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秦川机器人减速器 Qinchuan Robot Gear Reducer

秦川机床工具集团股份公司
QINCHUAN MACHINE TOOL&TOOL GROUP CORP.



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秦川机器人减速器

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秦川机床工具集团股份公司

秦川机床工具集团股份公司（股票代码：000837），拥有权属企业秦川机床本部、宝鸡机床、汉江机床、汉江工具、沃克齿轮等多家子公司。集团是我国精密数控机床与复杂工具研发制造基地、中国机床工具行业的龙头骨干企业，以产业链完整、产品线众多、系统集成能力强大、综合竞争优势显著等实力，跻身全球知名机床工具企业集团行列。

作为国家级高新技术企业和创新型试点企业，集团建有国家级企业技术中心、院士专家工作站、博士后科研工作站。先后获得“国家科技进步一等奖”一项，“国家科技进步二等奖”四项，“中国工业大奖项目表彰奖”一项。公司荣获“中国机械工业百强企业”、“陕西百强企业”、“中国产学研合作创新奖”、“中国齿轮行业最具影响力品牌”等荣誉。“秦川QINCHUAN”商标被认定为“中国驰名商标”。集团确立“坚持主机带动，打造高端制造、核心零件强力支撑，突破智能制造及数控关键技术，主动承担国家重大专项研发任务”发展战略和“5221”发展目标，矢志把秦川集团打造成为我国高端装备制造业龙头企业。

秦川BX工业机器人减速器依托公司50余年的精密齿轮磨床和齿轮传动系统研发制造经验积淀，于2014年研发成功，目前已批量生产BX-E、BX-C、BX-F、BX-N等系列共百余种速比机器人关节减速器，拥有百余家机器人及非标化自动集成商，主要用于六轴工业机器人、精密回转机构、机床、医疗设备及非标化自动装置。

Qinchuan Machine Tool and Tool Group (stock code 000837) consists of Qinchuan Machine Tool Head Office, Baoji Machine Tool Group Co.Ltd., Hanjiang Machine Tool Co.Ltd., Hanjiang Tool Corporation Ltd., Worke company and other subsidiaries. Qinchuan Group is Chinese research and manufacturing base of precision CNC machine tools and complex tools and Chinese leading backbone enterprise in machine tool industry. Qinchuan Group ranks among the world-renowned machine tool enterprise groups with complete industrial chain, numerous product lines, strong system integration capability and remarkable comprehensive competitive advantages.

As a state-level high-tech enterprises and innovative pilot enterprises, QCMT&T has a state-level enterprise technology center, academician expert workstation, post-doctoral research workstation. QCMT&T has won one "National Science and Technology Progress First Prize", four "National Science and Technology Progress Second Prize", one "China Industrial Award Project Recognition Award". T QCMT&T won the honors of "Top 100 Enterprises in China's Machinery Industry," "Top 100 Enterprises in Shaanxi Province," "China Industry, Research and Innovation Award" and "Chinese Most Influential Brands in the Gear Industry." "秦川QINCHUAN" trademark is recognized by the State Administration for Industry and Commerce Trademark Office as "Chinese well-known trademarks." QCMT&T

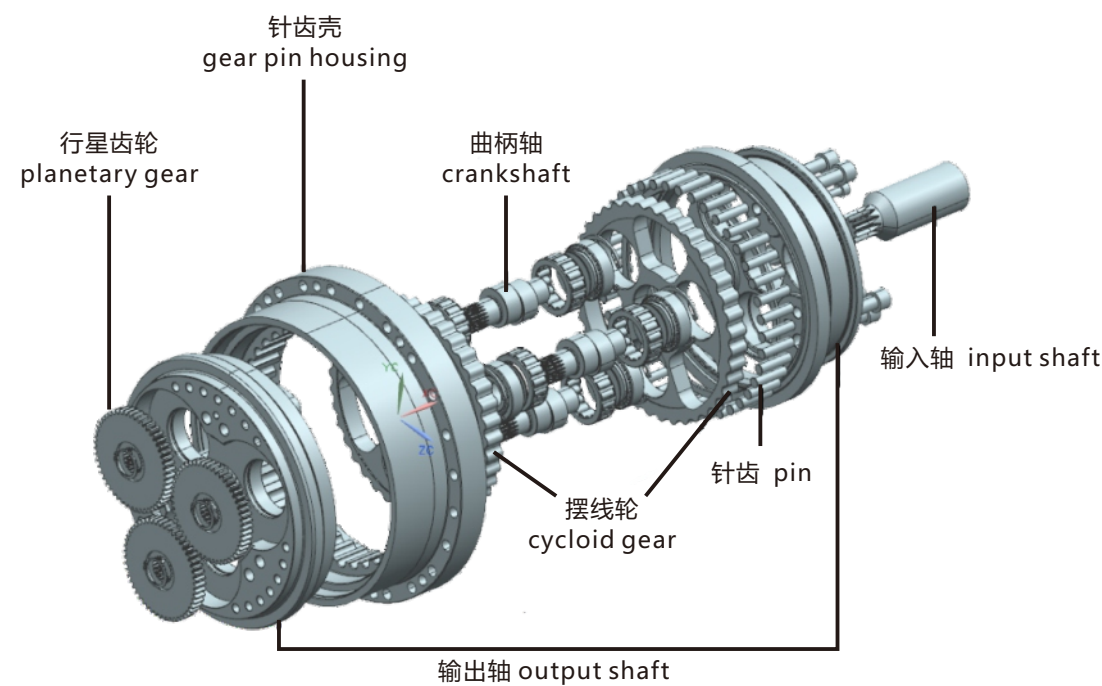
established "adhere to machine tool-driven, build high-end manufacturing, core parts provide strong support, break through intelligent manufacturing and CNC key technologies, take initiated to undertake major national special research and development tasks" development strategy and "5221" development goals, determined to build QCMT&T into leading enterprise of high-end equipment manufacturing industry in China.

Rooted in strong experiences and knowledges accumulated in last 50 years for development and production of precision gear grinding machines & gear transmission products, QCMT&T successfully developed it's own technology of BX series industrial robot reducer in 2014. Currently, more than 100 kinds of speed ratio robot joint reducers including BX-E, BX-C, BX-F and BX-N series have been produced in batches. There are more than 100 robots and nonstandard automatic integrators, which are mainly used for six-axis industrial robots, precision slewing mechanisms, machine tools, medical equipment and nonstandard automatic devices.



秦川机器人减速器
Qinchuan Robot Gear Reducer

BX-N 类型 Type

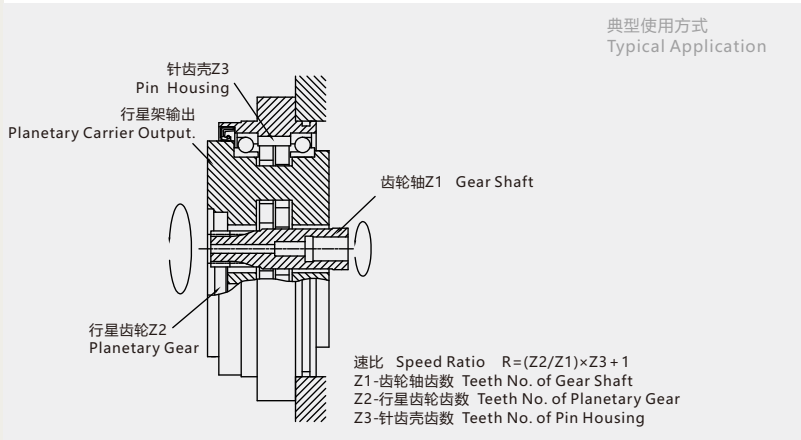
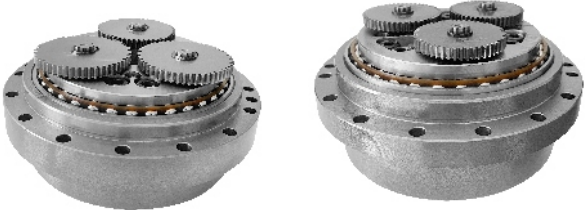


摆线类型
Cycloid Type

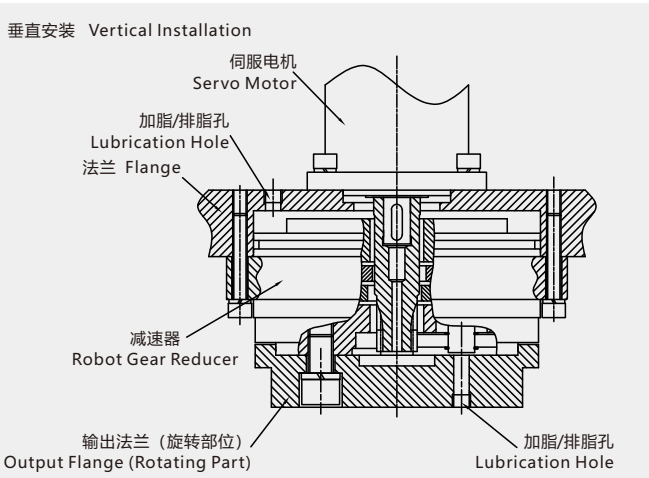
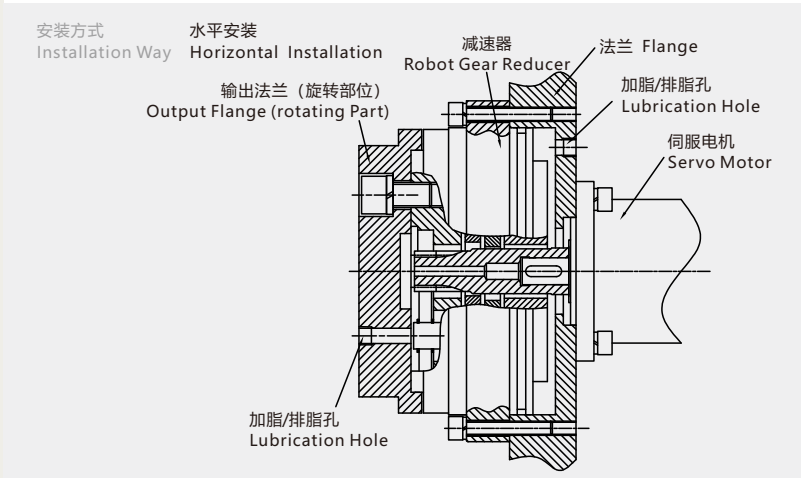
型号 Model

型号 Model	输出扭矩 (Nm) Output Torque
25N	245
42N	412
80N	784
125N	1225
160N	1600
500N	4900

速比 Speed Ratio
(减速比 Reduction Ratio=1/R)



传动精度<1arcmin
回差<1arcmin
Transmission Precision<1arcmin
Lost Motion <1arcmin



额定输出转速 Rated Output Speed (r/min)		15		传动精度 Transmission Precision	回差 Lost Motion	弯矩刚性 Bending Moment Rigidity	扭矩刚性 Torsional Stiffness	重量 Weight
型号 Model	速比 Ratio	输出扭矩 Output Torque	输入功率 Input Capacity					
	轴输出 Output Shaft	Nm	kW	arc.sec	arc.min	Nm/arc.min	Nm/arc.min	kg
BX25N	41 81 107.66 126 137 164.07	245	0.55	70	1	530	61	3.8
BX42N	41 81 105 126 141 164.07	412	0.92	60	1	840	113	6.3
BX80N	41 81 101 129 141 171	784	1.76	50	1	1190	212	9.3
BX125N	41 81 102.17 121 145.61 161	1225	2.75	50	1	1600	334	13.9
BX160N	41 81 102.81 125.21 156 201	1600	3.59	50	1	2050	490	22.1
BX500N	81 105 123 144 159 192.75	4900	11	50	1	6850	1620	57.2

秦川机器人减速器
Qinchuan Robot Gear Reducer

BX-E 类型 Type



BX

-

80

E

-

121

摆线类型
Cycloid Type

型号 Model

型号 Model	输出扭矩 (Nm) Output Torque
20E	167
40E	412
80E	784
110E	1078
160E	1568
320E	3136
450E	4410

速比 Speed Ratio
(减速比 Reduction Ratio=1/R)



额定输出转速 Rated Output Speed (r/min)		15		传动精度 Transmission Precision	回差 Lost Motion	弯矩刚性 Bending Moment Rigidity	扭矩刚性 Torsional Stiffness	重量 Weight
型号 Model	速比 Ratio	输出转矩 Output Torque	输入功率 Input Capacity					
	轴输出 Output Shaft	Nm	kw	arc.min	arc.min	Nm/ arc.min	Nm/ arc.min	kg
BX20E	57 81 105 121 141 161	167	0.35	1	1	372	49	5
BX40E	57 81 105 121 153	412	0.86	1	1	931	108	9
BX80E	57 81 101 121 153	784	1.64	1	1	1176	196	13
BX110E	81 111 161 175.28	1078	2.26	1	1	1470	294	17
BX160E	81 101 129 145 171	1568	3.28	1	1	2940	392	26
BX320E	81 101 118.5 129 141 171 185	3136	6.57	1	1	4900	980	44
BX450E	81 101 129 154.8 171 192.4	4410	9.24	1	1	7448	1176	66

BX-C 类型 Type



BX

-

100

C

-

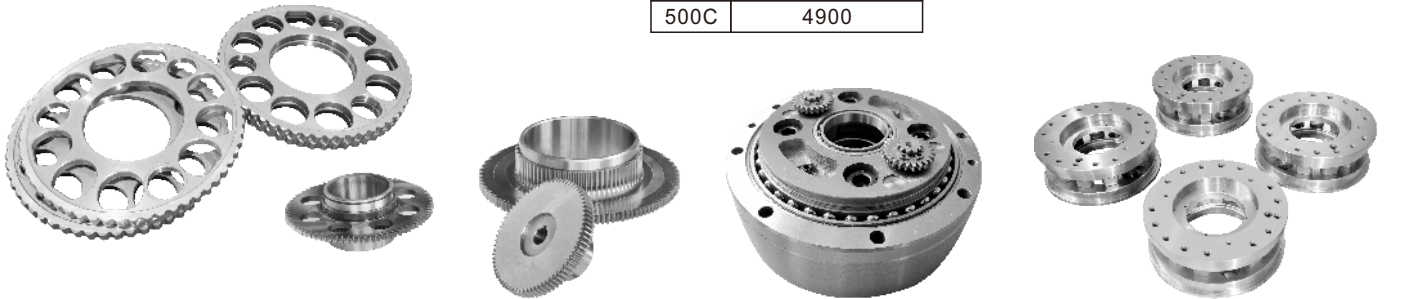
36.75

摆线类型
Cyloid Type

型号 Model

型号 Model	输出扭矩 (Nm) Output Torque
10C	98
27C	265
50C	490
100C	980
120C	1176
200C	1961
320C	3136
400C	3920
500C	4900

速比 Speed Ratio
(减速比 Reduction Ratio=1/R)
(不含电机齿轮 Motor Gear Not Included)



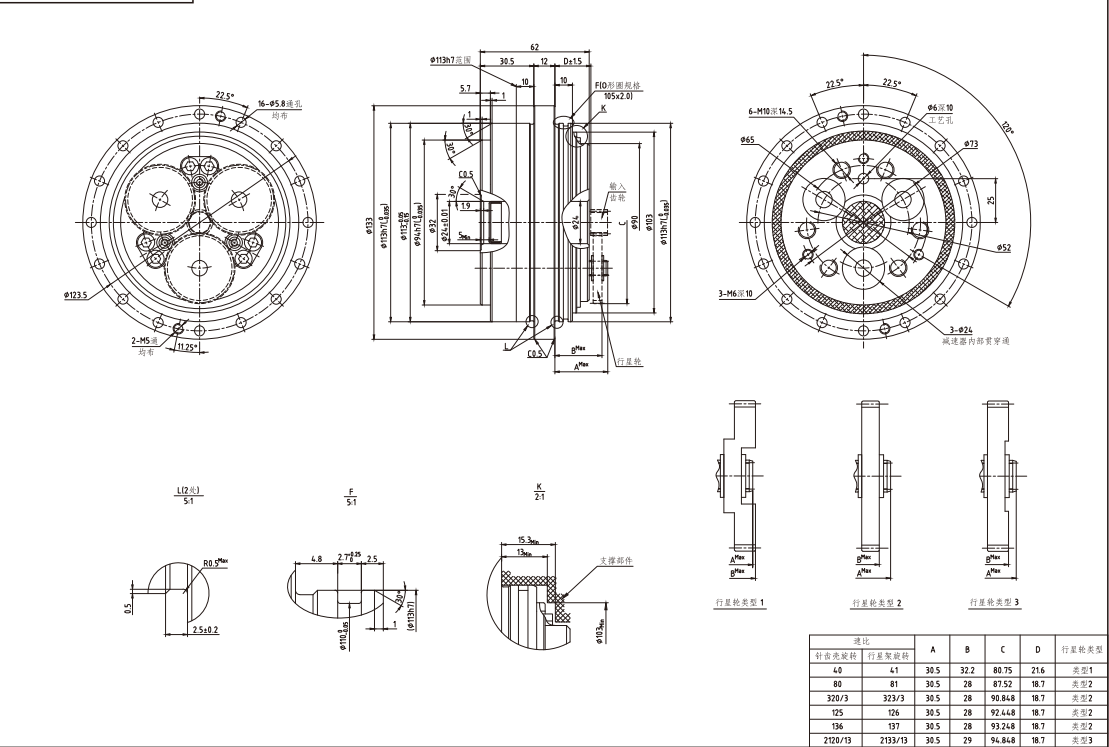
额定输出转速 Rated Output Speed (r/min)		15		传动精度 Transmission Precision	回差 Lost Motion	弯矩刚性 Bending Moment Rigidity	扭矩刚性 Torsional Stiffness	重量 Weight
型号 Model	速比 Ratio	输出转矩 Output Torque	输入功率 Input Capacity					
	轴输出 Output Shaft	Nm	kw	arc.min	arc.min	Nm/ arc.min	Nm/ arc.min	kg
BX10C	27	98	0.21	1	1	421	47	5
BX27C	36.57	265	0.55	1	1	1068	147	8.5
BX50C	32.54	490	1.03	1	1	1960	255	15
BX100C	36.75	980	2.05	1	1	2813	510	20
BX120C	36.75	1176	2.46	1	1	4263	588	21
BX200C	34.86	1961	4.11	1	1	9800	980	56
BX320C	35.61	3136	6.57	1	1	12740	1960	80
BX320CA	35.61	3136	6.57	1	1	12740	1960	92
BX400C	35.61	3920	8.21	1	1	19600	2613	110
BX500C	37.34	4900	10.26	1	1	24500	3430	154

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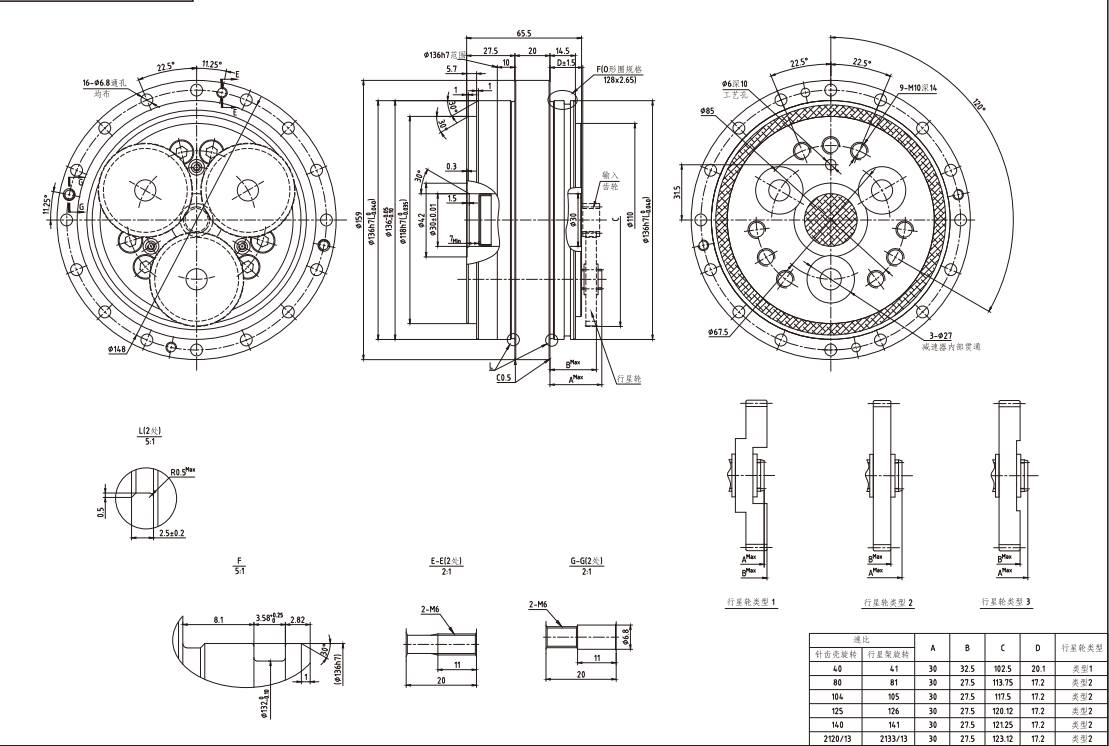
生产/智能装配线及检测设备
Manufacturing/Intelligent Assembly Line and
Test/Measuring Equipments



BX25N外形尺寸图

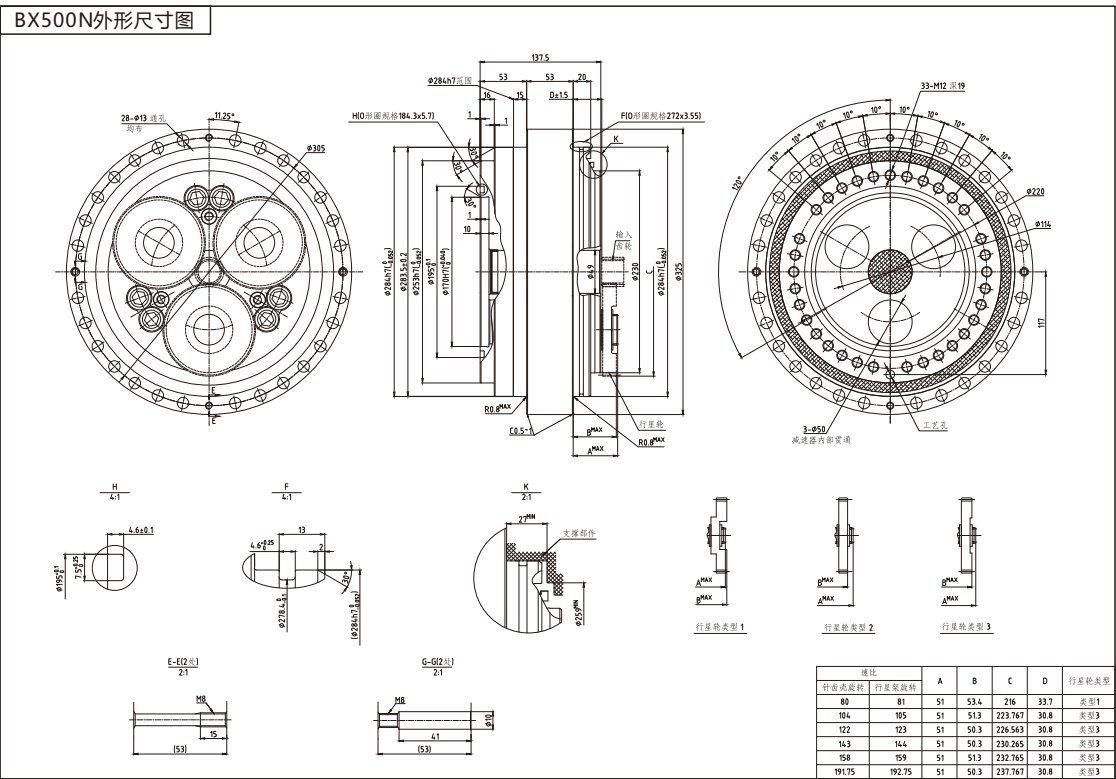
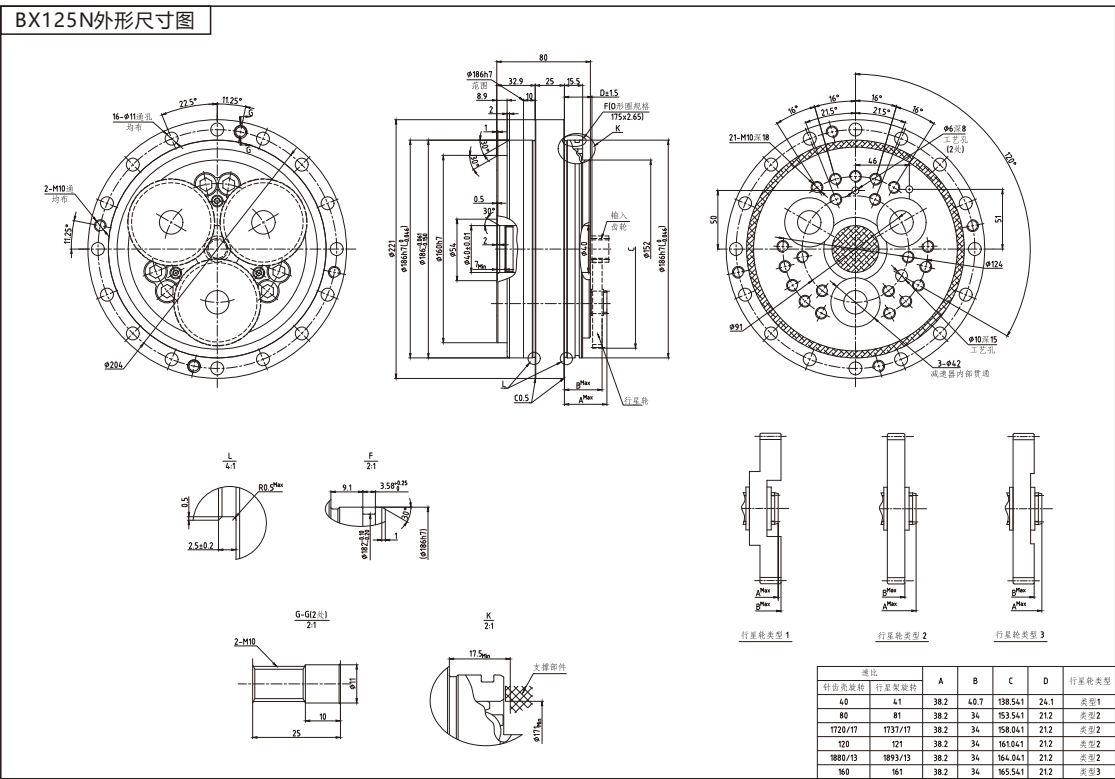
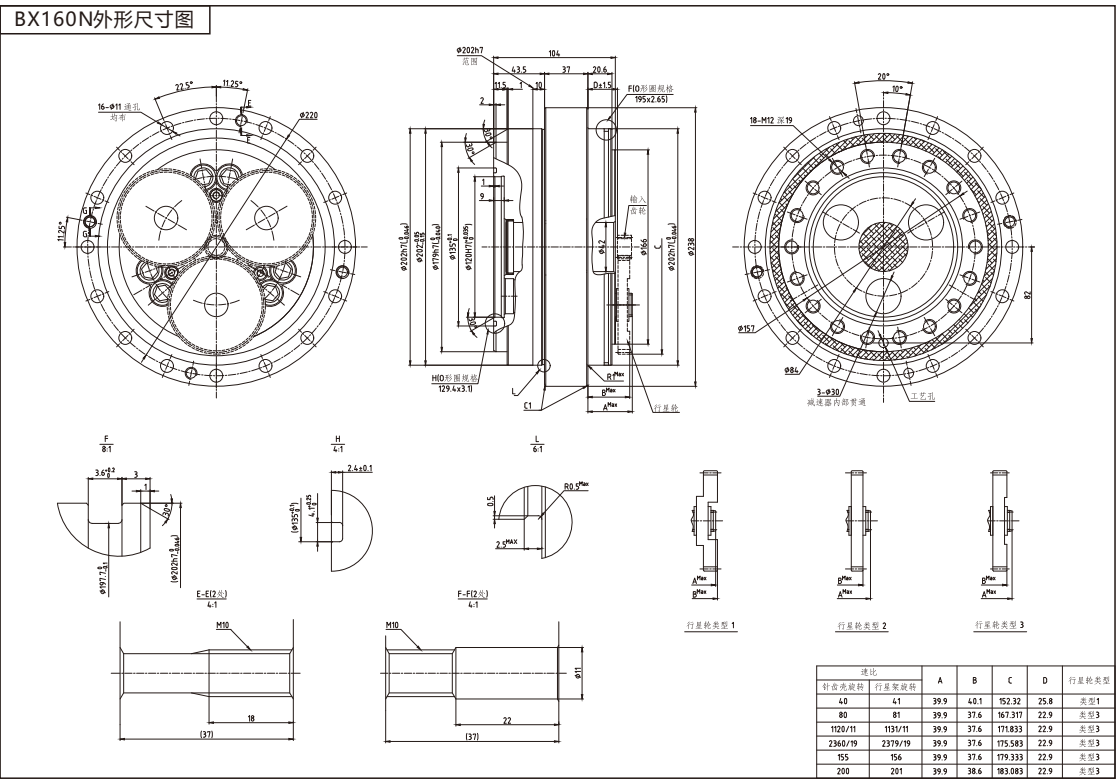
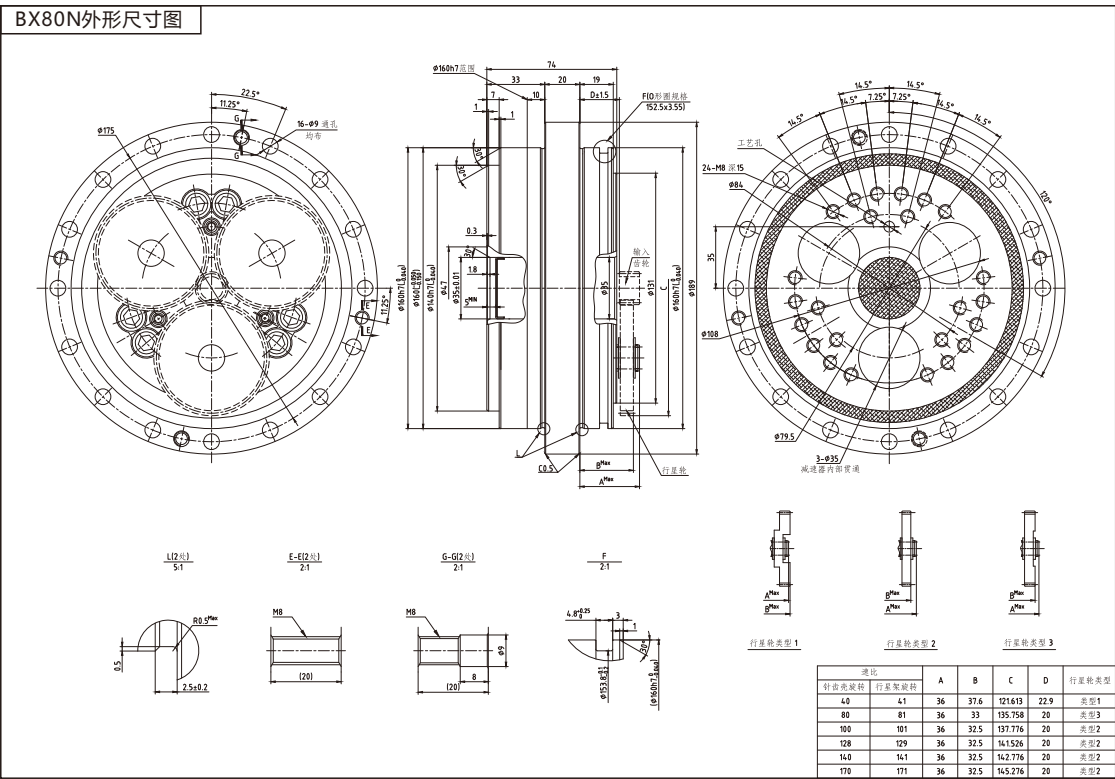


BX42N外形尺寸图



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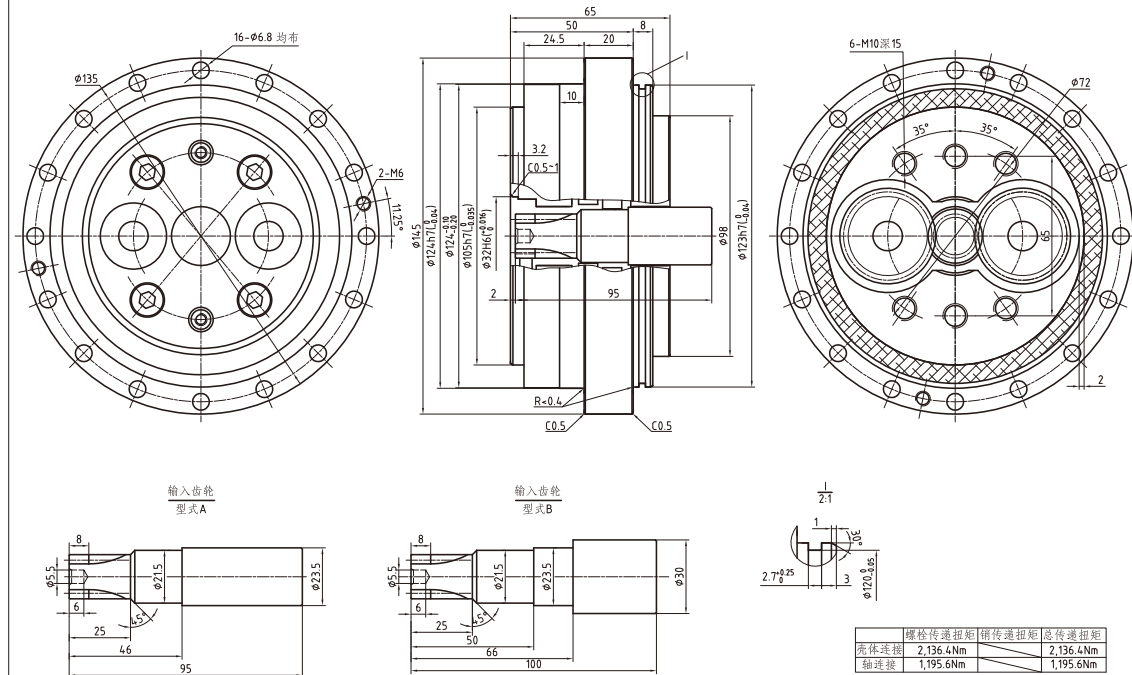
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BX20E 输出轴螺栓紧固型外形尺寸图

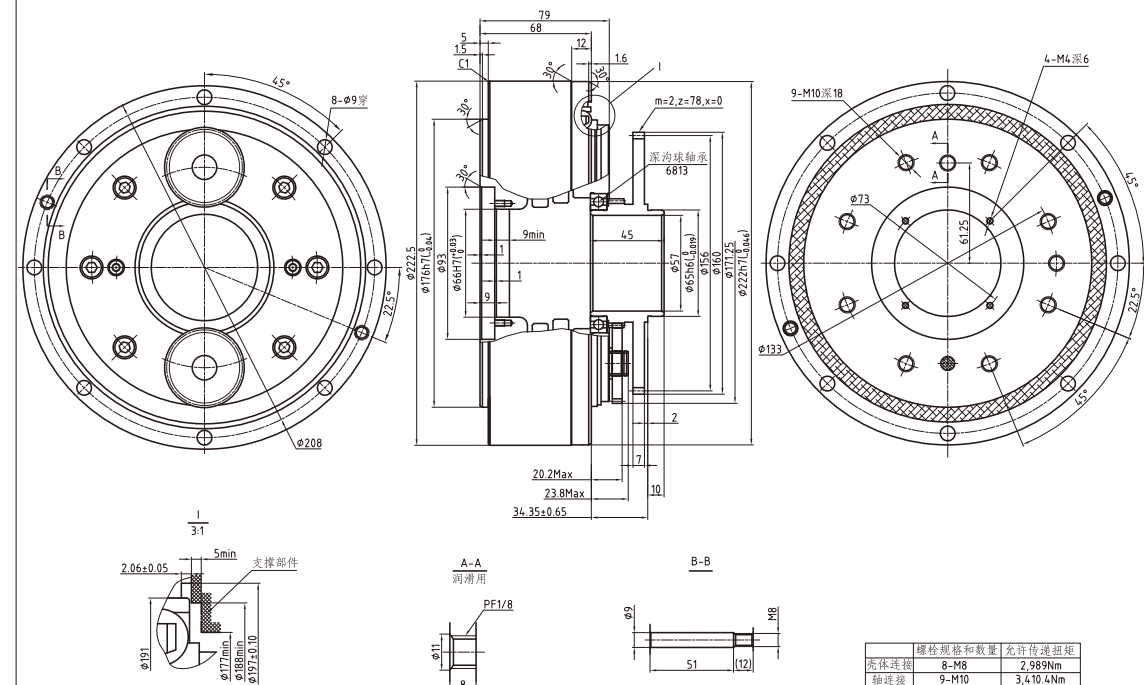
型号: BX20E-□ (速比) -

A
B



BX50C 输出轴螺栓紧固外形尺寸图

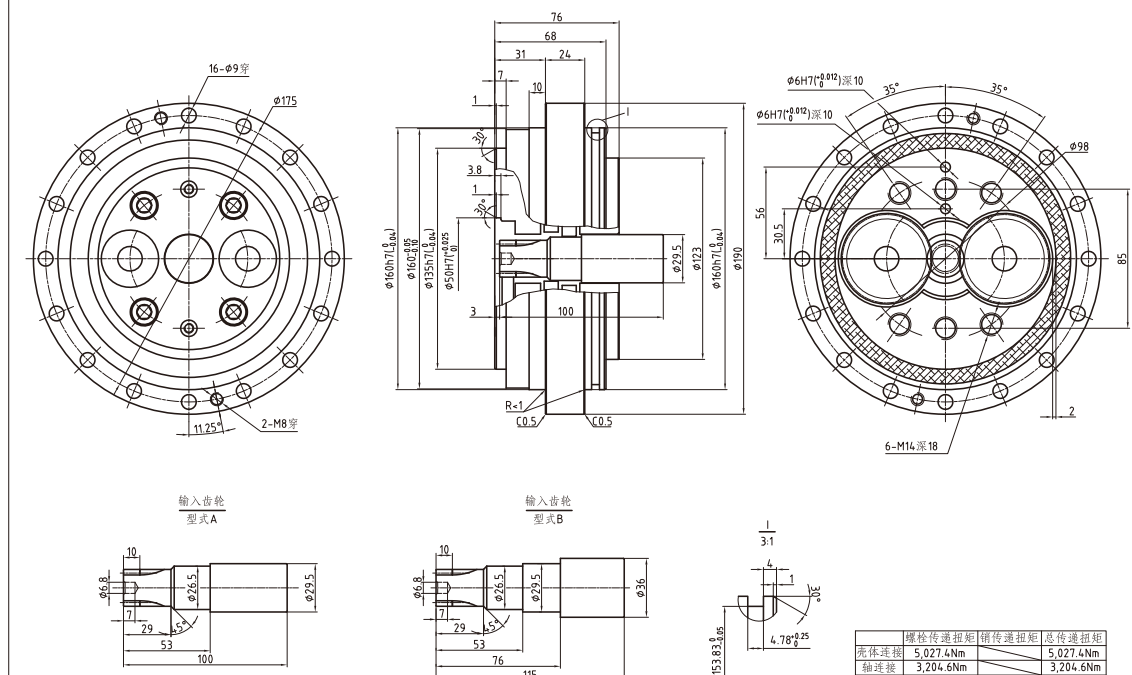
型号: BX50C-32.54 (速比) - A
B



BX40E 输出轴螺栓紧固型外形尺寸图

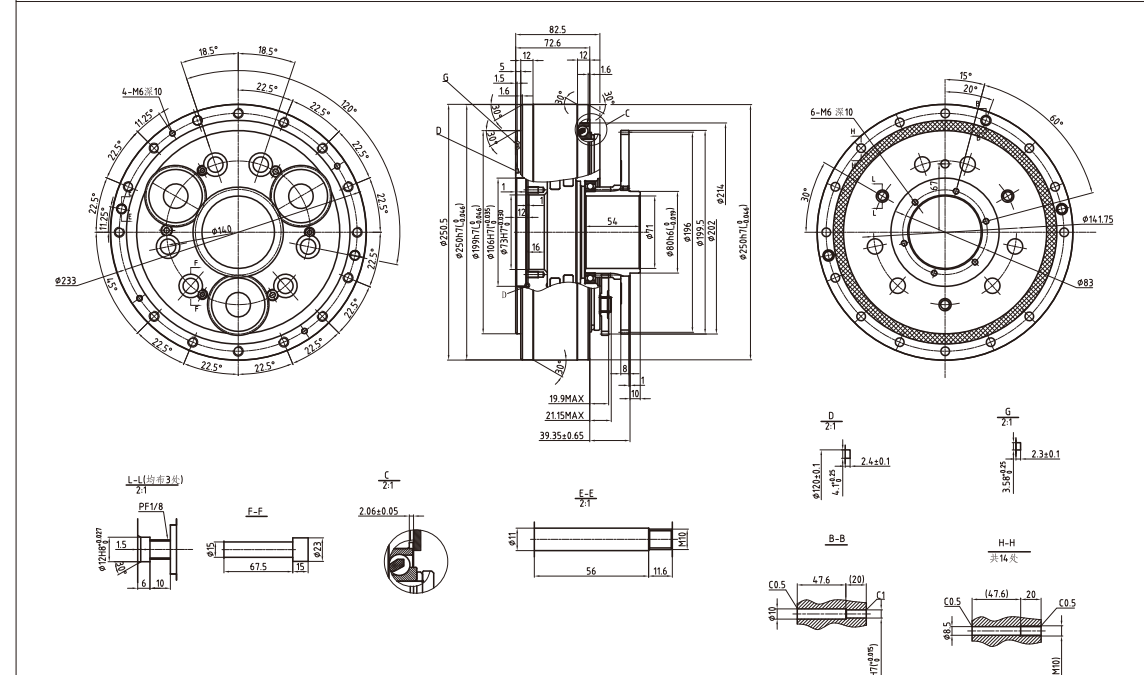
型号: BX40E-□ (速比) -

A
B



BX120C 输出轴螺栓紧固外形尺寸图

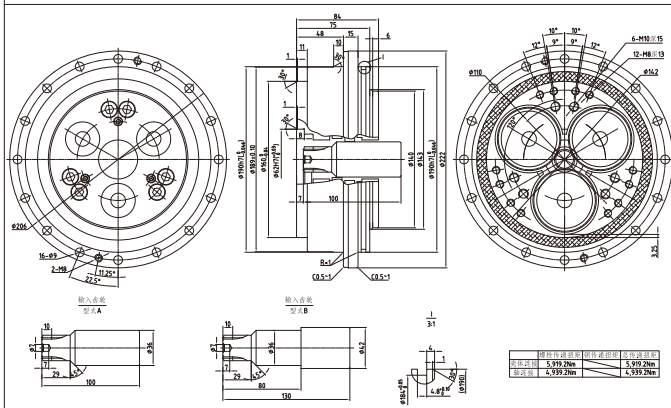
型号: BX120C-36.75 (速比) - A



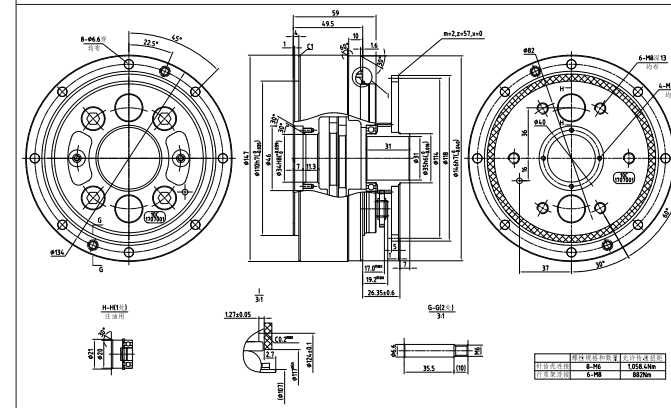
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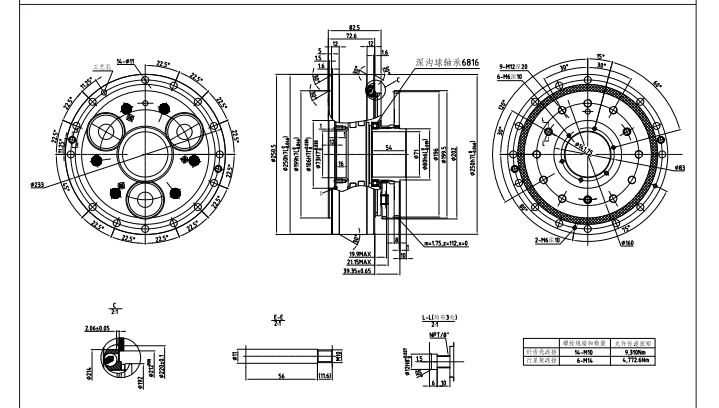
BX80E 输出轴螺栓紧固外形尺寸图 型号: BX80E-□ (速比) - $\frac{A}{B}$



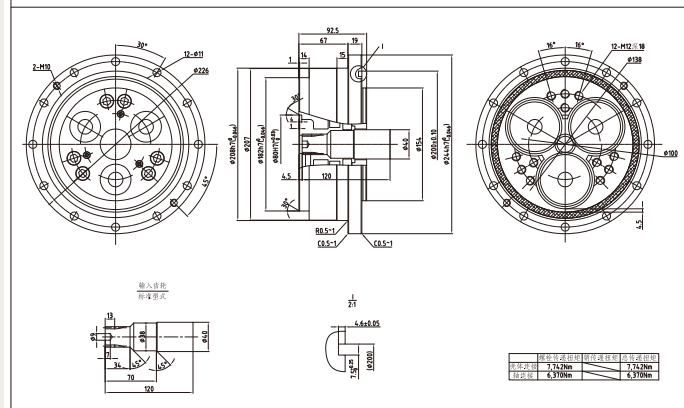
BX10C 输出轴螺栓紧固外形尺寸图 型号: BX10C-27 (速比) -A



BX100C 输出轴螺栓紧固外形尺寸图 型号: BX100C-36.75 (速比) -A

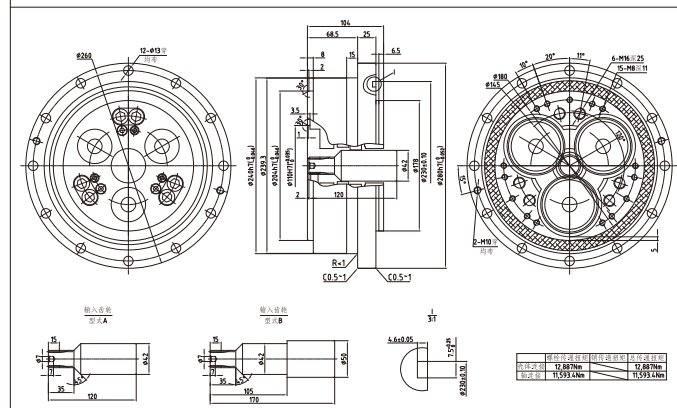


BX110E 输出轴螺栓紧固外形尺寸图 型号: BX110E-□ (速比)-□A

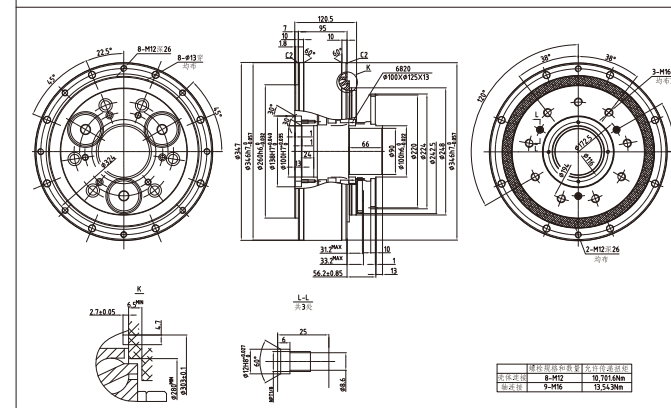


BX160E 输出轴螺栓紧固外形尺寸图 型号: BX160E-□(速比)-

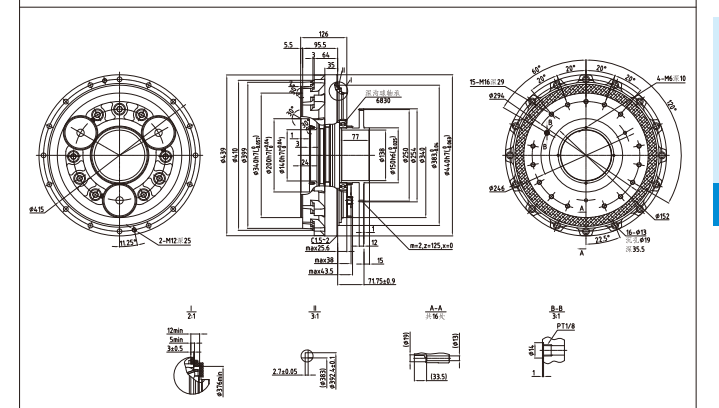
A
B



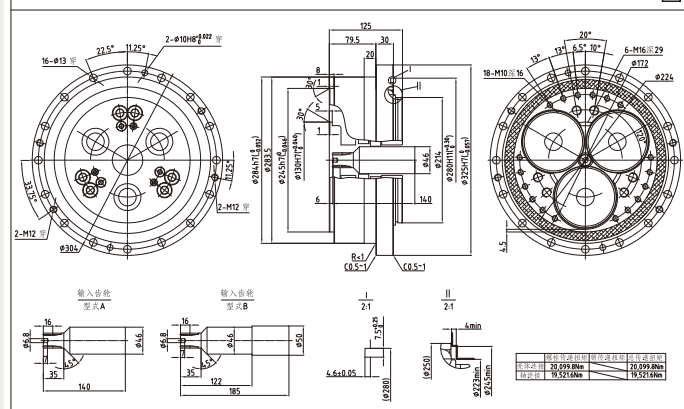
BX200C 输出轴螺栓紧固外形尺寸图 型号: BX200C-34.86 (速比) -A



BX320C 输出轴螺栓紧固外形尺寸图 型号: BX320C-35.61 (速比)-A

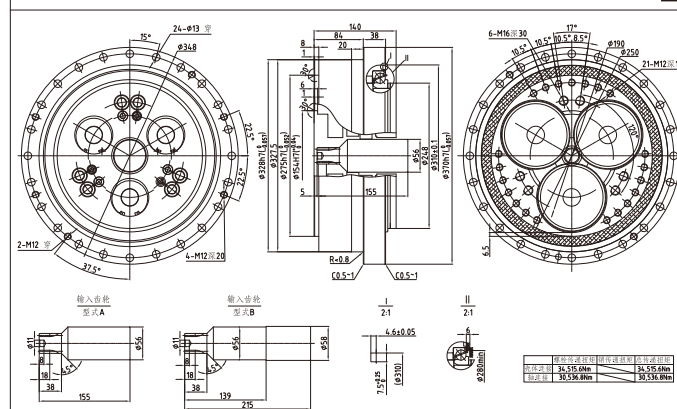


BX320E 输出轴螺栓紧固外形尺寸图 型号: BX320E-□(速比)-AR

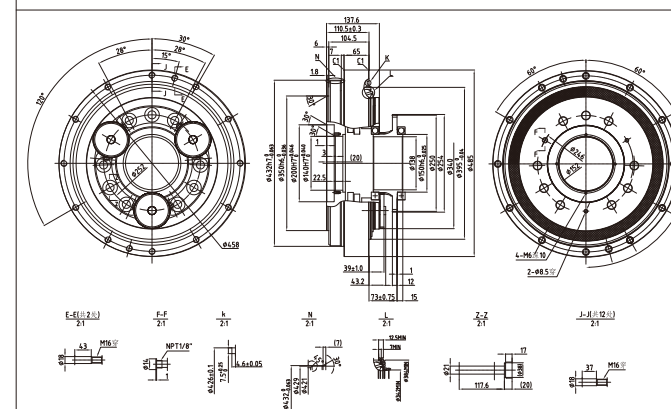
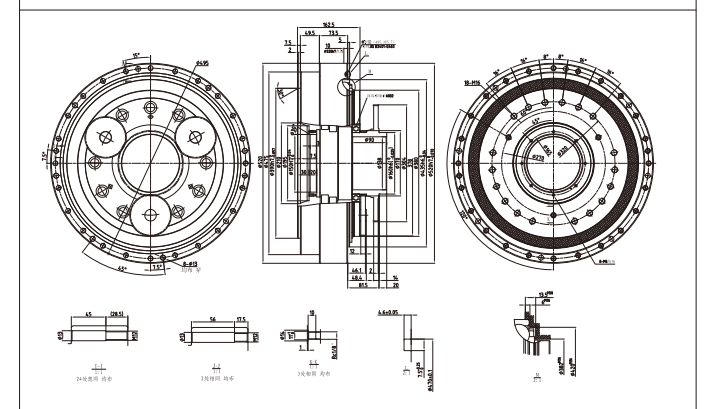


BX450E 输出轴螺栓紧固外形尺寸图 型号: BX450E-□ (速比) -

A
B



BX400C 输出轴螺栓紧固外形尺寸图 型号: BX400C-35.61 (速比)-A

BX500C 输出轴螺栓紧固外形尺寸图 型号: BX500C-37.34 (速比) -A

由于技术不断发展, 如有改变, 以技术协议为准。

Because of the constant development , the informations for reference only.