

TTRV-E 系列 TTRV-E SERIES

輕盈薄型的機身

COMPACT AND LIGHT WEIGHT



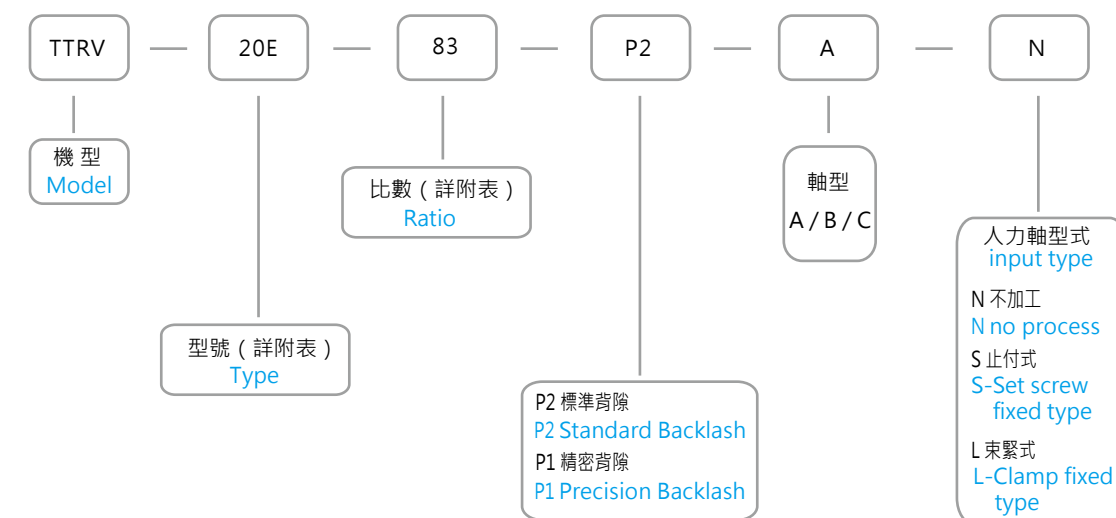
Overview

- Type : TTRV-6E ~ TTRV-450E
- Backlash : $\leq 1-3$ Arc.min
- Ratio : $1/61 \sim 1/361$
- Rotation : Shaft Run or Case Run
(Fixed output shaft rotation into a shell)
- Rated output torque : 72NM ~ 4410NM
- 型 式 : TTRV-6E ~ TTRV-450E
- 背 隙 : $\leq 1-3$ 弧分
- 減速比 : $1/61 \sim 1/361$
- 轉動方式 : 軸轉動 or 殼轉動
(固定出力軸變成殼轉動)
- 額定輸出扭矩 : 72NM ~ 4410NM

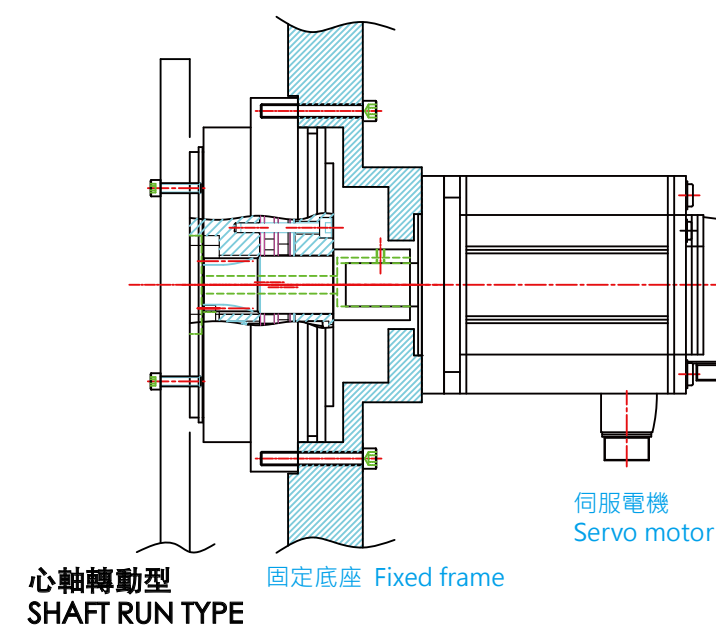
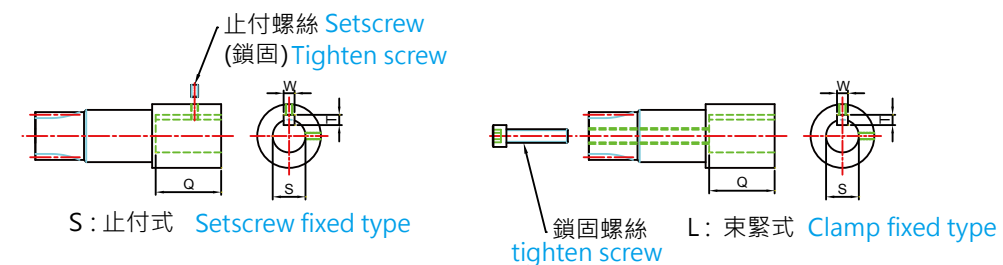
TTRV-E 訂購說明 TTRV-E ORDERING INSTRUCTIONS

● 機型代碼 ORDERING CODE EXAMPLE :

(型號和比數請參考後面附表 For the type and ratio, please refer to technical specifications table.)



● 入力軸型式選擇 Selection of input type :



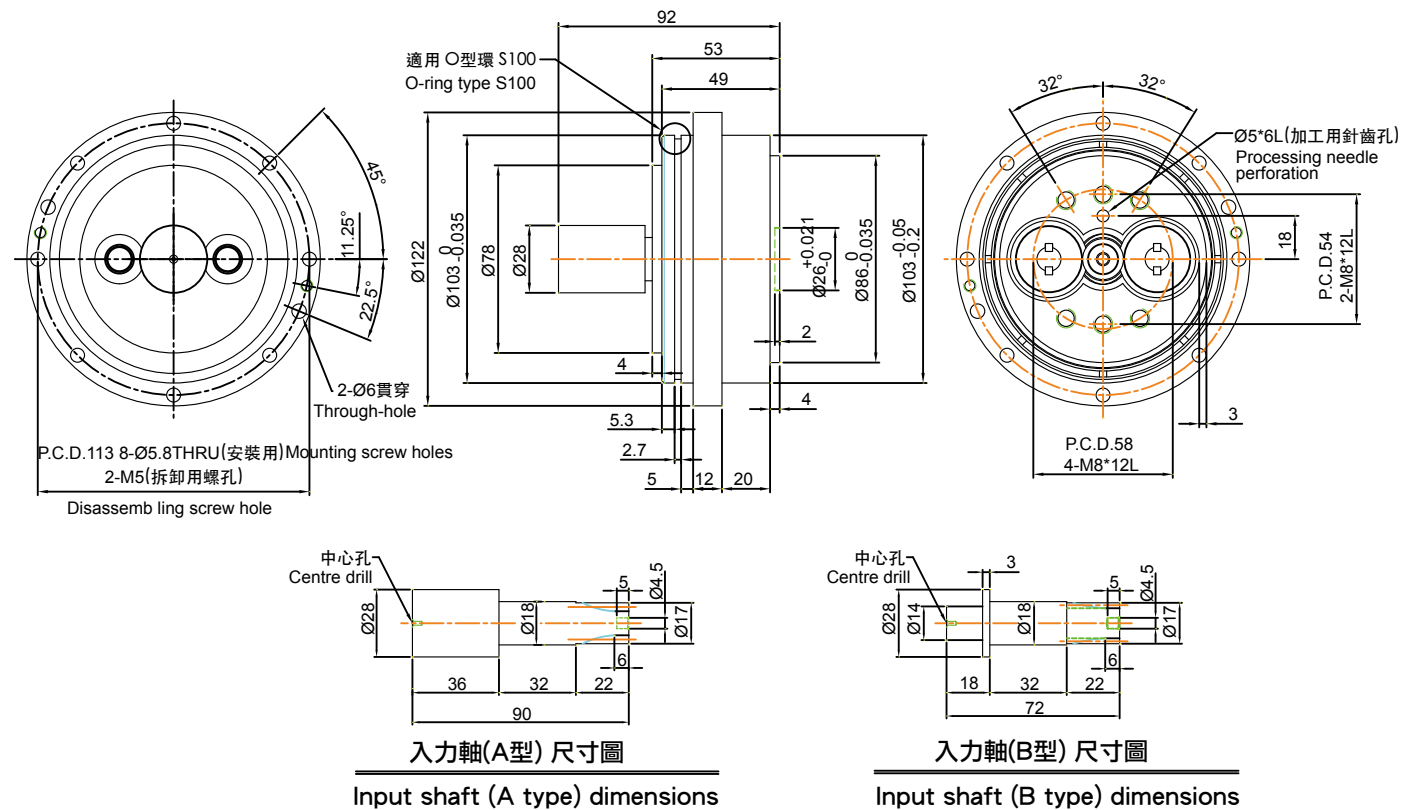
TTRV-E 性能表 TTRV-E TECHNICAL SPECIFICATION TABLE

TTRV-E Technical Specification Table								TTRV-E Technical Specification Table											
Specification 規 格		TTRV-6E		TTRV-20E		TTRV-40E		TTRV-80E		TTRV-110E		TTRV-160E		TTRV-320E		TTRV-450E		TTRV-700E	
Rotation 轉動方式		Shaft Run 軸轉動	Case Run 殼轉動	Shaft Run 軸轉動	Case Run 殼轉動	Shaft Run 軸轉動	Case Run 殼轉動	Shaft Run 軸轉動	Case Run 殼轉動	Shaft Run 軸轉動	Case Run 殼轉動	Shaft Run 軸轉動	Case Run 殼轉動	Shaft Run 軸轉動	Case Run 殼轉動	Shaft Run 軸轉動	Case Run 殼轉動	-	
Ratio 減速比		61	60	61	60	61	60	83	82	79	78	109	108	109	108	121	120	-	
		83	82	83	82	83	82	103	102	109	108	124	123	124	123	181	180		
		103	102	103	102	103	102	121	120	124	123	154	153	181	180	241	240		
				121	120	121	120	161	160	154	153	181	180	241	240	301	300		
		-	-	-	-	161	160	201	200	181	180	241	240	301	300	361	360		
Rated Output Torque 額定輸出扭矩	Nm kgf-m	72 (8.34)		167 (17)		412 (42)		784 (80)		1078 (110)		1568 (160)		3136 (320)		4410 (450)		-	
Acceleration & Braking Torque 加速和制動扭矩	Nm kgf-m	117 (12)		412 (42)		1029 (105)		1960 (200)		2695 (275)		3920 (400)		7840 (800)		11025 (1125)		-	
Instantaneous Max. Allowable Torque 瞬時最大容許轉矩	Nm kgf-m	294 (30)		833 (85)		2058 (210)		3920 (400)		5390 (550)		7840 (800)		15680 (1600)		22050 (2250)		-	
Rated Input Speed 額定輸入轉速	Nr (rpm)	2000		2000		2000		2000		2000		2000		1500		1500		-	
Rated Lifetime 額定壽命	Hr	6000		6000		6000		6000		6000		6000		6000		6000		-	
Allowable Max. Input Speed 瞬時容許最高輸入轉速	Nmax (rpm)	3000		3000		2500		2500		2500		2000		2000		2000		-	
Tilting Stiffness 傾斜鋼度	Nm/arc.min kgf-m/arc.min	117 (12)		372 (38)		931 (95)		1176 (120)		1470 (150)		2940 (300)		4900 (500)		7448 (760)		-	
Torsional Stiffness 扭轉鋼度	Nm/arc.min kgf-m/arc.min	20 (2)		49 (5)		108 (11)		196 (20)		294 (30)		392 (40)		980 (100)		1176 (120)		-	
Max.Lost Motion 最大無效行程	(arc.min)	<2.0		<2.0		<1.5		<1.0		<1.0		<1.0		<1.0		<1.0		-	
Angular Transmission Error 扭轉傳輸中角度偏移量	ATE (arc.sec)	80		40		40		40		40		40		40		40		-	
Backlash 背隙	Standard Backlash 標準背隙	(arc.min)		<3.0		<3.0		<3.0		<3.0		<3.0		<3.0		<3.0		-	
	Precision Backlash 精密背隙																		
Maximum Tilting Moment 最大傾斜力矩	Nm kgf-m	392 (40)		1764 (180)		3332 (340)		4312 (440)		5880 (600)		7840 (800)		14112 (1440)		17640 (1800)		-	
Rated Radial Force 額定徑向力	Nm	196		882		1666		2156		2940		3920		7056		8820		-	
Max. Axial Force 最大軸向推力	N	1470		3920		5194		7840		10780		14700		19600		24500		-	
(I=GD ² /4)		1.08×10 ⁻⁶		6.01×10 ⁻⁶		2.10×10 ⁻⁵		5.75×10 ⁻⁵		1.03×10 ⁻⁴		1.52×10 ⁻⁴		3.88×10 ⁻⁴		5.70×10 ⁻⁴		-	
		-		4.30×10 ⁻⁶		1.65×10 ⁻⁵		4.81×10 ⁻⁵		7.02×10 ⁻⁴		1.12×10 ⁻⁴		3.08×10 ⁻⁴		3.32×10 ⁻⁴			
		-		3.58×10 ⁻⁶		1.38×10 ⁻⁵		3.98×10 ⁻⁵		6.85×10 ⁻⁴		0.78×10 ⁻⁴		1.83×10 ⁻⁴		2.35×10 ⁻⁴			
		-		-		0.95×10 ⁻⁵		2.58×10 ⁻⁵		4.85×10 ⁻⁴		0.70×10 ⁻⁴		1.10×10 ⁻⁴		1.45×10 ⁻⁴			
		-		-		-		-		4.01×10 ⁻⁴		0.48×10 ⁻⁴		0.70×10 ⁻⁴		-			
Weight 重量	KG	2.8		5		10		16		20		28.5		50		76		-	

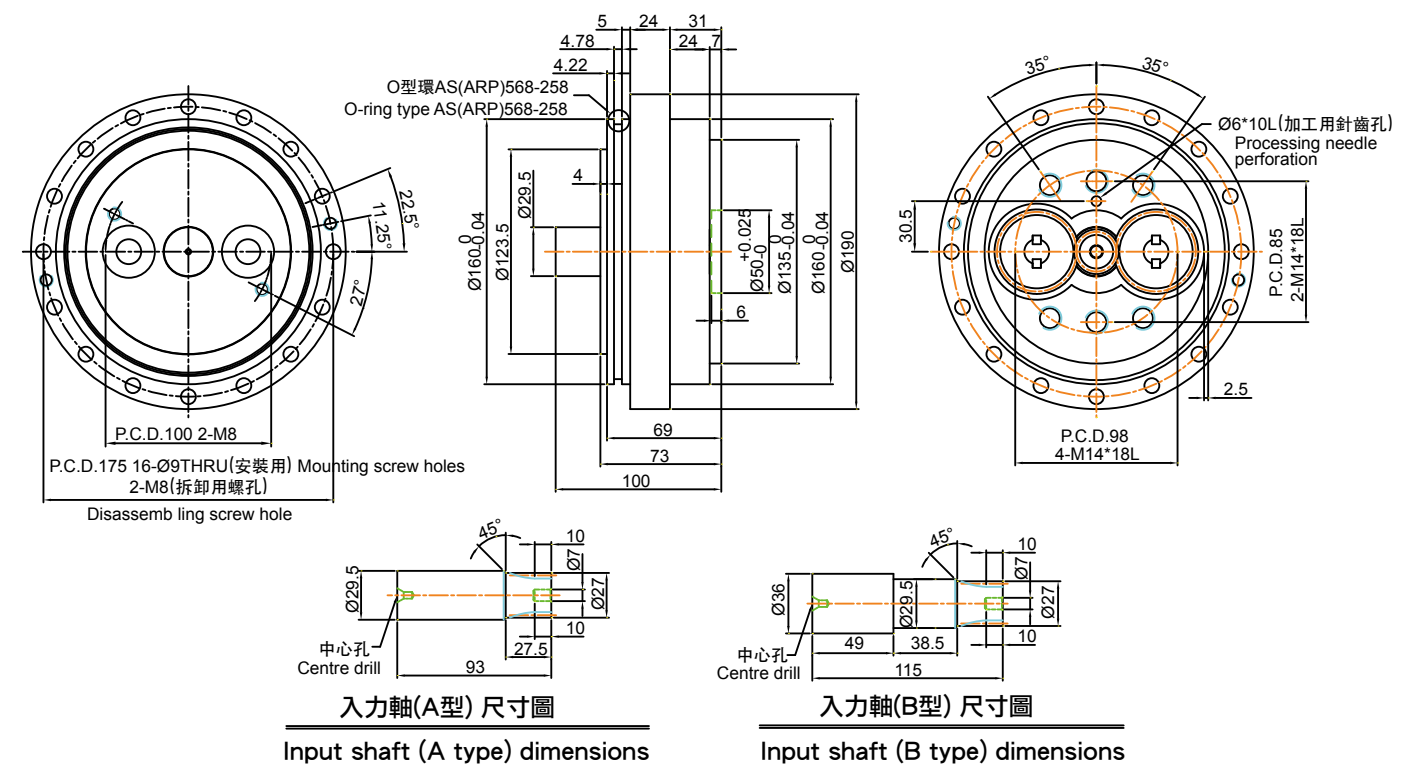
PS:需要上述速比之外的減速比時，請洽詢本公司，電機轉速超出額定輸入轉速時，運轉噪音將會提高，請注意
減速機容許負載使用表面溫度需低於70℃。
Please contact us for other ratio selections.Please be noted that the noise will be increased when the input speed (RPM:revolution per minute)of motor is higher than rated input speed; the operating temperature and motor service temperature should be under 70℃.

TTRV-E 尺寸圖 DRAWING & DIMENSION

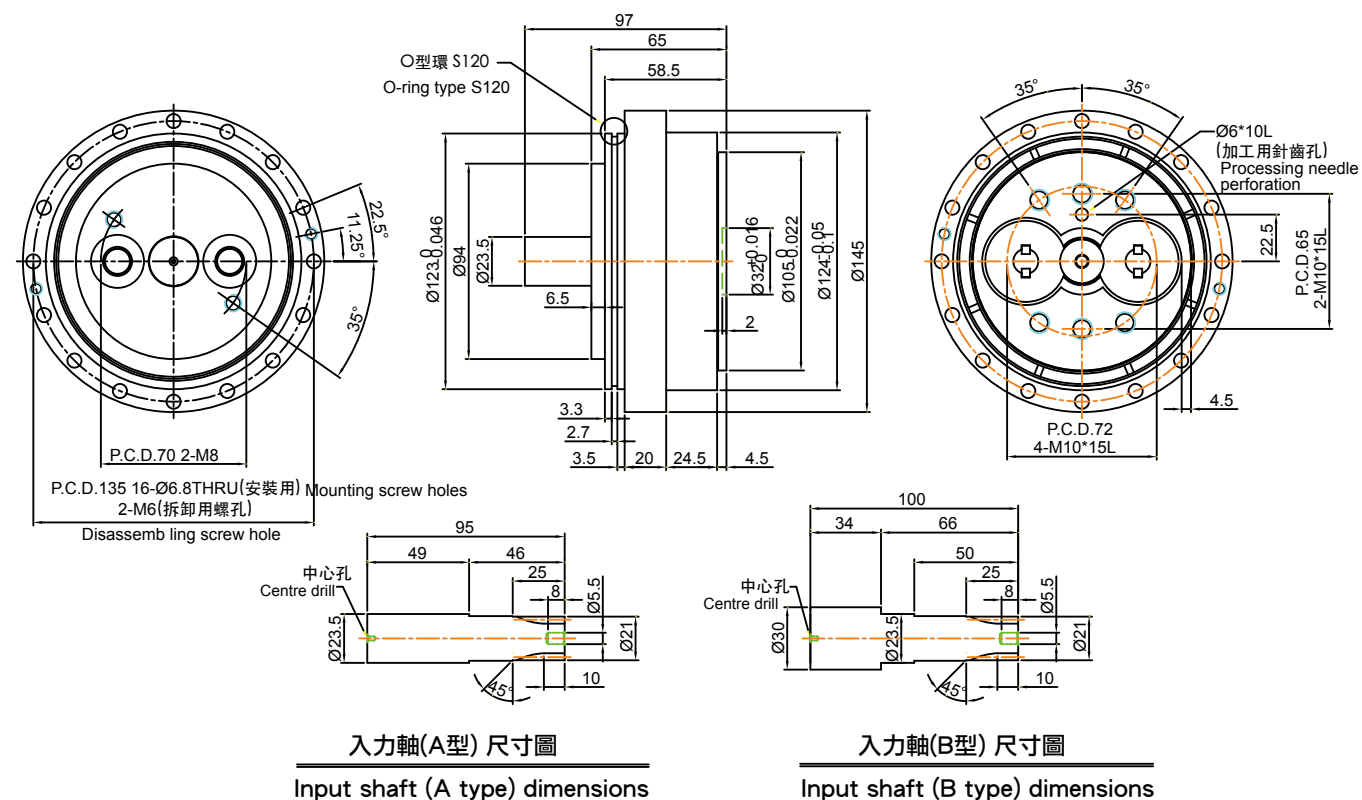
TTRV-6E



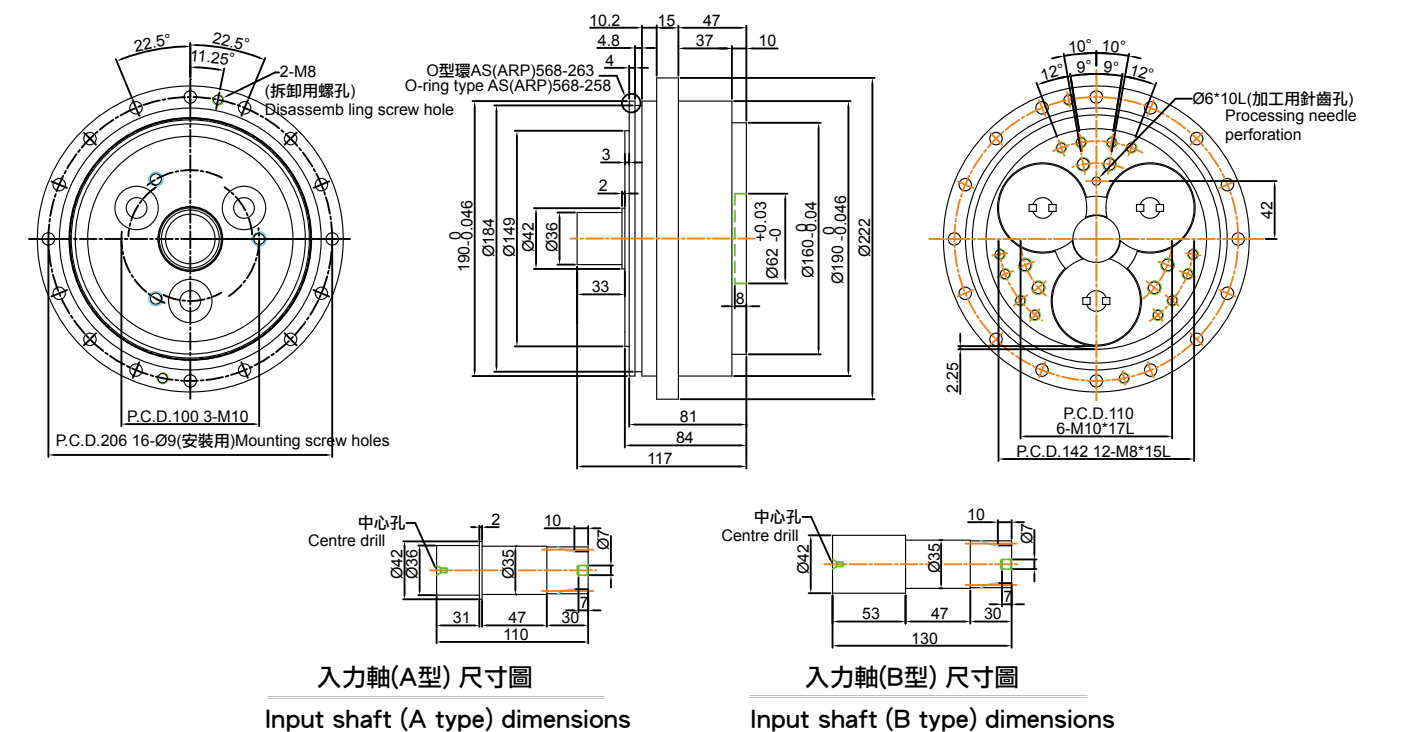
TTRV-40E



TTRV-20E

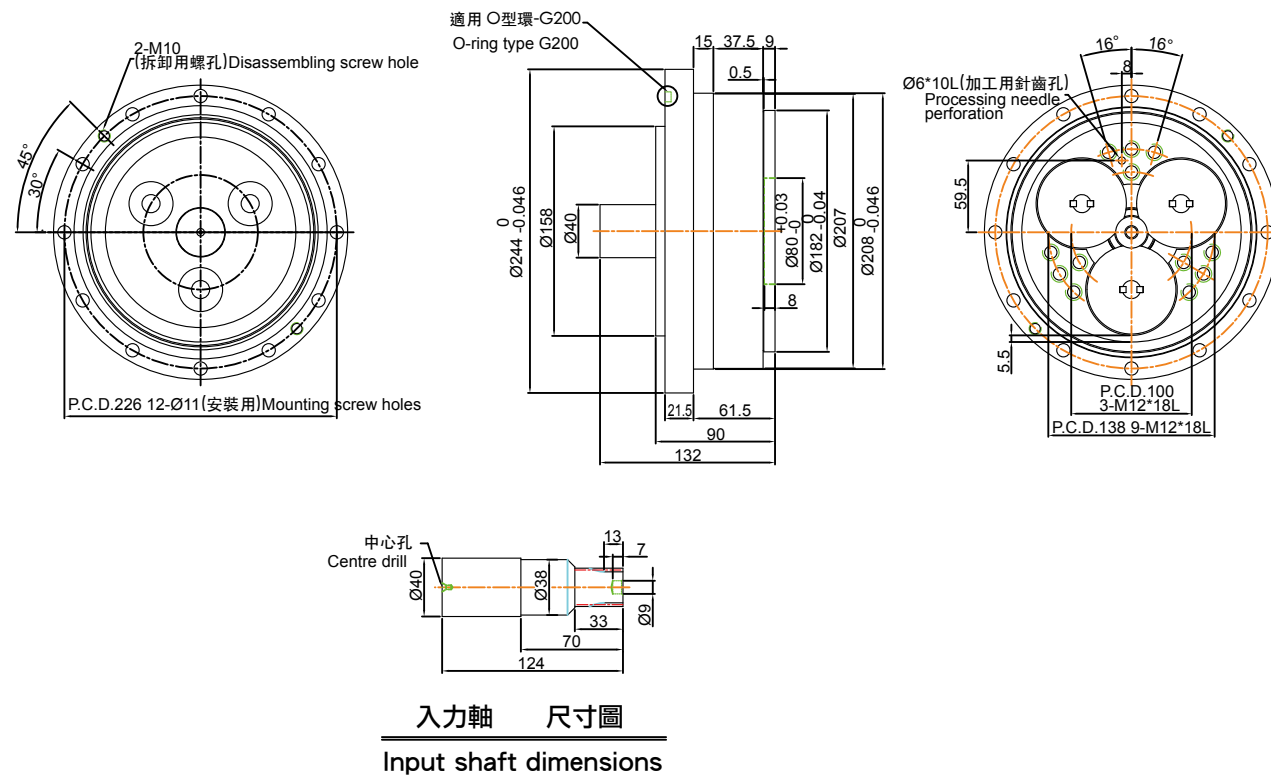


TTRV-80E

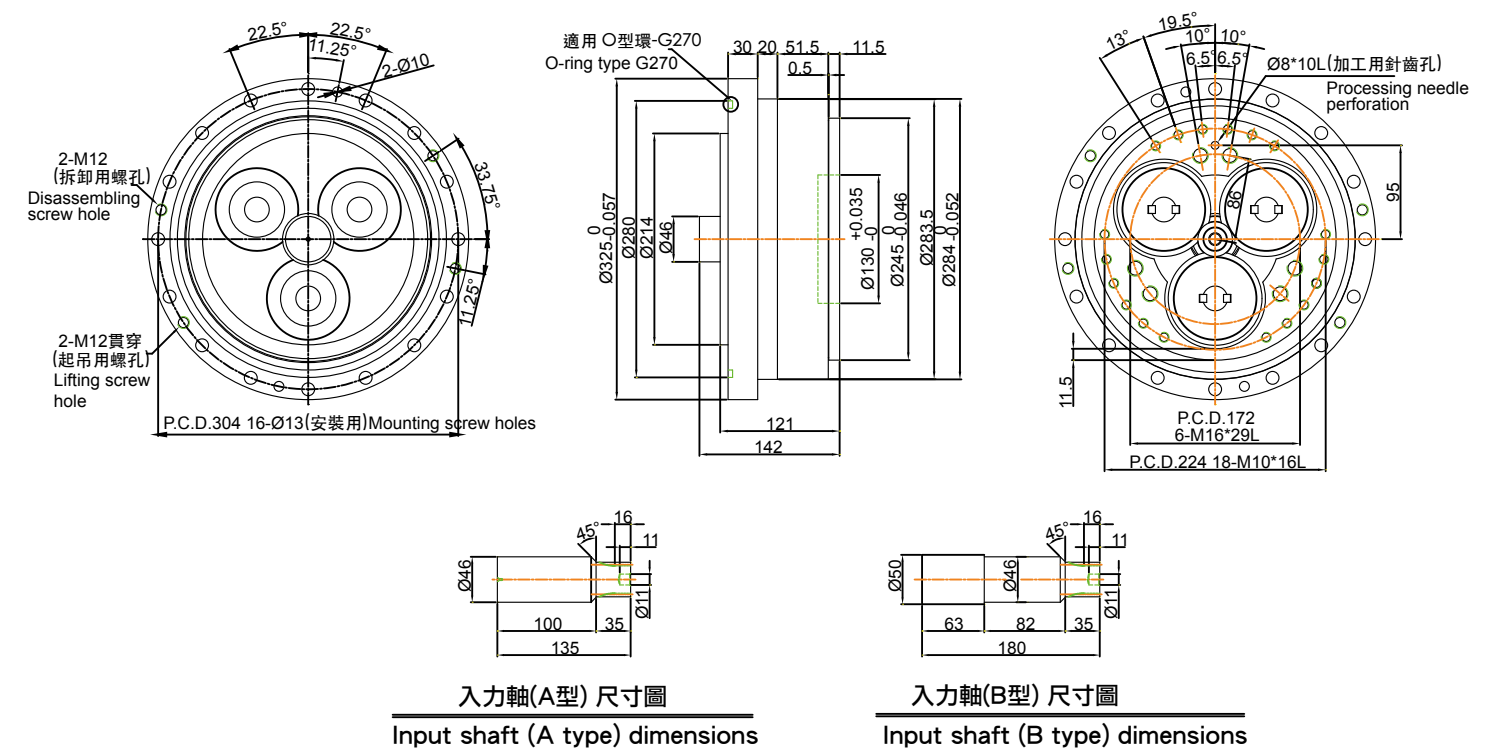


TTRV-E 尺寸圖 DRAWING & DIMENSION

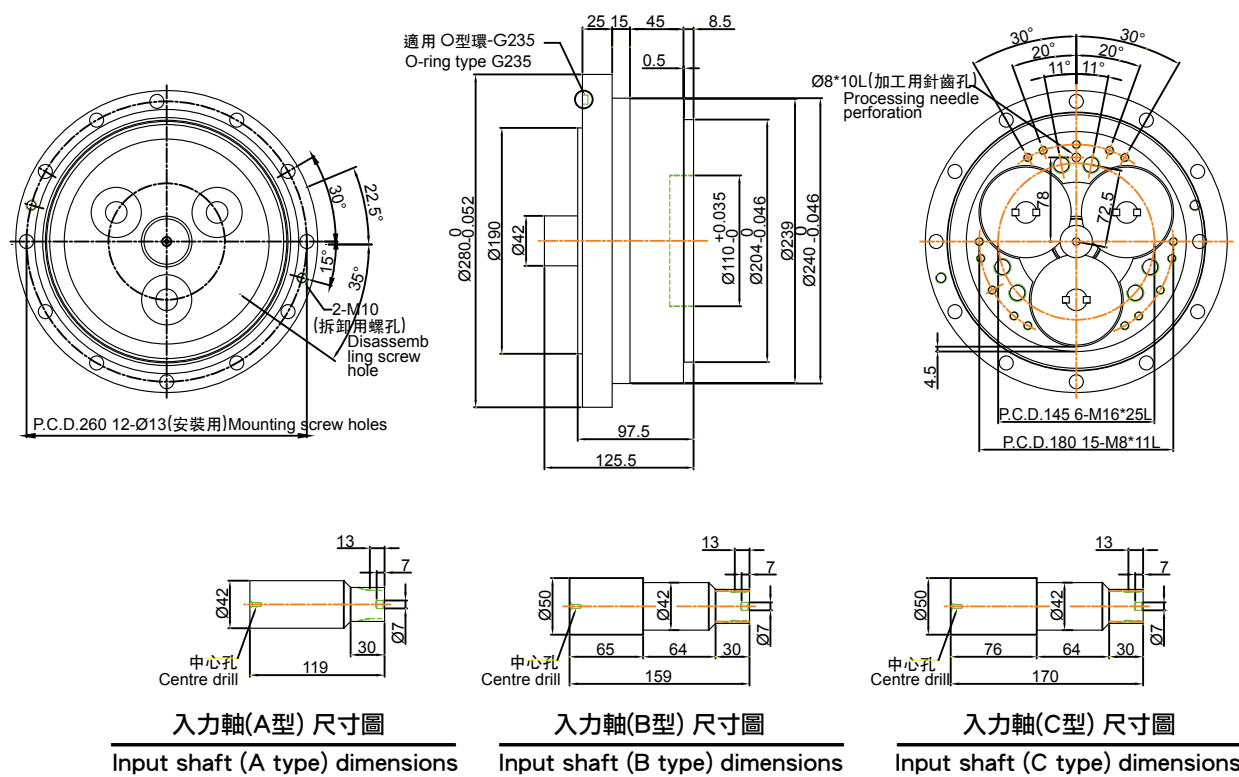
TTRV-110E



TTRV-320E



TTRV-160E



TTRV-450E

