
JRTR17, JRTR27		

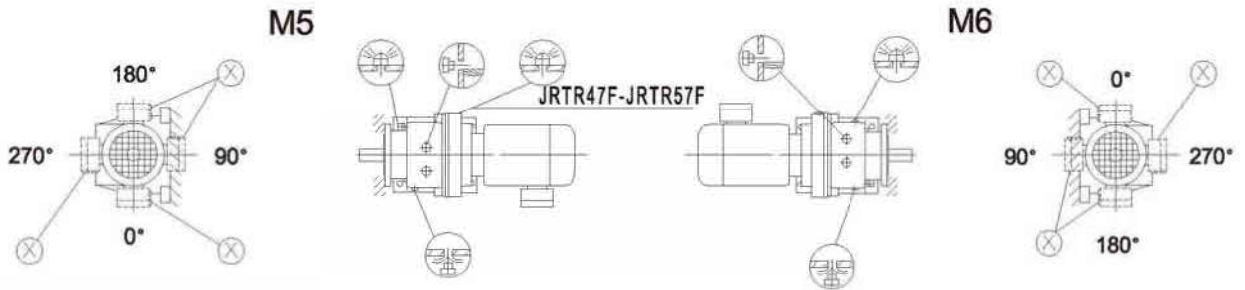
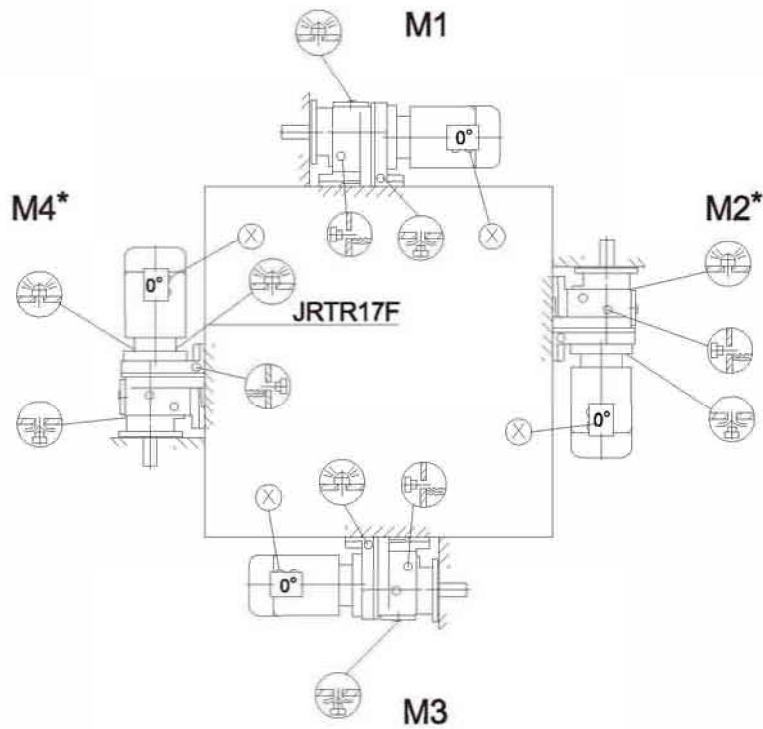
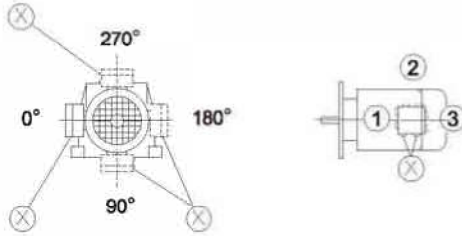


JRTR17-JRTR187



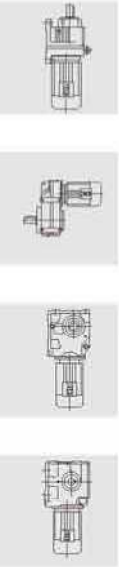
- | | | |
|------------------|--|----------------|
| JRTRF17, JRTRF27 | | M1, M3, M5, M6 |
| JRTRF47, JRTRF57 | | M5 |
| JRTRF17, JRTRF27 | | |

JRTR17F~JRTR87F

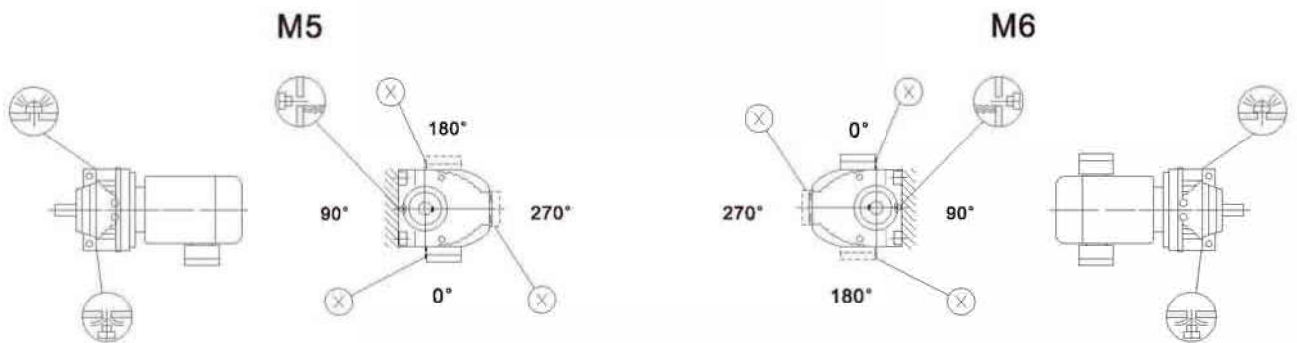
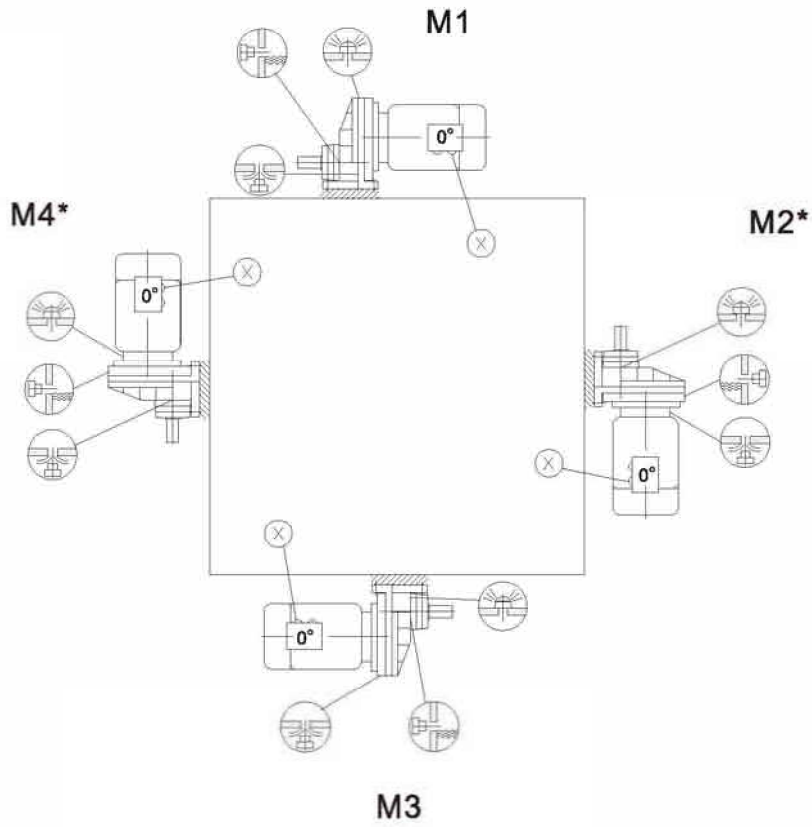
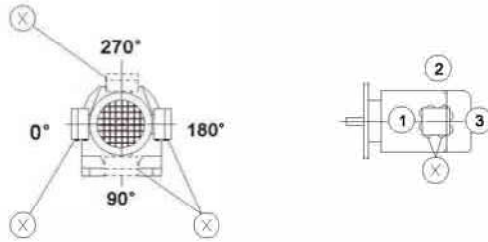


- | | | |
|-------------------|--|----------------|
| JRTR 17F, JRTR27F | | M1, M3, M5, M6 |
| JRTR 47F, JRTR57F | | M5 |
| JRTR 17F, JRTR27F | | |



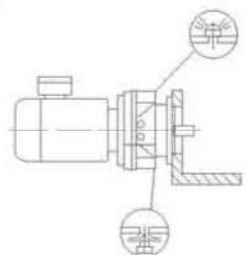
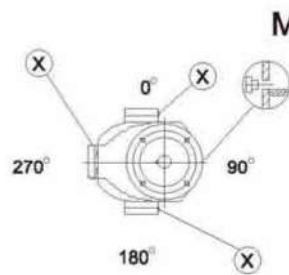
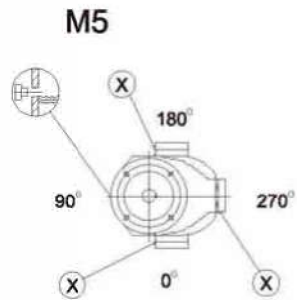
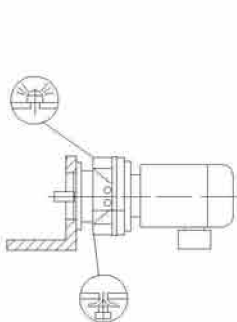
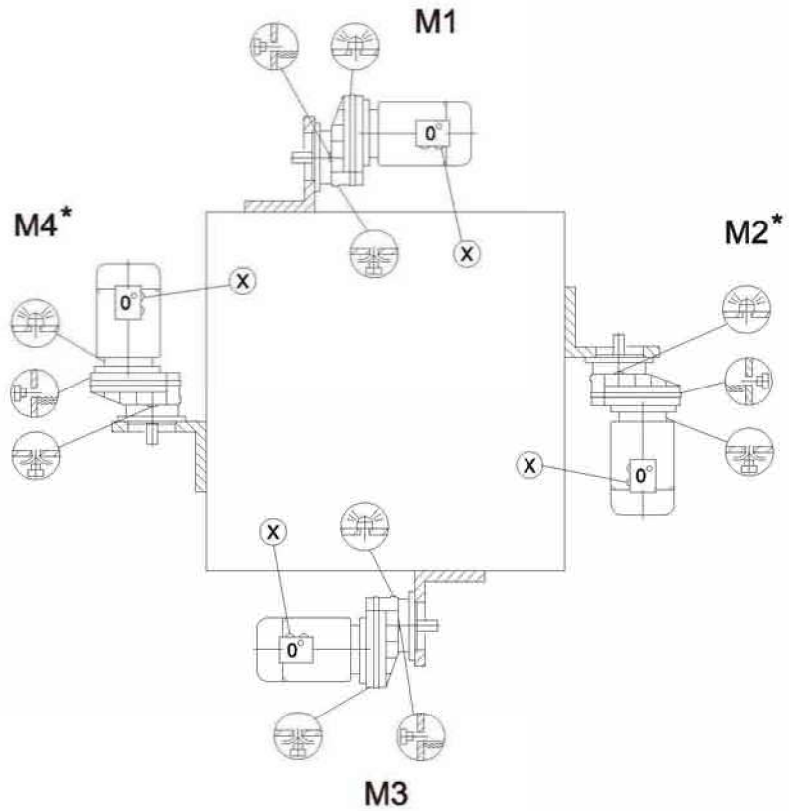
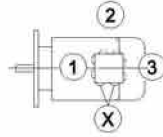
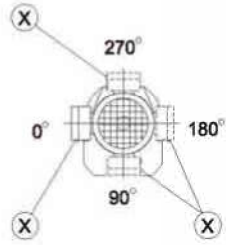


JRTRX57~JRTX107



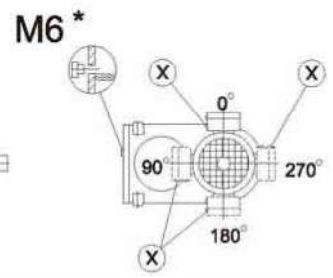
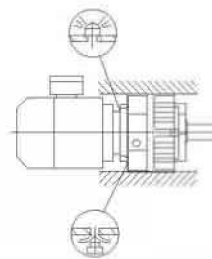
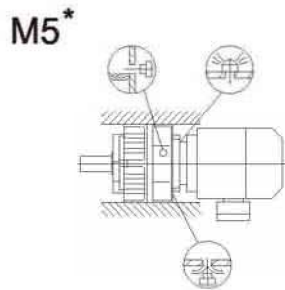
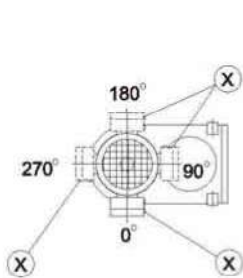
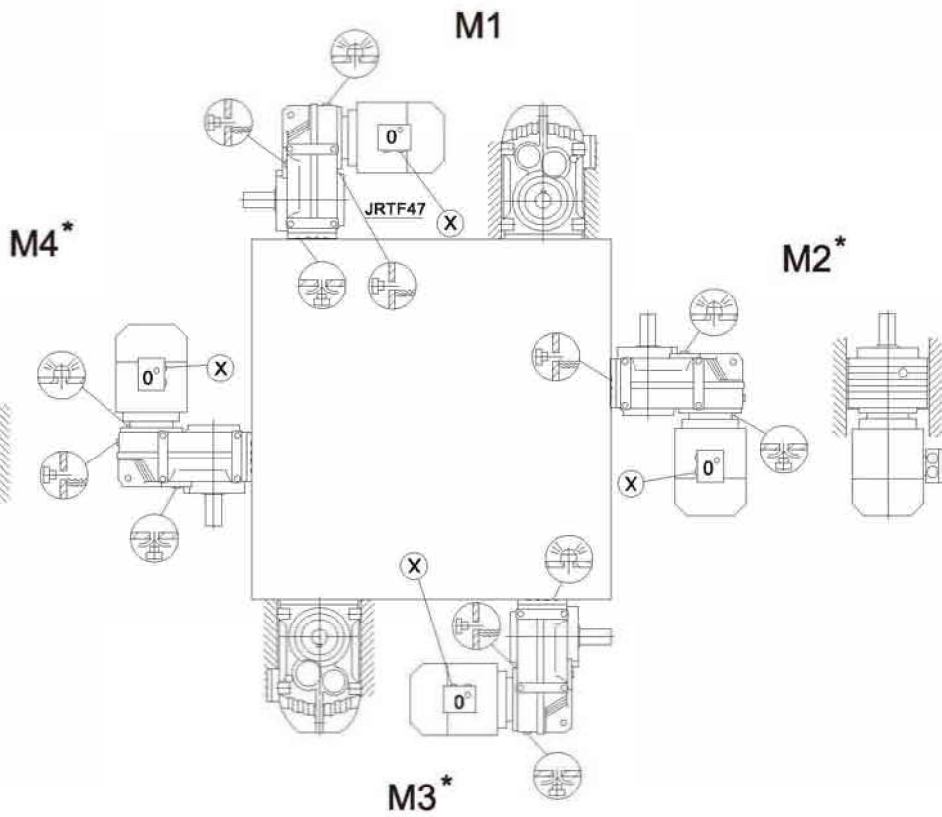
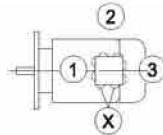
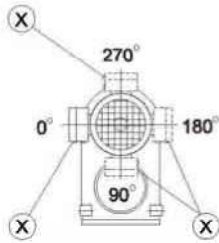


JRTRXF57~JRTRXF107



10.3 平行轴斜齿轮减速电机安装位置 Mounting positions of parallel shaft helical Gear unit

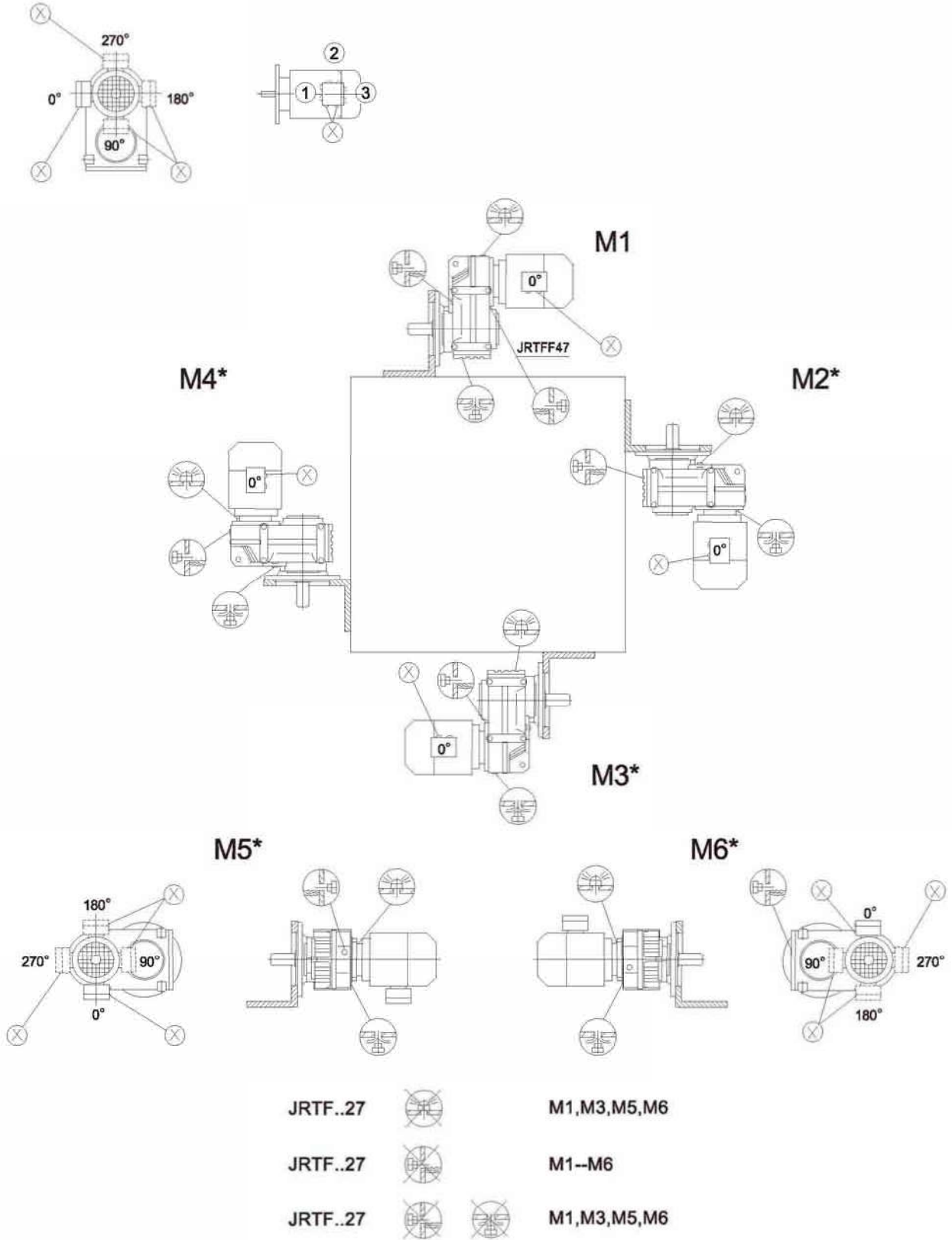
JRTF/FA..B/FH27B-177B, JRTFV27B-107B



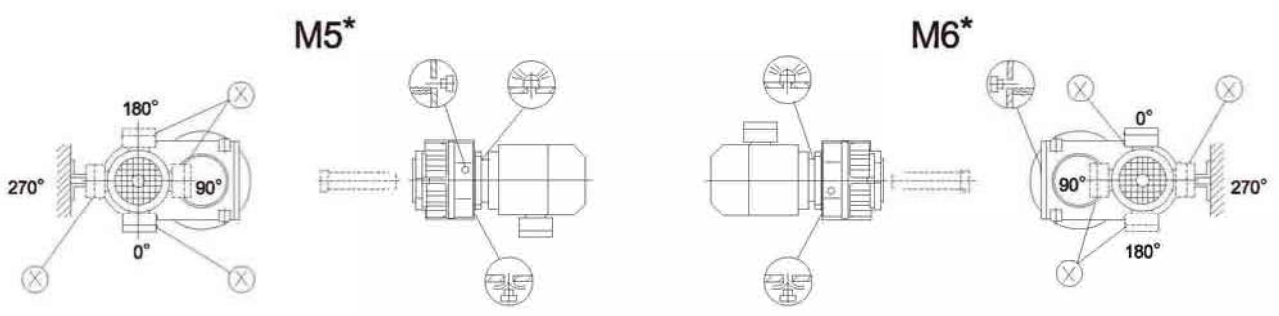
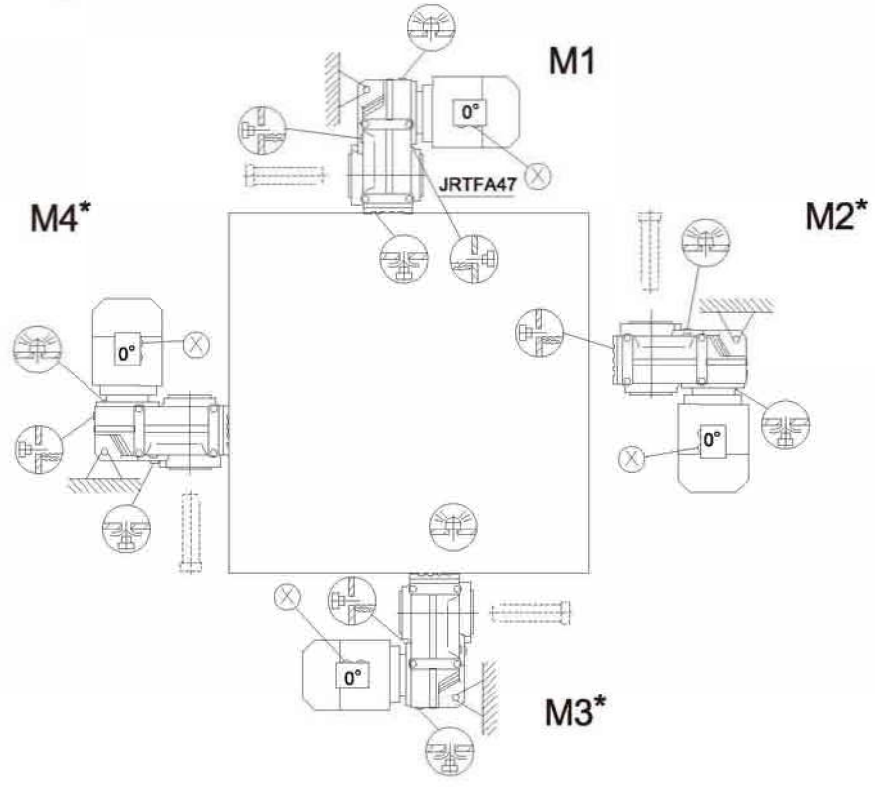
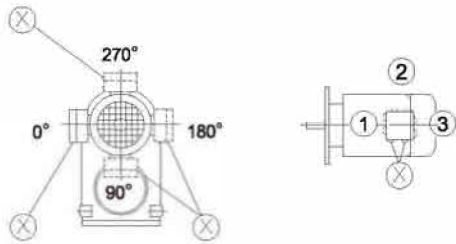
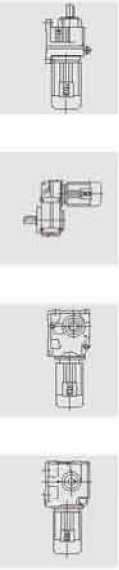
JRTF..27		M1, M3, M5, M6
JRTF..27		M1-M6
JRTF..27		M1, M3, M5, M6



JRTFF/FAF/FHF/FAZ/FHZ27-177, JRTFVF/FVZ27-107



JRTFA/FH27-177, JRTFV27-107



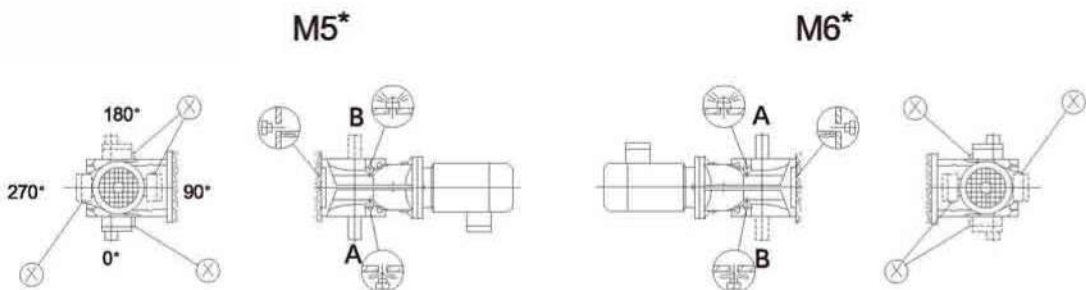
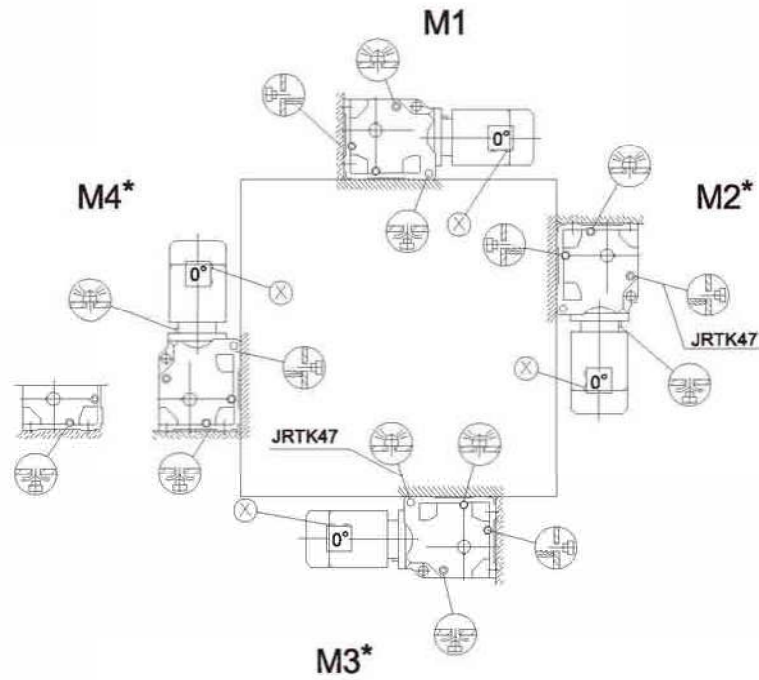
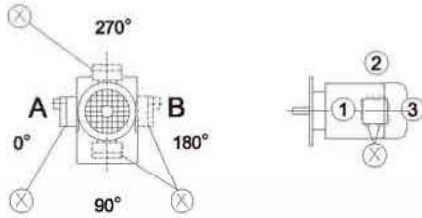
JRTF..27		M1, M3, M5, M6
JRTF..27		M1--M6
JRTF..27		M1, M3, M5, M6

JRT
 系列齿轮减速机
 Series Gearmotors



10.4 斜齿轮-伞齿轮减速电机安装位置 Mounting position of helical-bevel Gear units

JRTK/KA..B/KH47B-157B, JRTKV47B-107B

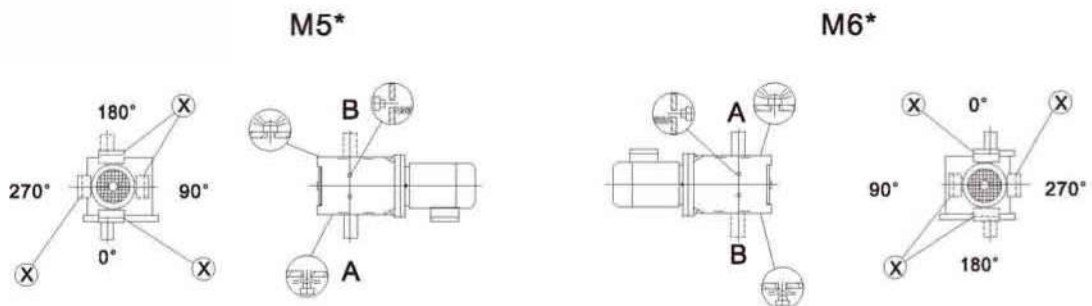
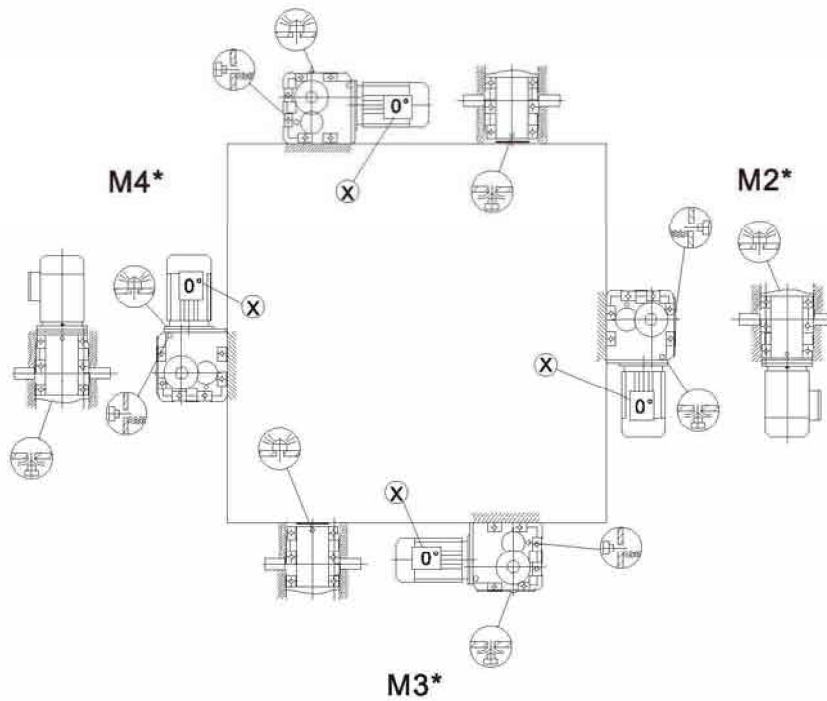
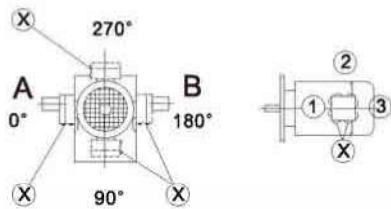


重要: 请参见“减速器选型“中”径向和轴向负载”部分 (P₂₇)

Important: Please refer to the information in the "Geared Motors" catalog. Optional Planning for Gear units Ouerhung and axial loads part" (P₂₇)



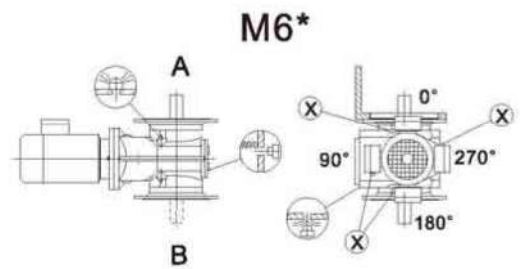
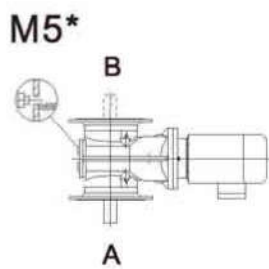
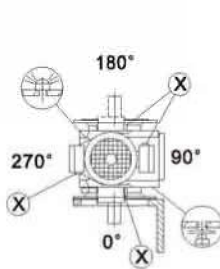
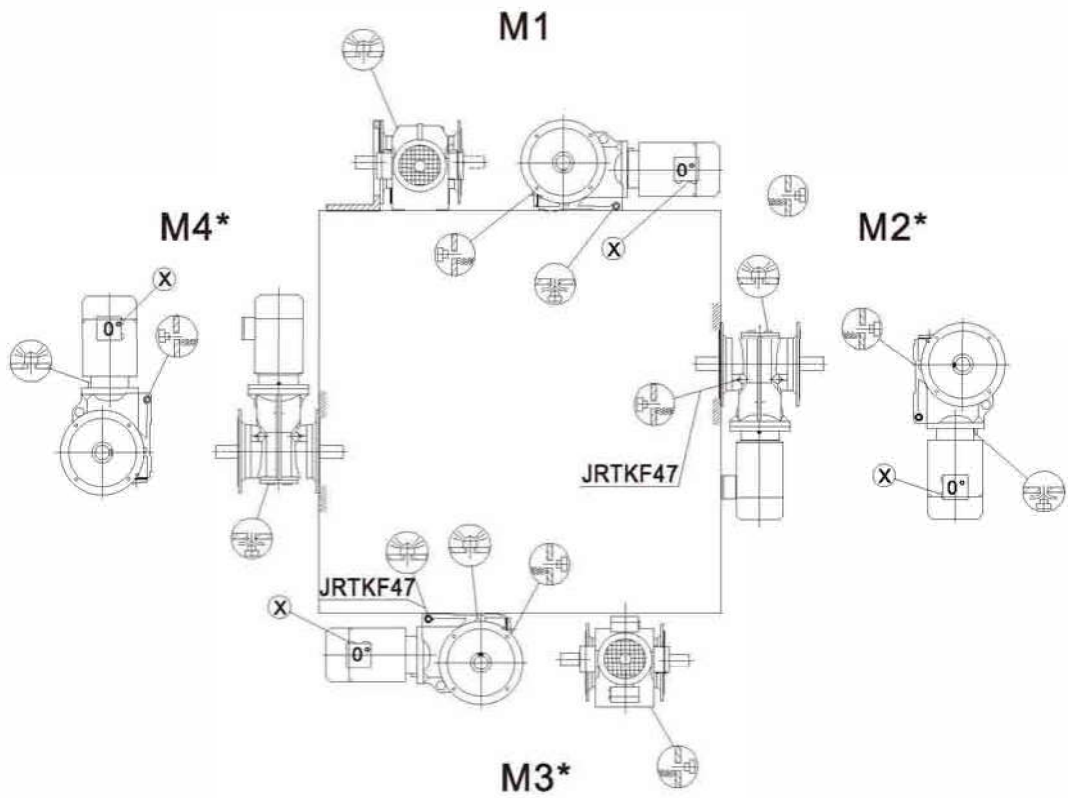
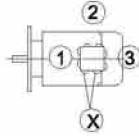
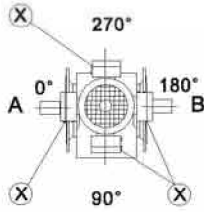
JRTK167-187, JRTKH167B-187B



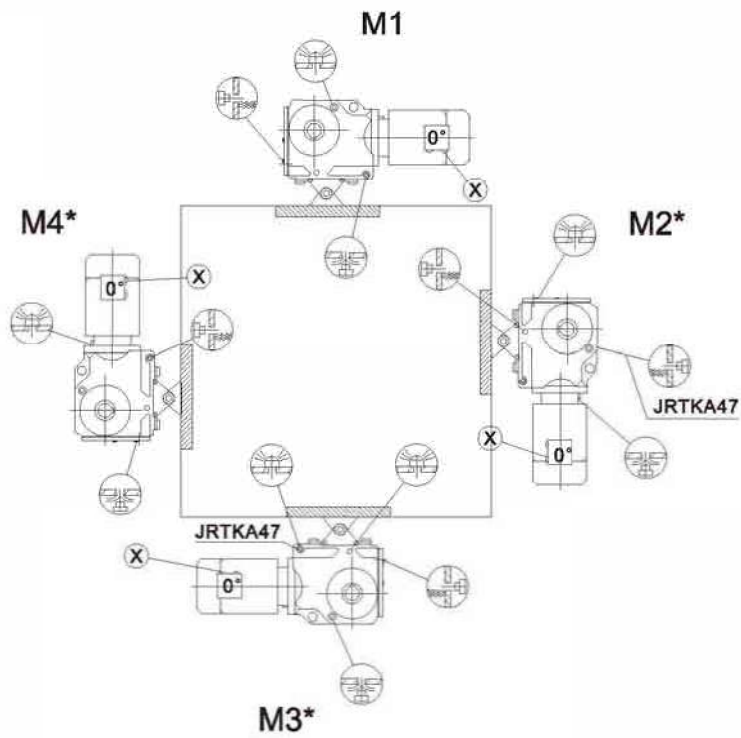
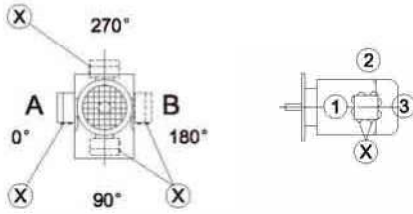
重要:请参见"减速器选型"中"径向和轴向负载"部分(P27)
 Important: Please refer to the information in the "Geared Motors" catalog. "Optional Planning for Gear units Overhung and axial loads" part(P27)



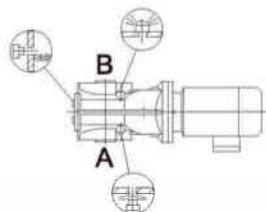
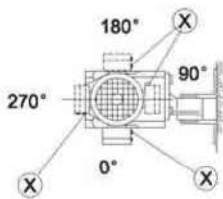
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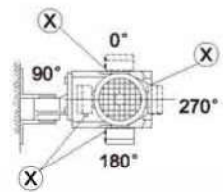
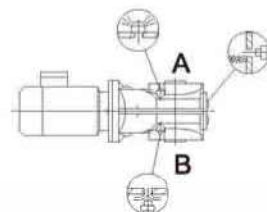
JRTKH/KH37-157, JRTKV37-107



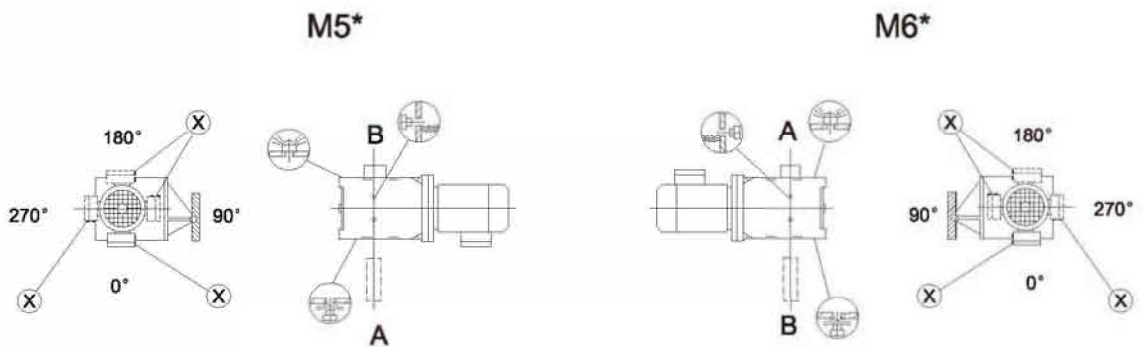
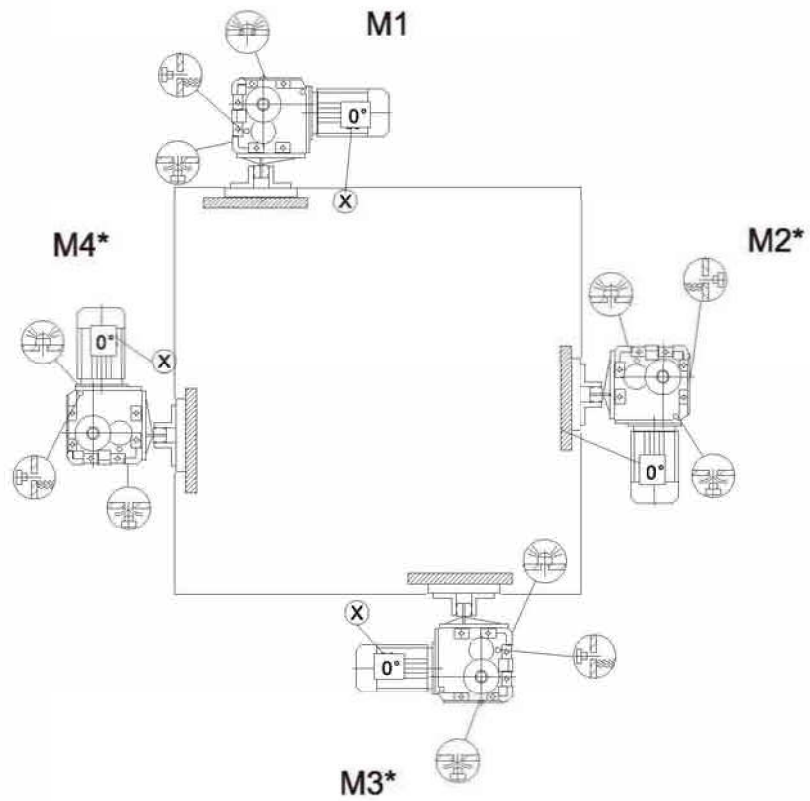
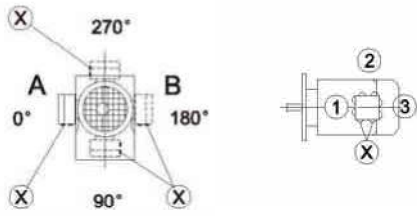
M5*



M6*

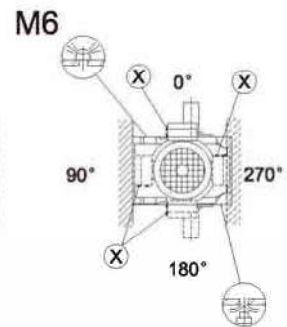
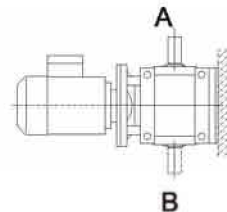
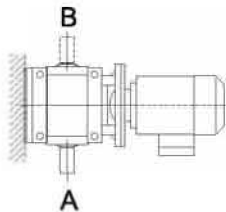
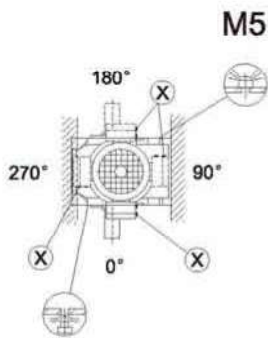
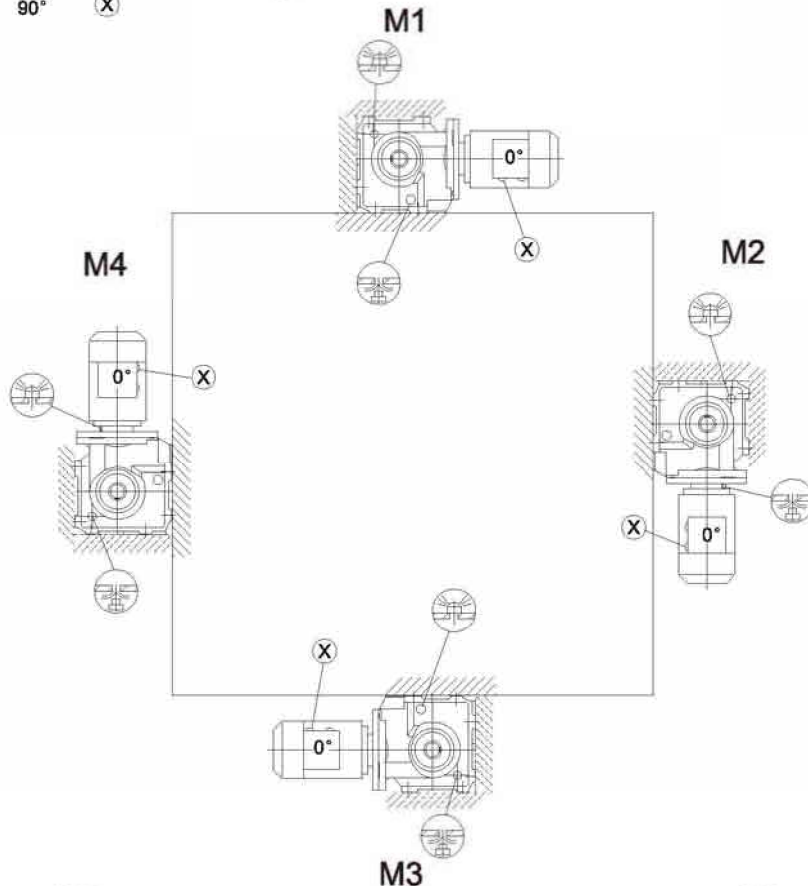
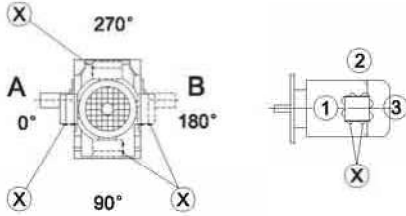


JRTKH167-187



10.5 蜗轮蜗杆减速电机安装位置 Mounting position of Helical-worm Gear motor

JRTS37

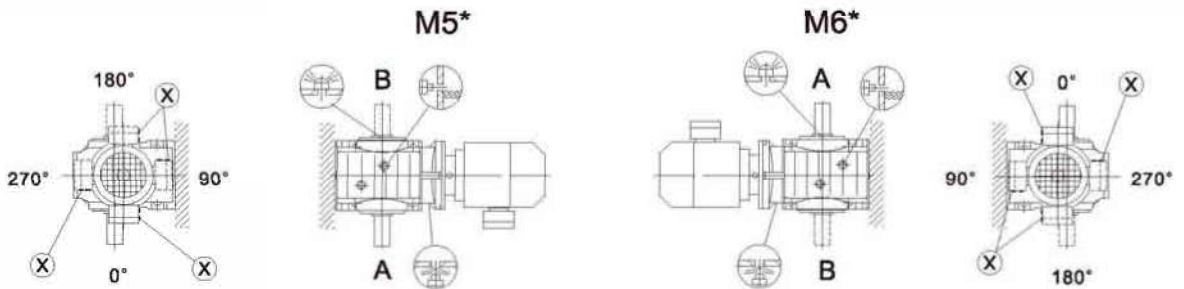
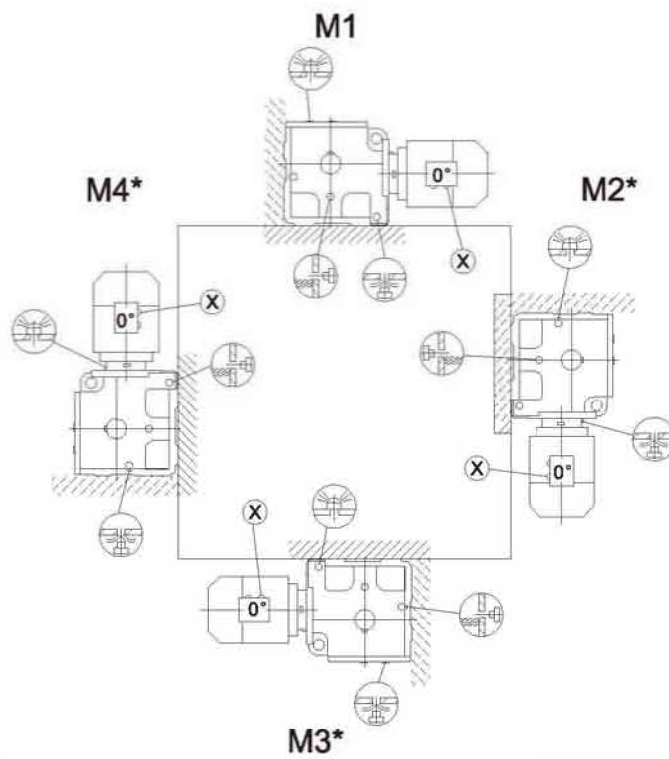
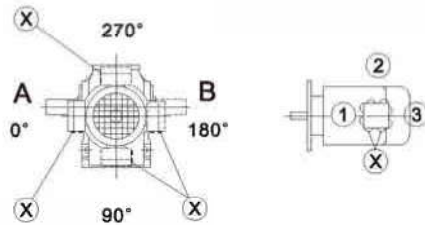


重要:请参见"减速器选型"中"径向和轴向负载"部分(P27)

Important: Please refer to the information in the "Geared Motors" catalog. "Optional Planning for Gear units Overhung and axial loads" part(P27)



JRTS47~JRTS97

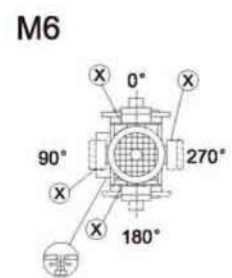
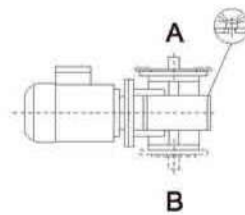
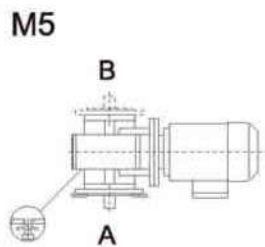
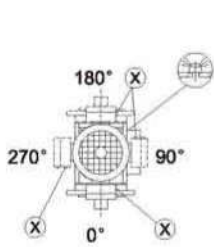
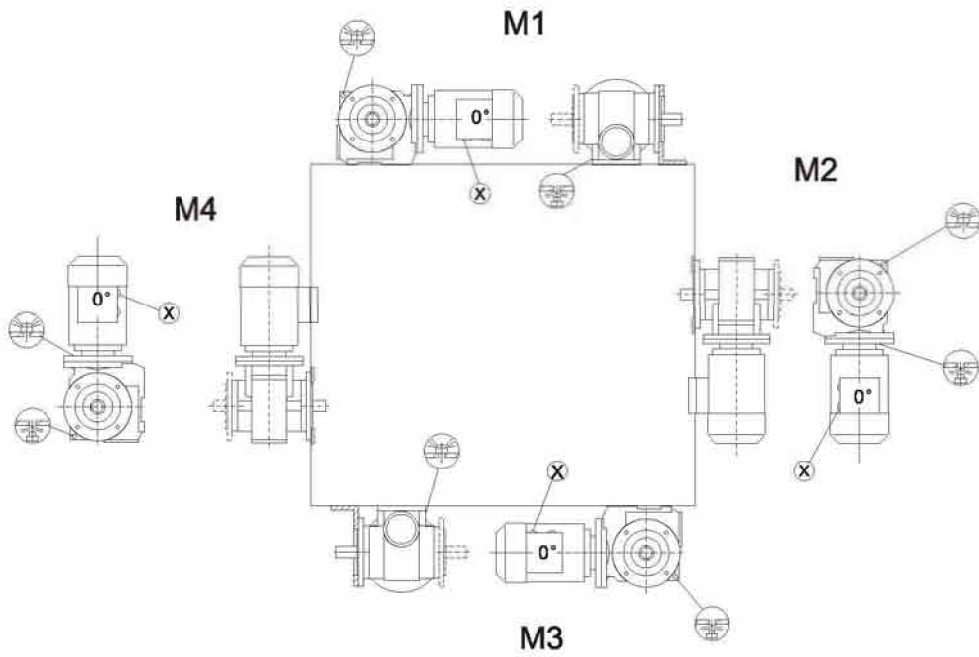
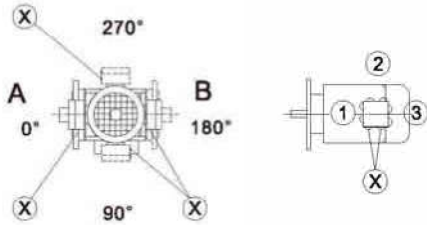


重要:请参见"减速器选型"中"径向和轴向负载"部分 (P27)

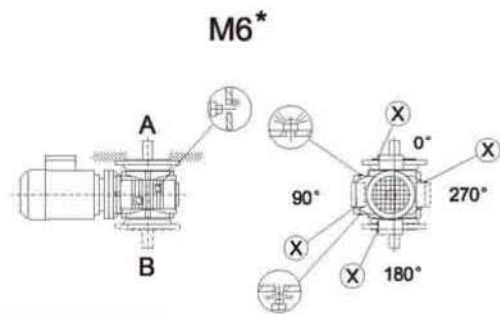
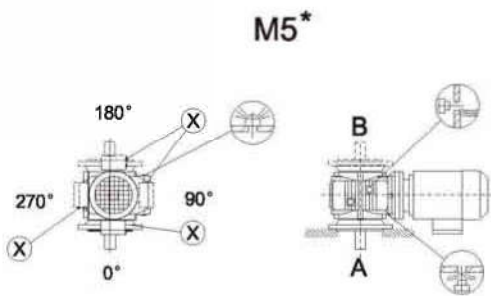
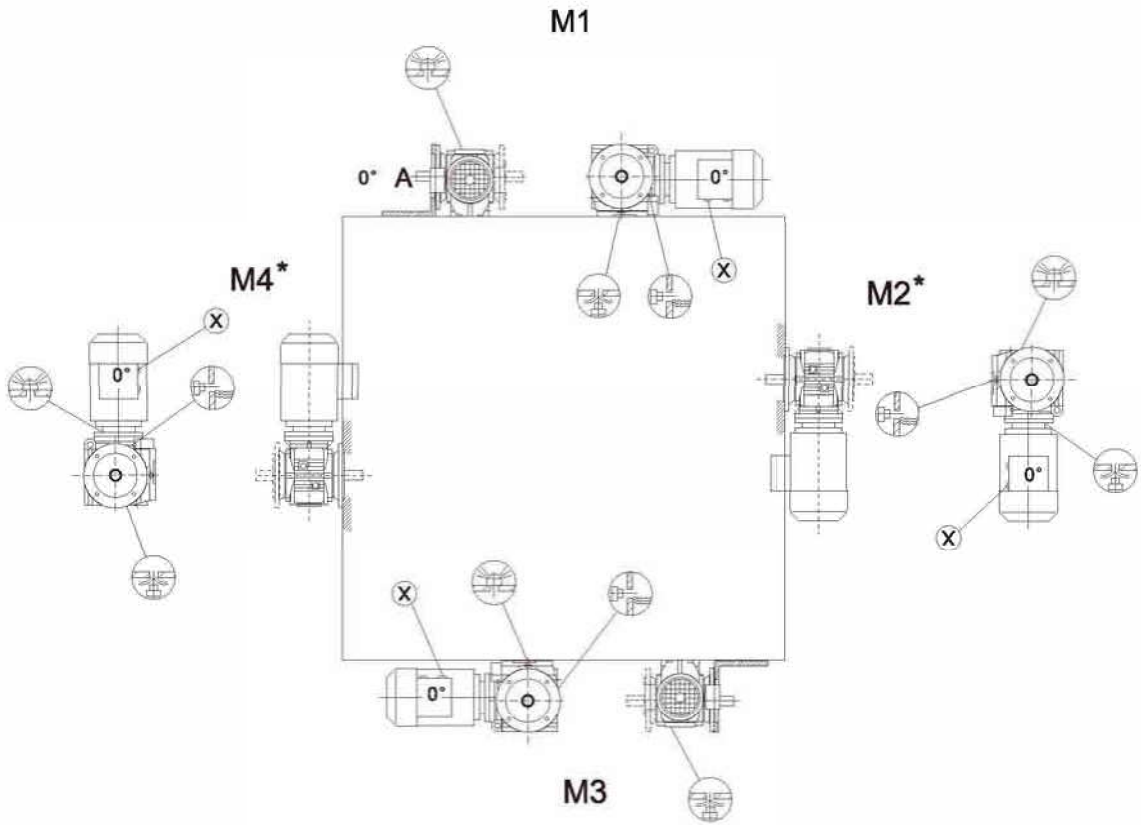
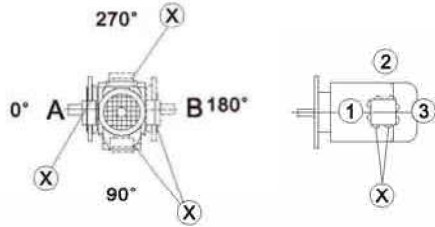
Important: Please refer to the information in the "Geared Motors" catalog. "Optional Planning for Gear units Overhung and axial loads" part(P27)



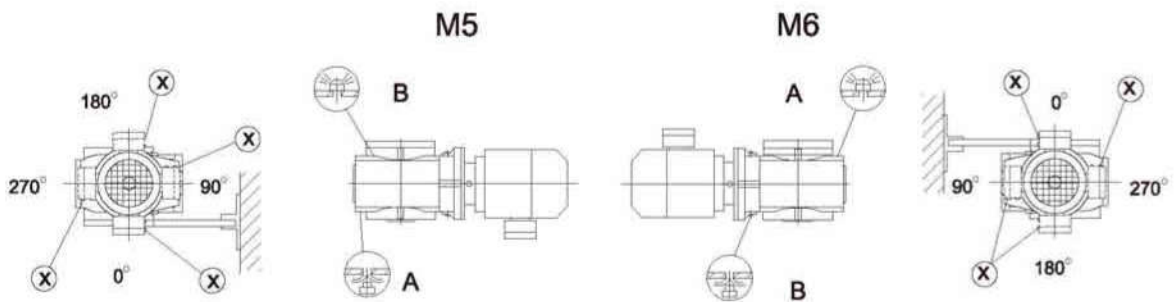
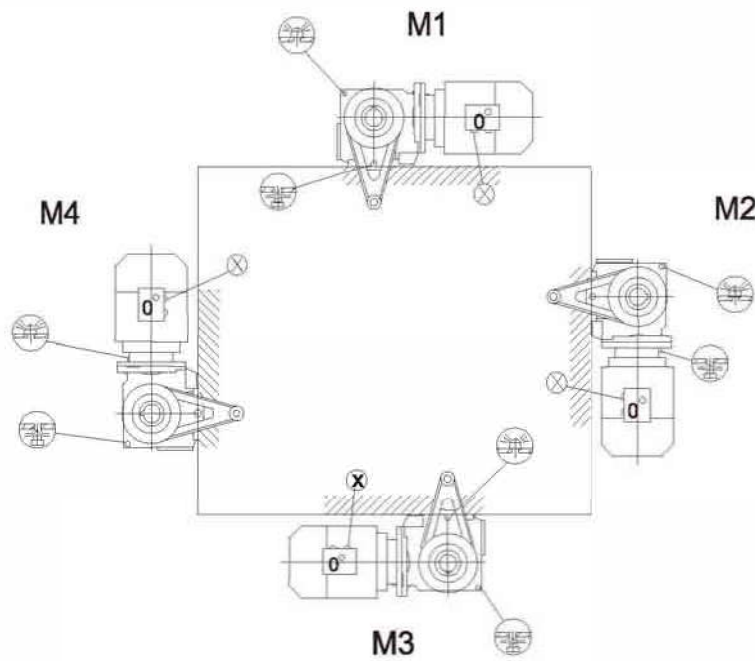
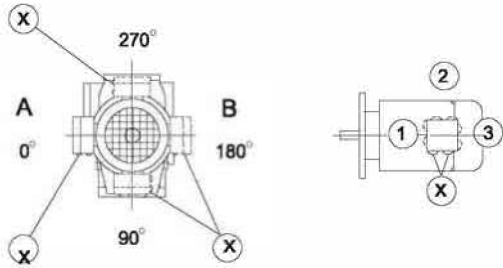
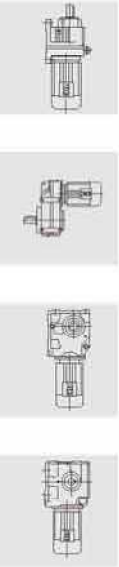
JRTSF/SAF/SHF37



JRTSF/SAF/SHF/SAZ/SHZ47...97...

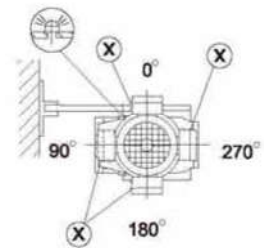
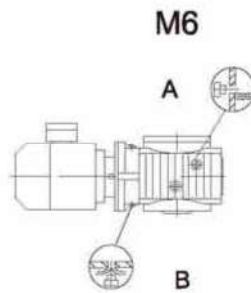
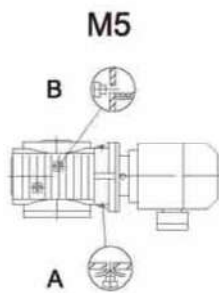
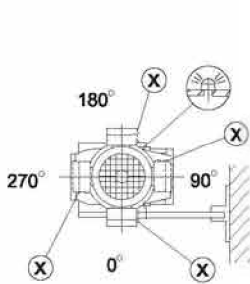
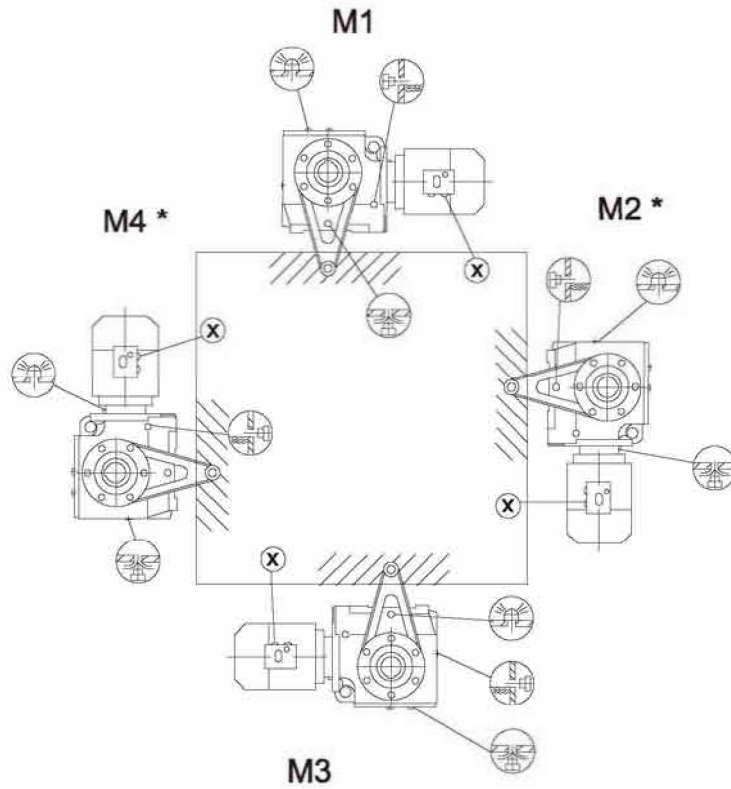
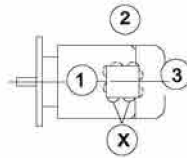
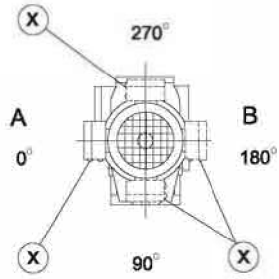


JRTSA/SH37



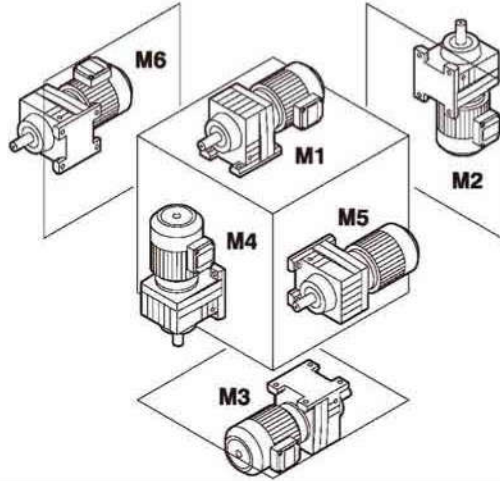
JRT
 系列齿轮减速电机
 Series Gearmotors

JRTSA/SH47...-97..

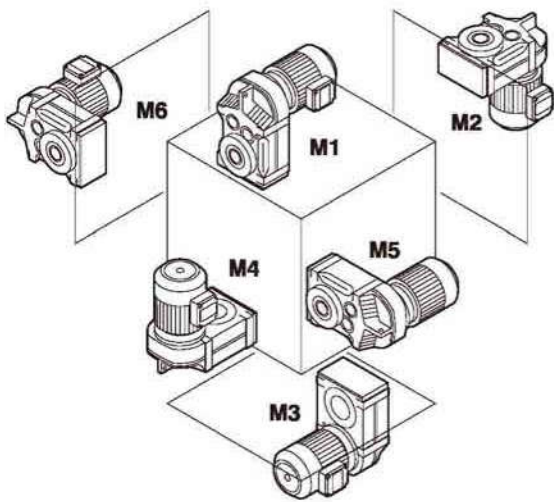
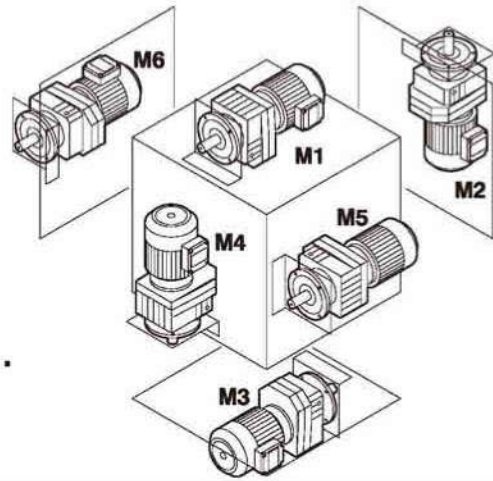


JRT
系列齿轮减速电机
Series Gearmotors

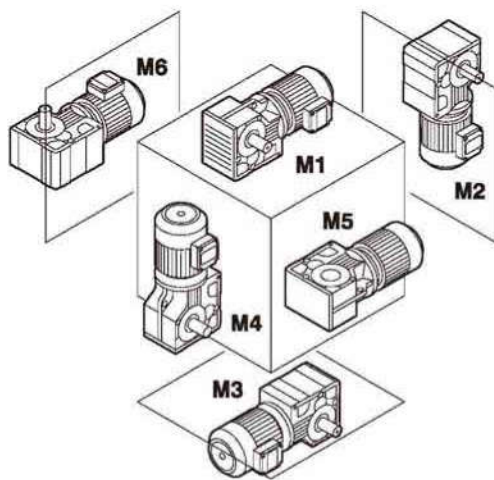
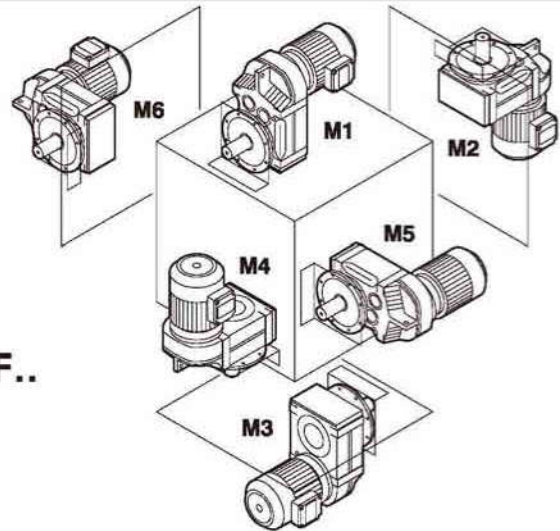
安装位置示意图
 Schematic diagram of the installation location



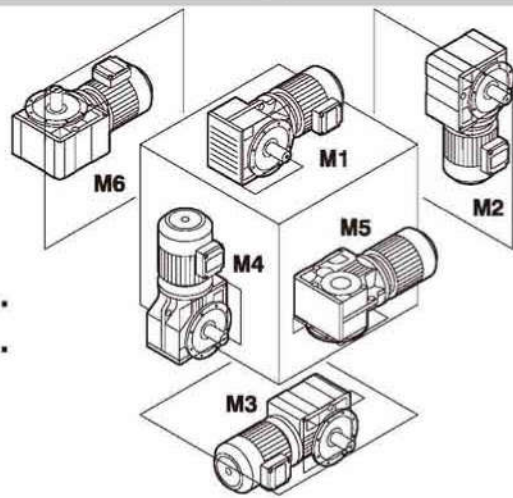
JRTR..



JRTRF..



JRTK..
 JRTS..







11. 尺寸信息 Information on dimension sheets

范围的分类

Scope of classification

-  = JIE作为标准部件提供
Standard parts supplied by JIE
-  = JIE不作为标准部件提供
Standard parts unsupplied by JIE

中心高公差

Shaft heights tolerances

- h ≤250mm →-0.5mm
- h >250mm →-1mm

地脚安装减速机：当配有电机时，电机可能已凸出到安装平面以下，请注意检查。
Foot-mounted gear units: The motor may project below the mounting surface when fitted, please check

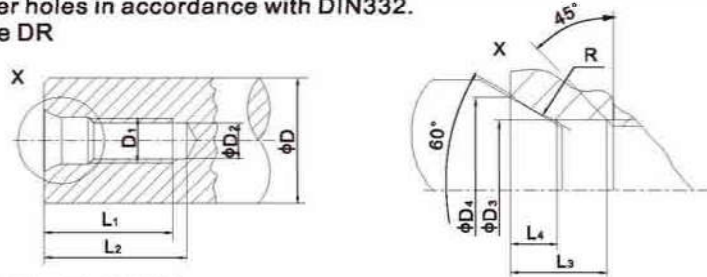
轴公差

Shaft tolerance

直径公差
Diameter tolerance

- φ ≤50mm →ISOk6
- φ >50mm →ISOm6

按照DIN332标准有DR型中心孔：
Center holes in accordance with DIN332. shape DR



需要GB或ISO标准，请咨询本公司。
If you need GB or ISO Standard, Please contact with us.

输出轴直径 φD Diameter of Output shaft	D1	D2	D3	D4	R	L1 +2	L2 min	L3	L4 ≈
φ D=7-10mm	M3	2.5	3.2	5.3	4.0	9.0	12.0	2.6	1.8
φ D> 10-13mm	M4	3.3	4.3	6.7	5.0	10.0	14.0	3.2	2.1
φ D> 13-16mm	M5	4.2	5.3	8.1	6.3	12.5	17.0	4.0	2.4
φ D> 16-21mm	M6	5.0	6.4	9.6	8.0	16.0	21.0	5.0	2.8
φ D> 21-24mm	M8	6.8	8.4	12.2	10.0	19.0	25.0	6.0	3.3
φ D> 24-30mm	M10	8.5	10.5	14.9	16.0	22.0	30.0	7.5	3.8
φ D> 30-38mm	M12	10.2	13.0	18.1	20.0	28.0	37.0	9.5	4.4
φ D> 38-50mm	M16	14.0	17.0	23.0	25.0	36.0	45.0	12.0	5.2
φ D> 50-85mm	M20	17.5	21.0	28.4	31.5	42.0	53.0	15.0	6.4
φ D> 85-130mm	M24	21.0	25.0	34.2	40.0	50.0	63.0	18.0	8.0
φ D> 130mm	M30	26.5	31.0	42.6	50.0	63.0	85.0	20.0	10.0

空心轴

Hollow shaft

键：根据DIN6885确定（圆头平键）（需要GB或ISO标准，请咨询本公司。）
keys: In accordance with DIN6885 (domed type)
(If you need GB or ISO Standard, Please contact with us.)

直径公差
Diameter tolerance

- φ →ISOH7塞规测量
ISO H7 measured with plug gauge

花键轴

Multitple-spine shafts

- Dm =测量棒直径 Measuring roller diameter
- Me =检测尺寸 Inspection size



法兰
Flanges

止口公差 Centering shoulder tolerance

$\phi \leq 230\text{mm}$ (flange size A 120-A300) →ISOj6

$\phi > 230\text{mm}$ (flange size A 350-A660) →ISOH6

对于每个规格的斜齿轮减速机、交流(制动)电机和防爆(制动)电机最多可提供三种不同尺寸的法兰，每种法兰的尺寸见相关尺寸表。

Up to three different flange dimensions are available for each size of helical gear units AC (brake) motor and explosion-proof AC (brake) motor. The possible flanges per size are indicted in the relevant dimension sheets

起吊螺栓及吊耳
lifting eyebolts, suspension eye lugs

JRTR17和JRTR27减速机,电机机座号小于100的减速电机没有配备专门的运输吊装工具、其它的减速机和电机配有铸造的吊装孔,用螺栓固定在机体上的吊耳或吊环。

R17...R27 helical gear units, motors up to DV100 and Spiroplan geared motors are delivered without special transport fixtures. Otherwise, the gear units and motors are equipped with cast-on suspension eye lugs, screw-on suspension eye lugs or screw-on lifting eyebolts.

减速机/电机型号规格 Gear unit/motor type	吊环/吊耳 Screw-on lifting eyebolts /suspension eye lugs	铸造吊装孔 Cast-on suspension eye lugs
JRTR/JRTRF37-57, JRTRX/JRTRXF57-67	●	—
> JRTR67	●	—
JRTF37-157	—	●
JRTK37-157	●	—
JRTK167-187	●	—
JRTS37-47	●	—
JRTS57-97	—	—
> D112	●	●

通气阀
Breather valves

减速机尺寸图总是显示为螺塞，相应的螺塞在出厂前按照其定货要求的安装位置更换为通气阀。这意味着减速机的外形尺寸图稍有不同。

The gear unit dimension drawings are always shown with screw plugs. The corresponding screw plug is replaced by a breather valve at the factory depending on which mounting position M1-M6 is ordered. This means the contour dimensions may be slightly different.

锁紧盘连接
Shrink disk connection

对于锁紧盘连接的空心轴减速机:若需要可向JIE索要关于锁紧盘的详细数据表。
Hollow shaft gear unit with shrink disk connection: If required, please request a detailed data sheet on shrink disks from JIE, data sheet no. 33 753..95.

花键空心轴
Splined hollow shaft

JRTFV..和JRTKV..减速机从37到107可提供按ISO4762制作的花键空心轴。

Hollow shaft gear units FV.. in sizes 37-107 and KV.. in sizes 37-107 are supplied with a splined hollow shaft to ISO4762.

JRTFA/JRTFH/JRTFV的橡胶缓冲垫
Rubber buffer for FA/FH/FV

f为在力矩Mamax作用下橡胶缓冲垫被压缩的距离尺寸

f stands for the compressed dimension of Rubber buffer in the Mamax torque.

制动电机
Brake motors

配制动电机时,G1B的尺寸代替G1;KB代K

In brake motors, dimensions G1B apply instead of G1 and KB instead of K.



电机附件
Motor accessory

电机的尺寸因不同的电机附件而不同，请参考电机选择的尺寸图。
The motor dimensions may different as a result of motor accessory. Plesase refer to the dimension drawings of the motor accessory.



特殊应用
Special versions

接线盒的尺寸，在特殊应用如KS或CSA时与标准形式的尺寸不同。
The dimensions of the terminal box on special versions such as KS or CSA may different from the standard dimensions.





JRT 齿轮减速电机



JRTR 系列
斜齿轮减速电机
规格: 17~187
传动比: 3.37~289.74
输入功率: 0.12~250 kW
输出扭矩: 2.4~55435 N.m



JRTF 系列
平行轴-斜齿轮减速电机
规格: 37~177
传动比: 3.77~281.71
输入功率: 0.12~250kW
输出扭矩: 3.5~56845N.m



JRH 工业齿轮箱



JRHH 系列
平行轴齿轮箱
规格: 4~26
传动比: 1.25~450
输入功率: 4.3~5082kW
输出扭矩: 6100~900000N.m



JRHB 系列
直交轴齿轮箱
规格: 4~26
传动比: 5~400
输入功率: 2.8~2879kW
输出扭矩: 6100~900000N.m



JRP 行星齿轮箱



JRP 系列
行星齿轮箱
规格: 9~30
传动比: 25~4000
输入功率: 0.4~5970kW
输出扭矩: 22000~1200000N.m



JRPE 系列
行星齿轮箱
规格: 010~320
传动比: 3.08~3301
输入功率: 0.02~111kW
输出扭矩: 1000~25000N.m



JRST 蜗杆减速机



JRSTD 系列
蜗杆减速机
规格: 25~150
传动比: 7.5~100
输入功率: 0.06~15kW
输出扭矩: 2.6~2670N.m



JRST 系列
蜗杆减速机
规格: 25~150
传动比: 7.5~100
输入功率: 0.1~15kW
输出扭矩: 2.6~2670N.m

WP 蜗杆减速机



WPA 系列
蜗杆减速机
规格: 40~250
传动比: 10~60
输入功率: 0.12~33.2kW
输出扭矩: 6~6050N.m



WPS 系列
蜗杆减速机
规格: 40~250
传动比: 10~60
输入功率: 0.12~33.2kW
输出扭矩: 6~6050N.m

JD 电动机



JD..P 系列
配减电机
规格: 63~315
功率: 0.12~200kW
效率: IE2、IE3(0.75~200kW)



JD../E 系列
IEC标准电机
规格: 63~315
功率: 0.12~200kW
效率: IE2、IE3(0.75~200kW)

其它减速机



JRSS 系列
丝杆升降机
规格: 35~150
传动比: 5~40
输入功率: 0.19~16.3kW
起升力: 500~26050Kg



JRTM 系列
伞齿轮转向器
规格: 2~25
传动比: 1~5
输入功率: 0.014~335kW
输入转速: 10~1450r/min



JRGC1501
工程分动箱
传动比:
0.589、0.659、0.756、0.825
输出泵最大扭矩: 1390N.m
行走最大扭矩: 40000N.m



JRGC1301
工程分动箱
输入功率: 400 kW
单泵功率: 210 kW
单泵最大扭矩: 1000N.m
最大输入速度: 3500rpm



JRTK 系列
斜齿轮-伞齿轮减速电机
规格: 37-187
传动比: 3.98~197.37
输入功率: 0.12~200kW
输出扭矩: 10~62800N.m



JRST 系列
斜齿轮-蜗轮蜗杆减速电机
规格: 37-97
传动比: 6.8~288
输入功率: 0.12~22kW
输出扭矩: 11~4650N.m



JRTRX 系列
斜齿轮减速电机
规格: 57~107
传动比: 1.3~8.65
输入功率: 0.12~45kW
输出扭矩: 1.4~990N.m



JRHD 系列
斗式提升机齿轮箱
规格: 5~16
传动比: 25~71
输入功率: 16~1305kW
输出扭矩: 11000~173000N.m



JROKE 系列
棕榈油齿轮箱
传动比: 56、75、80
输入功率: 106、141kW
输出扭矩: 75000N.m



JRHA2SV 系列
空冷岛齿轮箱
规格: 5~14
传动比: 6.3~22.4
输入功率: 76~778kW
输出扭矩: 10500~107000N.m



JRPH 系列
行星齿轮箱
规格: 08~100
传动比: 3.4~2000
输入功率: 75~250kW
输出扭矩: 8000~100000N.m



JRPH 系列
港口机械行星齿轮箱
规格: 08~100
传动比: 3.4~2000
输入功率: 75~250kW
输出扭矩: 8000~100000N.m



JRPN 系列
搅拌机行星齿轮箱
规格: 11~13
传动比: 31.5~100
输入功率: 30~75kW
输出扭矩: 42000~83000N.m



JRSTDB 系列
蜗杆减速机
规格: 25~150
传动比: 7.5~100
输入功率: 0.06~15kW
输出扭矩: 2.6~2670N.m



JRST..-W 系列
蜗杆减速机
规格: 25~150
传动比: 7.5~100
输入功率: 0.1~15kW
输出扭矩: 2.6~2670N.m



JRSTD..-U 系列
蜗杆减速机
规格: 25~150
传动比: 7.5~100
输入功率: 0.06~15kW
输出扭矩: 2.6~2670N.m



WPO 系列
蜗杆减速机
规格: 40~250
传动比: 10~60
输入功率: 0.12~33.2kW
输出扭矩: 6~6050N.m



WPX 系列
蜗杆减速机
规格: 40~250
传动比: 10~60
输入功率: 0.12~33.2kW
输出扭矩: 6~6050N.m



WPW 系列
蜗杆减速机
规格: 40~250
传动比: 10~60
输入功率: 0.12~33.2kW
输出扭矩: 6~6050N.m



JD./BE 系列
制动电机
规格: 63~315
功率: 0.12~200kW
效率: IE2、IE3(0.75~200kW)



JDB. 系列
防爆电机
规格: 80~315
功率: 0.75~200kW
防爆等级: Exib II BT4
效率: IE2、IE3



JDC 系列
伺服电机
规格: 01~13
功率: 0.5~4.2kW
额定扭矩: 2~13N.m



JRESR 系列
不锈钢齿轮减速电机
规格: 37
传动比: 3.41~134.87
输入功率: 0.12~3kW
输出扭矩: 2.4~200N.m



JRESK 系列
不锈钢齿轮减速电机
规格: 37
传动比: 3.97~106.38
输入功率: 0.12~3kW
输出扭矩: 10~200N.m



JRESS 系列
不锈钢蜗杆减速机
规格: 40~90
传动比: 7.5~100
输入功率: 0.09~4kW
输出扭矩: 19~458N.m



JEC 系列
电扶梯主机
规格: 2~15、2~25
传动比: 24.5
效率: ≥96%
使用寿命: 146000h
输出扭矩: 3530~5150N.m

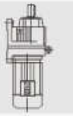


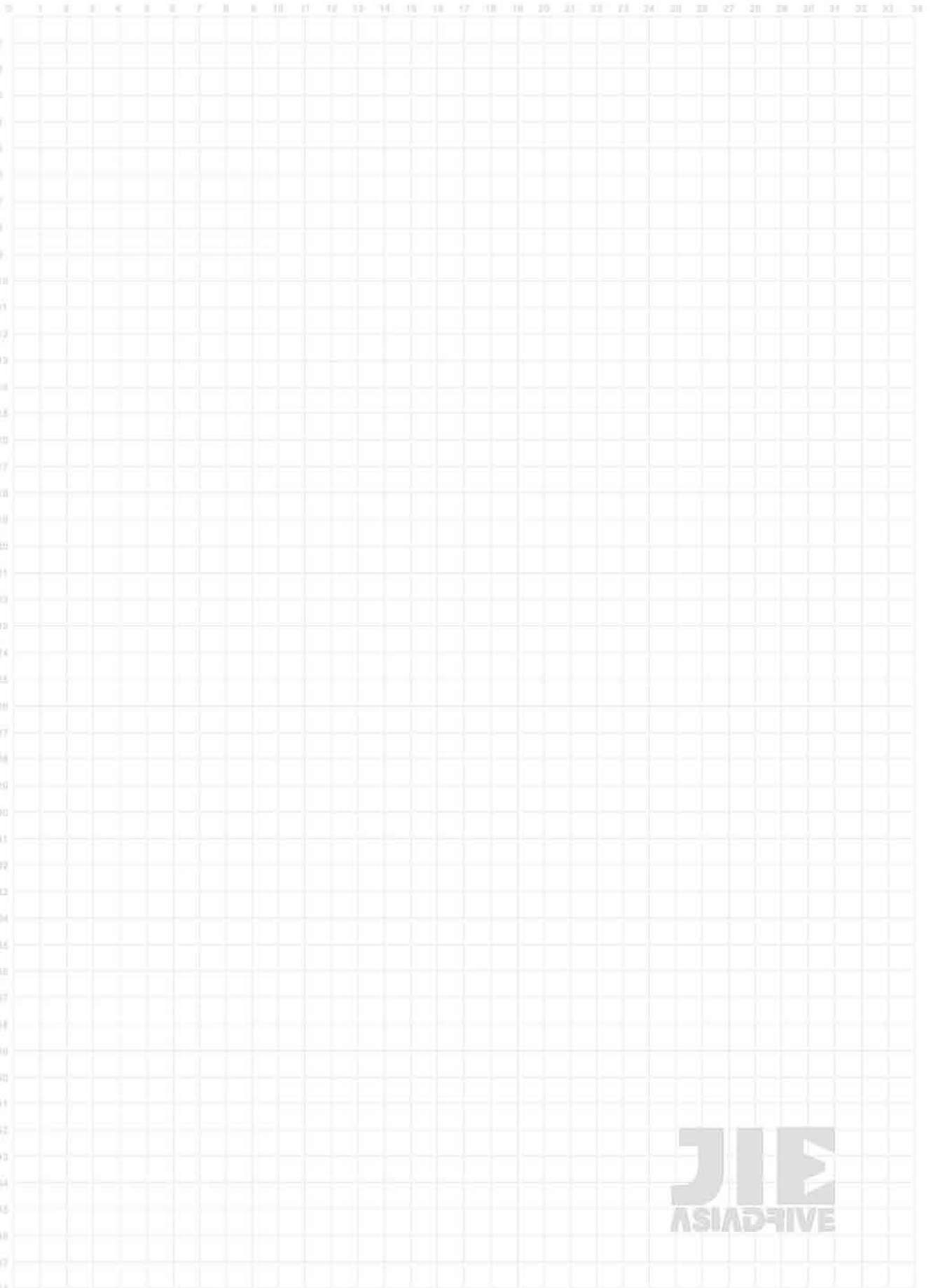
JN 系列
农机齿轮箱
传动比: 0.364~2.33
输入转速: 800rpm
效率: ≥96%



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JRT
 系列齿轮减速电机
 Series Gearmotors

