

油壓齒式分割盤 Hydraulic Coupling Gear Indexer



EXT-470H

EXT - 470 H

- H** 臥式機 Horizontal
- V** 立式機 Vertical
- P** 旋轉工作台 Swing Pallet

盤面尺寸 Table diameter

油壓驅動・三片離合齒定位

型式 Model		EXT-200H	EXT-340H	EXT-470H
盤面直徑 Table diameter	mm	Ø 200	Ø 340	Ø 470
基準中心孔 Center bore	mm	Ø 36 H6	Ø 65 H6	Ø 90 H6
基準中心孔深度 Depth of center bore	mm	30	11	11
主軸中心穿透孔 Diameter of center through hole	mm	Ø 27	Ø 30.5	Ø 41
水平放置總高 Overall height (Horizontally)	mm	175	210	240
油壓使用壓力 Hydraulic pressure	kg/cm ²	30	30	35
分割精度 (累積值) Indexing accuracy (accumulative)	arc sec	4"	4"	4"
重現精度 Repeatability	arc sec	±1"	±1"	±1"
分割台等分割數 (標準) Indexing number (standard)	4 / 6 / 8 / 12 / 24 (擇一 One of them)			
分割台等分割數 (特殊) Indexing number (special)	2 / 3 / 5 / 9 ... 接受特殊等分訂購 By special order			
旋轉方向 Rotating direction	正反轉皆可 CW & CCW			
旋轉 90° 的時間方向 Indexing time of 90°	sec	2	2.5	3.5
容許瞬間慣性 GD ² Permissible instant inertia GD ²	kg-m ²	7	85	180
旋轉扭力 Rotation torque	kg-m	25	57	86
鎖緊扭力 Clamping torque	F	kg N	1260 12340	3970 38500
	FxR	kg-m N-m	108 1060	332 3250
	FxH	kg-m N-m	55 541	145 1423
容許積載荷重 Load Capacity	0°	kg	120	500
淨重 Net weight	kg	46	120	266

* 旋轉 90° 的時間 (鬆開、旋轉、鎖緊) 係指在使用壓力 30kg/cm²、2HP、30L/min... 等條件下的測試值
Indexing time 90° (Unclamp, rotate, clamp) is measured under the condition of 30 kg/cm², 2HP, 30L/min, etc.

Technical drawings of the HPS-100 hydraulic pump, showing dimensions and labels for various components.

Top View (Left):

- PT 3/8 鬆開入油口 (PT 3/8 Release Inlet)
- 45
- 104
- 72
- 72

Front View (Center):

- 禁止加工範圍 $\varnothing 100$ (No Machining Area $\varnothing 100$)
- 可加工深度 20 (Machining Depth 20)
- 260
- 120
- 120
- 4- $\varnothing 11$
- 2- $\varnothing 10$
- 125
- 135
- 277
- 20
- 130
- 220
- 360
- 右旋轉緩衝 (Right Rotation Buffer)
- 左旋轉緩衝 (Left Rotation Buffer)

Top View (Right):

- PT 3/8 鎖緊入油口 (PT 3/8 Tighten Inlet)
- 45
- 104
- 65
- 48.5
- 93
- 信號線出口 (Signal Line Outlet)

Side View (Bottom):

- $\varnothing 200$
- $\varnothing 30$
- 30
- 40
- 175
- 127
- 169
- 169
- $\varnothing 27$
- PT 3/8 左旋轉入油口 (PT 3/8 Left Rotation Inlet)
- PT 3/8 右旋轉入油口 (PT 3/8 Right Rotation Inlet)

[illegible]

Technical drawing of the H-1000 hydraulic cylinder showing three views: front, side, and top. The front view shows a circular body with a central port and six mounting holes. The side view shows the cylinder's profile with a 12mm diameter port. The top view shows the cylinder's base with four mounting holes and a central port. Dimensions are provided in millimeters.

Front View Dimensions:

- Overall width: 550
- Overall height: 470
- Inner diameter: $\varnothing 220$
- Outer diameter: $\varnothing 255$
- Mounting hole diameter: 6- $\varnothing 20$
- Central port diameter: $\varnothing 15^{+0.018}_0$
- Mounting hole offset: 185
- Mounting hole offset: 30
- Mounting hole offset: 65
- Mounting hole offset: 60
- Mounting hole offset: 150
- Mounting hole offset: 235
- Mounting hole offset: 30
- Mounting hole offset: 235
- Mounting hole offset: 688
- Mounting hole offset: 470

Side View Dimensions:

- Overall height: 121
- Overall width: 34
- Port diameter: 12
- Port diameter: $\varnothing 41$
- Port diameter: $\varnothing 90^{+0.035}_0$
- Port diameter: $\varnothing 470$
- Port diameter: 100

Top View Dimensions:

- Overall width: 288
- Overall height: 240
- Mounting hole diameter: PT 3/8
- Mounting hole diameter: 155
- Mounting hole diameter: 155
- Mounting hole diameter: 60
- Mounting hole diameter: 169.5
- Mounting hole diameter: 75
- Mounting hole diameter: 120
- Mounting hole diameter: 288
- Mounting hole diameter: 288
- Mounting hole diameter: 128
- Mounting hole diameter: 67
- Mounting hole diameter: 12
- Mounting hole diameter: 34
- Mounting hole diameter: 100
- Mounting hole diameter: 121

Labels:

- 可加工深度35
- 2- $\varnothing 15^{+0.018}_0$
- 右旋轉緩衝
- 左旋轉緩衝
- PT 3/8 鬆開入油孔
- PT 3/8 鎖緊入油孔
- PT 3/8 左旋轉入油口
- PT 3/8 右旋轉入油口
- 信號線出口

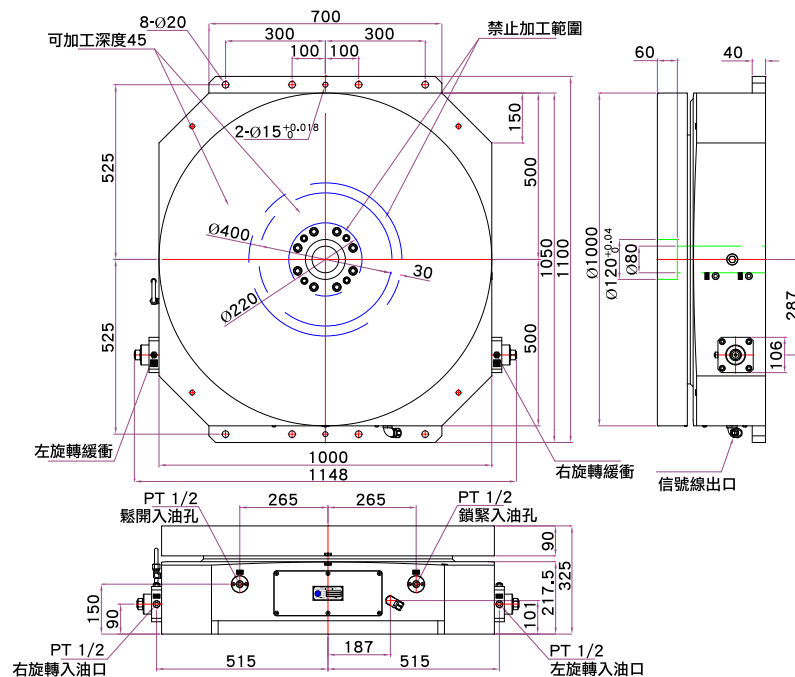
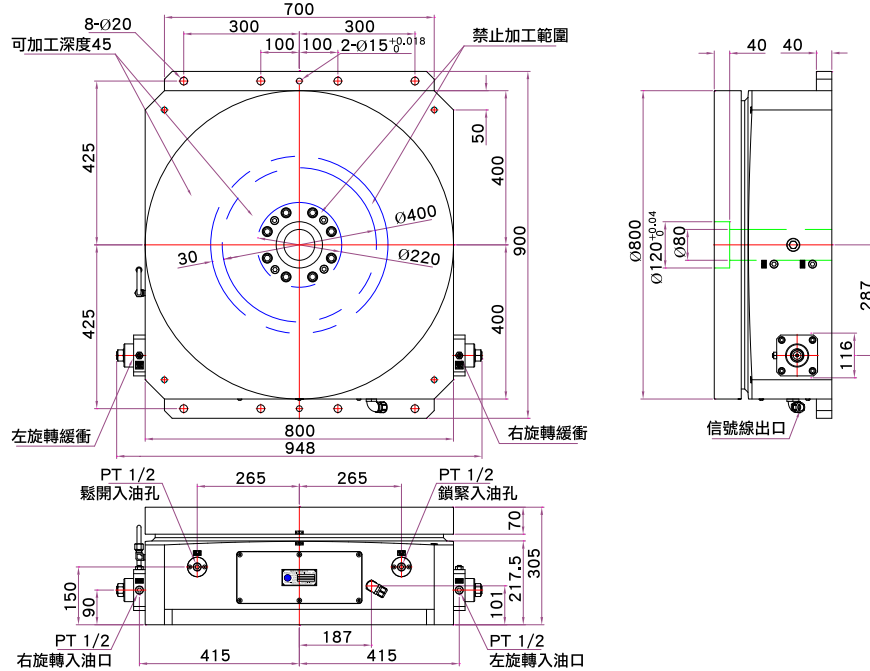
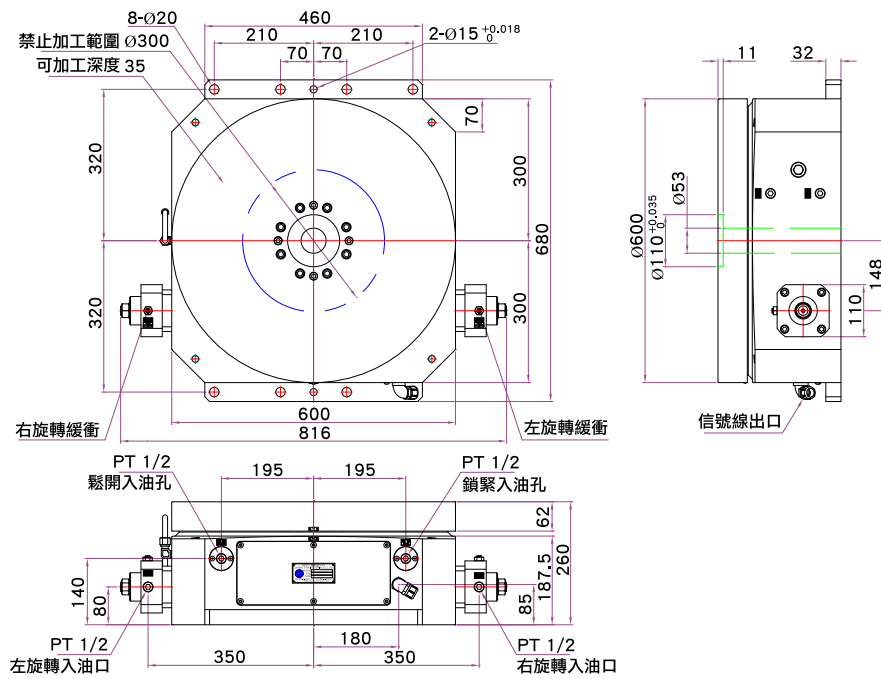


EXT-600H

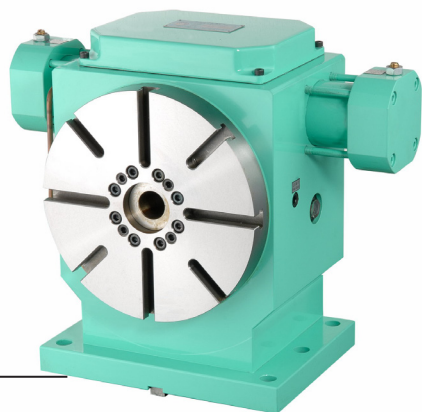


EXT-800H

型式 Model		EXT-600H	EXT-800H	EXT-1000H
盤面直徑 Table diameter	mm	Ø 600	Ø 800	Ø 1000
基準中心孔 Center bore	mm	Ø 110 H6	Ø 120 H6	Ø 120 H7
基準中心孔深度 Depth of center bore	mm	11	40	60
主軸中心穿透孔 Diameter of center through hole	mm	Ø 53	Ø 80	Ø 80
水平放置總高 Overall height (Horizontally)	mm	260	305	325
油壓使用壓力 Hydraulic pressure	kg/cm ²	35	35	35
分割精度 (累積值) Indexing accuracy (accumulative)	arc sec	4"	4"	4"
重現精度 Repeatability	arc sec	±1"	±1"	±1"
分割台等分割數 (標準) Indexing number (standard)	4 / 6 / 8 / 12 / 24 (擇一 One of them)			
分割台等分割數 (特殊) Indexing number (special)	2 / 3 / 5 / 9 ... 接受特殊等分訂購 By special order			
旋轉方向 Rotating direction	正反轉皆可 CW & CCW			
旋轉 90° 的時間方向 Indexing time of 90°	sec	6.0	10	10
容許瞬間慣性 GD ² Permissible instant inertia GD ²	kg-m ²	500	1000	1200
旋轉扭力 Rotation torque	kg-m	144	280	280
鎖緊扭力 Clamping torque	F	 kg N	6448 63000	9600 94000
	FxR	 kg-m N-m	1980 19400	4000 39200
	FxH	 kg-m N-m	840 8232	1950 19110
容許積載荷重 Load Capacity	0°	 kg	1250	2400
淨重 Net weight	kg	446	816	1500
* 旋轉 90° 的時間 (鬆開、旋轉、鎖緊) 係指在使用壓力 30kg/cm ² 、2HP、30L/min... 等條件下的測試值 Indexing time 90° (Unclamp, rotate, clamp) is measured under the condition of 30 kg/cm ² , 2HP, 30L/min, etc.				



油壓齒式分割盤 Hydraulic Coupling Gear Indexer



EXT-320V

EXT - 250 V

- H** 臥式機 Horizontal
- V** 立式機 Vertical
- P** 旋轉工作台 Swing Pallet

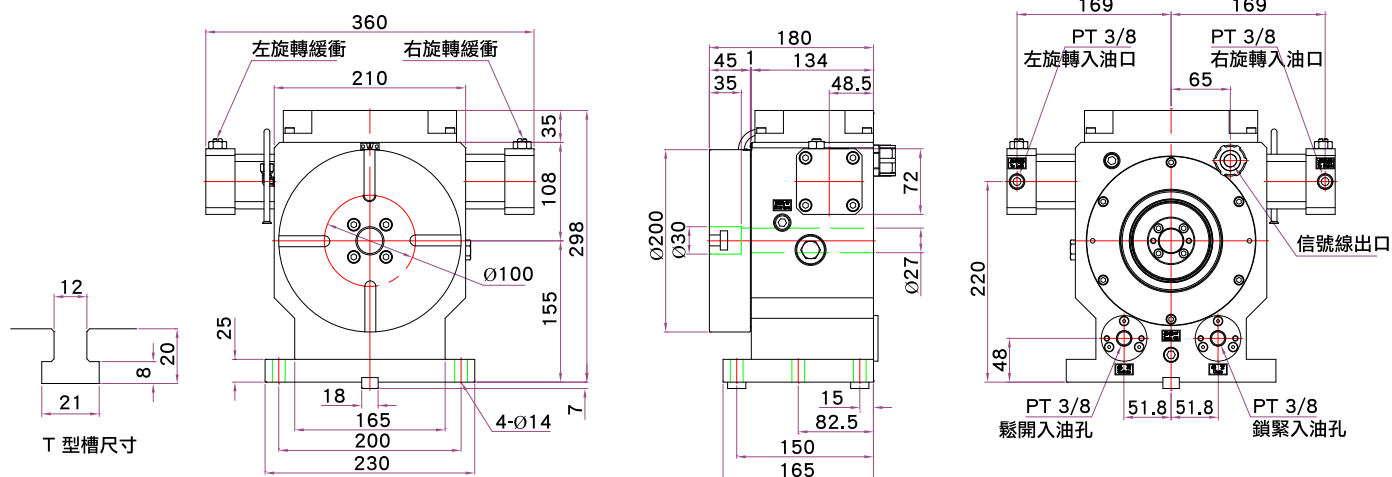
盤面尺寸 Table diameter

油壓驅動，三片離合齒定位

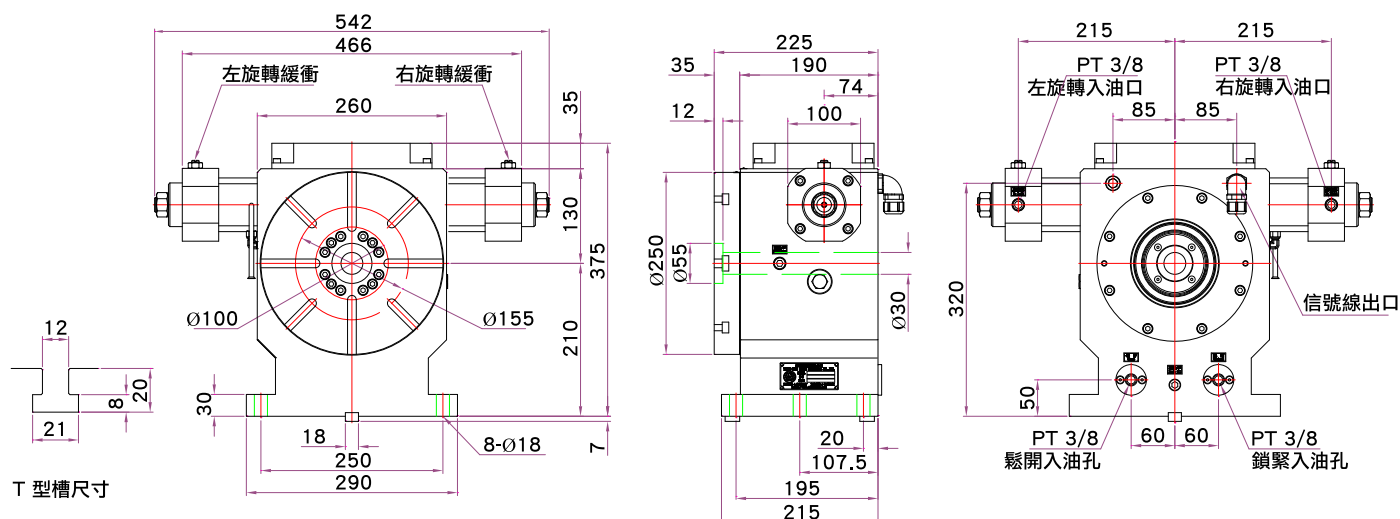
型式 Model		EXT-200V	EXT-250V	EXT-320V
盤面直徑 Table diameter	mm	Ø 200	Ø 250	Ø 320
基準中心孔 Center bore	mm	Ø 30 H6	Ø 55 H6	Ø 65 H7
基準中心孔深度 Center bore depth	mm	35	12	20
主軸中心穿透孔 Center through hole diameter	mm	Ø 27	Ø 30	Ø 31
分割台中心高度 Center height of table	mm	155	210	230
分割台總高度 Overall height of table	mm	298	375	395
T 型槽寬度 Width of T-slot	mm	12H7	12H7	14H7
基準導槽寬度 Width Guide block	mm	18H7	18H7	18H7
油壓使用壓力 Hydraulic pressure	kg/cm ²	35	35	35
分割精度 (累積值) Indexing accuracy (accumulative)	arc sec	4"	4"	4"
重現精度 Repeatability	arc sec	±2"	±2"	±2"
分割台等分割數 (標準) Indexing number (standard)	4 / 6 / 8 / 12 / 24 (擇一 One of them)			
分割台等分割數 (特殊) Indexing number (special)	2 / 3 / 5 / 9 ... 接受特殊等分訂購 By special order			
旋轉方向 Rotating direction	正反轉皆可 CW & CCW			
旋轉 90° 的時間方向 Indexing time of 90°	sec	2.0	2.5	3.0
容許瞬間慣性 GD ² Permissible instant inertia GD ²	kg-m ²	5	30	60
旋轉扭力 Rotation torque	kg-m	25	37	60
鎖緊扭力 Clamping torque	F 	kg N	1260 12340	1560 15200
	FxR 	kg-m N-m	108 1060	332 3250
	FxL 	kg-m N-m	55 541	145 1423
容許積載荷重 Load Capacity	90° 	kg	95	200
淨重 Net weight	kg	50	106	144

* 旋轉 90° 的時間 (鬆開、旋轉、鎖緊) 係指在使用壓力 30kg/cm²、2HP、30L/min... 等條件下的測試值
Indexing time 90° (Unclamp, rotate, clamp) is measured under the condition of 30 kg/cm², 2HP, 30L/min, etc.

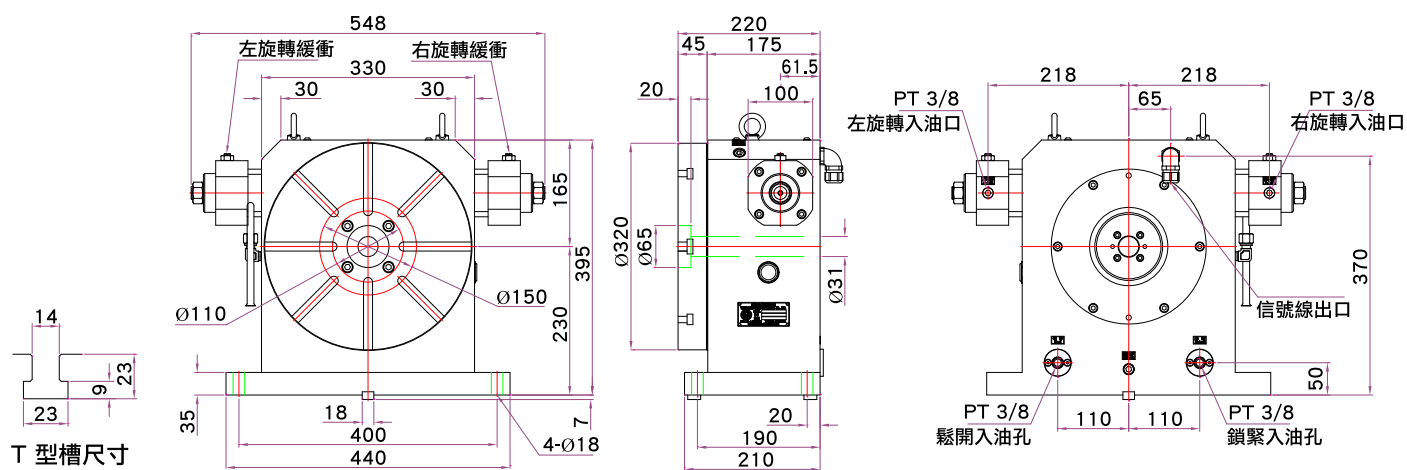
EXT-200V



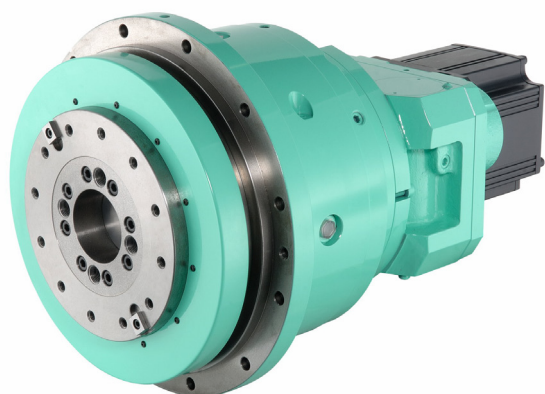
EXT-250V



EXT-320V



電腦數控齒式分割盤 High-Speed Gear Indexer



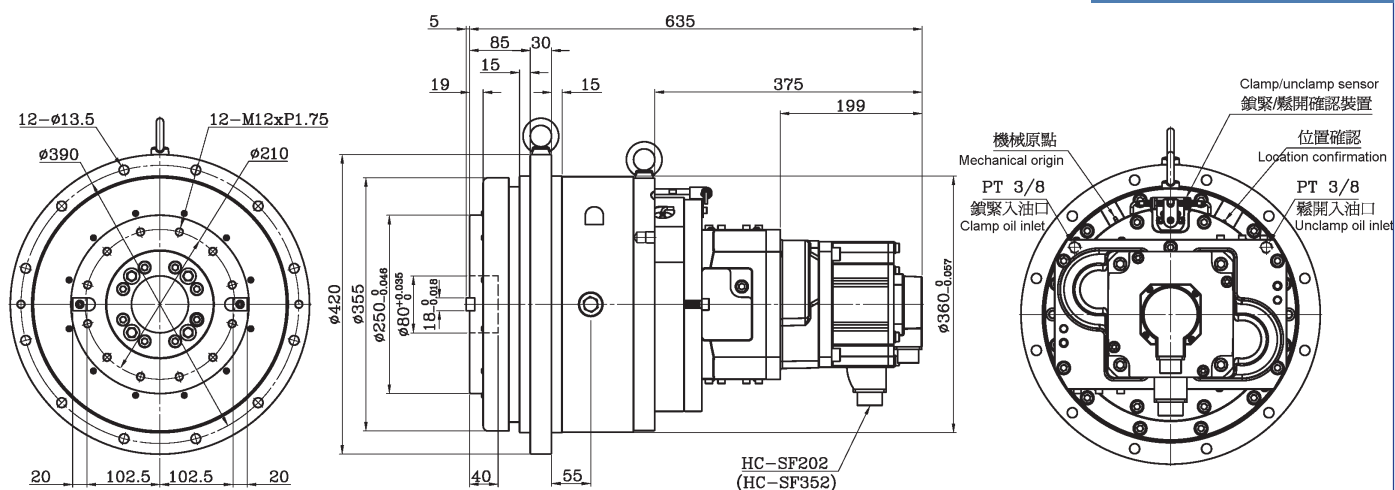
◆ 產品特性：此型號分割盤為伺服馬達快速驅動，其他特性與油壓齒式分割盤 (EXT-H 系列) 相同。

◆ Characteristics: Besides the same characteristics as Hydraulic Coupling Gear Indexer (EXT-H Series), High speed gear indexer is driven by the servo motor.

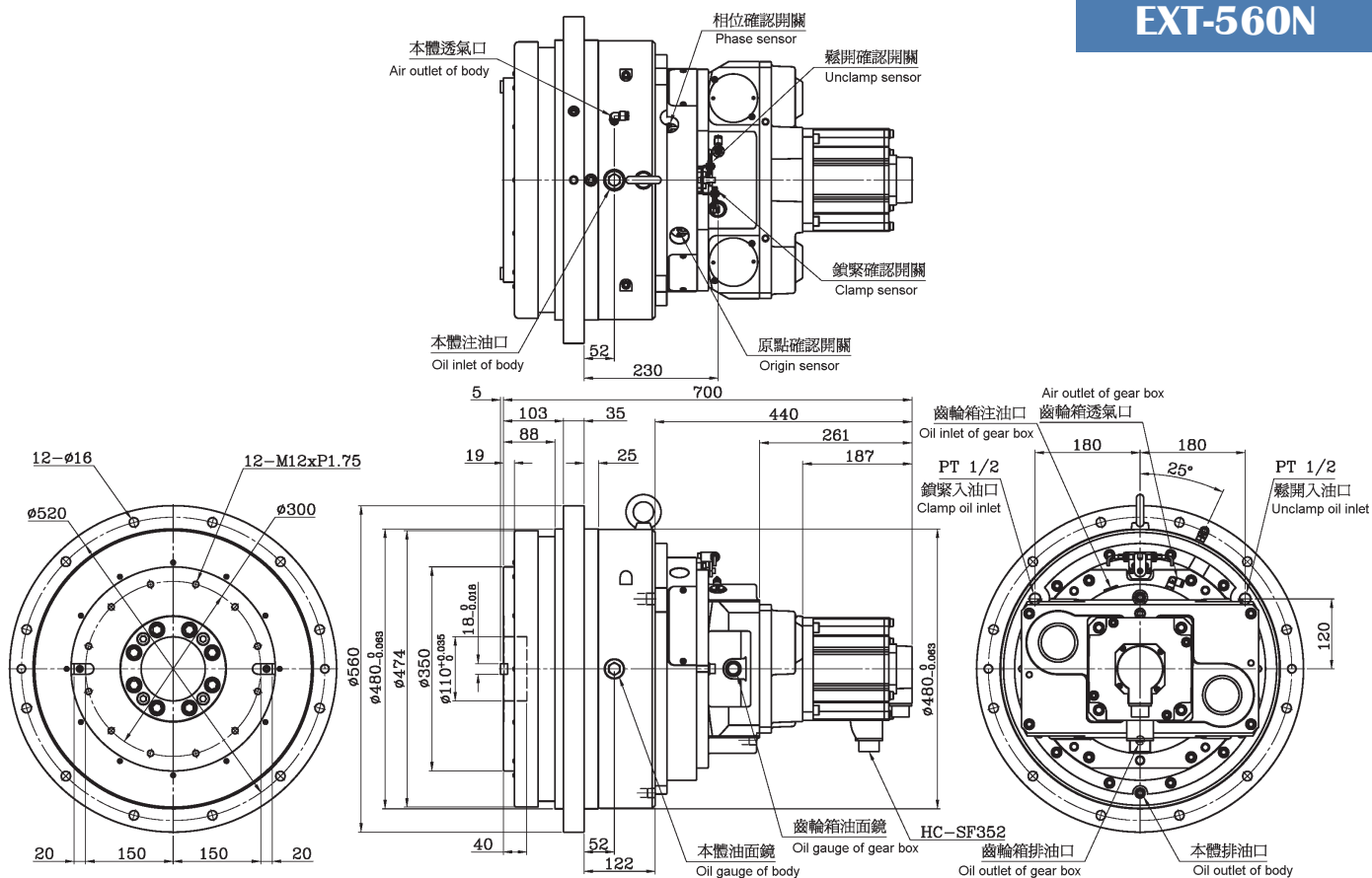
EXT-420N

型式 Model		EXT-420N		EXT-560N
盤面固定端直徑 Diameter of table fixde side	mm	Ø 250		Ø 350
中心基準孔 Center bore	mm	Ø 80		Ø 100
分割精度 (累積值) Indexing accuracy (accumulative)	arc sec	4"		4"
重現精度 Repeatability	arc sec	±1"		±1"
分割台等分割數 (標準) Indexing number (standard)		2 / 3 / 4 / 6 / 8 / 12 / 24 (擇一 One of them)		
分割台等分割數 (特殊) Indexing number (special)		5 / 9 / 10 / 20 ... 接受特殊等分訂購 By special order		
轉盤迴轉方向 Rotating direction		正反轉皆可 CW & CCW		
安裝方式 Installation		立臥兩用 Horizontal and vertically		
基準孔旋轉偏擺 Runout of center bore	mm	0.02		0.02
盤面旋轉起伏 Runout of table top	mm	0.01		0.01
盤面真平度 Flatness of table top	mm	0.015		0.015
鎖緊裝置 (油壓) Clamping device (hydraulic)	kg/cm ²	35		35
夾持力 Clamping torque	kg	3300		7580
適用馬達 (選配) Servo motor (optional)		HC-SFS202	HC-SFS352	HC-SFS352
最高轉速	轉盤 Table rpm	33.3	33.3	22.2
Max. rotation speed	馬達 Motor rpm	2000	2000	2000
總齒數比 Gear ratio		1/60	1/60	1/90
容許瞬間慣性 GD ² Permissible instant inertia GD ²	kg-m ²	110	195	380
旋轉扭力 Rotation torque	kg-m	44	76.5	150
容許切銷扭力 Permissible cutting torque	FxR  kg-m	500		1800
	FxL  kg-m	300		800
容許積載荷重 Load Capacity	立式使用 In vertical kg	350		700
	臥式使用 In horizontal kg	200		400
淨重 Net weight	kg	214		374

EXT-420N



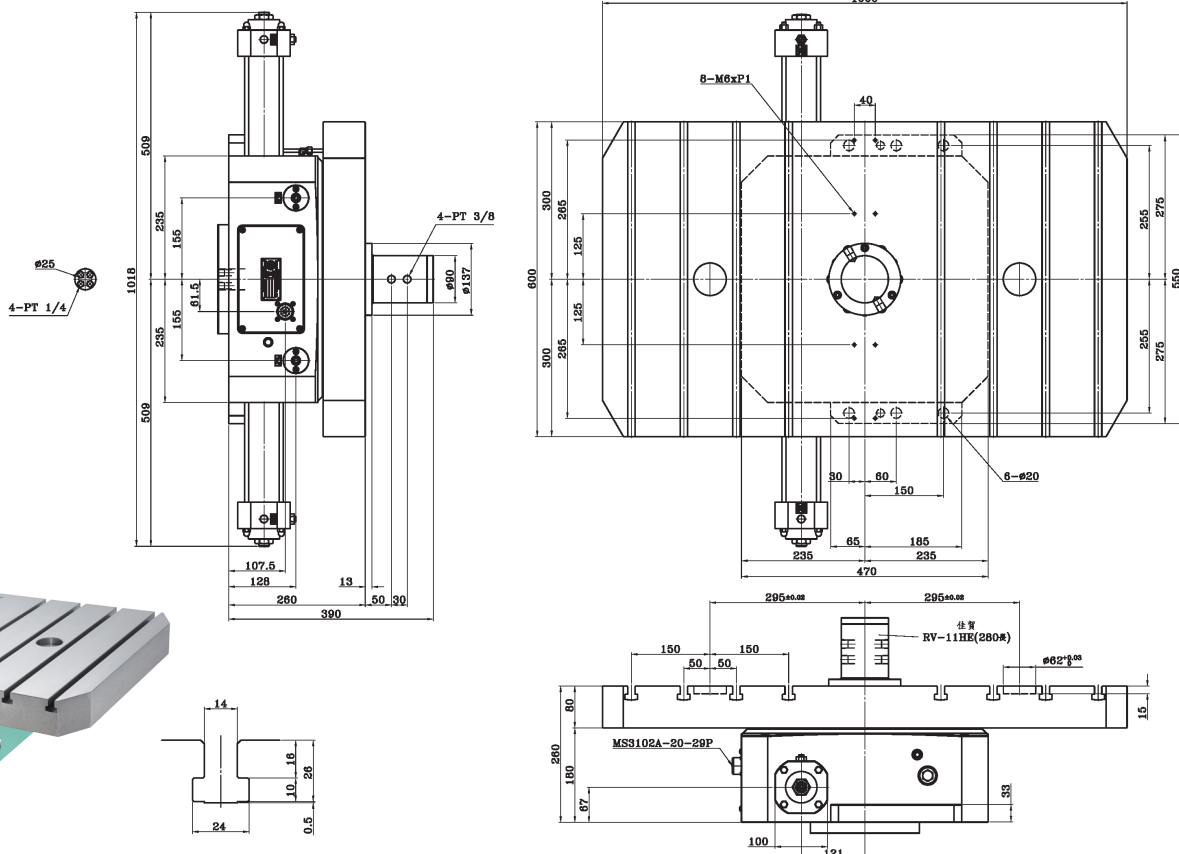
EXT-560N



油壓旋轉工作台 Hydraulic Swing Table

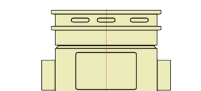
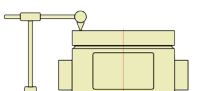
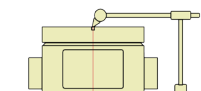
型式 Model		EXT-470P
工作臺尺寸 Table size (L x W)	mm	1000 x 600
總高度 Overall height of table	mm	260
鎖緊裝置 (油壓) Clamping device (hydraulic)	kg/cm ²	35
分割精度 Indexing accuracy	arc sec	4"
分割台等分割數 Indexing number		2
盤面旋轉起伏 Runout of table top	mm	0.02
盤面真平度 Flatness of table top	mm	0.02
上下面平行度 Parallelism of table top to frame bottom	mm	0.02
轉盤迴轉方向 Rotating direction		往復 Reciprocation
容許瞬間慣性 GD ² Permissible instant inertia GD ²	kg-m ²	125
轉盤旋轉扭力 Rotation torque	kg-m	56
容許積載荷重 Load Capacity	kg	480
夾持力 Clamping torque	kg	3970
淨重 Net weight	kg	444

EXT-470P

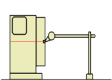
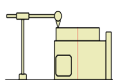
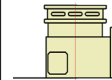
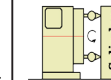
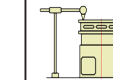
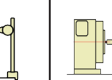
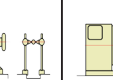


標準精度檢驗項目 Accuracy Standard

項次 No.	檢驗項目 Inspection Items
1	盤面真直度 Straightness of Table top
2	盤面旋轉起伏 Runout of Table top
3	基準中心旋轉偏擺 Runout of center bore
4	分度盤上下面平行度 Parallelism of table top to frame bottom
5	分割精度 (光學儀器測量) Indexing accuracy (arc sec) -- measured by an optical measuring device

型號 Model	1	2	3	4	5
					分割精度 Indexing accuracy (arc sec)
EXT-200H	0.02	0.015	0.02	0.02	4"
EXT-340H	0.02	0.015	0.02	0.02	4"
EXT-470H	0.02	0.02	0.02	0.02	4"
EXT-600H	0.02	0.02	0.02	0.03	4"
EXT-800H	0.02	0.02	0.02	0.03	4"
EXT-1000H	0.02	0.03	0.02	0.03	4"

項次 No.	檢驗項目 Inspection Items
1	基準中心旋轉偏擺 Runout of center bore
2	盤面旋轉起伏 Runout of Table top
3	盤面真平度 Flatness of table top
4	盤面與底座垂直度 Perpendicularity of table top to frame bottom
5	盤面與底座平行度 Parallelism of table top to frame bottom
6	盤面與底座基準導塊垂直度 Perpendicularity of table top to guide blocks at table bottom
7	轉盤與尾座基準導塊平行度 Parallelism between bottom guide block & center height of rotary table to tailstock
8	轉盤與尾座中心高平行度 Parallelism of center line between rotary table and tailstock
9	分割精度 (光學儀器測量) Indexing accuracy (arc sec) -- measured by an optical measuring device

型號 Model	1	2	3	4	5	6	7	8
								
EXT-200V	0.01	0.01	0.015	0.02	0.02	0.02	0.02	0.02
EXT-250V	0.01	0.01	0.015	0.02	0.02	0.02	0.02	0.02
EXT-320V	0.01	0.01	0.015	0.02	0.02	0.02	0.02	0.02