

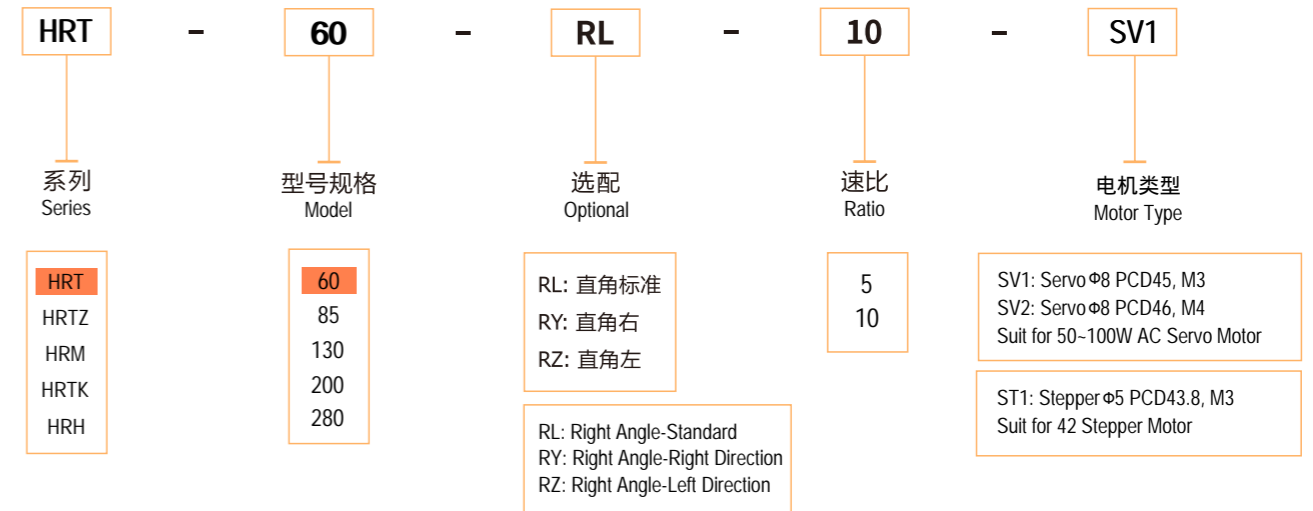
# HRT Series

Large Aperture Hollow Rotary Table  
大孔径中空旋转平台



## 订货型号表示

### Ordering Representation



## 技术参数

### Technical Parameter

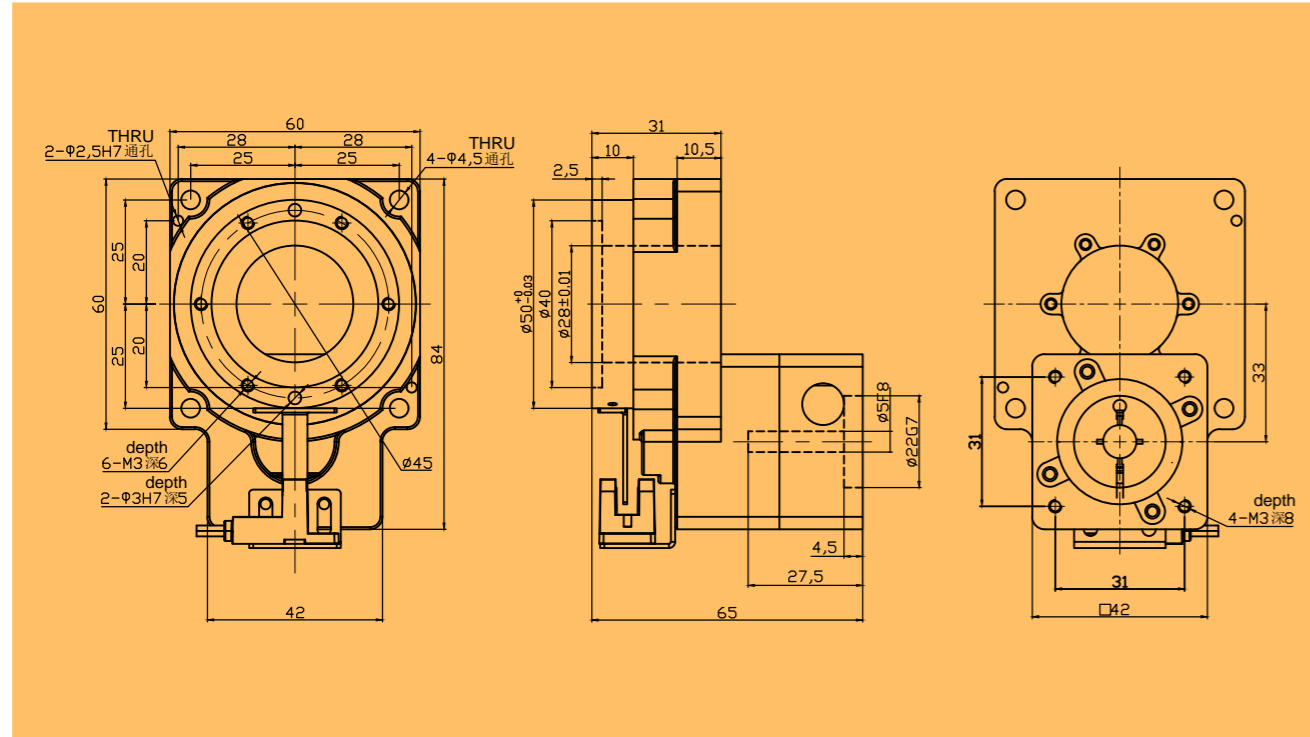
型号 Model		HRT60		HRT60RL/RZ		
轴承结构 Bearing structure		交叉滚子轴承 Cross roller bearing				
减速比 Reduction ratio	I	5	10	10	15	25
额定输出扭矩 Rated output torque	N.m	9	6	9	9	9
最大输出扭矩 Output torque	N.m	3倍额定扭矩 3 Times rated torque				
定位精度 Positioning accuracy	arc-min	$\leq 1.5$		$\leq 3$		
反复定位精度 Repeated positioning accuracy	arc-sec	$\leq 15$		$\leq 30$		
容许盘面转速 Allowable disk speed	rpm	200 (间歇运转) Intermittent operation				
适配伺服马达 Adapt to servo motor	W	50-100				
适配步进马达 Suitable for stepping motor		42 步进 Stepper				
容许轴向负载 Allowable axial load	N	230				
容许惯性力矩 Allowable moment of inertia	N.m	5				
扭转刚性 Torsional rigidity	N.m/arcmin	2.5				
齿隙 Backlash		无齿隙 (可调节结构) No backlash (Adjustable structure)				
精度寿命 Accuracy life	h	30000h (间歇运转) Intermittent operation				
防护等级 Protection level	IP	50				
润滑方式 Lubrication method		长效润滑 Long-term lubrication				
安装方式 Installation method		任意 Arbitrary				
旋转平台同心度 Concentricity of rotating platform	mm	$\leq 0.01$				
旋转平台平行度 Parallelism of rotating platform	mm	$\leq 0.01$				
传动效率 Transmission efficiency	%	95		90		
噪音 Noise	db	$\leq 55$		$\leq 57$		
重量 Weight	kg	0.6		1.2		
设计承重 Design load	kg	7	5	7		

\* 以上技术参数仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。

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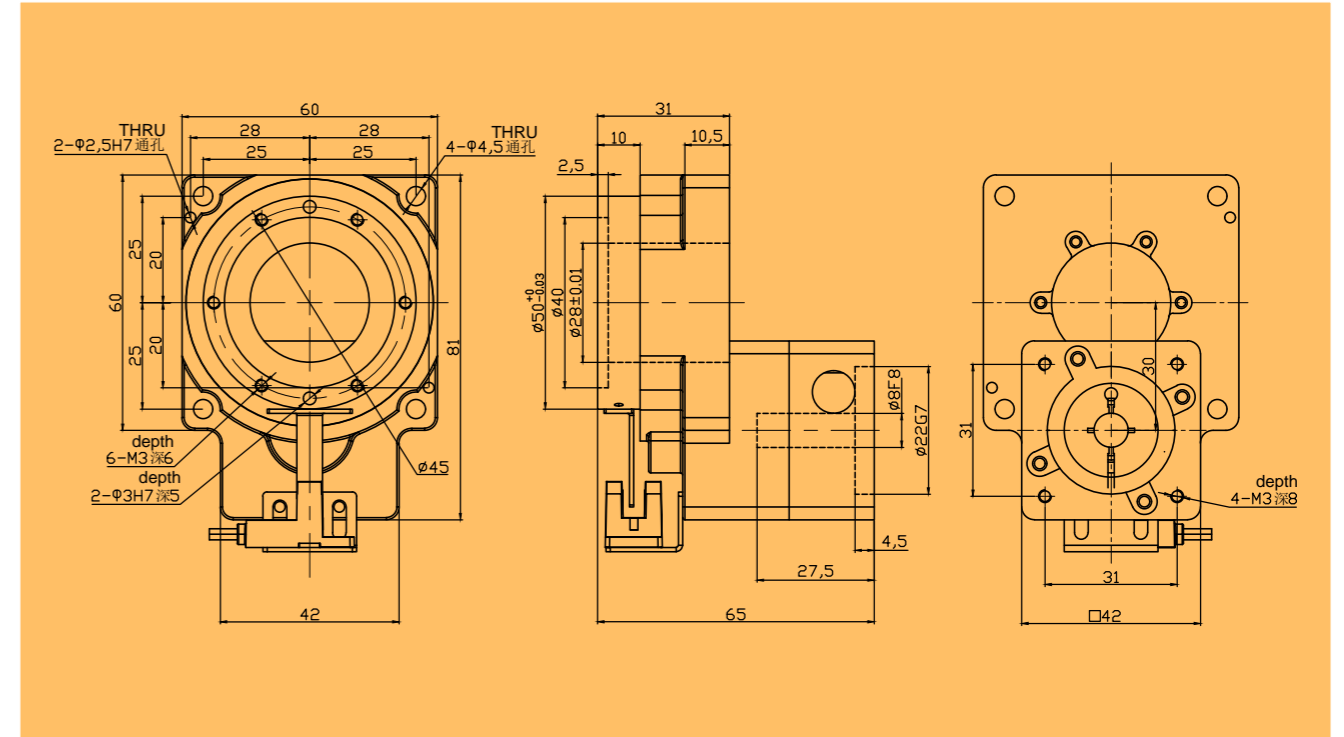
外形尺寸图表  
Outline dimensional

HRT60-5 配42步进接口 for 42 Stepper Interface

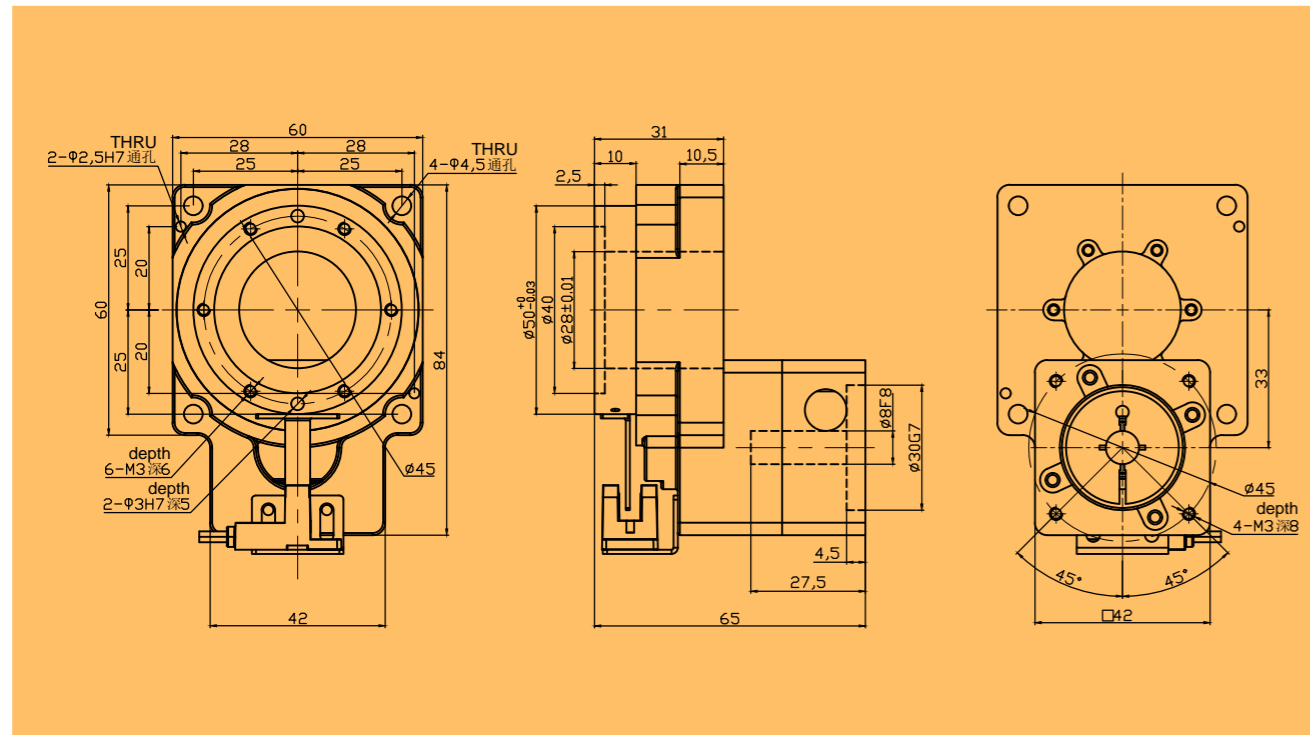


外形尺寸图表  
Outline dimensional

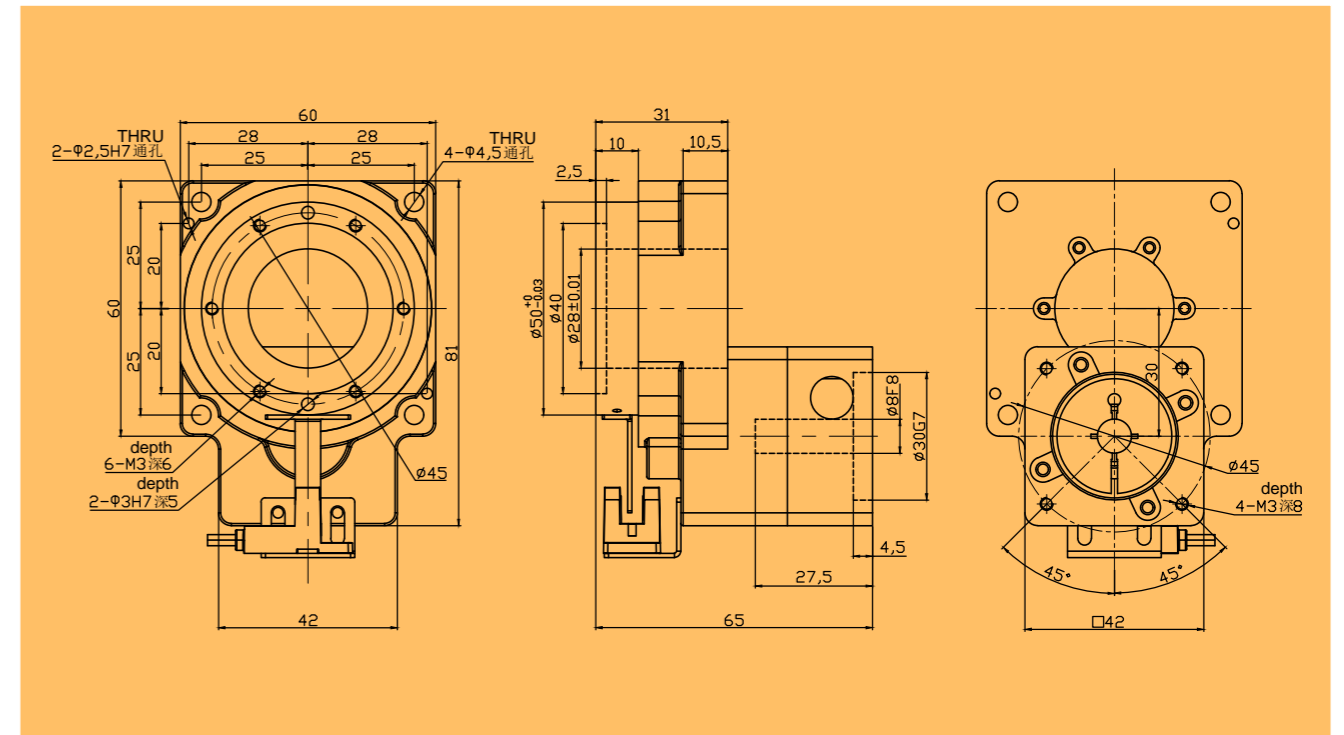
HRT60-10 配42步进接口 for 42 Stepper Interface



HRT60-5 配100W伺服接口 for 100W Servo Interface



HRT60-10 配100W伺服接口 for 100W Servo Interface

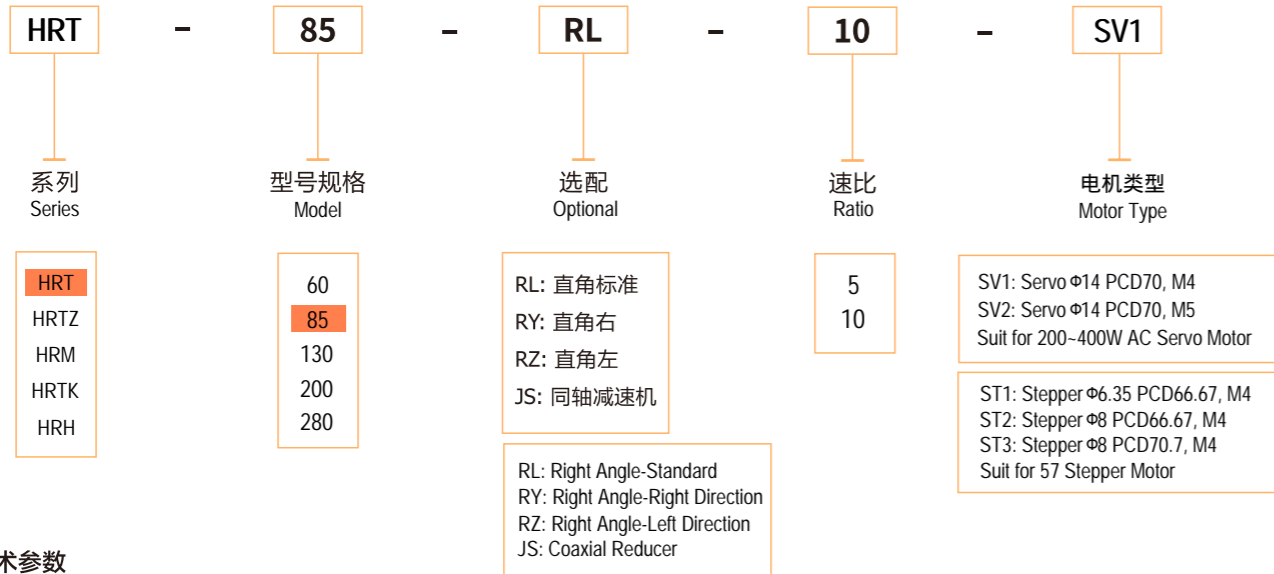


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订货型号表示  
Ordering Representation



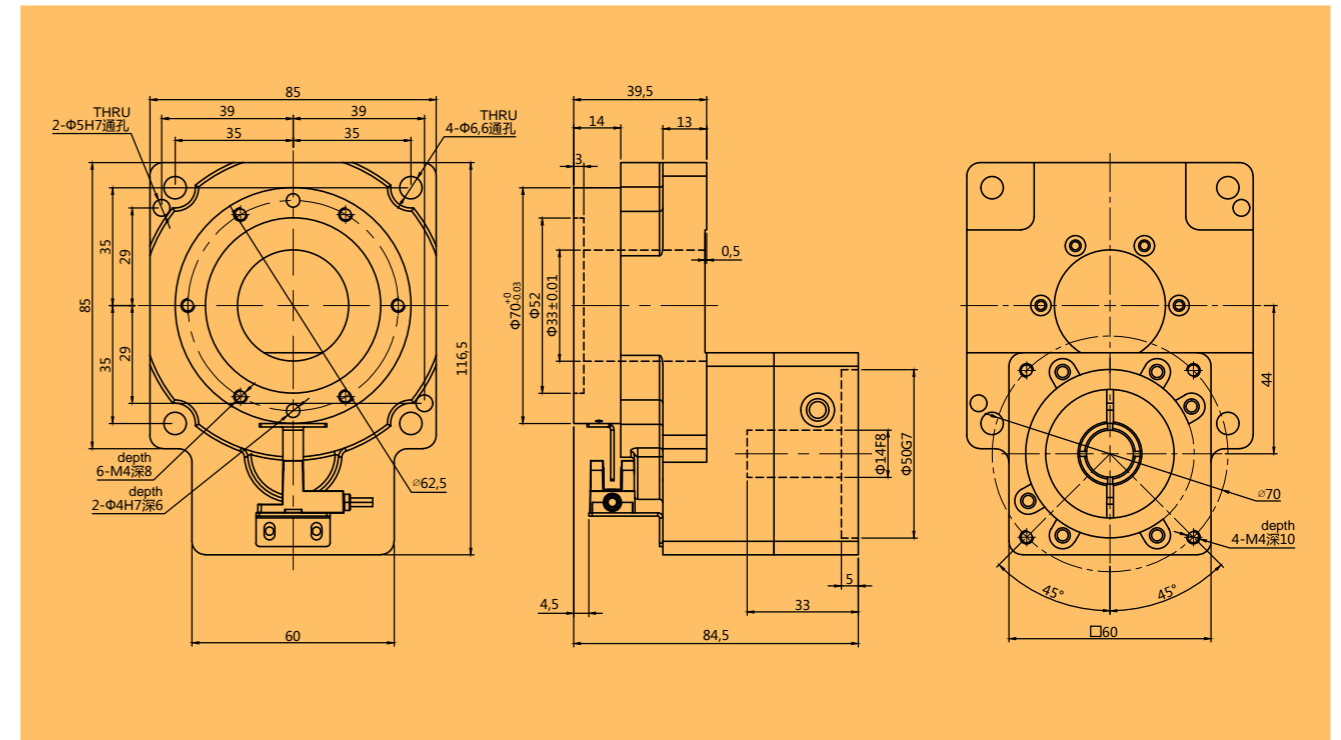
技术参数  
Technical Parameter

型号 Model		HRT85	HRT85RL/RY/RZ(JS)						
轴承结构 Bearing structure		交叉滚子轴承 Cross roller bearing							
减速比 Reduction ratio	I	5	10	15	20	25	35	50	
额定输出扭矩 Rated output torque	N.m	28	18	28	28	28	28	28	
最大输出扭矩 Output torque	N.m	3倍额定扭矩 3 Times rated torque							
定位精度 Positioning accuracy	arc-min	$\leq 1$			$\leq 3$				
反复定位精度 Repeated positioning accuracy	arc-sec	$\leq 15$			$\leq 30$				
容许盘面转速 Allowable disk speed	rpm	200 (间歇运转) Intermittent operation							
适配伺服马达 Adapt to servo motor	W	200-400							
适配步进马达 Suitable for stepping motor		57 步进 Stepper							
容许轴向负载 Allowable axial load	N	500							
容许惯性力矩 Allowable moment of inertia	N.m	10							
扭转刚性 Torsional rigidity	N.m/arcmin	6							
齿隙 Backlash		无齿隙 (可调节结构) No backlash (Adjustable structure)							
精度寿命 Accuracy life	h	30000h (间歇运转) Intermittent operation							
防护等级 Protection level	IP	50							
润滑方式 Lubrication method		长效润滑 Long-term lubrication							
安装方式 Installation method		任意 Arbitrary							
旋转平台同心度 Concentricity of rotating platform	mm	$\leq 0.01$							
旋转平台平行度 Parallelism of rotating platform	mm	$\leq 0.01$							
传动效率 Transmission efficiency	%	95			90				
噪音 Noise	db	$\leq 55$			$\leq 60$				
重量 Weight	kg	1.4			2.6				
设计承重 Design load	kg	18			28				

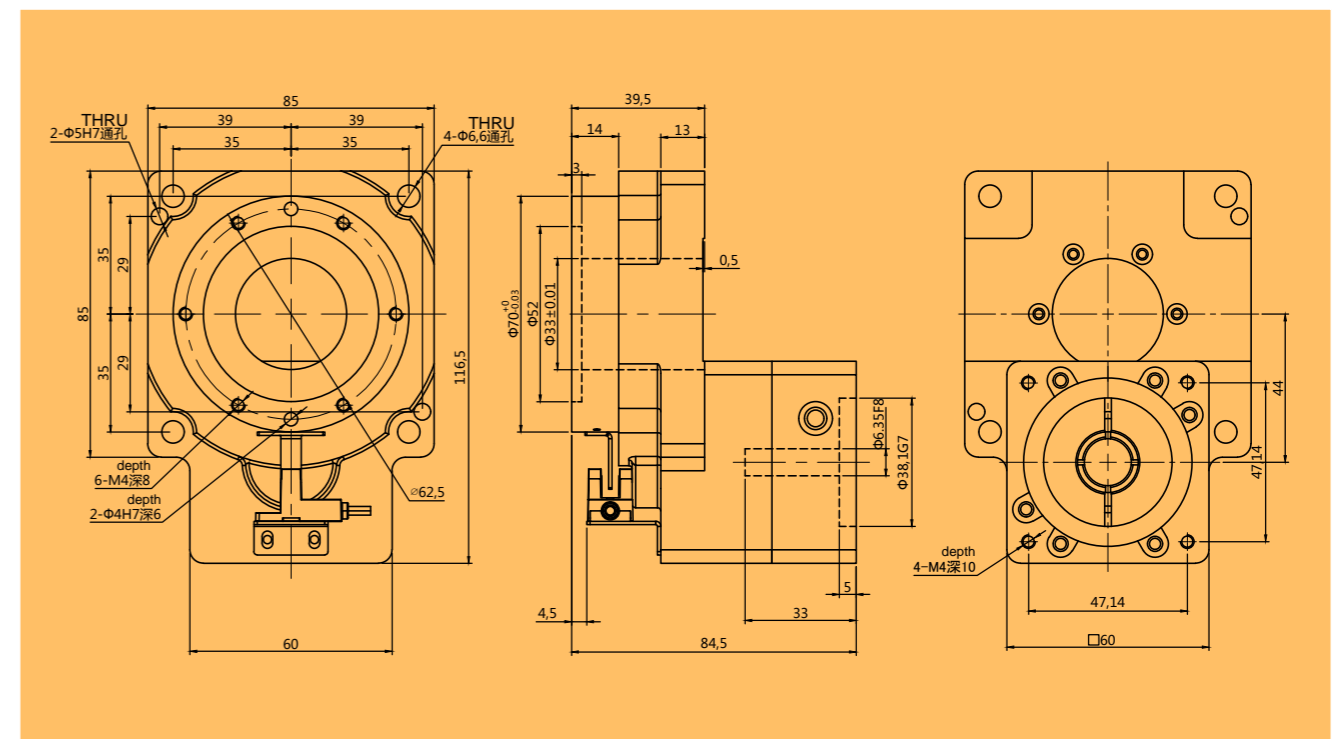
注 HRT85JS系列速比有15/20/25/35/50等。额定输出扭矩40N.m。  
The speed ratio of HRT85JS series is 15/20/25/35/50 etc. The rated output torque is 40N.m.

外形尺寸图表  
Outline dimensional

HRT85-5 配400W伺服接口 for 400W Servo Interface



HRT85-5 配57步进接口 for 57 Stepper Interface

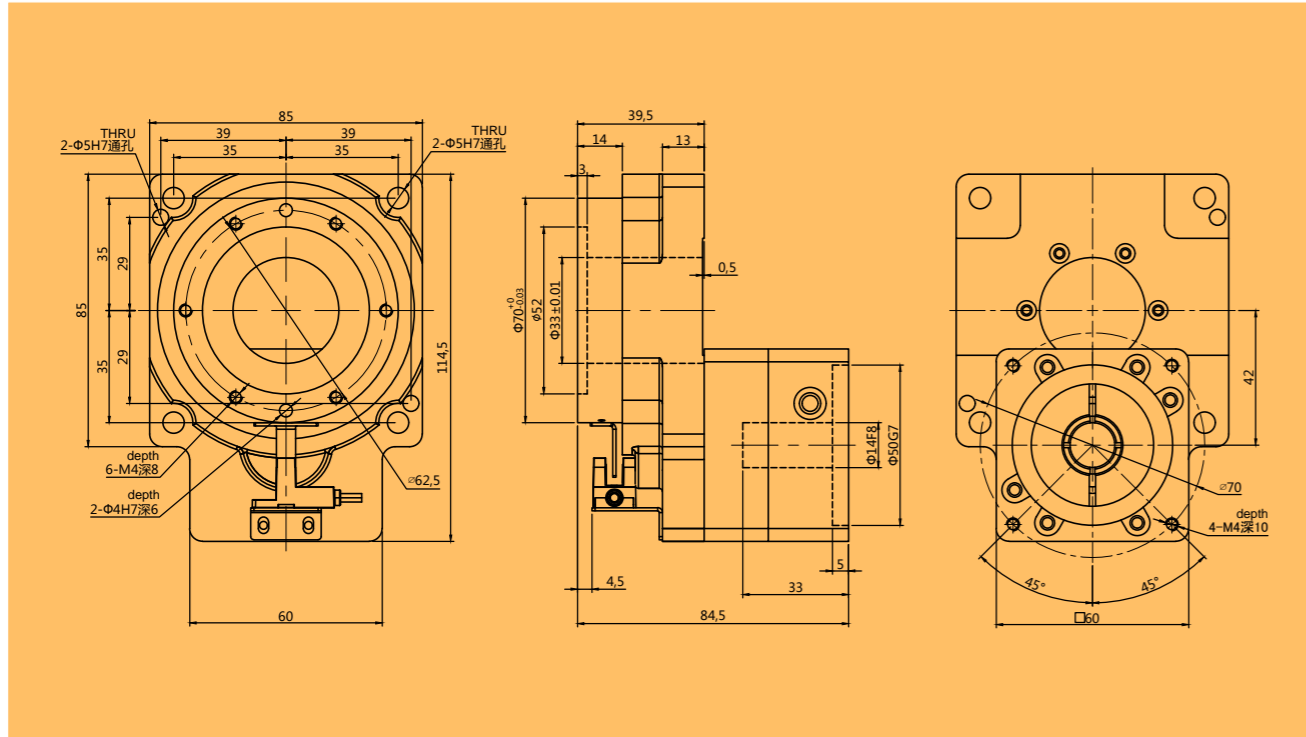


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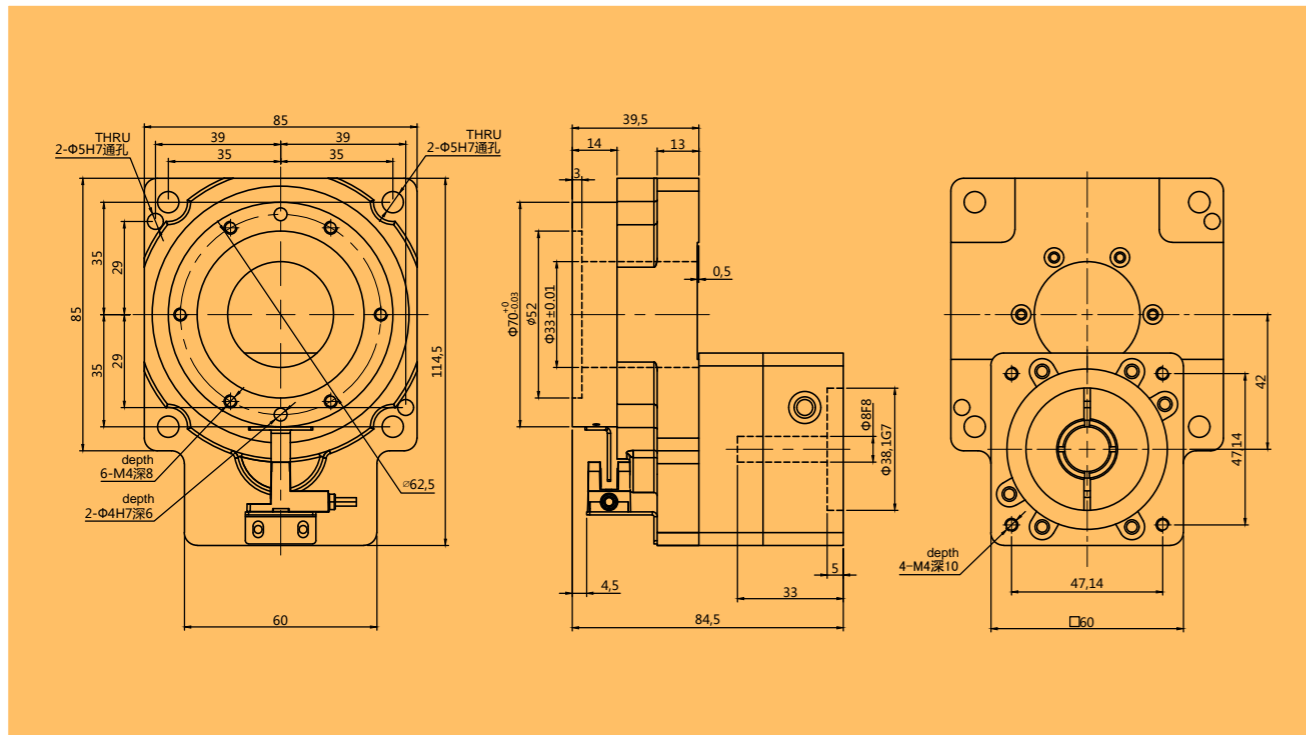


外形尺寸图表  
Outline dimensional

HRT85-10 配400W伺服接口 for 400W Servo Interface



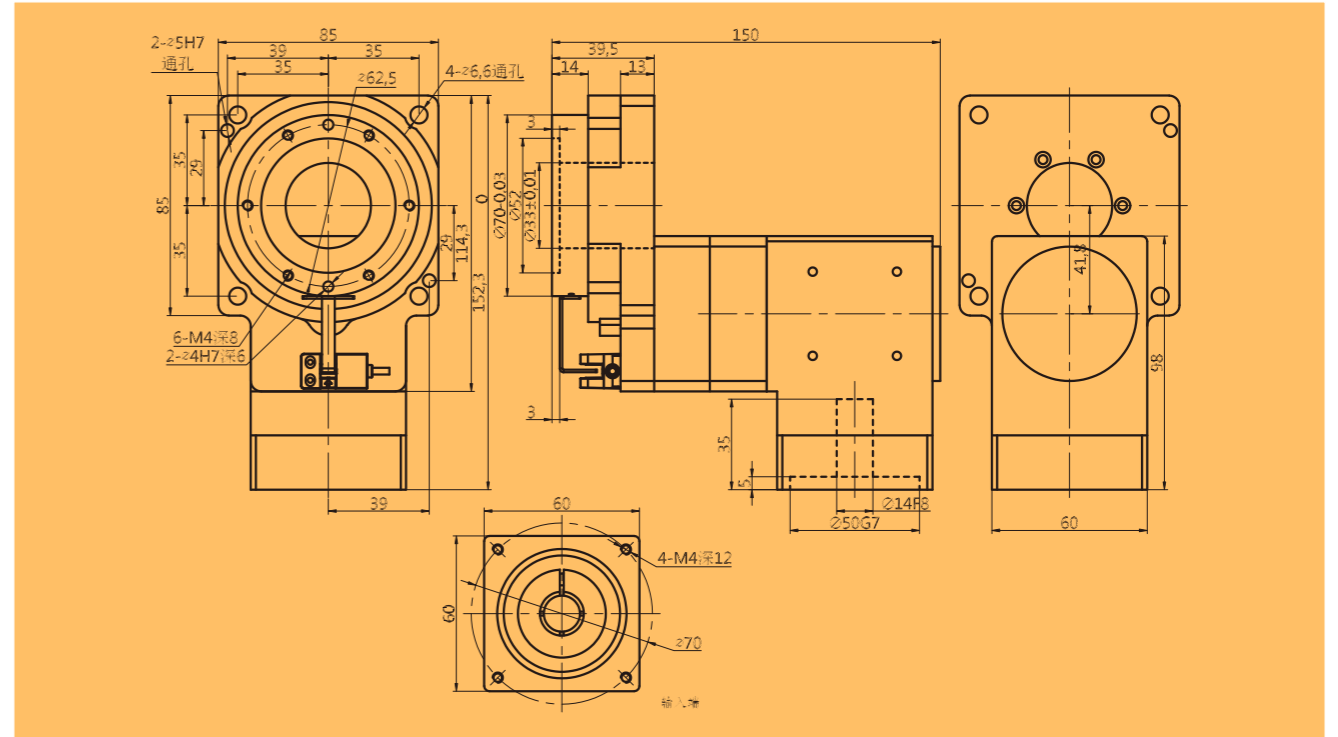
HRT85-10 配57步接口 for 57 Stepper Interface



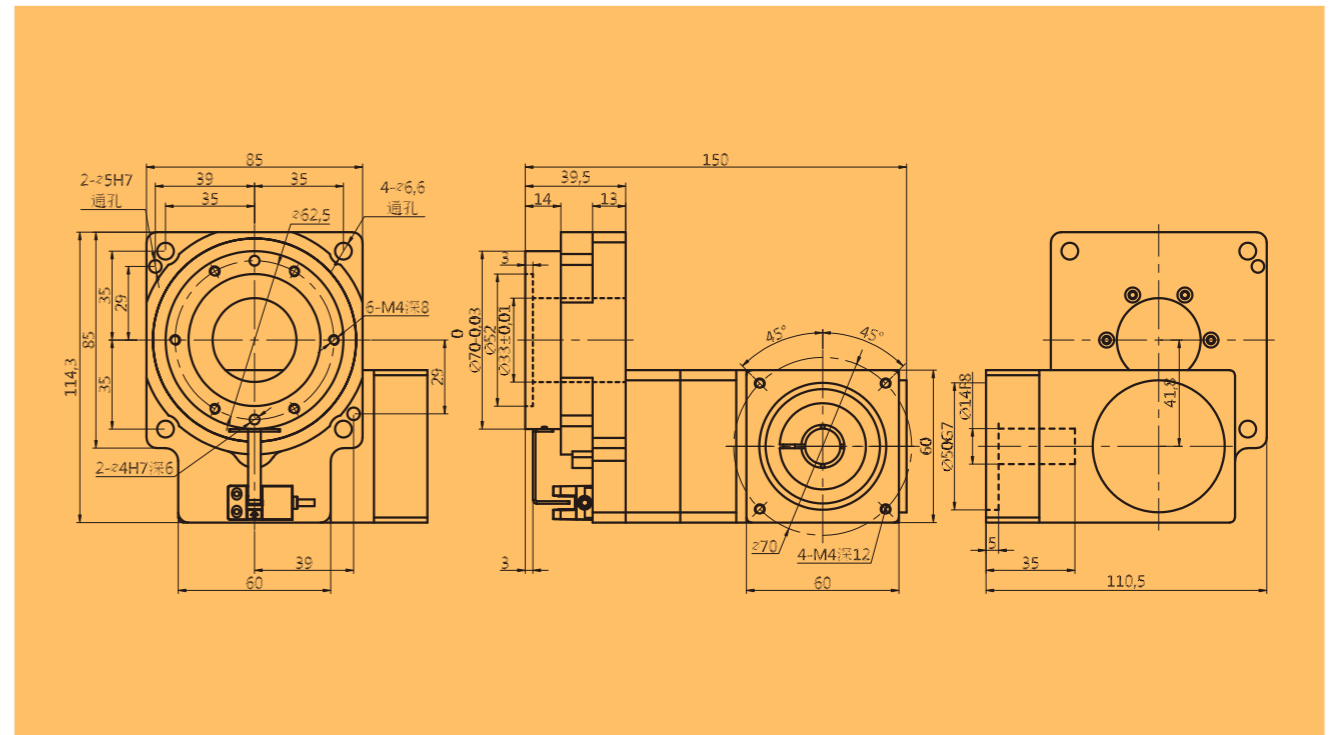
\* 以上技术参数仅供参考, 实际根据客户提供的数据, 会出具相关的技术参数及尺寸。  
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外形尺寸图表  
Outline dimensional

HRT85RL-10 配400W伺服接口 for 400W Servo Interface



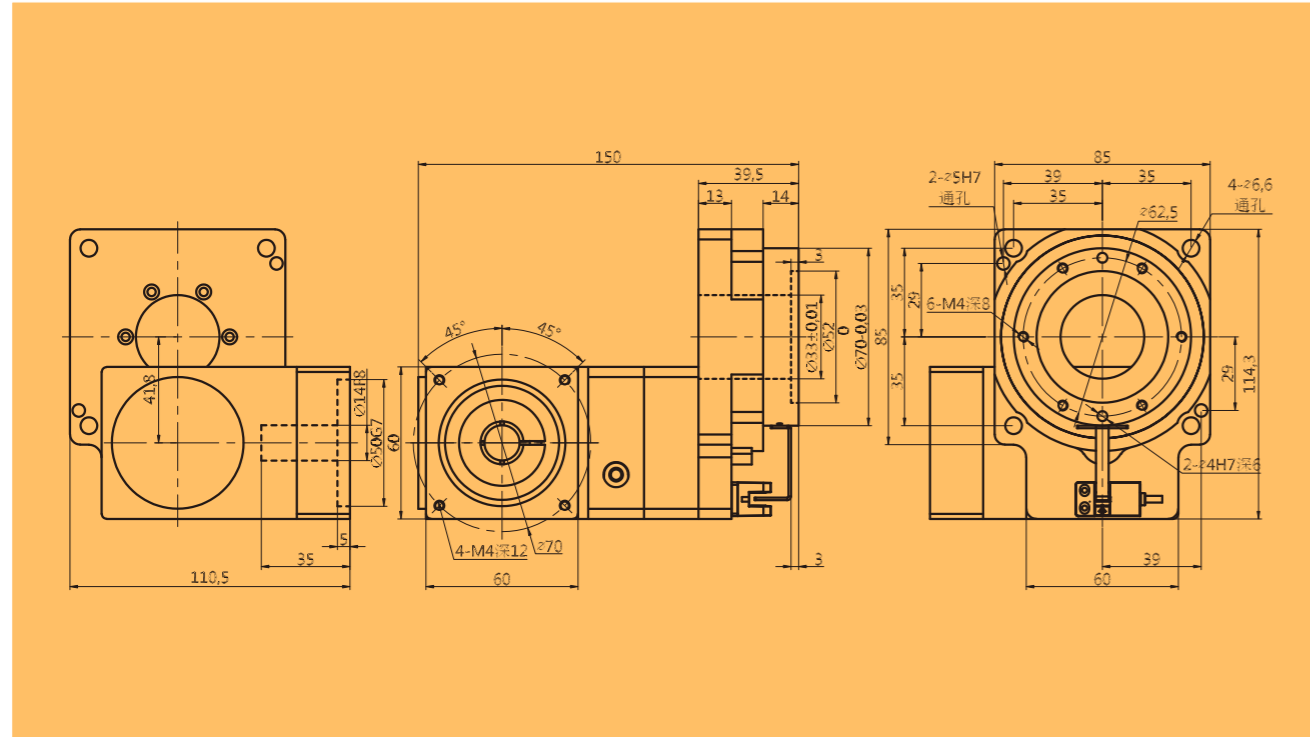
HRT85RY-10 配400W伺服接口 for 400W Servo Interface



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外形尺寸图表  
Outline dimensional

HRT85RZ-10 配400W伺服接口 for 400W Servo Interface



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订货型号表示  
Ordering Representation

<b>HRT</b>	-	<b>130</b>	-	<b>RL</b>	-	<b>10</b>	-	<b>SV1</b>
系列 Series		型号规格 Model		选配 Optional		速比 Ratio		电机类型 Motor Type
HRT HRTZ HRM HRTK HRH		60 85 <b>130</b> 200 280		RL: 直角标准 RY: 直角右 RZ: 直角左 JS: 同轴减速机		10 18		SV1: Servo $\phi 14$ PCD70, M4 SV2: Servo $\phi 14$ PCD70, M5 Suit for 200-750W AC Servo Motor  ST1: Stepper $\phi 6.35$ PCD66.67, M4 ST2: Stepper $\phi 8$ PCD66.67, M4 ST3: Stepper $\phi 8$ PCD70.7, M4 ST4: Stepper $\phi 14$ PCD98.4, M5 Suit for 57-86 Stepper Motor
				RL: Right Angle-Standard RY: Right Angle-Right Direction RZ: Right Angle-Left Direction JS: Coaxial Reducer				

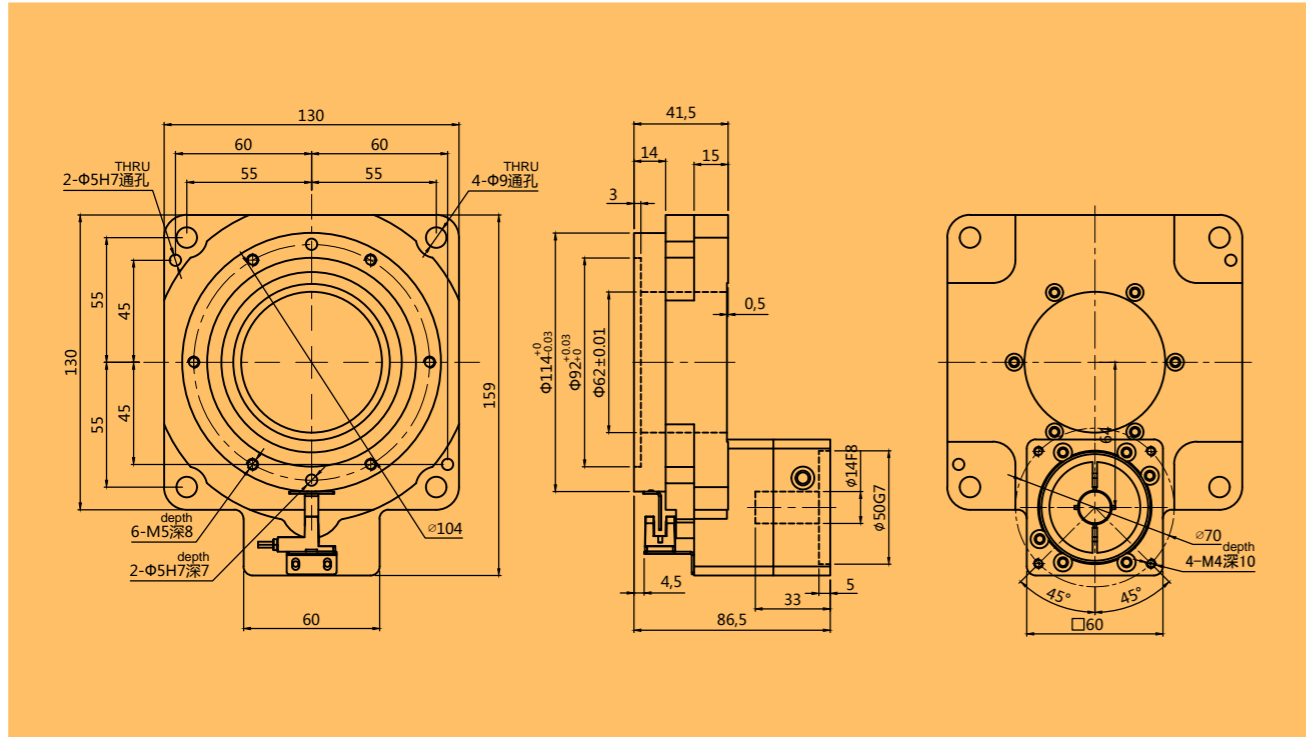
技术参数  
Technical Parameter

型号 Model		HRT130	HRT130RL/RZ/RZ(JS)						
轴承结构 Bearing structure			交叉滚子轴承 Cross roller bearing						
减速比 Reduction ratio	I	10	18	30	40	50	70	100	
额定输出扭矩 Rated output torque	N.m	50	32	50	50	50	50	50	
最大输出扭矩 Output torque	N.m	3倍额定扭矩 3 Times rated torque							
定位精度 Positioning accuracy	arc-min	≤1			≤3				
反复定位精度 Repeated positioning accuracy	arc-sec	≤15			≤30				
容许盘面转速 Allowable disk speed	rpm	200 (间歇运转) Intermittent operation							
适配伺服马达 Adapt to servo motor	W	200-750							
适配步进马达 Suitable for stepping motor		57-86 步进 Stepper							
容许轴向负载 Allowable axial load	N	2000							
容许惯性力矩 Allowable moment of inertia	N.m	50							
扭转刚性 Torsional rigidity	N.m/arcmin	19							
齿隙 Backlash		无齿隙 (可调节结构) No backlash (Adjustable structure)							
精度寿命 Accuracy life	h	30000h (间歇运转) Intermittent operation							
防护等级 Protection level	IP	50							
润滑方式 Lubrication method		长效润滑 Long-term lubrication							
安装方式 Installation method		任意 Arbitrary							
旋转平台同心度 Concentricity of rotating platform	mm	≤0.01							
旋转平台平行度 Parallelism of rotating platform	mm	≤0.013							
传动效率 Transmission efficiency	%	95					90		
噪音 Noise	db	≤60					≤60		
重量 Weight	kg	2.6					3.8		
设计承重 Design load	kg	28-40					40		

注 ① HRT130JS系列速比有30/40/50/70/100等。额定输出扭矩65N.m。 ② 旋转平台平行度有更高要求请联系我司销售人员  
① HRT130JS series speed ratio has 30/40/50/70/100 etc. The rated output torque is 65N.m. ② If the parallelism of the rotating platform has higher requirements, please contact our sales staff

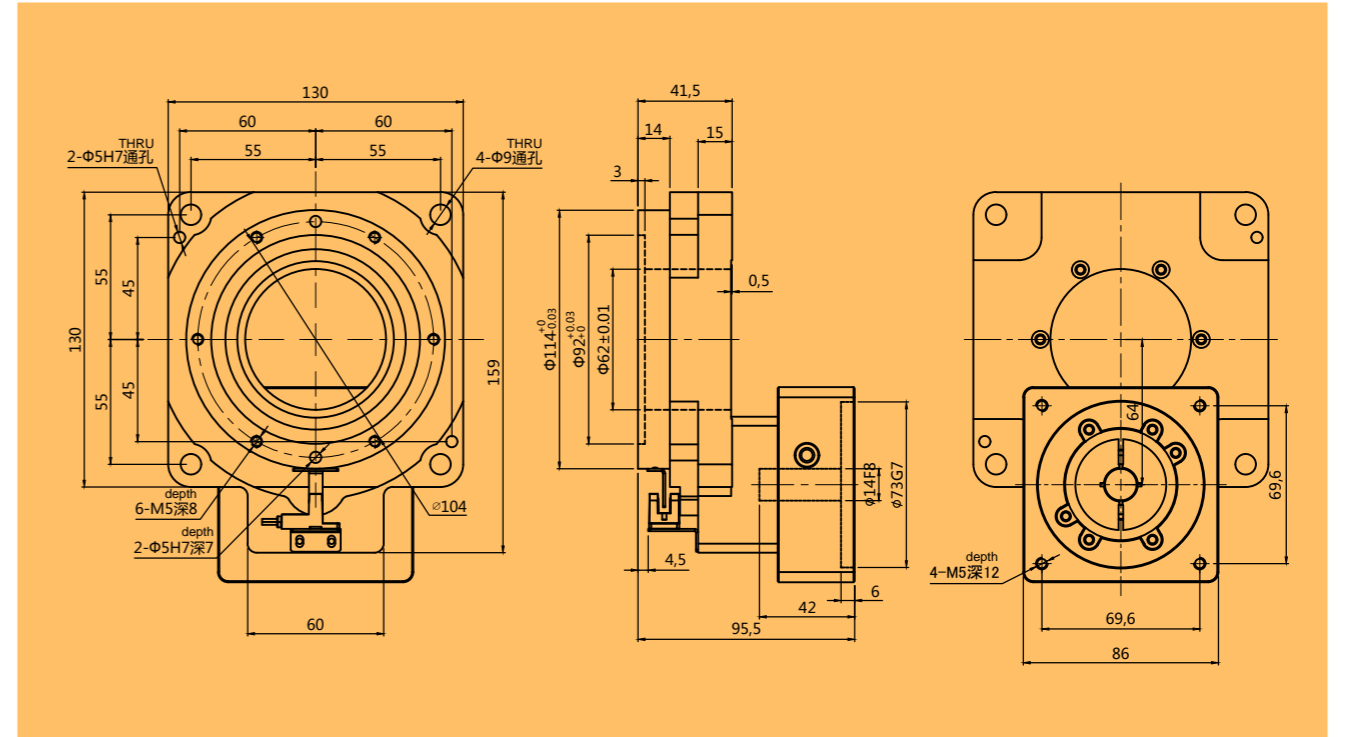
外形尺寸图表  
Outline dimensional

HRT130-10 配400W伺服接口 for 400W Servo Interface

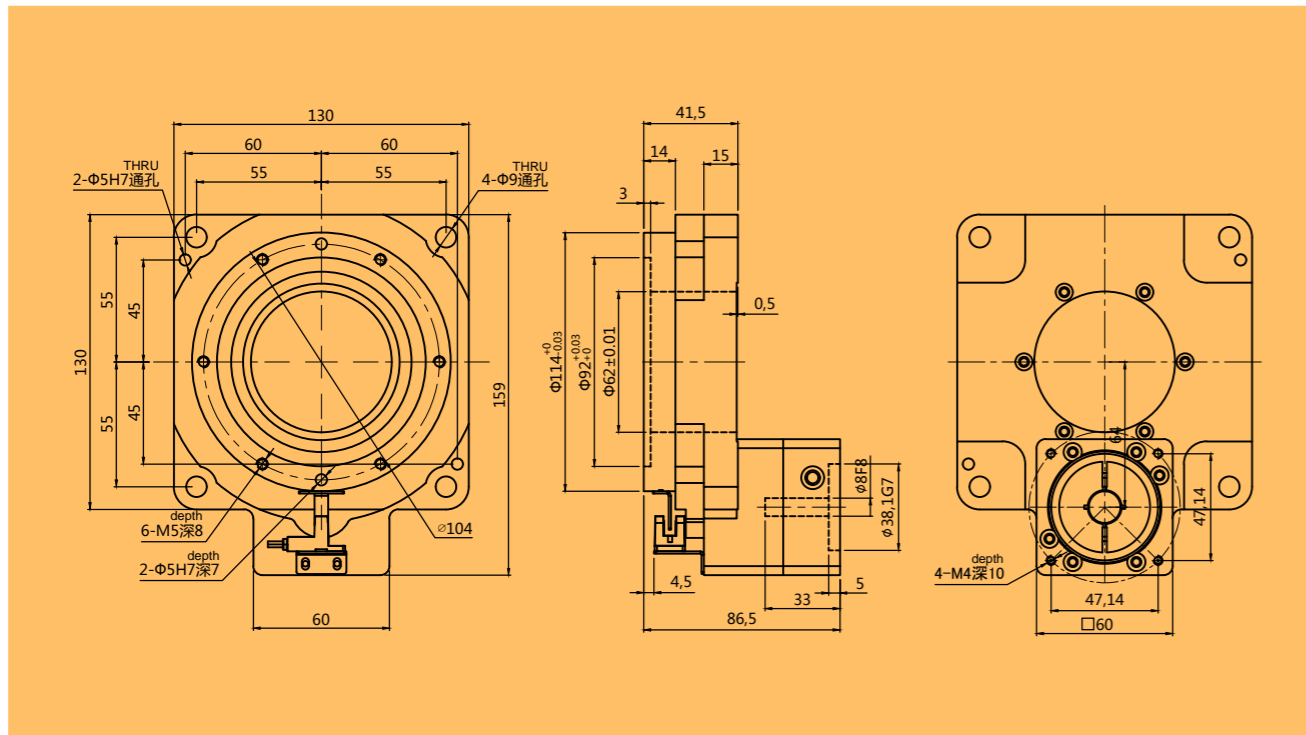


外形尺寸图表  
Outline dimensional

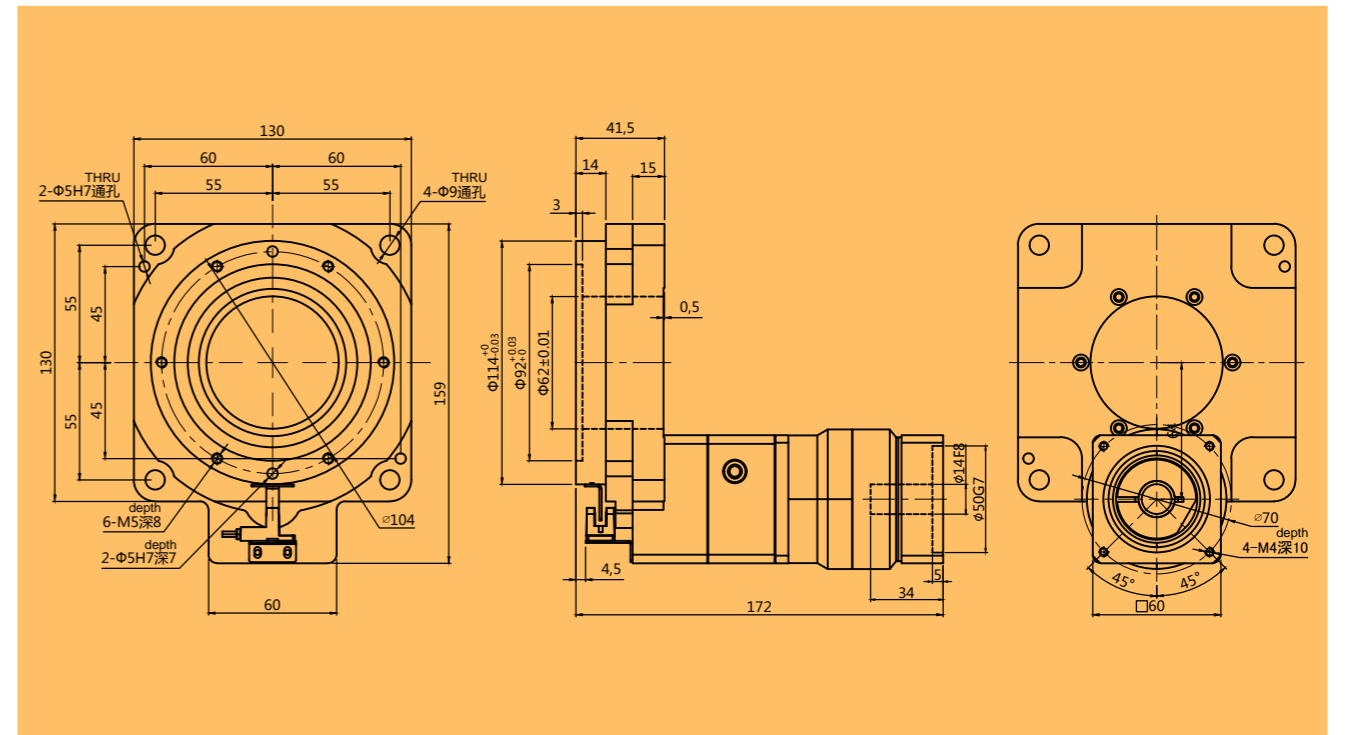
HRT130-10 配86步接口 for 86 Stepper Interface



HRT130-10 配57步接口 for 57 Stepper Interface



HRT130JS-10 配400W伺服接口 for 400W Servo Interface

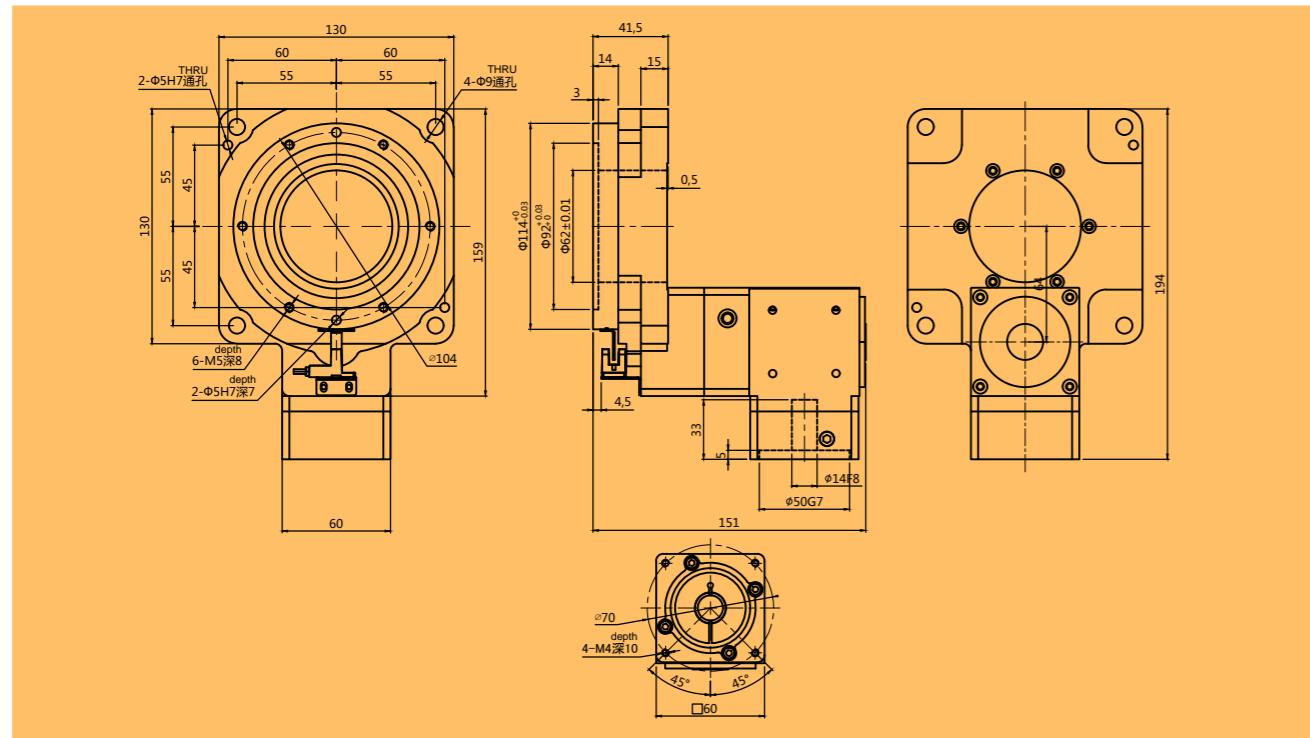


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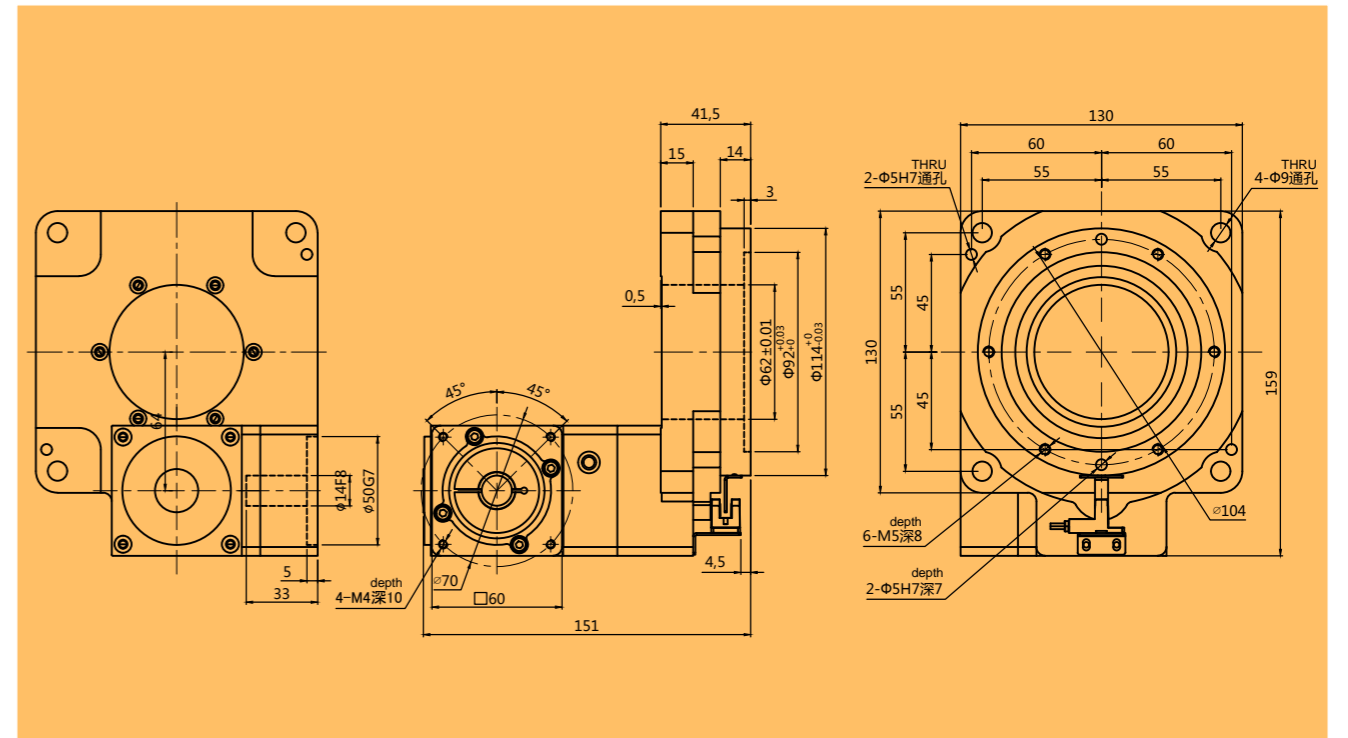
外形尺寸图表  
Outline dimensional

HRT130RL-10 配400W伺服接口 for 400W Servo Interface



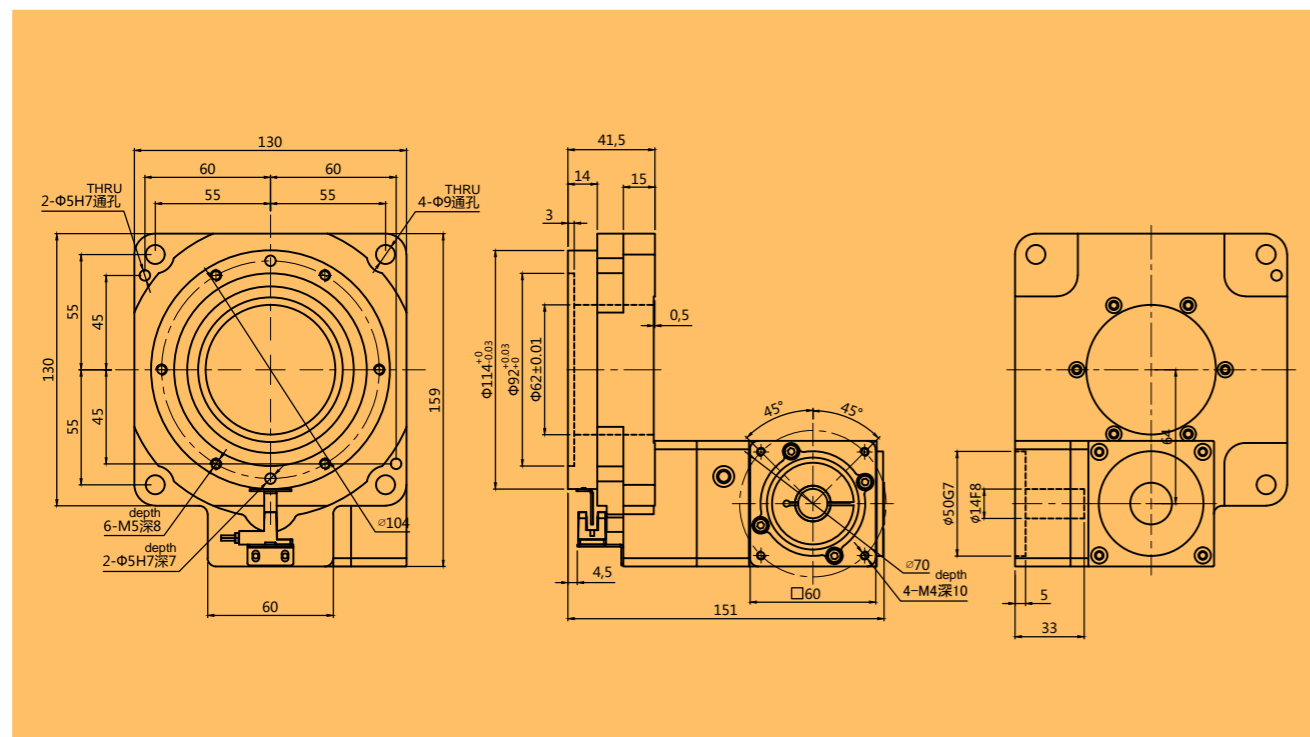
外形尺寸图表  
Outline dimensional

HRT130RZ-10 配400W伺服接口 for 400W Servo Interface

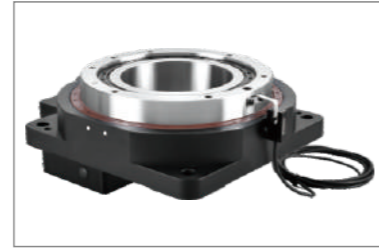


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HRT130RY-10 配400W伺服接口 for 400W Servo Interface



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订货型号表示  
Ordering Representation

<b>HRT</b>	-	<b>200</b>	-	<b>RL</b>	-	<b>10</b>	-	<b>SV1</b>
系列 Series		型号规格 Model		选配 Optional		速比 Ratio		电机类型 Motor Type
HRT HRTZ HRM HRTK HRH		60 85 130 <b>200</b> 280		RL: 直角标准 RY: 直角右 RZ: 直角左 JS: 同轴减速机  RL: Right Angle-Standard RY: Right Angle-Right Direction RZ: Right Angle-Left Direction JS: Coaxial Reducer		10 18		SV1: Servo $\phi 19$ PCD90, M5 SV2: Servo $\phi 19$ PCD90, M6 SV3: Servo $\phi 22$ PCD145, M8 Suit for 750-1500W AC Servo Motor  ST1: Stepper $\phi 8$ PCD66.67, M4 ST2: Stepper $\phi 12.7$ PCD98.4, M5 ST3: Stepper $\phi 14$ PCD98.4, M5 (60) ST4: Stepper $\phi 14$ PCD98.4, M5 (73) ST5: Stepper $\phi 14$ PCD98.4, M6 (73) ST6: Stepper $\phi 19$ PCD100, M6 Suit for 86-110 Stepper Motor

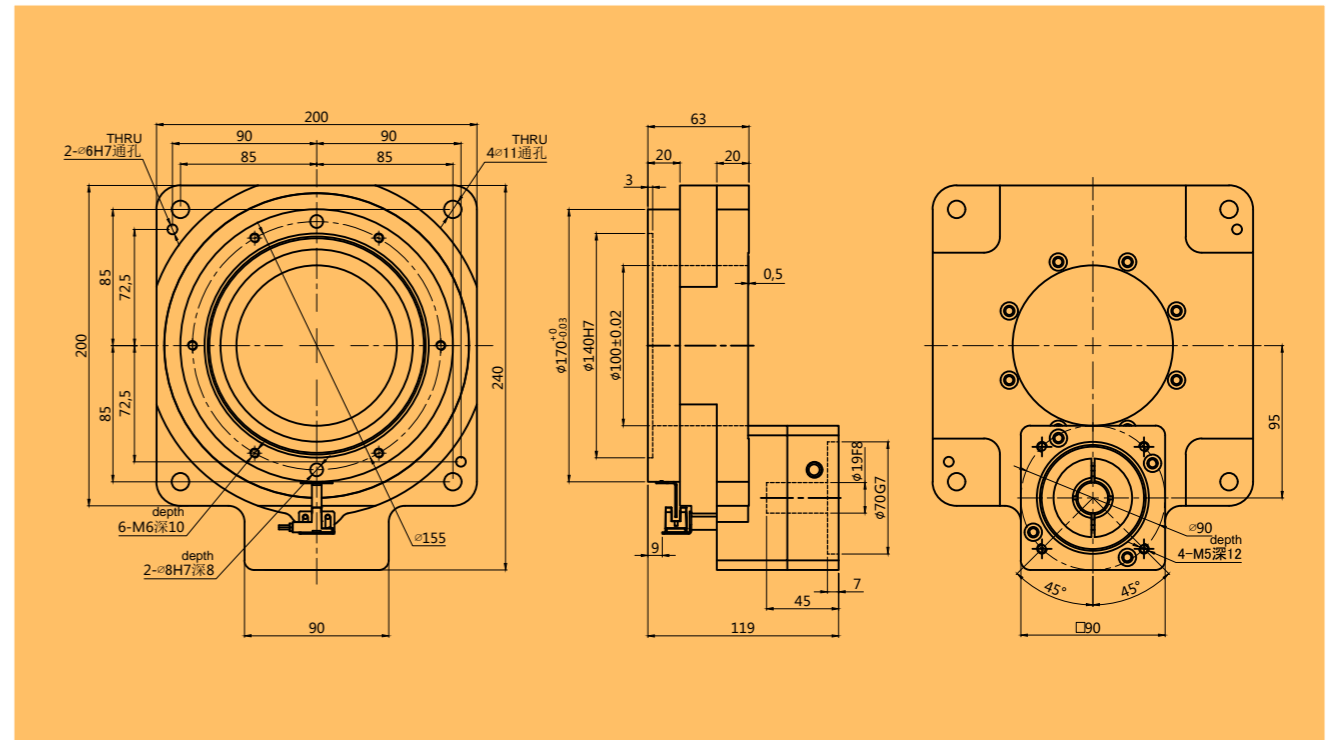
技术参数  
Technical Parameter

型号 Model		HRT200	HRT200RL/RY/RZ(JS)						
轴承结构	Bearing structure		交叉滚子轴承 Cross roller bearing						
减速比	Reduction ratio	I	10	18	30	40	50	70	100
额定输出扭矩	Rated output torque	N.m	135	87	135	135	135	135	135
最大输出扭矩	Output torque	N.m	3倍额定扭矩 3 Times rated torque						
定位精度	Positioning accuracy	arc-min	$\leq 1$			$\leq 3$			
反复定位精度	Repeated positioning accuracy	arc-sec	$\leq 15$			$\leq 30$			
容许盘面转速	Allowable disk speed	rpm	200 (间歇运转) Intermittent operation						
适配伺服马达	Adapt to servo motor	W	750-1500						
适配步进马达	Suitable for stepping motor		86-110 步进 Stepper						
容许轴向负载	Allowable axial load	N	4000						
容许惯性力矩	Allowable moment of inertia	N.m	100						
扭转刚性	Torsional rigidity	N.m/arcmin	32						
齿隙	Backlash		无齿隙 (可调节结构) No backlash (Adjustable structure)						
精度寿命	Accuracy life	h	30000h (间歇运转) Intermittent operation						
防护等级	Protection level	IP	50						
润滑方式	Lubrication method		长效润滑 Long-term lubrication						
安装方式	Installation method		任意 Arbitrary						
旋转平台同心度	Concentricity of rotating platform	mm	$\leq 0.01$						
旋转平台平行度	Parallelism of rotating platform	mm	$\leq 0.02$						
传动效率	Transmission efficiency	%	95			90			
噪音	Noise	db	$\leq 63$			$\leq 63$			
重量	Weight	kg	8.1			11.6			
设计承重	Design load	kg	50-70			70			

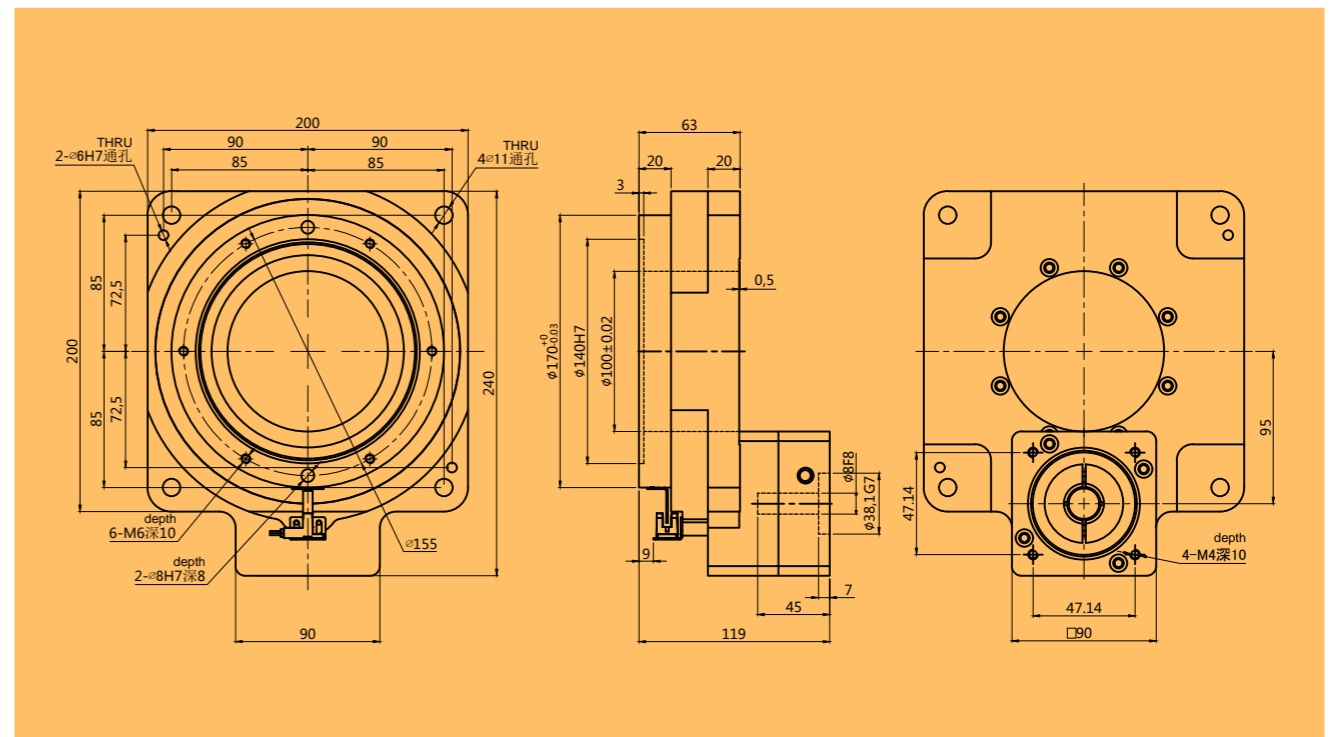
注 ①HRT200JS系列速比有30/40/50/70/100等。额定输出扭矩110N.m。 ②旋转平台平行度有更高要求请联系我司销售人员  
①HRT200JS series speed ratio has 30/40/50/70/100 etc. The rated output torque is 110N.m. ②If the parallelism of the rotating platform has higher requirements, please contact our sales staff

外形尺寸图表  
Outline dimensional

HRT200-10 配750W伺服接口 for 750W Servo Interface



HRT200-10 配86步进接口 for 86 Stepper Interface

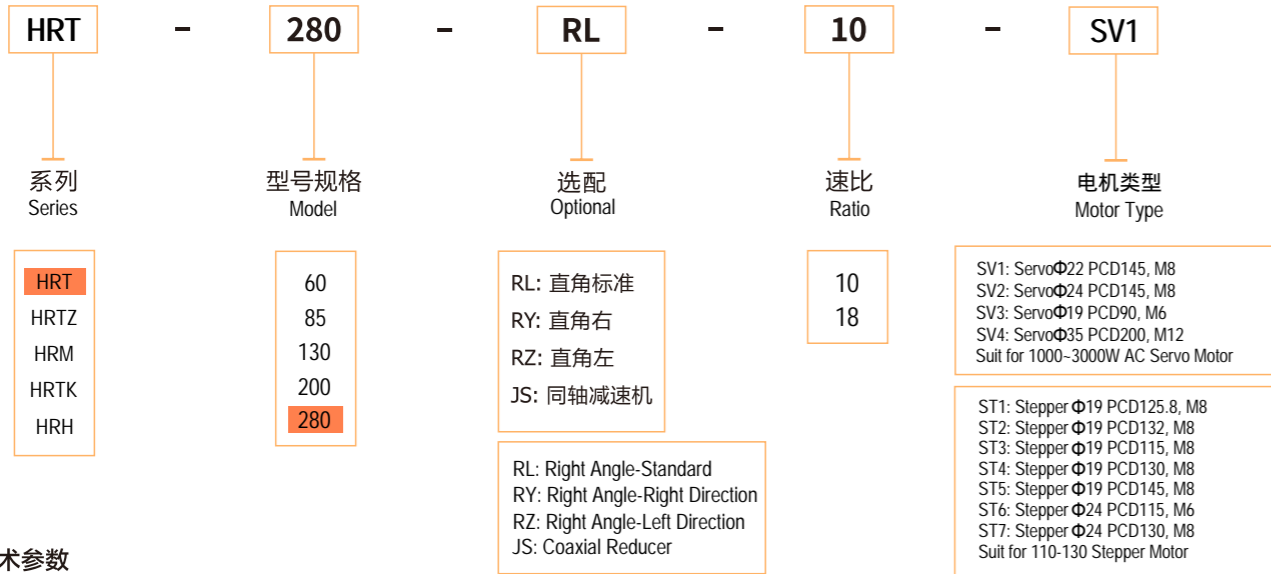


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订货型号表示

Ordering Representation

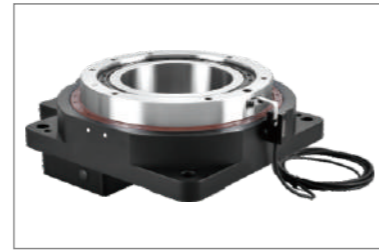


技术参数

Technical Parameter

型号 Model		HRT280	HRT280RL/RY/RZ(JS)					
轴承结构 Bearing structure		交叉滚子轴承 Cross roller bearing						
减速比 Reduction ratio	I	10	18	30	40	50	70	100
额定输出扭矩 Rated output torque	N.m	270	180	270	270	270	270	270
最大输出扭矩 Output torque	N.m	3倍额定扭矩 3 Times rated torque						
定位精度 Positioning accuracy	arc-min	≤1			≤3			
反复定位精度 Repeated positioning accuracy	arc-sec	≤15			≤30			
容许盘面转速 Allowable disk speed	rpm	150 (间歇运转) Intermittent operation						
适配伺服马达 Adapt to servo motor	W	1000-3000						
适配步进马达 Suitable for stepping motor		110-130 步进 Stepper						
容许轴向负载 Allowable axial load	N	8000						
容许惯性力矩 Allowable moment of inertia	N.m	200						
扭转刚性 Torsional rigidity	N.m/arcmin	58						
齿隙 Backlash		无齿隙 (可调节结构) No backlash (Adjustable structure)						
精度寿命 Accuracy life	h	30000h (间歇运转) Intermittent operation						
防护等级 Protection level	IP	50						
润滑方式 Lubrication method		长效润滑 Long-term lubrication						
安装方式 Installation method		任意 Arbitrary						
旋转平台同心度 Concentricity of rotating platform	mm	≤0.015						
旋转平台平行度 Parallelism of rotating platform	mm	≤0.03						
传动效率 Transmission efficiency	%	95			90			
噪音 Noise	db	≤ 67			≤ 67			
重量 Weight	kg	20.3			28			
设计承重 Design load	kg	150			150			

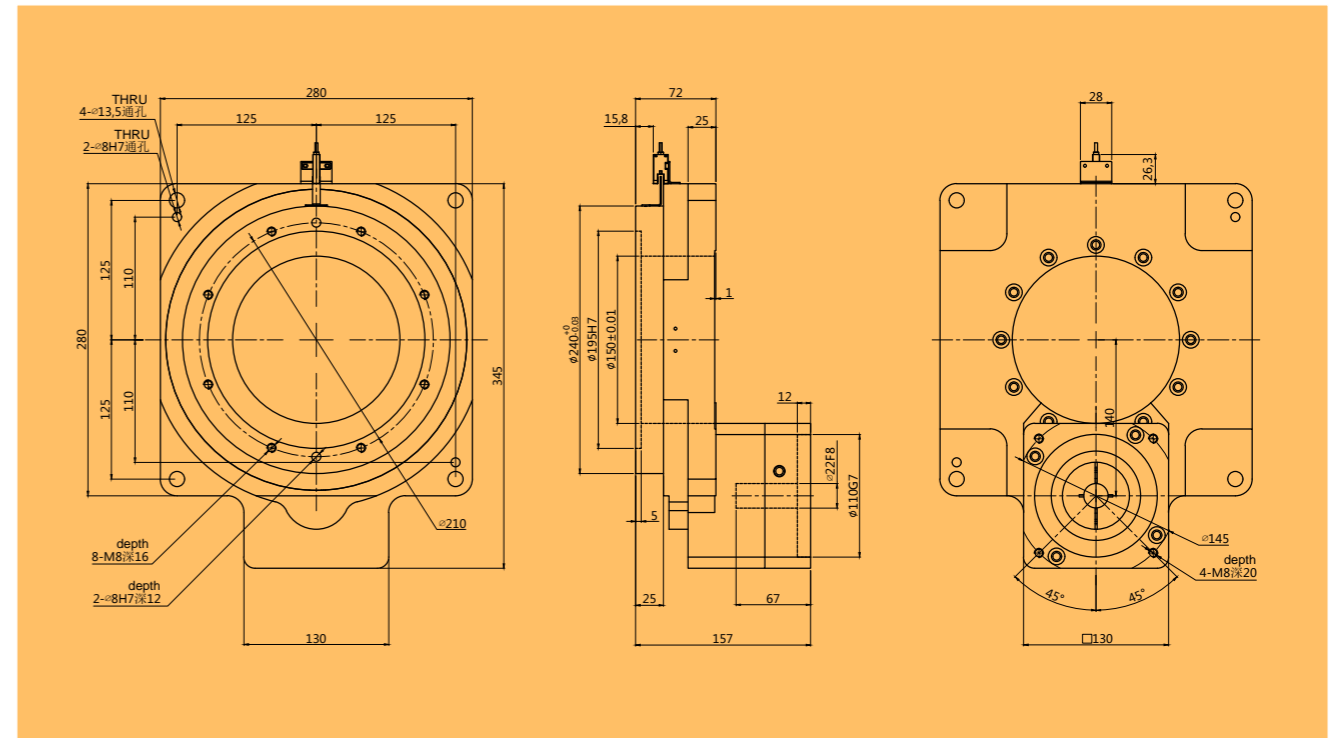
注 旋转平台平行度有更高要求请联系我司销售人员  
If the parallelism of the rotating platform has higher requirements, please contact our sales staff



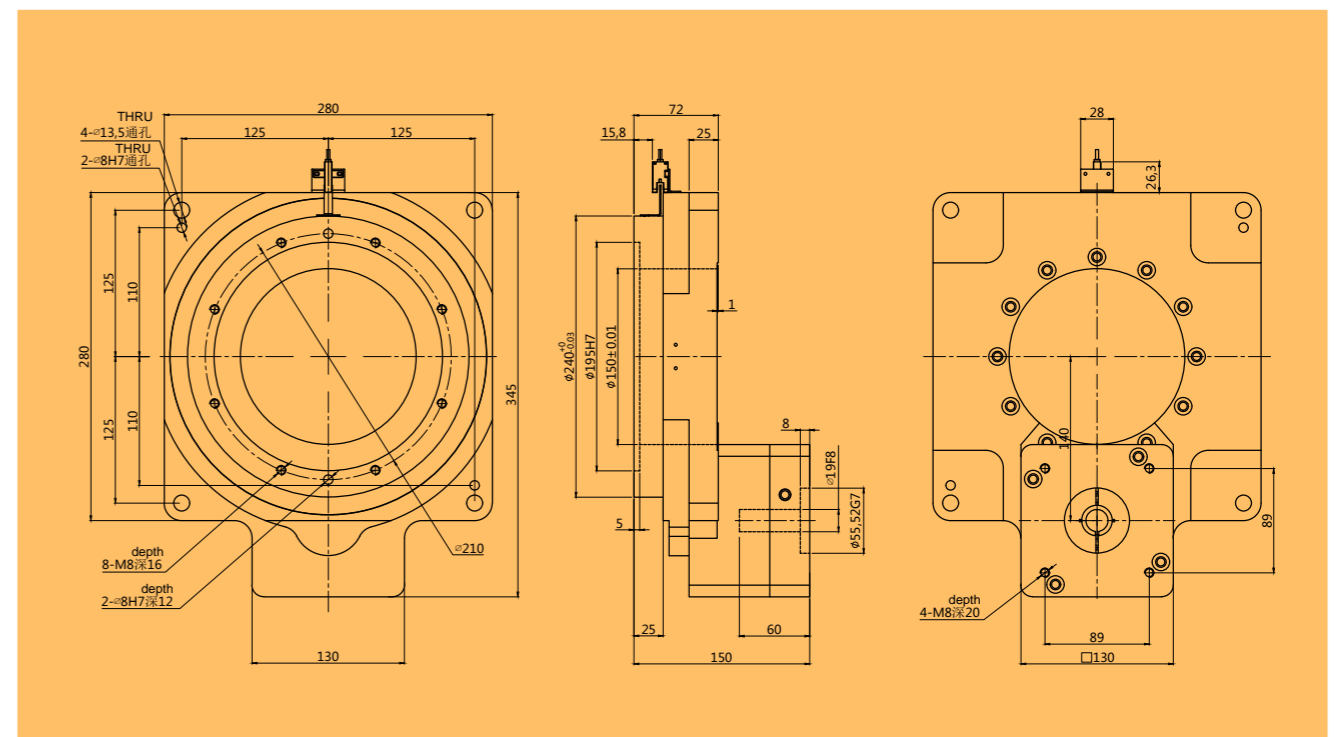
外形尺寸图表

Outline dimensional

HRT280-10 配1KW伺服接口 for 1KW Servo Interface



HRT280-10 配110步进接口 for 110 Stepper Interface



\* 以上技术参数仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。  
The above data is for reference only. Based on the data provided by the customer, relevant technical parameters and dimensions will be provided