



NC ROTARY TABLE

Samchully 4th and 5th axis rotary tables expand machine capacity in a cost-effective manner, comprehensive manner.

High quality coupled with full integration support have found Samchully success in the market as a leading supplier of rotary tables.



RDN-250i

Zero Backlash NC Rotary Table

159 P



S-170F2

4th axis NC Rotary Table

167 P



S-120/L

Controller type for NC Rotary Table

175 P



RED-100

Electric Discharge NC Rotary Table

160 P



S-200F4

4th axis NC Rotary Table

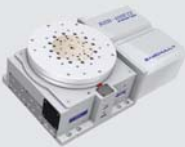
168 P



S-170/L

Controller type for NC Rotary Table

176 P



RHB-400F22

Horizontal Built-in NC Rotary Table

161 P



S-250F4

4th axis NC Rotary Table

169 P



S-200/L

Controller type for NC Rotary Table

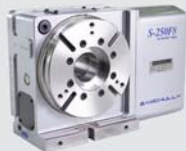
177 P



RTM-250i

Manual Tilting NC Rotary Table

162 P



S-250F8

4th axis NC Rotary Table

170 P



S-250i/iL

Controller type for NC Rotary Table

178 P



MTR1-324FF

4th axis Trunnion Tilting NC Rotary Table

163 P



S-320F8

4th axis NC Rotary Table

171 P



S-320i/Li

Controller type for NC Rotary Table

179 P



DiM-260F

Direct Drive Motor NC Rotary Table

164 P



S-430F22

4th axis NC Rotary Table (Big Bore Type)

172 P



HRS-174F2

4th axis Hydraulic NC Rotary Table

180 P



200AH-C

Air Booster

165 P



S-515F22

4th axis NC Rotary Table (Big Bore Type)

173 P



HRS-204F4

4th axis Hydraulic NC Rotary Table

181 P



S-120F2

4th axis NC Rotary Table

166 P



S-650F22

4th axis NC Rotary Table (Big Bore Type)

174 P



HRS-254F4

4th axis Hydraulic NC Rotary Table

182 P



HRS-254F8

4th axis Hydraulic NC Rotary Table

183 P



TR-120,200i

Controller type for Tilting NC Rotary Table

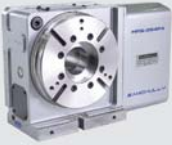
191 P



DM-170

Direct Drive Motor NC Rotary Table

199 P



HRS-324F8

4th axis Hydraulic NC Rotary Table

184 P



TR-250i

Controller type for Tilting NC Rotary Table

192 P



DM-260

Direct Drive Motor NC Rotary Table

200 P



HRS-204,254i

Controller type Hydraulic NC Rotary Table

185 P



MTR2-17432ii

Controller type for Multi Spindle Tilting NC Rotary Table

193 P



SR-200F4

Rear Mounted Motor 4th axis NC Rotary Table

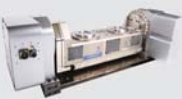
201 P



HRS-324i

Controller type Hydraulic NC Rotary Table

186 P



MTR2-20435ii, 20435FF

5th axis for Multi Spindle Tilting NC Rotary Table

194 P



SR-200i

Rear Mounted Motor Controller type NC Rotary Table

202 P



TR-120FF

4th, 5th axis for Tilting NC Rotary Table

187 P



MTR2-25440ii, 25440FF

5th axis for Multi Spindle Tilting NC Rotary Table

195 P



MUT-600

Manual Turn Table

203 P



TR-200FF

4th, 5th axis for Tilting NC Rotary Table

188 P



MS2-170F4

4th axis type for Multi Spindle NC Rotary Table

196 P



TS (12-32)

Tail Stock (Manual Type)

204 P



TR-250FF

4th, 5th axis for Tilting NC Rotary Table

189 P



MS2-170LF4

4th axis type for Multi Spindle NC Rotary Table

197 P



TS (43-65)

Tail Stock (Manual Type)

205 P



TR-320FF

4th, 5th axis for Tilting NC Rotary Table

190 P



MS2-170i/Li

Controller type for Multi Spindle NC Rotary Table

198 P



TS-AH

Tail Stock (Air / Hydraulic Type)

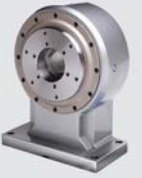
206 P



SP-A

Tail Spindle
(Air Clamp Type)

207 P



SP-H

Tail Spindle
(Hydraulic Clamp Type)

208 P



50AH-C

Air Booster (Single)

209 P



50AH-T

Air Booster (Twin)

210 P



NeoCon

Samchully Own
Controller

212 P

Application

217 P



RDN-250i Zero Backlash NC Rotary Table



Application / Benefits

High-Definition Split System with ROLLER CAM DRIVE
Zero Backlash with ROLLER CAM DRIVE

Model No.

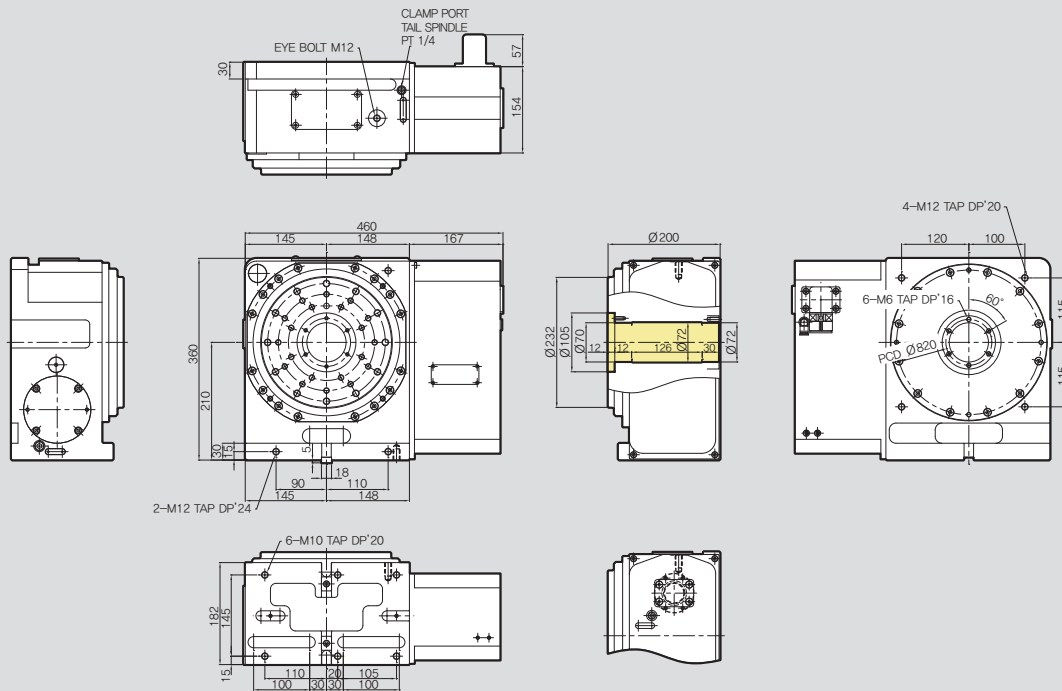
RDN-250 i

Motor Spec
Table Diameter
TYPE : Roller Cam Drive NC Rotary Table

Servo Motor Maker

F : FANUC H : HEIDENHAIN
S : SIEMENS L : LS MECAPION
M : MITSUBISHI SY : SANYO
P : PANASONIC FA : FAGOR
Y : YASKAWA O : OKUMA

RDN-250i



SPECIFICATIONS

Table Dia. [mm]	232
Center Height [mm]	210
Resister Dia. On Face Plate	105
Spindle Through Hole Dia. [mm]	70
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	-
Clamp Torque [N · m]	-
Max. Spindle Speed [mm ⁻¹]	30
Gear Ratio [mm]	1/60
Repeatability Accuracy [sec]	-
Indexing Accuracy [sec]	-
Weight [kg]	115

Allowable load	Horizontal [kg]		250
	Vertical [kg]		125
Allowable cutting load	F [kN]		20
	F x L [N-m]		-
Allowable Cutting Torque	F x L [N-m]		-
	[N-m]		-

RED-100 Electric Discharge NC Rotary Table



Application / Benefits

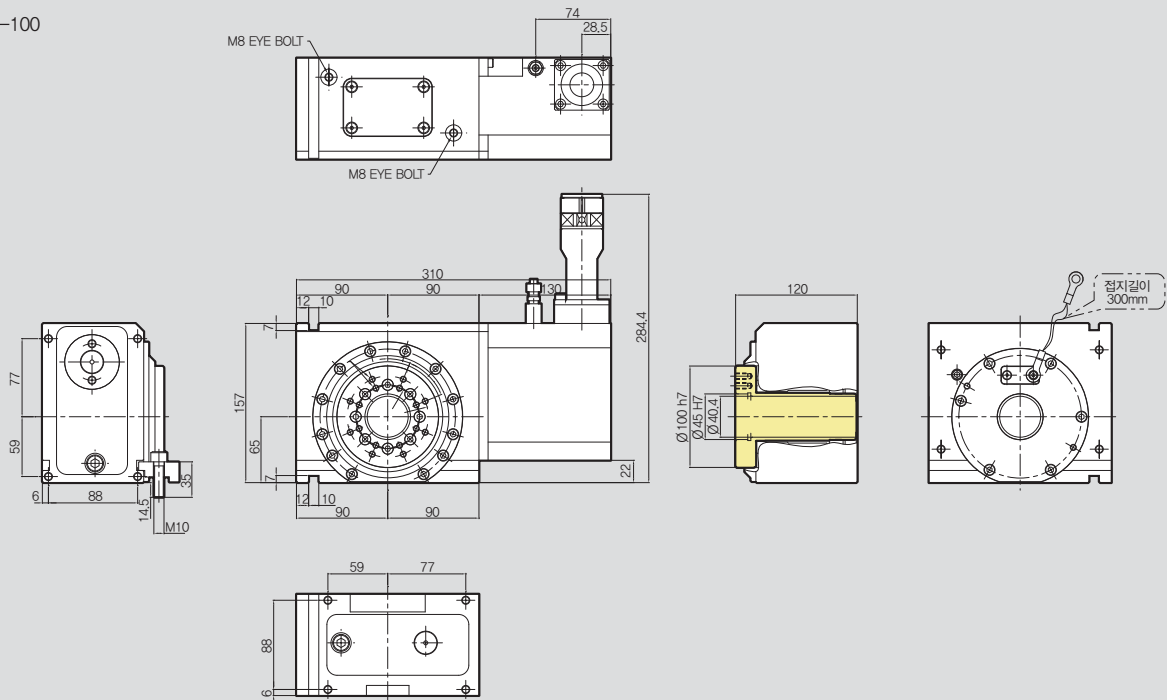
Special Alloy With Lightweight Design
 Long Workpieces(Ø40mm)
 Dampproof, Dustproof Design(Ip 68)

Model No.

RED-100

Table Diameter
 TYPE : Electric Discharge NC Rotary Table

RED-100



SPECIFICATIONS

Table Dia. [mm]	Ø100
Center Height [mm]	65
Resister Dia. On Face Plate	Ø45
Spindle Through Hole Dia. [mm]	Ø40.4
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	-
Clamp Torque [N · m]	-
Max. Spindle Speed [mm ⁻¹]	-
Min. Spindle Speed [mm ⁻¹]	-
Gear Ratio [mm]	1/45
Repeatability Accuracy [sec]	30
Indexing Accuracy [sec]	5
Weight [kg]	25
Max. Machine Current [A]	Less than 20A

Allowable load	Horizontal [kg]		-
	Vertical [kg]		20
F [kN]			-

RHB-400F22 Horizontal Built-in NC Rotary Table



Application / Benefits

Parallel Rotary Table, Internal Rotary Joint (10+1 Port.)

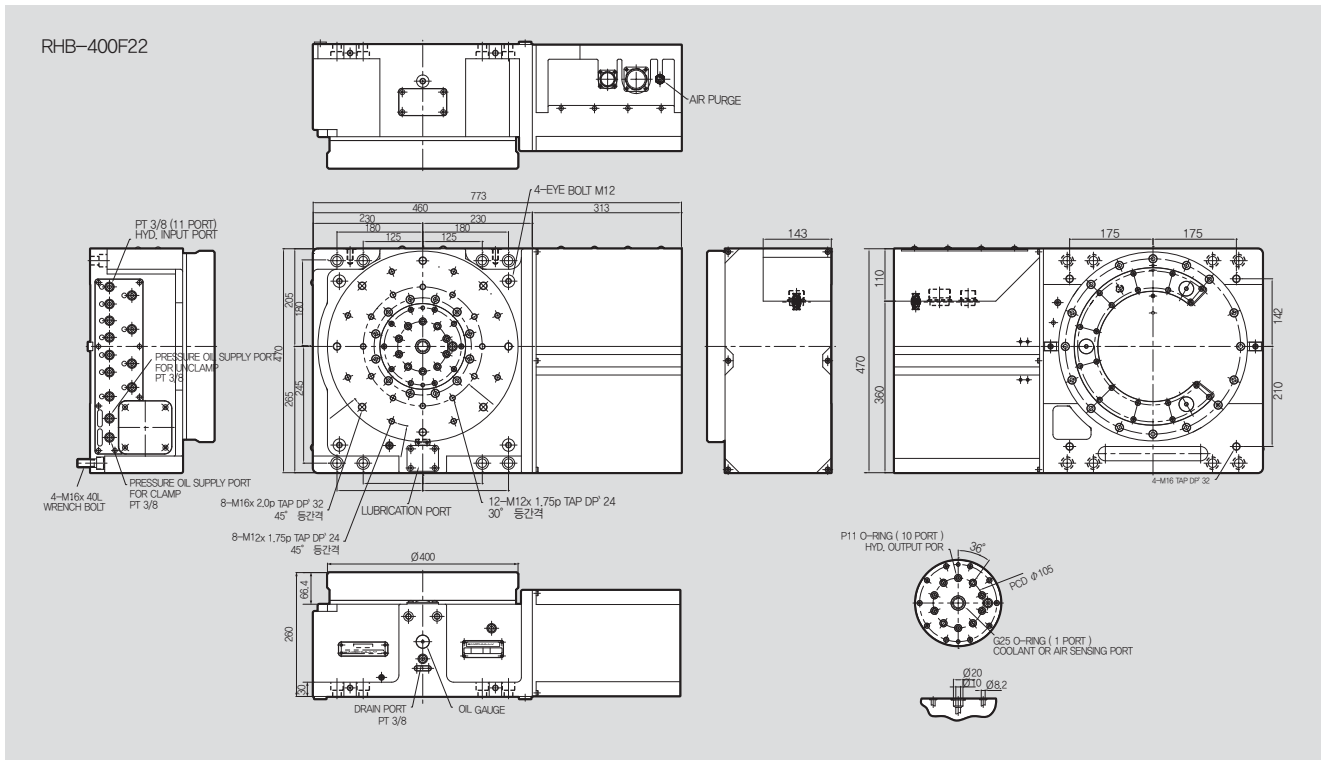
Model No.

RHB-400F22

— Servo Motor Maker
 — Table Diameter
 — TYPE : Single Spindle NC Rotary Table(Standard)





Servo Motor Maker

F : FANUC H : HEIDENHAIN
 S : SIEMENS L : LS MECAPION
 M : MITSUBISHI SY : SANYO
 P : PANASONIC FA : FAGOR
 Y : YASKAWA O : OKUMA

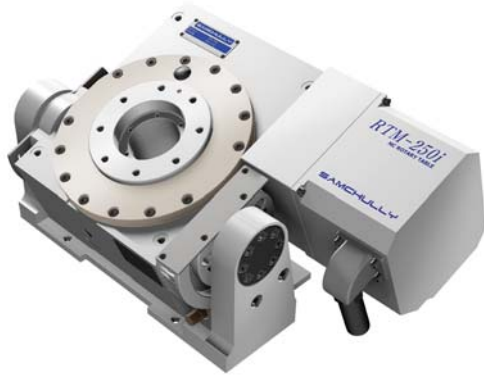


SPECIFICATIONS

Table Dia. [mm]	Ø400
Table Height [mm]	235
Resister Dia. On Face Plate	-
Spindle Through Hole Dia. [mm] ±	-
Clamp Method	Hydraulic Max. 35 bar
Allowable Work Inertia [kgm ²]	-
Clamp Torque [N · m]	3000
Max. Spindle Speed [mm ⁻¹]	44.4
Gear Ratio [mm]	1/45
Repeatability Accuracy [sec]	±10
Indexing Accuracy [sec]	5
Weight [kg]	650
Servo Motor [FANUC]	aiF22 / 3000
Rotary Joint Port	10 + 1 Port. (10 Port Hydraulic Max. 300bar)

Allowable load	Horizontal [kg]		600
	F [kN]		-
Allowable cutting load	F x L [N·m]		3000
	Allowable Cutting Torque [N·m]		1700

RTM-250i Manual Tilting NC Rotary Table



Application / Benefits

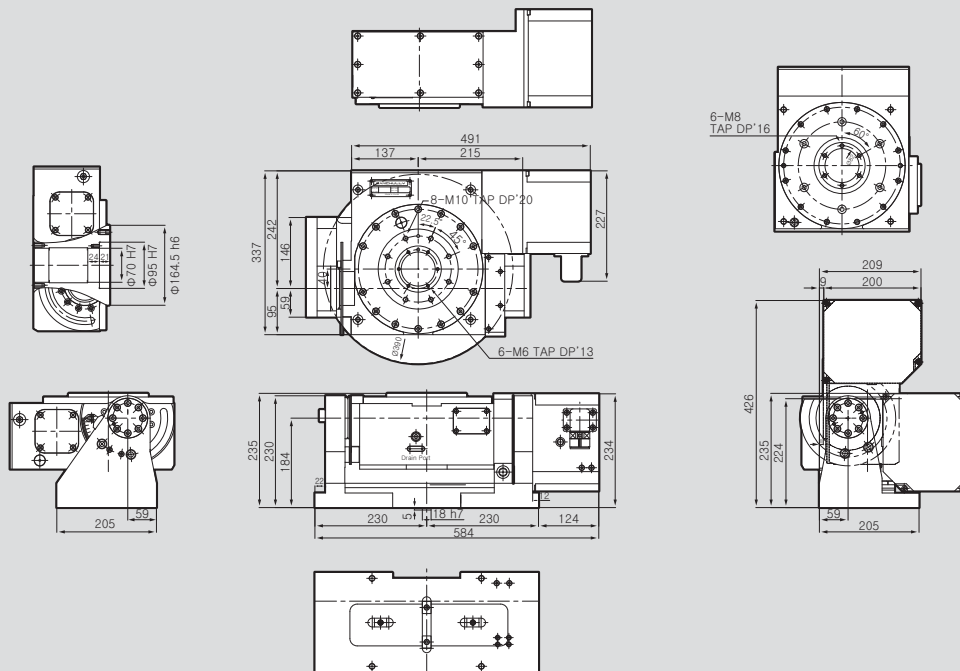
Easy Manual Adjustment for Inclination
Inclination Adjustable with a Wrench without any other controller

Model No.

RTM-250 i



RTM-250i



SPECIFICATIONS

Tilting Range: 0° ~90°

Spindle Dia. [mm]	Ø164.5
Center Height [mm]	235
Resister Dia. On Face Plate	Ø95
Spindle Through Hole Dia. [mm]	Ø70
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	1.95
Clamp Torque [N · m]	750
Max. Spindle Speed [mm ⁻¹]	33.3
Gear Ratio Tilt Axis [mm]	1/90
Gear Ratio Rotate Axis [mm]	1/72
Repeatability Accuracy [sec]	20
Indexing Accuracy [sec]	4
Weight [kg]	125
Servo Motor	SGMP5-15A2A6S

허용하중 Allowable load	Horizontal [kg]		200
	Vertical [kg]		125
	F [kN]		21
절삭 허용하중 Allowable cutting load	F x L [N·m]		1600
	F x L [N·m]		750
허용 절삭 토크 Allowable Cutting Torque	[N·m]		480

MTR1-324FF 4th axis Trunnion Tilting NC Rotary Table

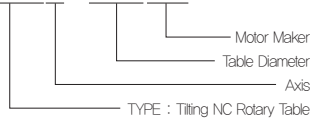


Application / Benefits

Work Piece handling up to Ø800, Single Spindle Tilting Series
Easy Jig Design with Strong Clamp Power

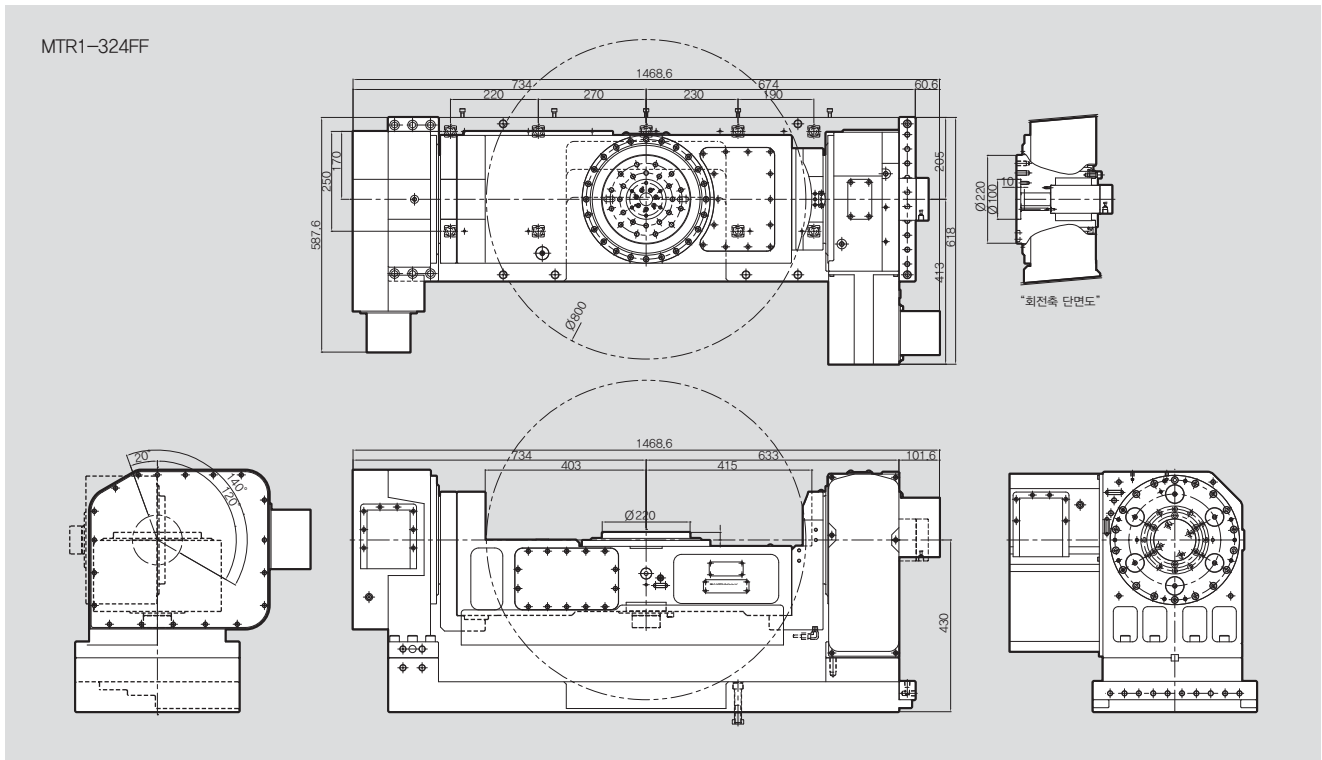
Model No.

MTR1-324FF



Servo Motor Maker

- | | |
|----------------|-----------------|
| F : FANUC | H : HEIDENHAIN |
| S : SIEMENS | L : LS MECAPION |
| M : MITSUBISHI | SY : SANYO |
| P : PANASONIC | FA : FAGOR |
| Y : YASKAWA | O : OKUMA |



SPECIFICATIONS

Spindle Dia. [mm]	Ø220	
Table Height [mm]	449	
Resister Dia. On Face Plate	Ø100	
Spindle Through Hole Dia. [mm] ±	Ø35	
Clamp Method	Hydraulic Max. 35 bar	
Allowable Work Inertia [kgm ²]	-	
Weight [kg]	900	
	Rotating Axis	Tilting Axis
Clamp Torque [N · m]	1500	2600
Max. Spindle Speed [mm ⁻¹]	25	25
Gear Ratio [mm]	1/120	1/120
Repeatability Accuracy [sec]	±10	±10
Indexing Accuracy [sec]	5	5
Servo Motor [FANUC]	aiF4 / 4000	aiF8 / 3000

Tilting Range: -20° ~120°

Allowable load	Horizontal [kg]		100
	Vertical [kg]		-
Allowable cutting load	F [kN]		-
	F x L [N·m]		-
Allowable Cutting Torque	F x L [N·m]		-
	[N·m]		-

DiM-260F Direct Drive Motor NC Rotary Table



Application / Benefits

High-Definition Split System with DD Motor
Zero Backlash

Model No.

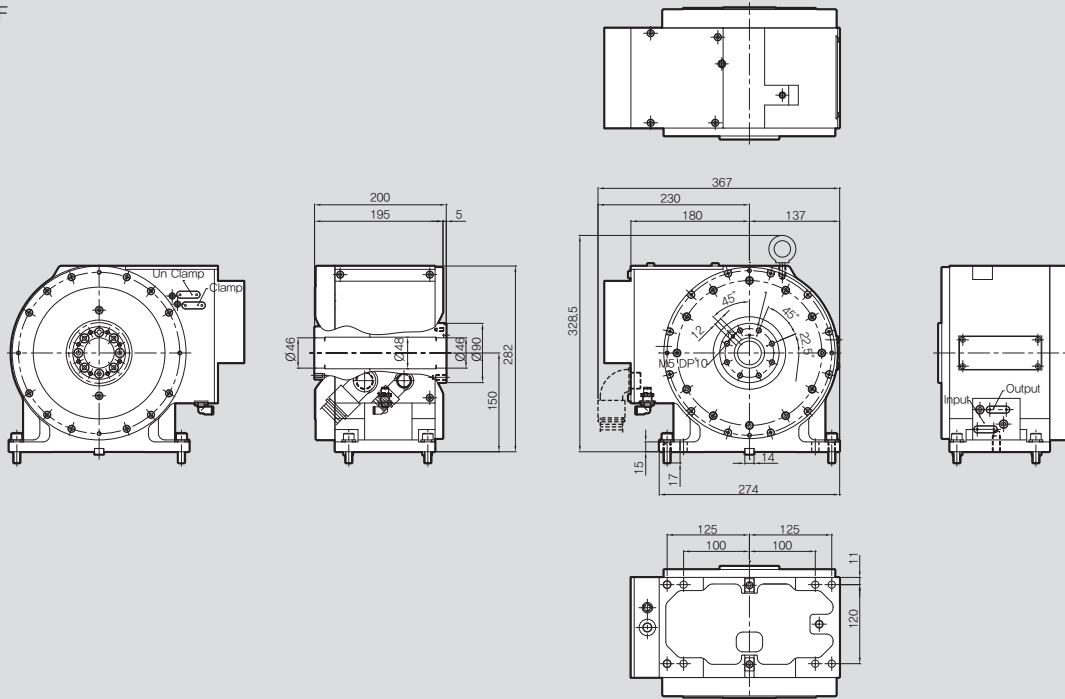
DiM-260F



Servo Motor Maker

F : FANUC H : HEIDENHAIN
S : SIEMENS L : LS MECAPION
M : MITSUBISHI SY : SANYO
P : PANASONIC FA : FAGOR
Y : YASKAWA O : OKUMA

DiM-260F



SPECIFICATIONS

Table Dia. [mm]	Ø90
Center Height [mm]	150
Resister Dia. On Face Plate	Ø46
Spindle Through Hole Dia. [mm]	Ø46
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	0.033
Clamp Torque [N · m]	500
Max. Spindle Speed [mm ⁻¹]	150
Gear Ratio [mm]	-
Repeatability Accuracy [sec]	-
Indexing Accuracy [sec]	±10
Weight [kg]	75

Allowable load	Horizontal [kg]		-
	Vertical [kg]		100
Allowable cutting load	F [kN]		-
	F x L [N·m]		600
	F x L [N·m]		500
Allowable Cutting Torque	[N·m]		-

S-120F2 4th axis NC Rotary Table



Application / Benefits

High Precision&High Speed Systems, Vertical & Horizontal available
Compact Design, Extremely Rigid Body, High Clamping power

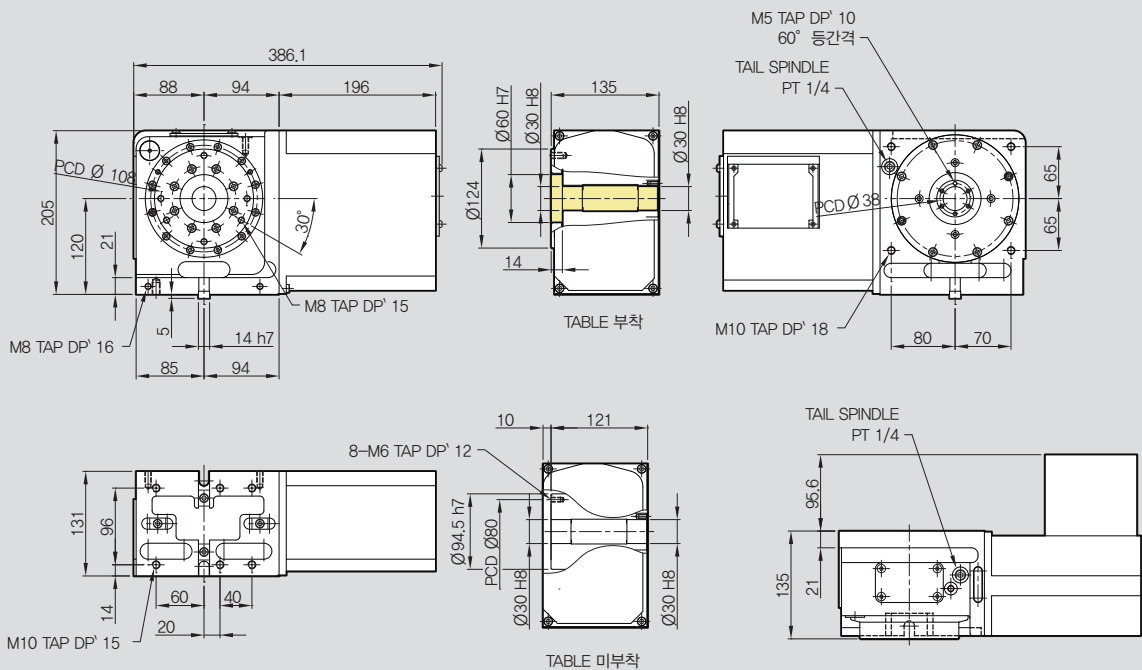
Model No.

S-120 F2



Servo Motor Maker

- | | |
|----------------|-----------------|
| F : FANUC | H : HEIDENHAIN |
| S : SIEMENS | L : LS MECAPION |
| M : MITSUBISHI | SY : SANYO |
| P : PANASONIC | FA : FAGOR |
| Y : YASKAWA | O : OKUMA |



SPECIFICATIONS

Table Dia. [mm]	Ø124
Center Height [mm]	120
Resister Dia. On Face Plate	Ø60H7
Spindle Through Hole Dia. [mm]	Ø30H8
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	0.22
Clamp Torque [N · m]	150
Max. Spindle Speed [mm ⁻¹]	50
Gear Ratio [mm]	1/60
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	30
Weight [kg]	35
Servo Motor [FANUC]	aiF2 / 5000

Allowable load	Horizontal [kg]		120
	Vertical [kg]		60
Allowable cutting load	F [kN]		8
	F x L [N·m]		350
Allowable Cutting Torque [N·m]	F x L [N·m]		150
	Allowable Cutting Torque [N·m]		180

S-170F2 4th axis NC Rotary Table



Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 Realize High Clamping Force by applying Double Piston

Model No.

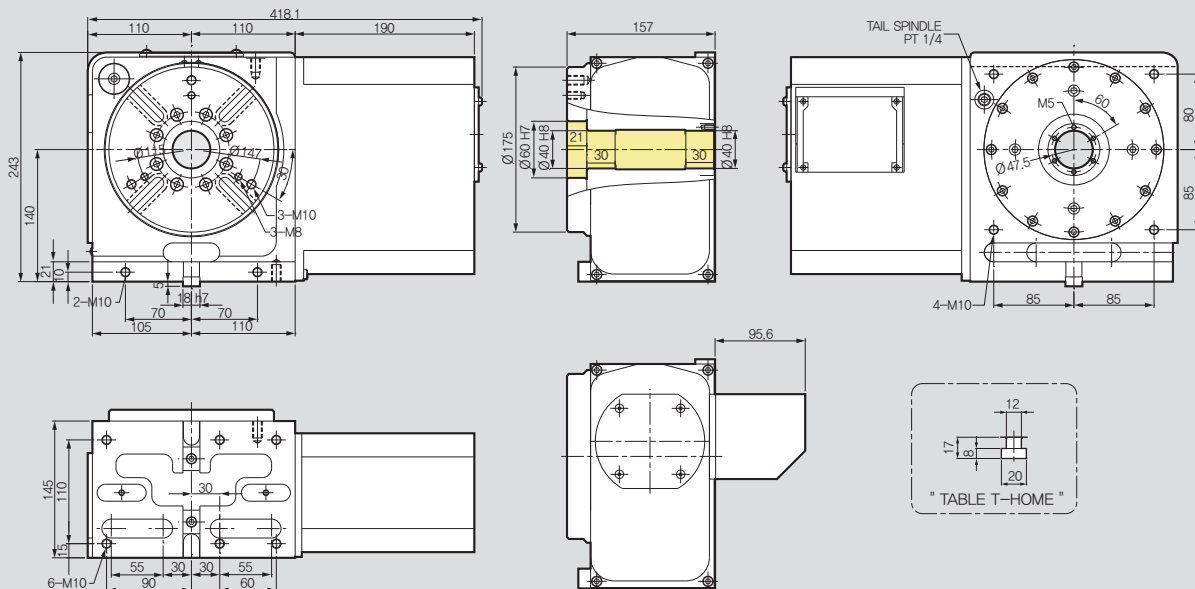
S-170 F2



Servo Motor Maker

- | | |
|----------------|-----------------|
| F : FANUC | H : HEIDENHAIN |
| S : SIEMENS | L : LS MECAPION |
| M : MITSUBISHI | SY : SANYO |
| P : PANASONIC | FA : FAGOR |
| Y : YASKAWA | O : OKUMA |

S-170F2



SPECIFICATIONS

Table Dia. [mm]	Ø175
Center Height [mm]	140
Resister Dia. On Face Plate	Ø60H7
Spindle Through Hole Dia. [mm]	Ø40H8
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	0.51
Clamp Torque [N · m]	380
Max. Spindle Speed [mm ⁻¹]	41.6
Gear Ratio [mm]	1/72
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	20
Weight [kg]	52
Servo Motor [FANUC]	aiF2 / 5000

Allowable load	Horizontal [kg]		160
	Vertical [kg]		80
Allowable cutting load	F [kN]		10
	F x L [N-m]		600
Allowable Cutting Torque [N-m]	F x L [N-m]		380
			220

S-250F4 4th axis NC Rotary Table

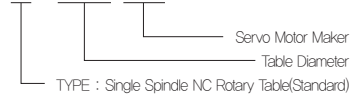


Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 Realize High Clamping Force by applying Double Piston

Model No.

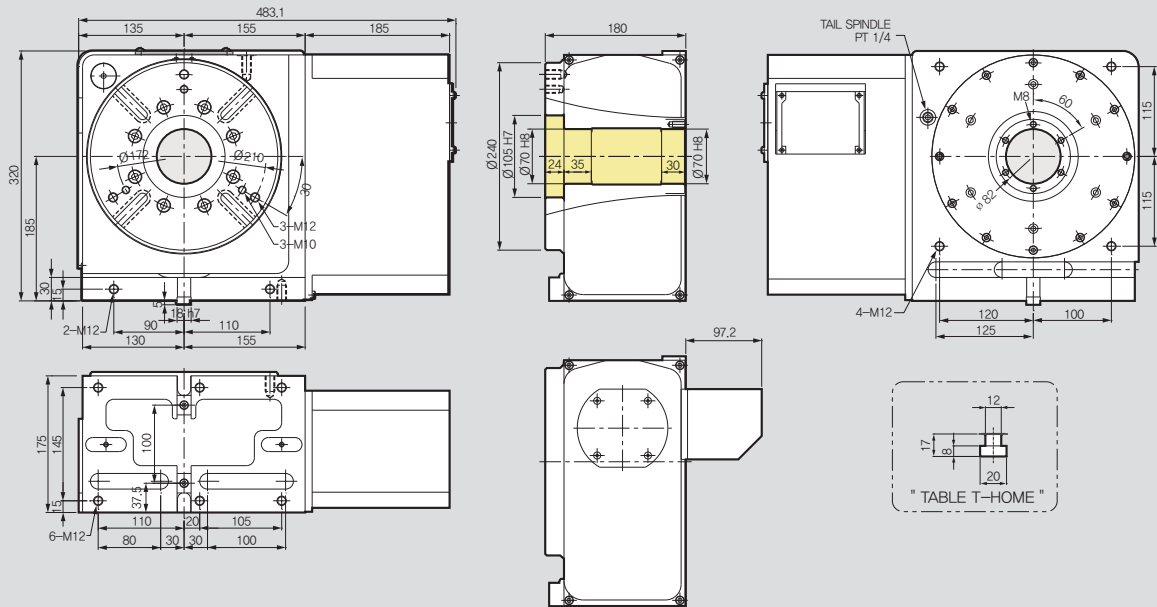
S-250 F4



Servo Motor Maker

- | | |
|----------------|-----------------|
| F : FANUC | H : HEIDENHAIN |
| S : SIEMENS | L : LS MECAPION |
| M : MITSUBISHI | SY : SANYO |
| P : PANASONIC | FA : FAGOR |
| Y : YASKAWA | O : OKUMA |

S-250F4



SPECIFICATIONS

Table Dia. [mm]	Ø240
Center Height [mm]	185
Resister Dia. On Face Plate	Ø105H7
Spindle Through Hole Dia. [mm]	Ø70H8
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	1.95
Clamp Torque [N · m]	750
Max. Spindle Speed [mm ⁻¹]	33.3
Gear Ratio [mm]	1/90
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	20
Weight [kg]	100
Servo Motor [FANUC]	aiF4 / 4000

Allowable load	Horizontal [kg]		250
	Vertical [kg]		125
Allowable cutting load	F [kN]		21
	F x L [N·m]		1600
	F x L [N·m]		750
	Allowable Cutting Torque [N·m]		480

S-250F8 4th axis NC Rotary Table



Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 Realize High Clamping Force by applying Double Piston

Model No.

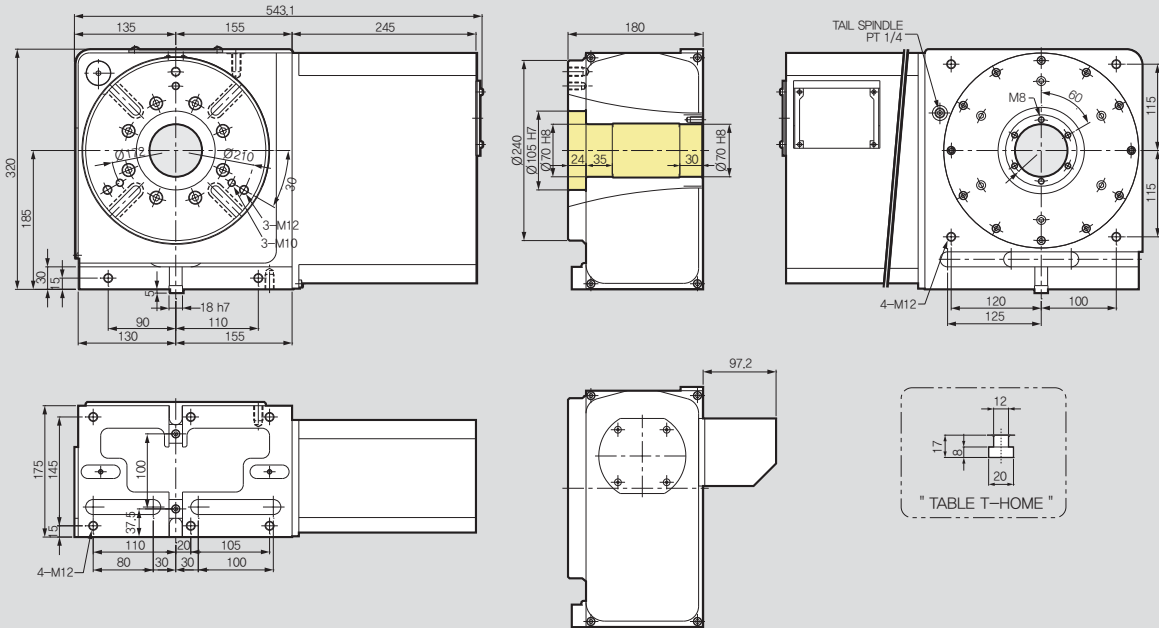
S-250 F8



Servo Motor Maker

- | | |
|----------------|-----------------|
| F : FANUC | H : HEIDENHAIN |
| S : SIEMENS | L : LS MECAPION |
| M : MITSUBISHI | SY : SANYO |
| P : PANASONIC | FA : FAGOR |
| Y : YASKAWA | O : OKUMA |

S-250F8



NC Rotary Table

SPECIFICATIONS

Table Dia. [mm]	Ø240
Center Height [mm]	185
Resister Dia. On Face Plate	Ø105H7
Spindle Through Hole Dia. [mm]	Ø70H8
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	3.12
Clamp Torque [N · m]	750
Max. Spindle Speed [mm ⁻¹]	33.3
Gear Ratio [mm]	1/90
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	20
Weight [kg]	106
Servo Motor [FANUC]	aiF8 / 3000

Allowable load	Horizontal [kg]		250
	Vertical [kg]		125
Allowable cutting load	F [kN]		21
	F x L [N-m]		1600
	F x L [N-m]		750
	Allowable Cutting Torque [N-m]		600

S-320F8 4th axis NC Rotary Table



Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 Realize High Clamping Force by applying Double Piston

Model No.

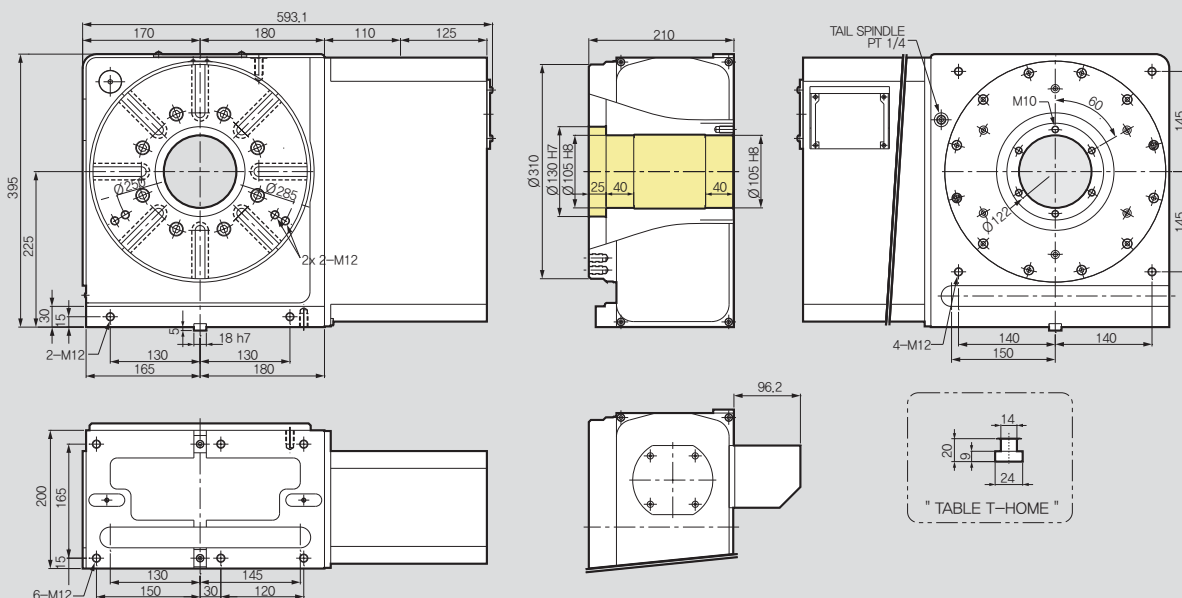
S-320 F8



Servo Motor Maker

- | | |
|----------------|-----------------|
| F : FANUC | H : HEIDENHAIN |
| S : SIEMENS | L : LS MECAPION |
| M : MITSUBISHI | SY : SANYO |
| P : PANASONIC | FA : FAGOR |
| Y : YASKAWA | O : OKUMA |

S-320F8



SPECIFICATIONS

Table Dia. [mm]	Ø310
Center Height [mm]	225
Resister Dia. On Face Plate	Ø130H7
Spindle Through Hole Dia. [mm]	Ø105H8
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	4.49
Clamp Torque [N · m]	1440
Max. Spindle Speed [mm ⁻¹]	25
Gear Ratio [mm]	1/120
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	20
Weight [kg]	170
Servo Motor [FANUC]	aiF8 / 3000

Allowable load	Horizontal [kg]		350
	Vertical [kg]		180
Allowable cutting load	F [kN]		25
	F x L [N-m]		2400
Allowable Cutting Torque [N-m]	F x L [N-m]		1440
			800

S-430F22 4th axis NC Rotary Table (Big Bore Type)



Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body, Large Through Hole
 High Clamping power (Hydraulic)

Model No.

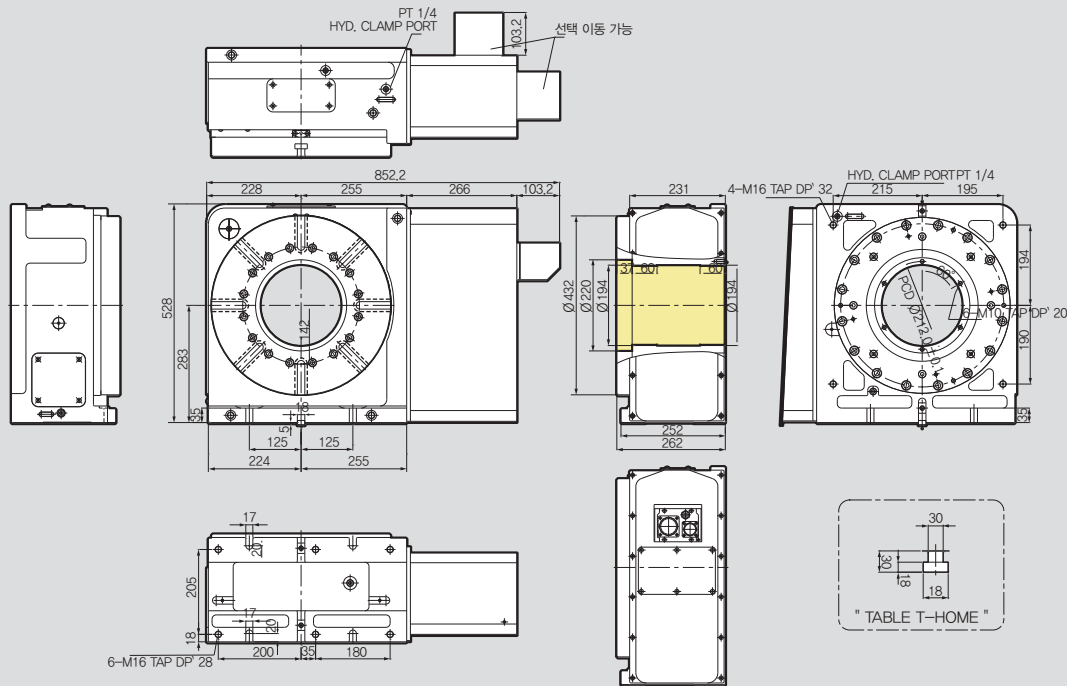
S-430 F22



Servo Motor Maker

- | | |
|----------------|-----------------|
| F : FANUC | H : HEIDENHAIN |
| S : SIEMENS | L : LS MECAPION |
| M : MITSUBISHI | SY : SANYO |
| P : PANASONIC | FA : FAGOR |
| Y : YASKAWA | O : OKUMA |

S-430F22



NC Rotary Table

SPECIFICATIONS

Table Dia. [mm]	Ø432
Center Height [mm]	283
Resister Dia. On Face Plate	Ø220H7
Spindle Through Hole Dia. [mm]	Ø194H8
Clamp Method	Hydraulic Max. 35bar
Allowable Work Inertia [kgm ²]	10.67
Clamp Torque [N · m]	2500
Max. Spindle Speed [mm ⁻¹]	25
Gear Ratio [mm]	1/120
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	20
Weight [kg]	350
Servo Motor [FANUC]	αiF22 / 3000

Allowable load	Horizontal [kg]		500
	Vertical [kg]		250
Allowable cutting load	F [kN]		32
	F x L [N-m]		5000
Allowable Cutting Torque	F x L [N-m]		2500
	[N-m]		1700

S-515F22 4th axis NC Rotary Table (Big Bore Type)



Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body, Large Through Hole
 High Clamping power (Hydraulic)

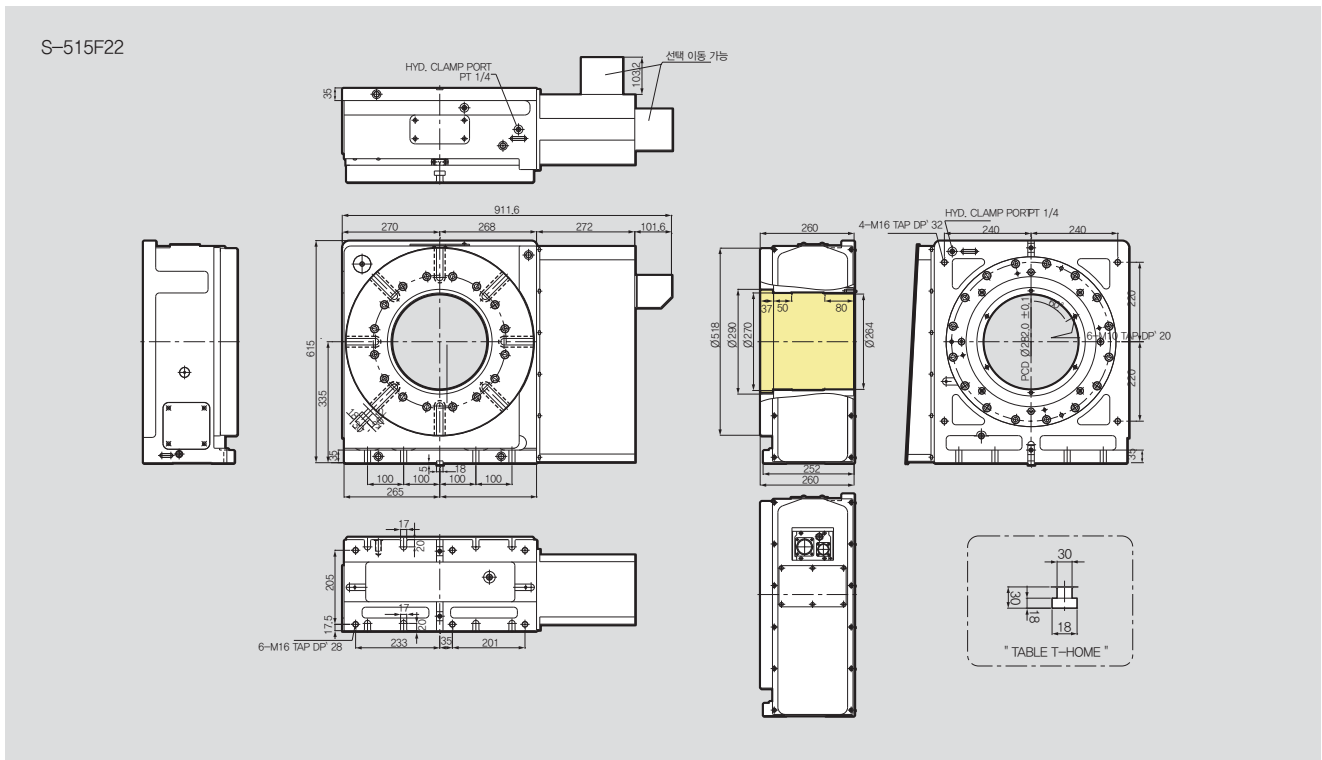
Model No.

S-515 F22

— Servo Motor Maker
 — Table Diameter
 TYPE : Single Spindle NC Rotary Table (Big Bore Type)

Servo Motor Maker

F : FANUC H : HEIDENHAIN
 S : SIEMENS L : LS MECAPION
 M : MITSUBISHI SY : SANYO
 P : PANASONIC FA : FAGOR
 Y : YASKAWA O : OKUMA



SPECIFICATIONS

Table Dia. [mm]	$\varnothing 518$
Center Height [mm]	335
Resister Dia. On Face Plate	$\varnothing 290H7$
Spindle Through Hole Dia. [mm]	$\varnothing 264H8$
Clamp Method	Hydraulic Max. 35bar
Allowable Work Inertia [kgm^2]	19.97
Clamp Torque [N · m]	3200
Max. Spindle Speed [mm^{-1}]	25
Gear Ratio [mm]	1/120
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	20
Weight [kg]	430
Servo Motor [FANUC]	$\alpha F22 / 3000$

Allowable load	Horizontal [kg]		600
	Vertical [kg]		300
Allowable cutting load	F [kN]		50
	F x L [N-m]		8000
	F x L [N-m]		3200
Allowable Cutting Torque	[N-m]		2600

S-650F22 4th axis NC Rotary Table (Big Bore Type)



Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body, Large Through Hole
 High Clamping power (Hydraulic)

Model No.

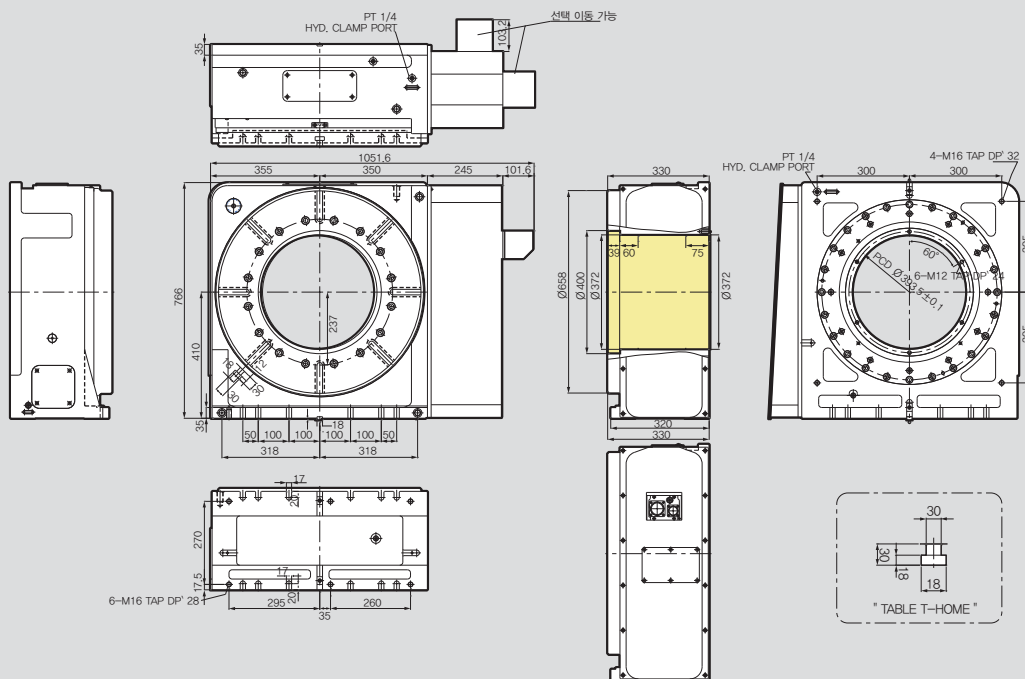
S-650 F22

— Servo Motor Maker
 — Table Diameter
 — TYPE : Single Spindle NC Rotary Table (Big Bore Type)

Servo Motor Maker

F : FANUC H : HEIDENHAIN
 S : SIEMENS L : LS MECAPION
 M : MITSUBISHI SY : SANYO
 P : PANASONIC FA : FAGOR
 Y : YASKAWA O : OKUMA

S-650F22



NC Rotary Table

SPECIFICATIONS

Table Dia. [mm]	Ø656
Center Height [mm]	410
Resister Dia. On Face Plate	Ø400H7
Spindle Through Hole Dia. [mm]	Ø372H8
Clamp Method	Hydraulic Max. 35bar
Allowable Work Inertia [kgm ²]	33.07
Clamp Torque [N · m]	4000
Max. Spindle Speed [mm ⁻¹]	25
Gear Ratio [mm]	1/120
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	20
Weight [kg]	750
Servo Motor [FANUC]	αiF22 / 3000

Allowable load	Horizontal [kg]		1000
	Vertical [kg]		400
Allowable cutting load	F [kN]		70
	F x L [N·m]		10000
Allowable Cutting Torque	F x L [N·m]		4000
	[N·m]		5000

S-120,120L Controller type for NC Rotary Table



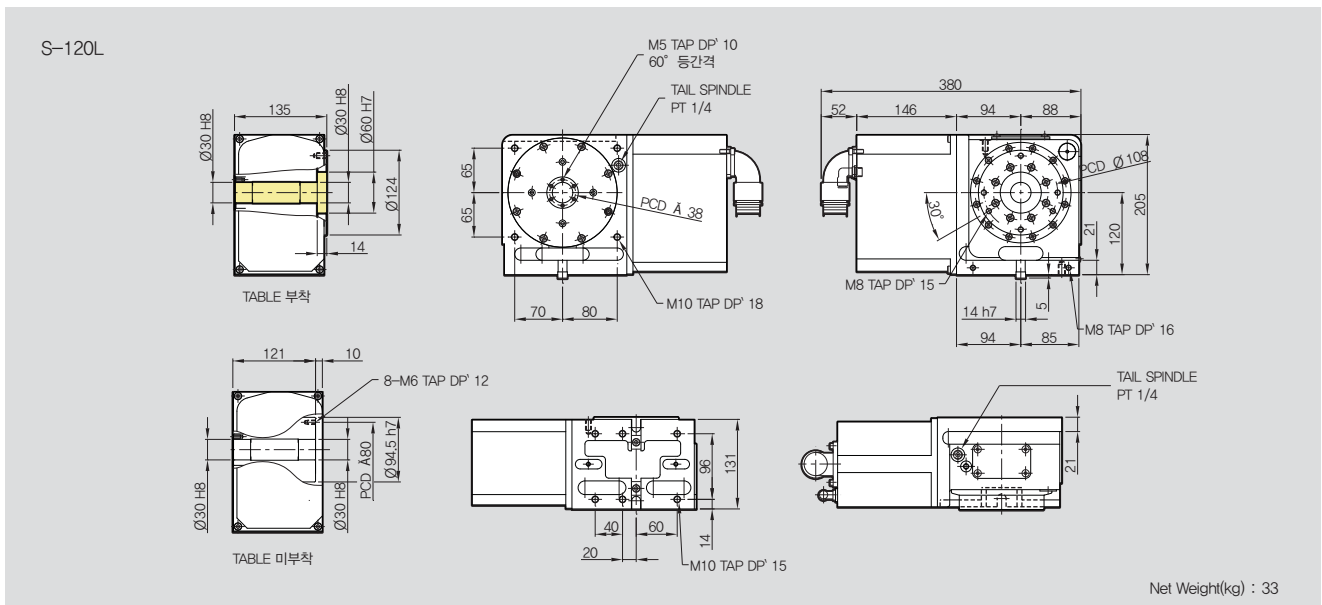
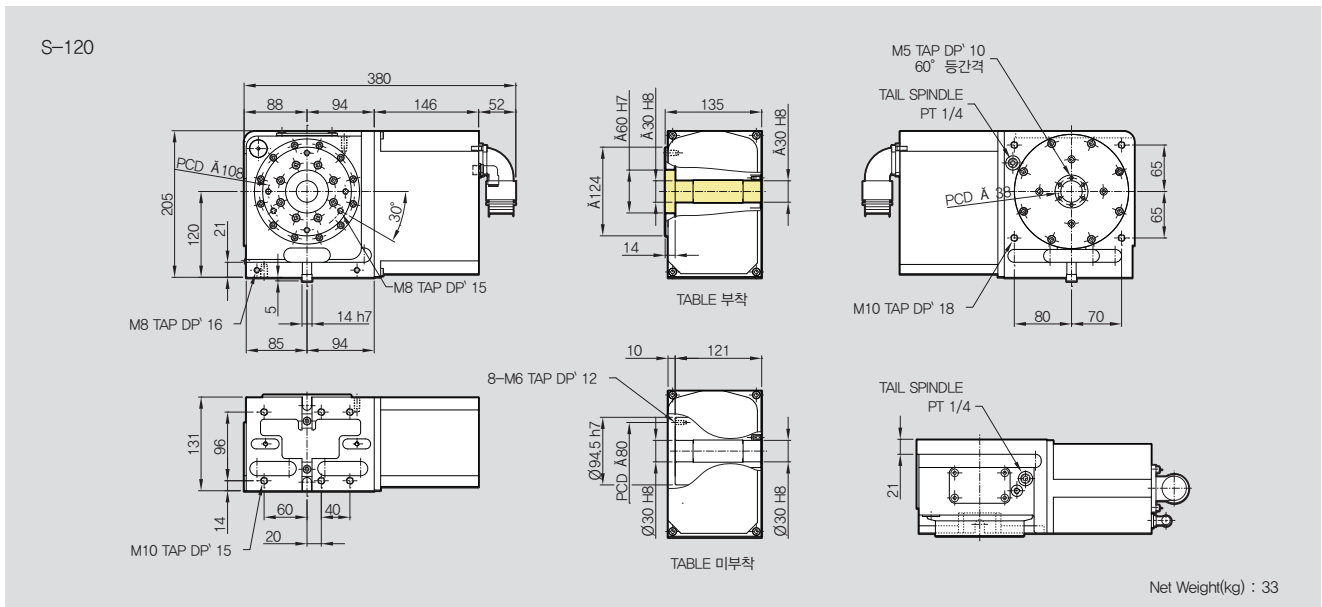
Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 Realize High Clamping Force by applying Double Piston

Model No.

S-120 L

Motor Side
 Table Diameter
 TYPE : Single Spindle NC Rotary Table(Standard)



※ Product contents : The same with S-120F2(without servo motor)

S-170,170L Controller type for NC Rotary Table

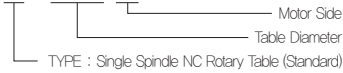


Application / Benefits

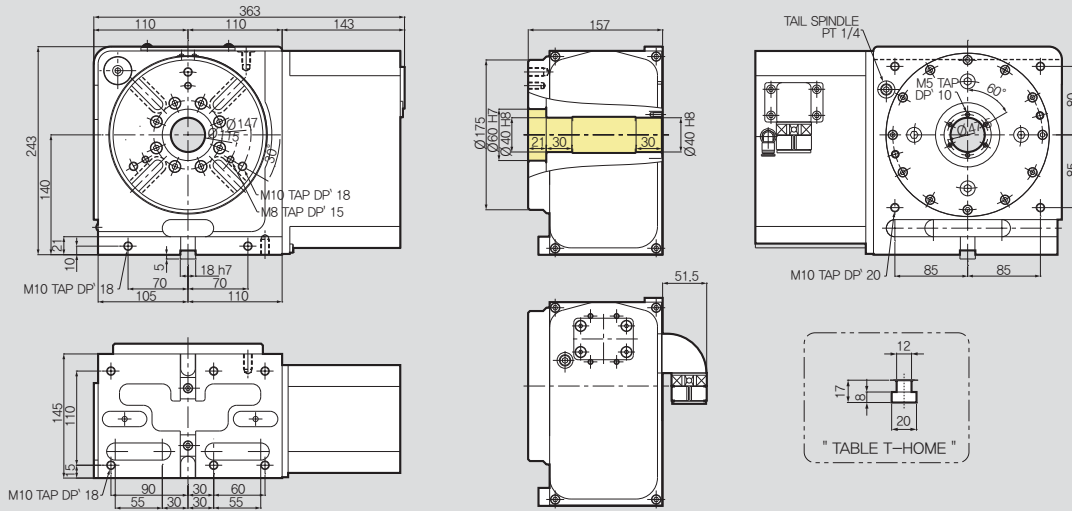
High Precision&High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 Realize High Clamping Force by applying Double Piston

Model No.

S-170 L

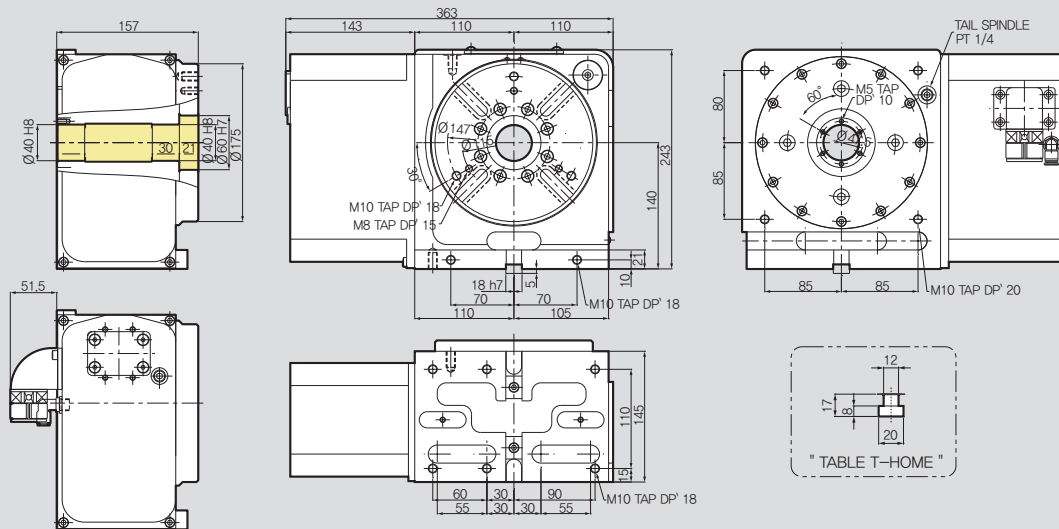


S-170



Net Weight(kg) : 50

S-170L



Net Weight(kg) : 50

※Product contents : The same with S-170F2(without servo motor)

S-250i, 250Li Controller type for NC Rotary Table

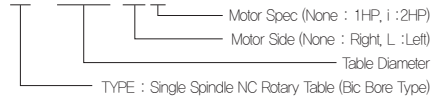


Application / Benefits

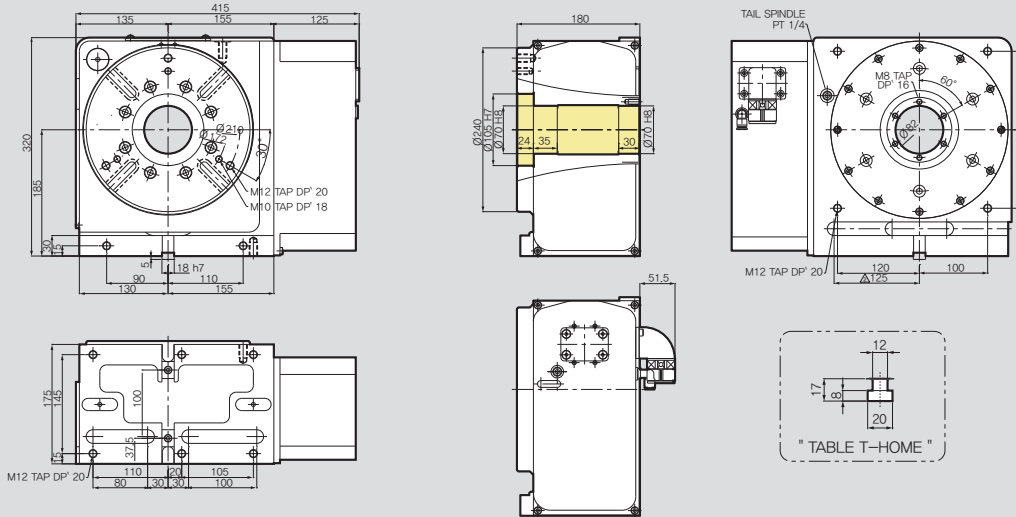
High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 Realize High Clamping Force by applying Double Piston

Model No.

S-250 L i

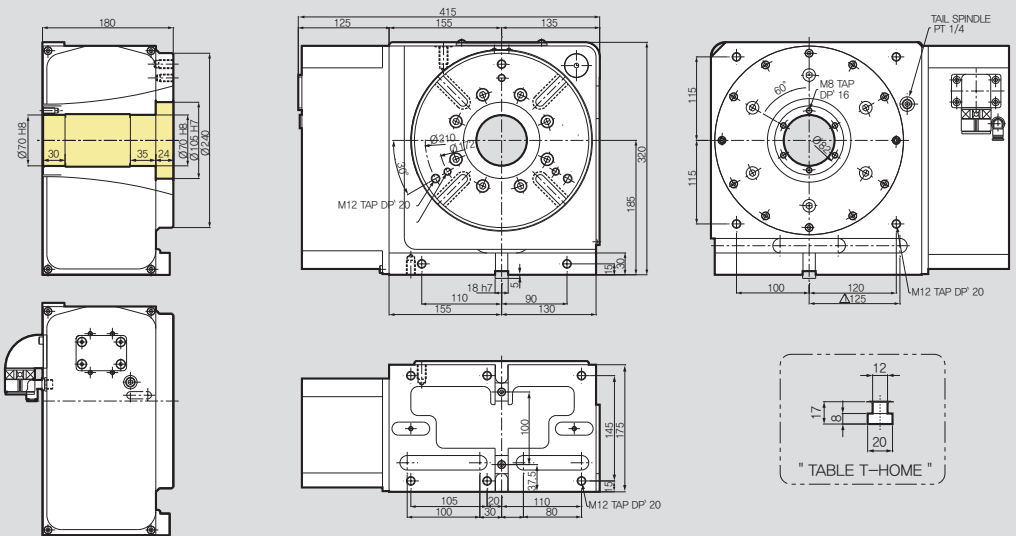


S-250i



Net Weight(kg) : 91

S-250Li



Net Weight(kg) : 91

※Product contents : The same with S-250F4(without servo motor)

HRS-174F2 4th axis Hydraulic NC Rotary Table

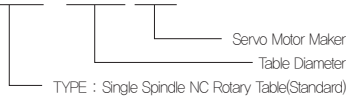


Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal application
 Compact Design, Extremely Rigid Body
 High Clamping power (Hydraulic)

Model No.

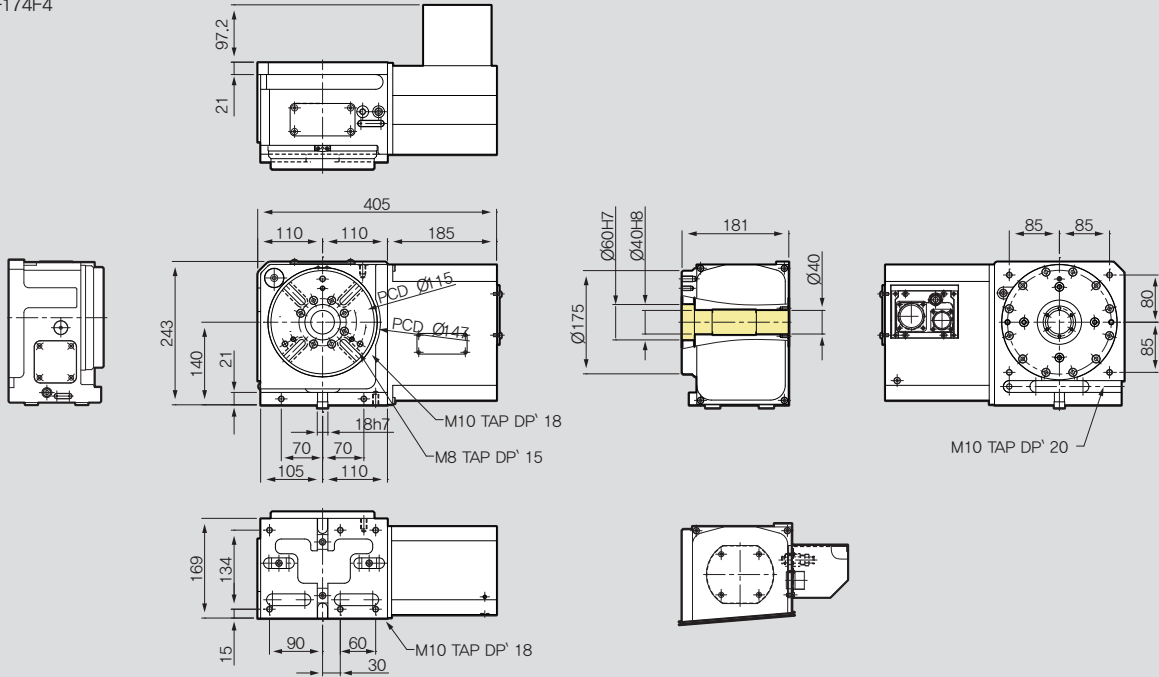
HRS-174 F2



Servo Motor Maker

- | | |
|----------------|-----------------|
| F : FANUC | H : HEIDENHAIN |
| S : SIEMENS | L : LS MECAPION |
| M : MITSUBISHI | SY : SANYO |
| P : PANASONIC | FA : FAGOR |
| Y : YASKAWA | O : OKUMA |

HRS-174F4



NC Rotary Table

SPECIFICATIONS

Table Dia. [mm]	Ø175
Center Height [mm]	140
Resister Dia. On Face Plate	Ø60H7
Spindle Through Hole Dia. [mm]	Ø40H8
Clamp Method	Hydraulic MAX. 35bar
Allowable Work Inertia [kgm ²]	0.51
Clamp Torque [N · m]	-
Max. Spindle Speed [mm ⁻¹]	69.4
Gear Ratio [mm]	1/72
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	20
Weight [kg]	62
Servo Motor [FANUC]	aiF2 / 5000

Allowable load	Horizontal [kg]		160
	Vertical [kg]		80
Allowable cutting load	F x L [N·m]		10
	F x L [N·m]		600
Allowable Cutting Torque [N·m]	F x L [N·m]		380
	F x L [N·m]		220

HRS-204F4 4th axis Hydraulic NC Rotary Table



Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 High Clamping power (Hydraulic)

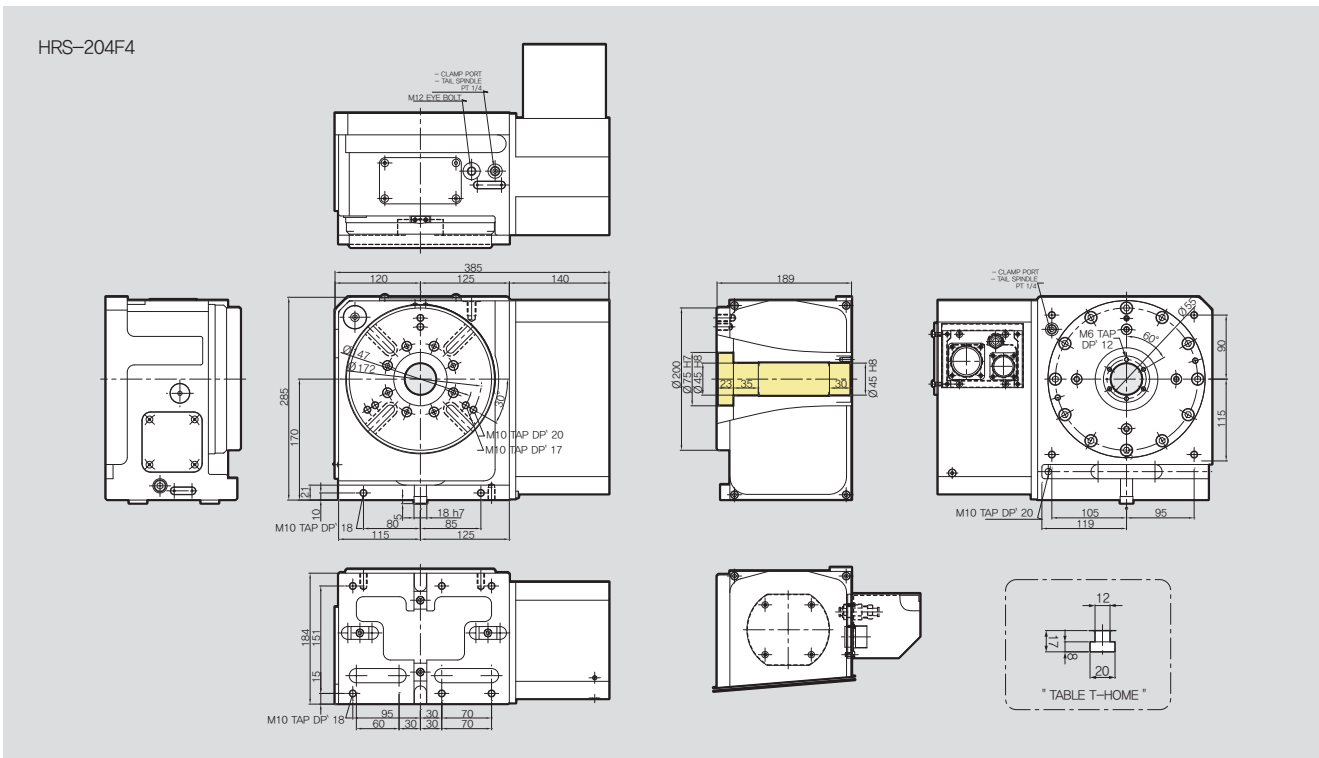
Model No.

HRS-204 F4



Servo Motor Maker

- | | |
|----------------|-----------------|
| F : FANUC | H : HEIDENHAIN |
| S : SIEMENS | L : LS MECAPION |
| M : MITSUBISHI | SY : SANYO |
| P : PANASONIC | FA : FAGOR |
| Y : YASKAWA | O : OKUMA |



SPECIFICATIONS

Table Dia. [mm]	Ø210
Center Height [mm]	170
Resister Dia. On Face Plate	Ø75H7
Spindle Through Hole Dia. [mm]	Ø45H8
Clamp Method	Hydraulic MAX. 35bar
Allowable Work Inertia [kgm ²]	0.8
Clamp Torque [N · m]	720
Max. Spindle Speed [mm ⁻¹]	33.3
Gear Ratio [mm]	1/90
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	20
Weight [kg]	79
Servo Motor [FANUC]	aiF4 / 4000

Allowable load	Horizontal [kg]		200
	Vertical [kg]		100
Allowable cutting load	F [kN]		17
	F x L [N-m]		1100
Allowable Cutting Torque	F x L [N-m]		480
	[N-m]		270

HRS-254F4 4th axis Hydraulic NC Rotary Table



Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 High Clamping power (Hydraulic)

Model No.

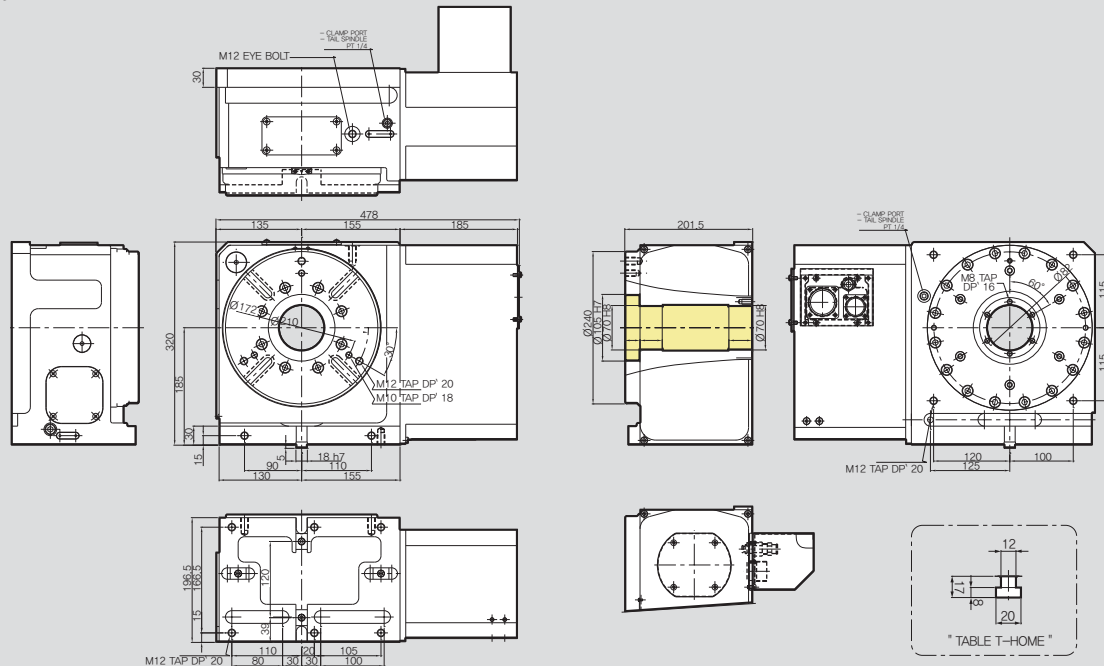
HRS-254 F4



Servo Motor Maker

F : FANUC H : HEIDENHAIN
 S : SIEMENS L : LS MECAPION
 M : MITSUBISHI SY : SANYO
 P : PANASONIC FA : FAGOR
 Y : YASKAWA O : OKUMA

HRS-254F4



SPECIFICATIONS

Table Dia. [mm]	Ø240
Center Height [mm]	185
Resister Dia. On Face Plate	Ø105H7
Spindle Through Hole Dia. [mm]	Ø70H8
Clamp Method	Hydraulic MAX. 35bar
Allowable Work Inertia [kgm ²]	1.95
Clamp Torque [N · m]	1500
Max. Spindle Speed [mm ⁻¹]	33.3
Gear Ratio [mm]	1/90
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	20
Weight [kg]	116
Servo Motor [FANUC]	αiF4 / 4000

Allowable load	Horizontal [kg]		250
	Vertical [kg]		125
Allowable cutting load	F [kN]		21
	F x L [N·m]		1600
Allowable Cutting Torque	F x L [N·m]		750
	[N·m]		480

HRS-254F8 4th axis Hydraulic NC Rotary Table



Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 High Clamping power (Hydraulic)

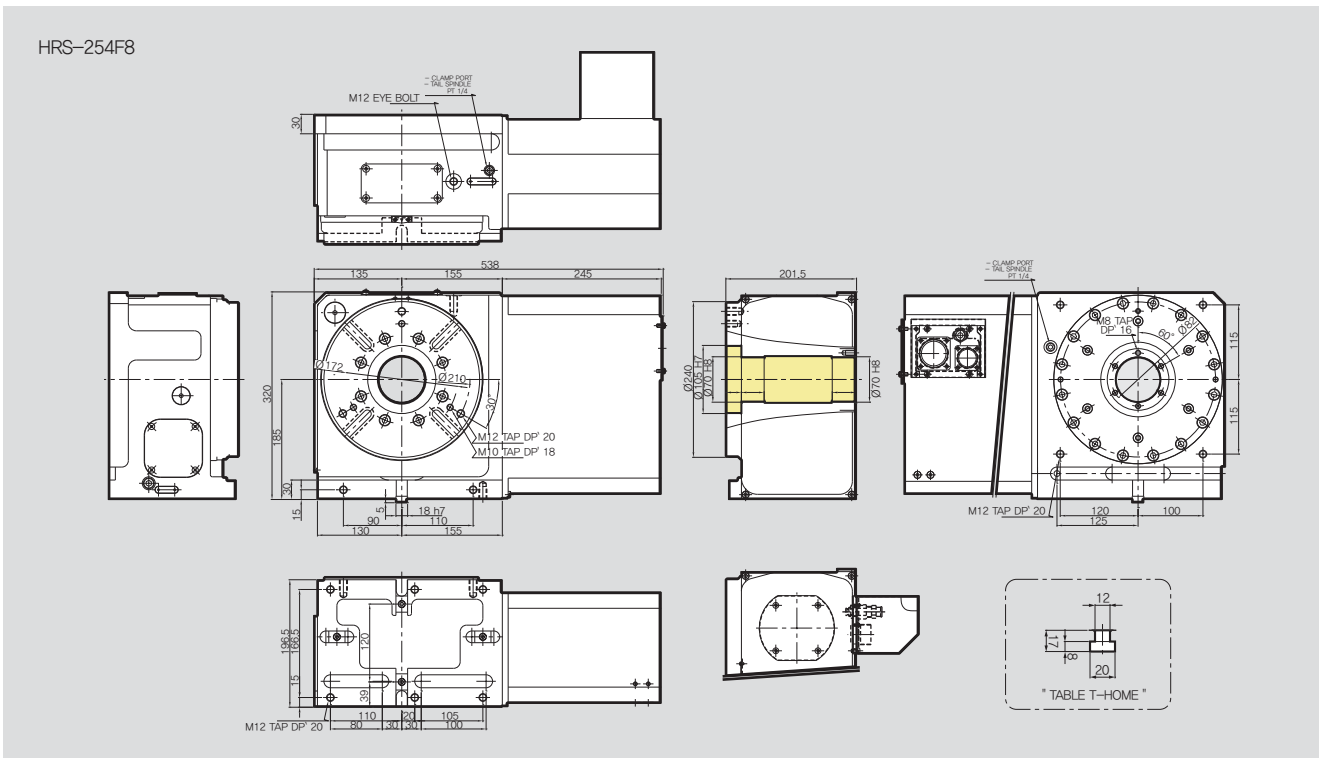
Model No.

HRS-254 F8



Servo Motor Maker

- | | |
|----------------|-----------------|
| F : FANUC | H : HEIDENHAIN |
| S : SIEMENS | L : LS MECAPION |
| M : MITSUBISHI | SY : SANYO |
| P : PANASONIC | FA : FAGOR |
| Y : YASKAWA | O : OKUMA |



SPECIFICATIONS

Table Dia. [mm]	Ø240
Center Height [mm]	185
Resister Dia. On Face Plate	Ø105H7
Spindle Through Hole Dia. [mm]	Ø70H8
Clamp Method	Hydraulic MAX. 35 bar
Allowable Work Inertia [kgm ²]	3.12
Clamp Torque [N · m]	1500
Max. Spindle Speed [mm ⁻¹]	33.3
Gear Ratio [mm]	1/90
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	20
Weight [kg]	116
Servo Motor [FANUC]	aiF8 / 3000

Allowable load	Horizontal [kg]		250
	Vertical [kg]		125
Allowable cutting load	F [kN]		21
	F x L [N·m]		1600
	F x L [N·m]		750
Allowable Cutting Torque	[N·m]		600

HRS-324F8 4th axis Hydraulic NC Rotary Table



Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 High Clamping power (Hydraulic)

Model No.

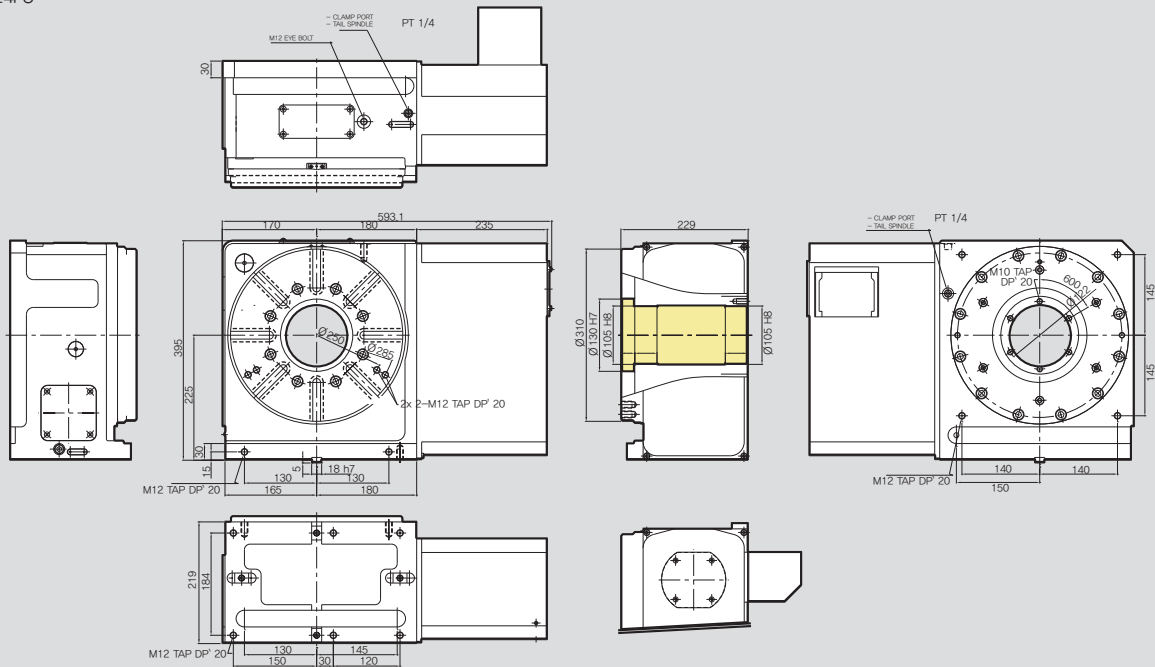
HRS-324 F8

— Servo Motor Maker
 — Table Diameter
 TYPE : Single Spindle NC Rotary Table (Standard)

Servo Motor Maker

F : FANUC H : HEIDENHAIN
 S : SIEMENS L : LS MECAPION
 M : MITSUBISHI SY : SANYO
 P : PANASONIC FA : FAGOR
 Y : YASKAWA O : OKUMA

HRS-324F8



SPECIFICATIONS

Table Dia. [mm]	Ø310
Center Height [mm]	225
Resister Dia. On Face Plate	Ø130H7
Spindle Through Hole Dia. [mm]	Ø105H8
Clamp Method	Hydraulic MAX. 35 bar
Allowable Work Inertia [kgm ²]	4.49
Clamp Torque [N · m]	2300
Max. Spindle Speed [mm ⁻¹]	25
Gear Ratio [mm]	1/120
Repeatability Accuracy [sec.]	4
Indexing Accuracy [sec.]	20
Weight [kg]	180
Servo Motor [FANUC]	αiF8 / 3000

Allowable load	Horizontal [kg]		350
	Vertical [kg]		180
Allowable cutting load	F [kN]		25
	F x L [N·m]		2400
Allowable Cutting Torque	F x L [N·m]		1440
	[N·m]		800

HRS-204, 254i

Controller type Hydraulic
NC Rotary Table



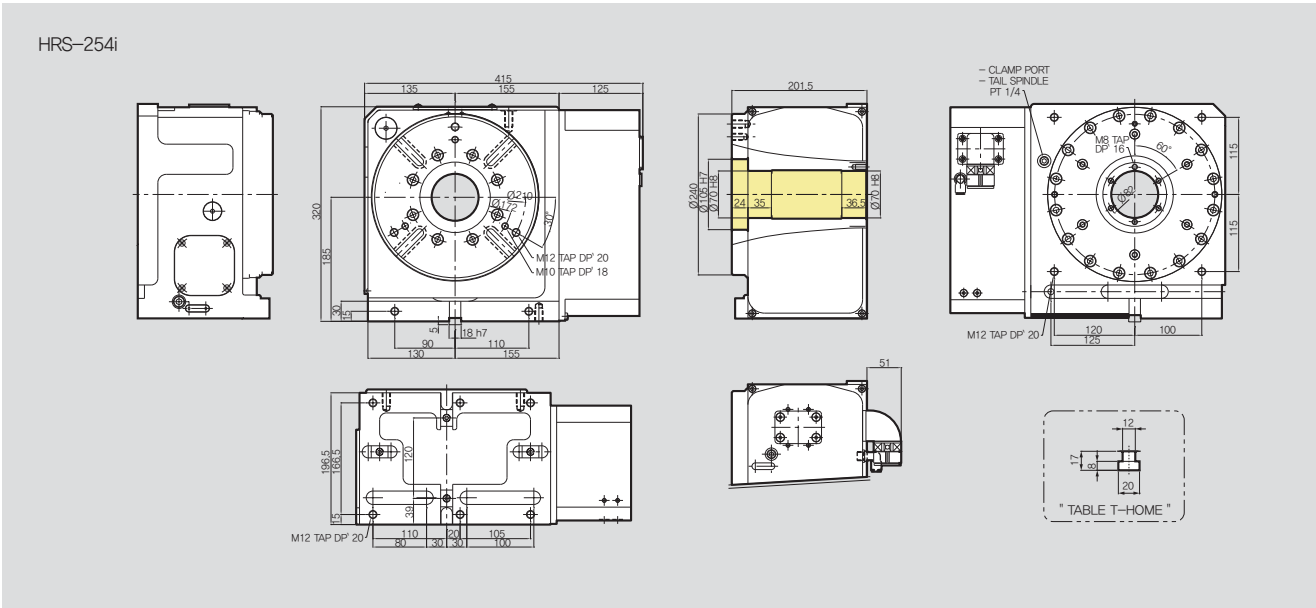
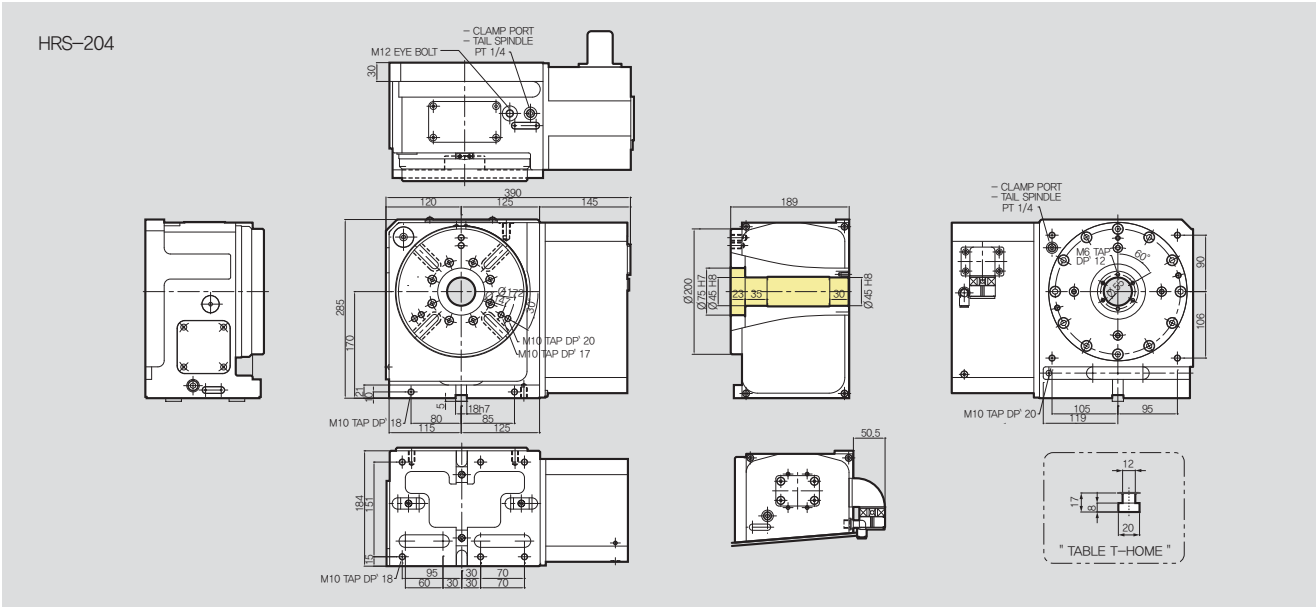
Application / Benefits

High Precision & High Speed Systems, Vertical & Horizontal available
Compact Design, Extremely Rigid Body
High Clamping power (Hydraulic)

Model No.

HRS-204

Table Diameter
TYPE : Single Spindle NC Rotary Table (Standard)



※ Product contents : The same with HRS-204F4(without servo motor)

HRS-324i Controller type Hydraulic NC Rotary Table



Application / Benefits

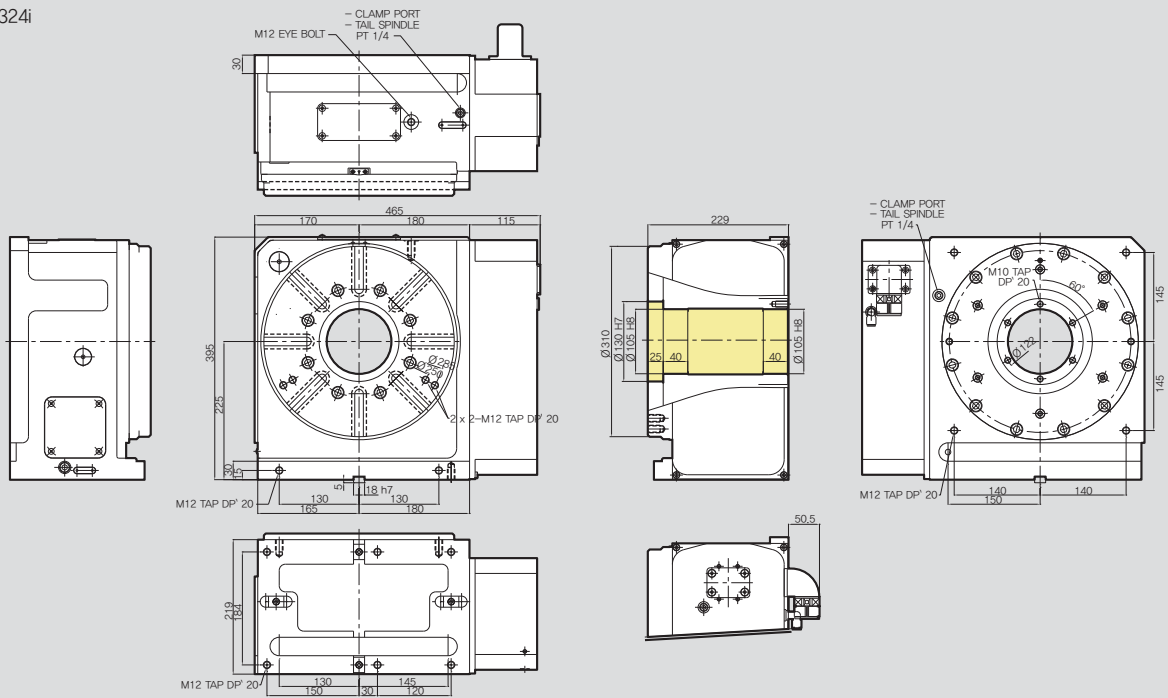
High Precision & High Speed Systems, Vertical & Horizontal available
 Compact Design, Extremely Rigid Body
 High Clamping power (Hydraulic)

Model No.

HRS-324 i

Motor Side (None : 1HP, i : 2HP)
 Table Diameter
 TYPE : Single Spindle NC Rotary Table (Standard)

HRS-324i



※Product contents : The same with HRS-324F8(without servo motor)

TR-120FF 4th, 5th axis for Tilting NC Rotary Table



Application / Benefits

Compact Tilting Series, High Precision&High Speed Systems
 Convenient JIG Design, Compact Design, Extremely Rigid Body
 High Clamping power (Hydraulic)

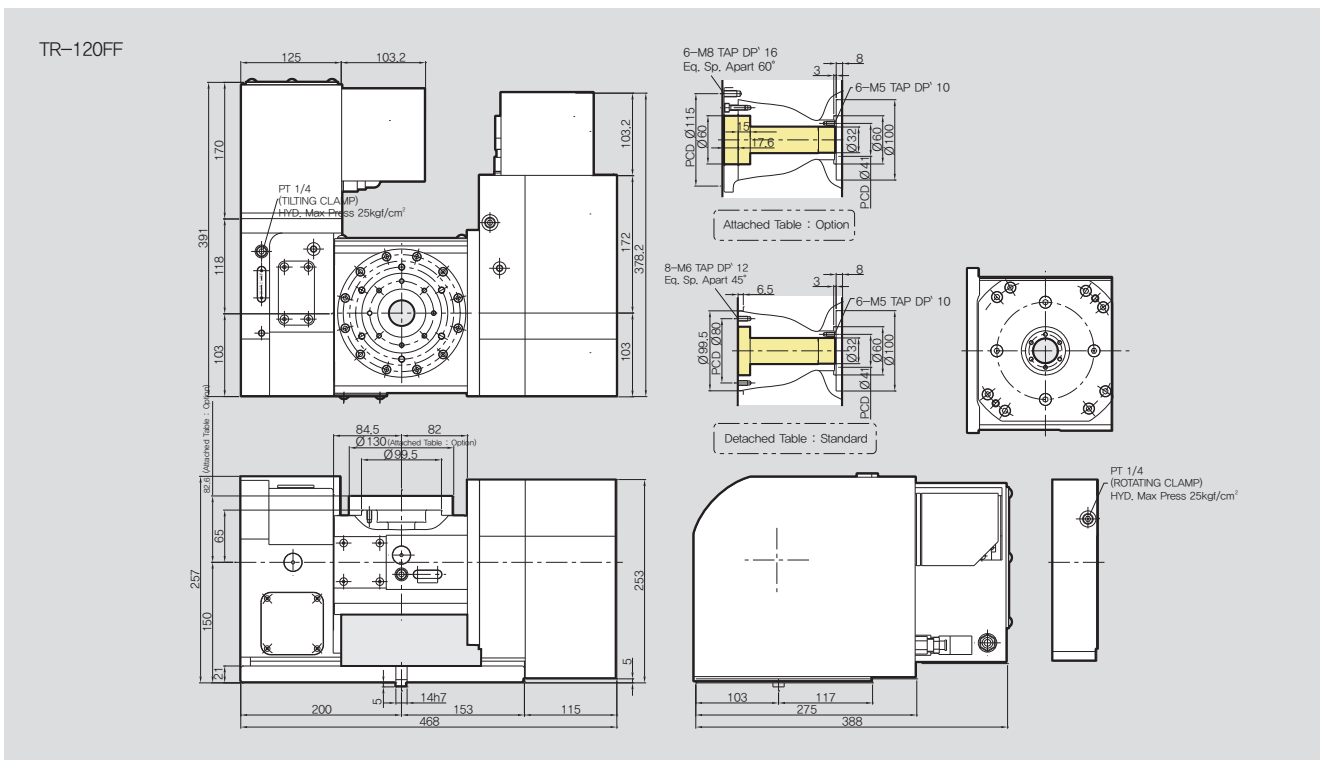
Model No.

TR-120 FF

— Servo Motor Maker
 — Table Diameter
 — TYPE : Tilting NC Rotary Table(Standard)

Servo Motor Maker

F : FANUC H : HEIDENHAIN
 S : SIEMENS L : LS MECAPION
 M : MITSUBISHI SY : SANYO
 P : PANASONIC FA : FAGOR
 Y : YASKAWA O : OKUMA



SPECIFICATIONS

Tilting Range: $-20^{\circ} \sim 110^{\circ}$

Table Dia. [mm]	Ø130	
Center Height [mm]	150	
Resister Dia. On Face Plate	Ø60H7	
Spindle Through Hole Dia. [mm]	Ø32H8	
Clamp Method	Hydraulic Max. 20bar	
Allowable Work Inertia [kgm ²]	0.06	
Weight [kg]	120	
	Rotating Axis	Tilting Axis
Max. Spindle Speed [mm ⁻¹]	33.3	16.6
Gear Ratio [mm]	1/90	1/180
Repeatability Accuracy [sec]	4	4
Indexing Accuracy [sec]	40	60
Clamp Torque [N · m]	200	300
Servo Motor [FANUC]	aiF2 / 5000	aiF2 / 5000

Allowable load	Horizontal [kg]		35
	Vertical [kg]		20
Allowable cutting load	F [kN]		4
	F x L [N·m]		380
Allowable Cutting Torque	F x L [N·m]		240
	[N·m]		190
Moment Of Tilting Weight	W x L [kgf·m]		10

TR-200FF 4th, 5th axis for Tilting NC Rotary Table

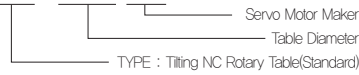


Application / Benefits

Compact Tilting Series, High Precision&High Speed Systems
 Convenient JIG Design, Compact Design, Extremely Rigid Body
 High Clamping power (Hydraulic)

Model No.

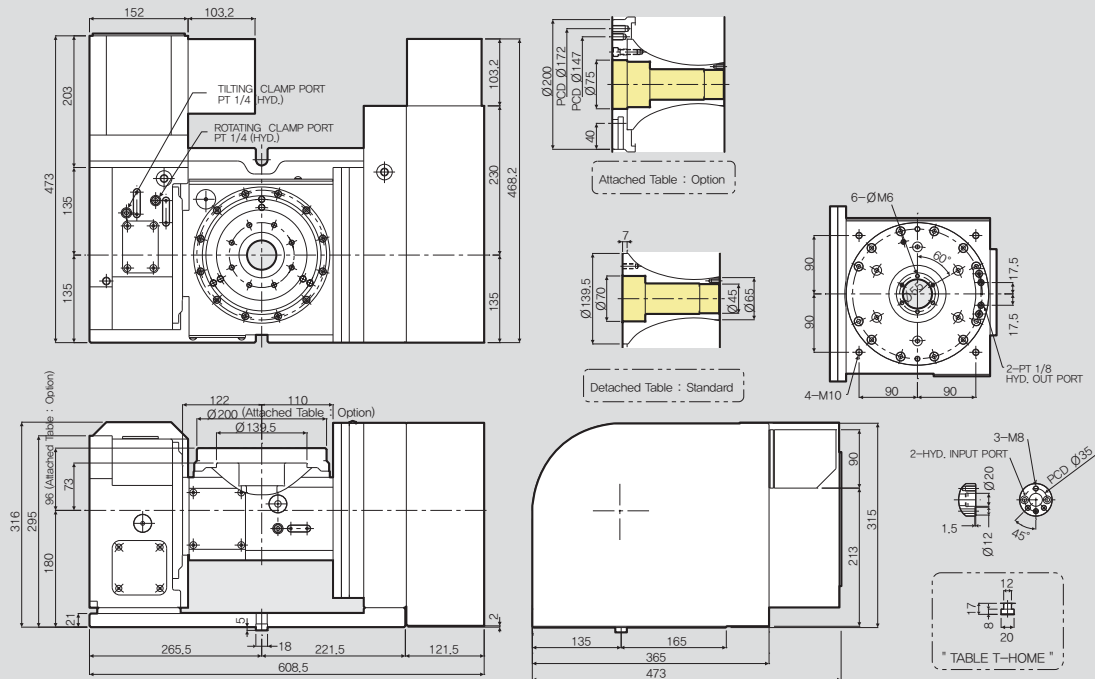
TR-200 FF



Servo Motor Maker

- | | |
|----------------|-----------------|
| F : FANUC | H : HEIDENHAIN |
| S : SIEMENS | L : LS MECAPION |
| M : MITSUBISHI | SY : SANYO |
| P : PANASONIC | FA : FAGOR |
| Y : YASKAWA | O : OKUMA |

TR-200FF



NC Rotary Table

SPECIFICATIONS

Tilting Range: $-20^{\circ} \sim 110^{\circ}$

Table Dia. [mm]	Ø200	
Center Height [mm]	180	
Resister Dia. On Face Plate	Ø70H7	
Spindle Through Hole Dia. [mm]	Ø45H8	
Clamp Method	Hydraulic Max. 35bar	
Allowable Work Inertia [kgm ²]	0.25	
Weight [kg]	250	
Max. Spindle Speed [mm ⁻¹]	Rotating Axis	Tilting Axis
	33.3	16.6
Gear Ratio [mm]	1/90	1/180
Repeatability Accuracy [sec]	4	4
Indexing Accuracy [sec]	30	60
Clamp Torque [N · m]	450	800
Servo Motor [FANUC]	aiF4 / 4000	aiF4 / 4000

Allowable load	Horizontal [kg]		60
	Vertical [kg]		40
Allowable cutting load	F [kN]		5
	F x L [N·m]		800
Allowable Cutting Torque	F x L [N·m]		450
	[N·m]		250
Moment Of Tilting Weight	W x L [kg·m]		12

TR-320FF 4th, 5th axis for Tilting NC Rotary Table



Application / Benefits

Tilting Series, High Precision&High Speed Systems, Convenient JIG Design
Extremely Rigid Body, High Clamping power (Hydraulic)

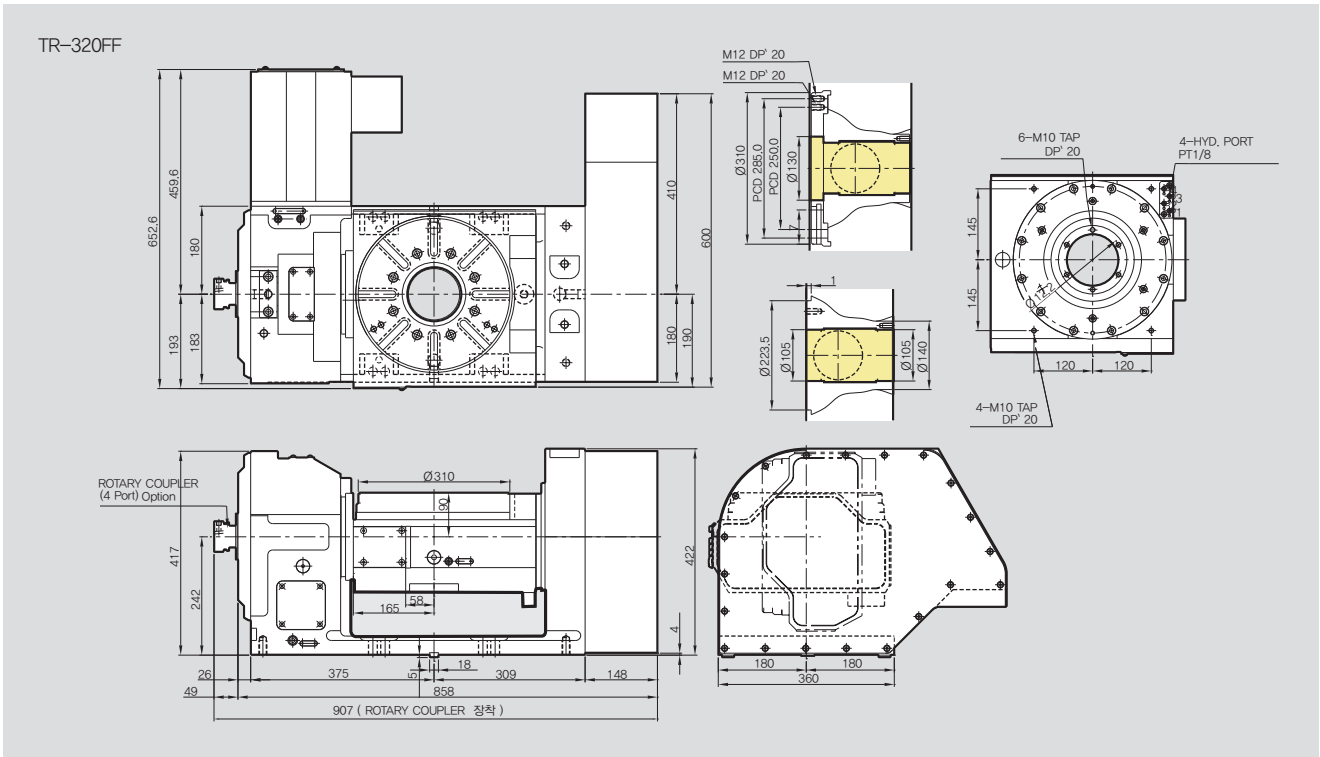
Model No.

TR-320 FF

— Servo Motor Maker
— Table Diameter
— TYPE : Tilting NC Rotary Table(Standard)

Servo Motor Maker

F : FANUC H : HEIDENHAIN
S : SIEMENS L : LS MECAPION
M : MITSUBISHI SY : SANYO
P : PANASONIC FA : FAGOR
Y : YASKAWA O : OKUMA



SPECIFICATIONS

Tilting Range: $-20^{\circ} \sim 110^{\circ}$

Table Dia. [mm]	Ø320	
Center Height [mm]	242	
Resister Dia. On Face Plate	Ø130H7	
Spindle Through Hole Dia. [mm]	Ø105H8	
Clamp Method	Hydraulic Max. 35bar	
Allowable Work Inertia [kgm ²]	-	
Weight [kg]	410	
	Rotating Axis	Tilting Axis
Max. Spindle Speed [mm ⁻¹]	25	25
Gear Ratio [mm]	1/120	1/120
Repeatability Accuracy [sec]	4	8
Indexing Accuracy [sec]	30	60
Clamp Torque [N · m]	2300	2600
Servo Motor [FANUC]	aiF8 / 3000	aiF12 / 3000

Allowable load	Horizontal [kg]		150
	Vertical [kg]		100
Allowable cutting load	F [kN]		13.5
	F x L [N·m]		2600
Allowable Cutting Torque	F x L [N·m]		2300
	[N·m]		800
Moment Of Tilting Weight	W x L [kgf·m]		-

TR-120, 200i Controller type for Tilting NC Rotary Table



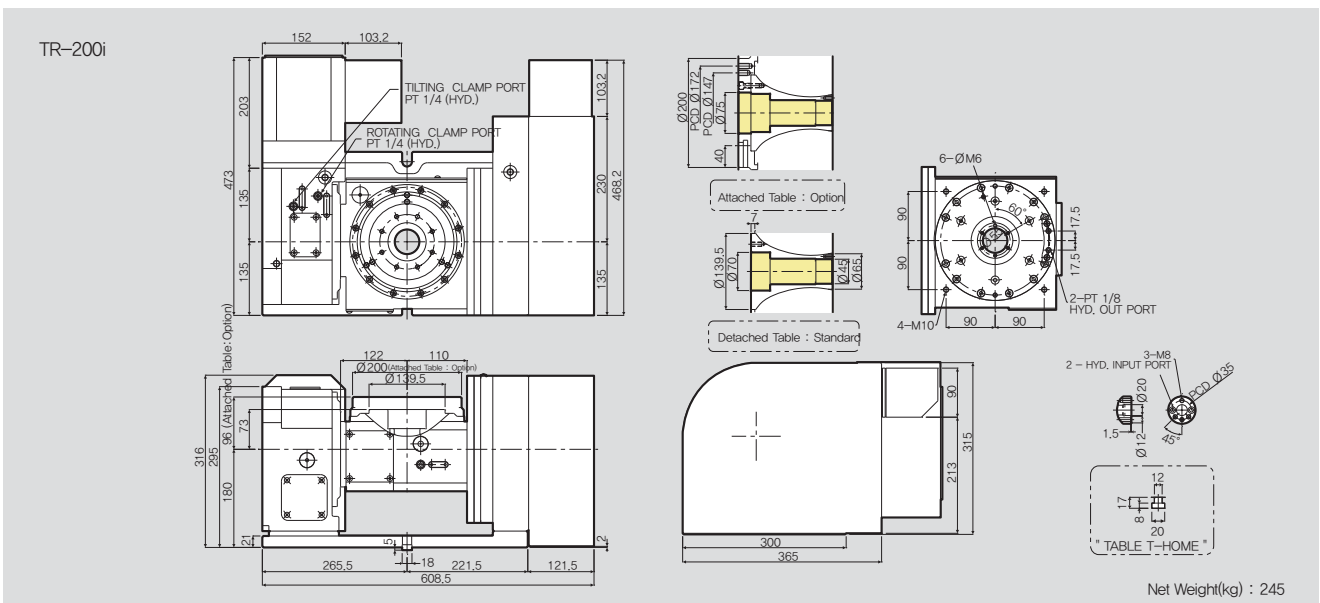
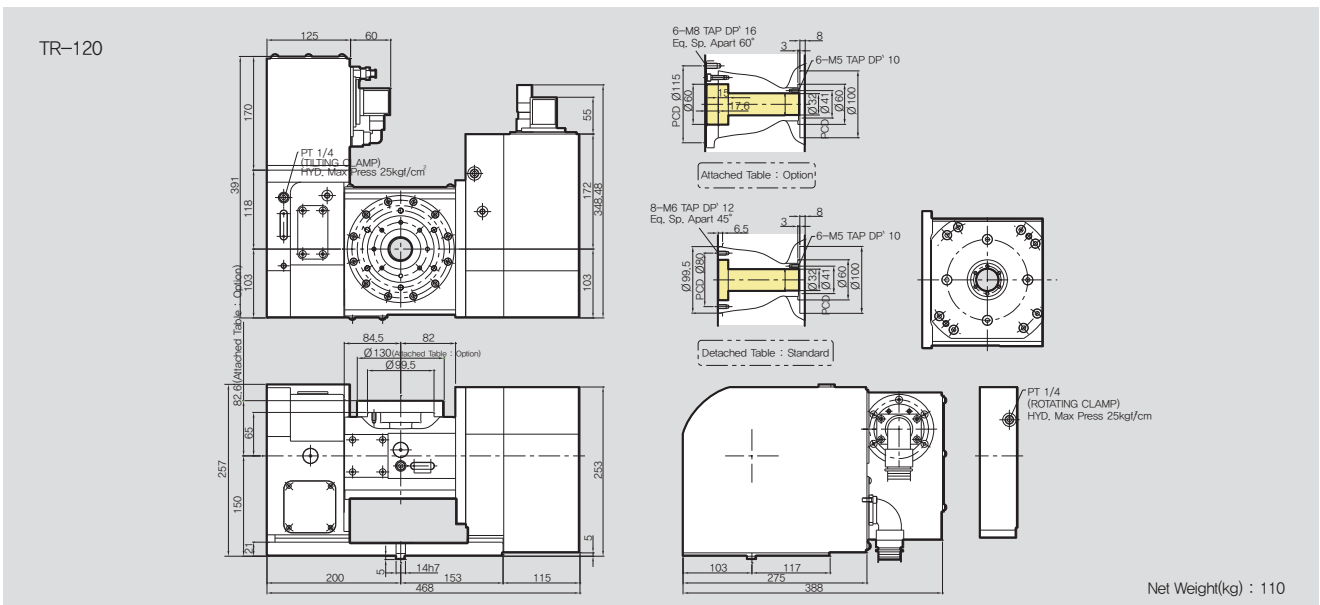
Application / Benefits

Tilting Series, High Precision&High Speed Systems, Convenient JIG Design
Compact Design, Extremely Rigid Body

Model No.

TR-120

Table Diameter
TYPE : Tilting NC Rotary Table



※Product contents : The same with TR-120FF(without servo motor)

TR-250i

Controller type for Tilting NC Rotary Table

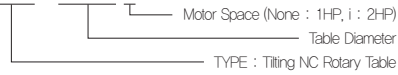


Application / Benefits

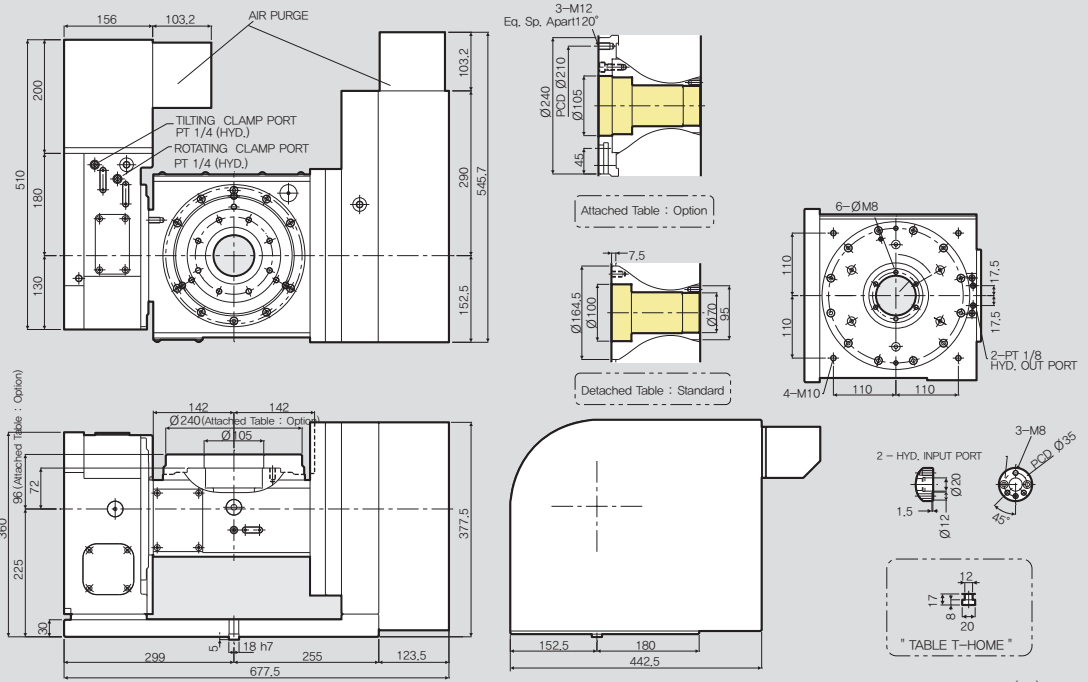
Tilting Series, High Precision&High Speed Systems, Convenient JIG Design
Extremely Rigid Body, High Clamping power (Hydraulic)

Model No.

TR-250 i



TR-250i



※Product contents : The same with TR-250FF(without servo motor)

MTR2-17432ii

Controller type for Multi Spindle
Tilting NC Rotary Table

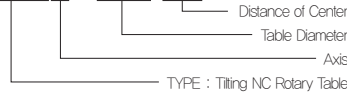


Application / Benefits

Multi Spindle Tilting Series, High Precision&High Speed Systems
Convenient JIG Design, Extremely Rigid Body, High Clamping power (Hydraulic)

Model No.

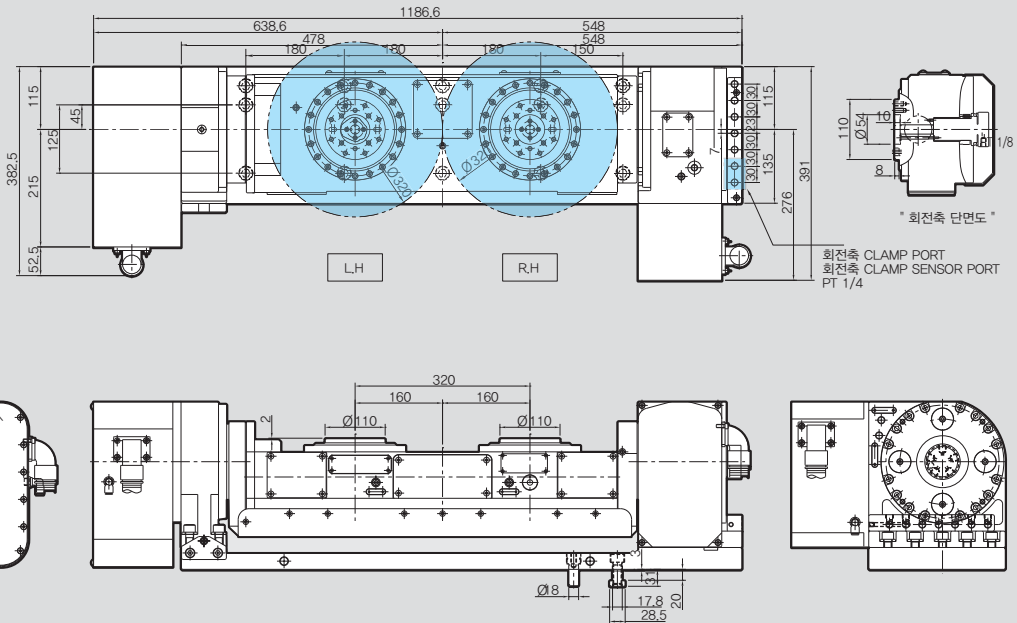
MTR2-174 32ii



Servo Motor Maker

- F : FANUC H : HEIDENHAIN
- S : SIEMENS L : LS MECAPION
- M : MITSUBISHI SY : SANYO
- P : PANASONIC FA : FAGOR
- Y : YASKAWA O : OKUMA

MTR2-17432ii



SPECIFICATIONS

Tilting Range: $-20^{\circ} \sim 120^{\circ}$

Table Dia. [mm]	Ø110	
Center Height [mm]	240	
Resister Dia. On Face Plate	Ø54 (Ø110)	
Distance between spindles [mm]	320	
Clamp Method	Hydraulic Max. 35 bar	
Allowable Work Inertia [kgm ²]	-	
Weight [kg]	295	
	Rotating Axis	Tilting Axis
Max. Spindle Speed [mm ⁻¹]	25	25
Gear Ratio [mm]	1/120	1/120
Repeatability Accuracy [sec]	4	4
Indexing Accuracy [sec]	40	60
Clamp Torque [N · m]	600	900
Servo Motor [FANUC]	SGMPS-15A2A6S	SGMPS-15A2A6S

Allowable load	Horizontal [kg]		40, 40
	Vertical [kg]		40, 40
Allowable cutting load	F [kN]		4
	F x L [N·m]		900
Allowable Cutting Torque	F x L [N·m]		600
	[N·m]		160

MTR2-20435ii, 20435FF

5th axis for Multi Spindle
Tilting NC Rotary Table

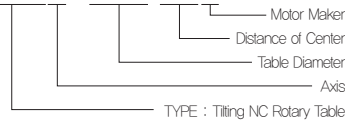


Application / Benefits

Multi Spindle Tilting Series, High Precision&High Speed Systems
Convenient JIG Design, Extremely Rigid Body, High Clamping power (Hydraulic)

Model No.

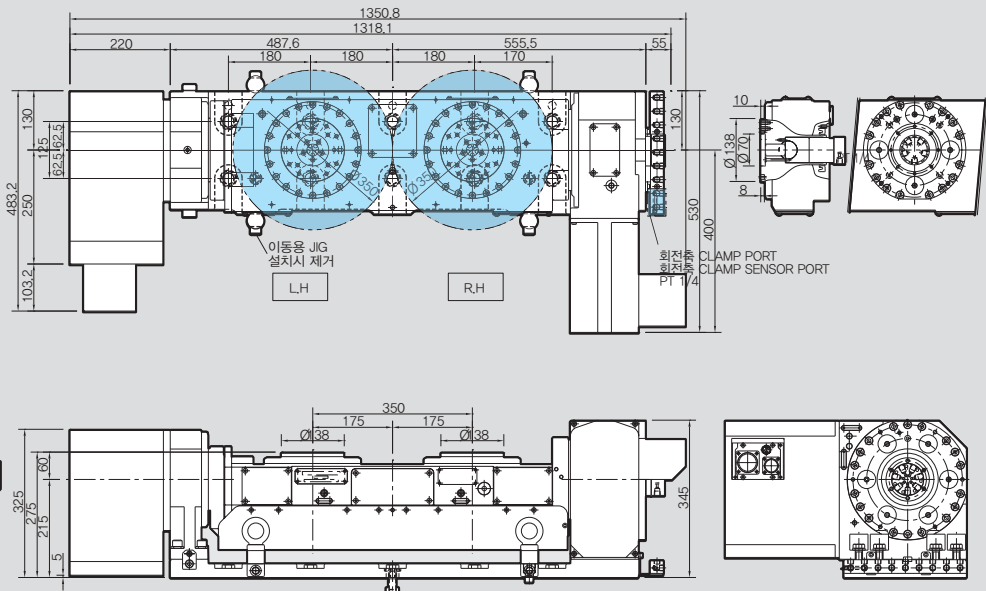
MTR2-204 35FF



Servo Motor Maker

- F : FANUC H : HEIDENHAIN
- S : SIEMENS L : LS MECAPION
- M : MITSUBISHI SY : SANYO
- P : PANASONIC FA : FAGOR
- Y : YASKAWA O : OKUMA

MTR2-20435FF



NC Rotary Table

SPECIFICATIONS

Tilting Range: $-20^{\circ} \sim 120^{\circ}$

Table Dia. [mm]	Ø138	
Center Height [mm]	275	
Resister Dia. On Face Plate	Ø70 (Ø138)	
Distance between spindles [mm]	350	
Clamp Method	Hydraulic Max. 35 bar	
Allowable Work Inertia [kgm ²]	-	
Weight [kg]	360	
Max. Spindle Speed [mm ⁻¹]	Rotating Axis	Tilting Axis
	25	25
Gear Ratio [mm]	1/120	1/120
Repeatability Accuracy [sec]	4	4
Indexing Accuracy [sec]	40	60
Clamp Torque [N · m]	800	1200
Servo Motor [FANUC]	aiF4 / 4000	aiF8 / 3000

Allowable load	Horizontal [kg]		50, 50
	Vertical [kg]		50, 50
Allowable cutting load	F [kN]		5
	F x L [N·m]		1200
	F x L [N·m]		800
Allowable Cutting Torque [N·m]			180

MS2-170F4 4th axis type for Multi Spindle NC Rotary Table

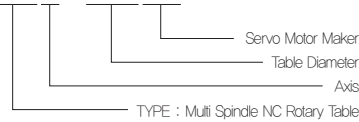


Application / Benefits

Doubles production output, Ideal for balanced workpieces
Realize High Clamping Force by applying Double Piston

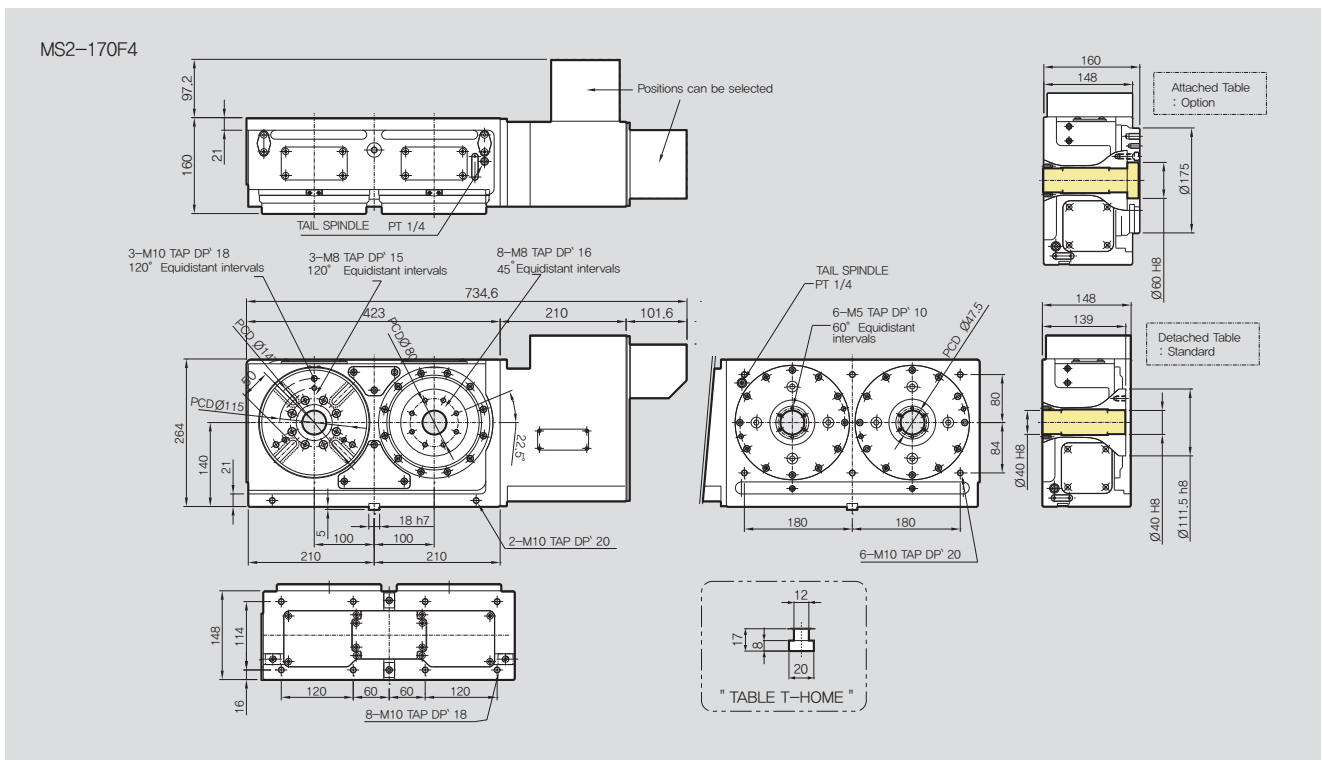
Model No.

MS2-170F4



Servo Motor Maker

F : FANUC	H : HEIDENHAIN
S : SIEMENS	L : LS MECAPION
M : MITSUBISHI	SY : SANYO
P : PANASONIC	FA : FAGOR
Y : YASKAWA	O : OKUMA



SPECIFICATIONS

Table Dia. [mm]	(Table: Option) Ø175
Center Height [mm]	140
Resister Dia. On Face Plate	Ø60H8
Spindle Through Hole Dia. [mm]	Ø40H8
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	0.51
Clamp Torque [N · m]	380
Max. Spindle Speed [mm ⁻¹]	44.4
Gear Ratio [mm]	1/90
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	30
Weight [kg]	87
Servo Motor [FANUC]	αiF4 / 4000

Allowable load	Horizontal [kg]		160, 160
	Vertical [kg]		80, 80
Allowable cutting load	F [kN]		10
	F x L [N·m]		600
Allowable Cutting Torque	F x L [N·m]		380
	[N·m]		300

MS2-170LF4 4th axis type for Multi Spindle NC Rotary Table

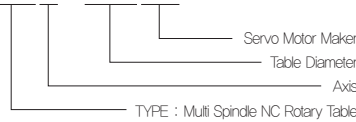


Application / Benefits

Doubles production output, Ideal for balanced workpiece
Realize High Clamping Force by applying Double Piston

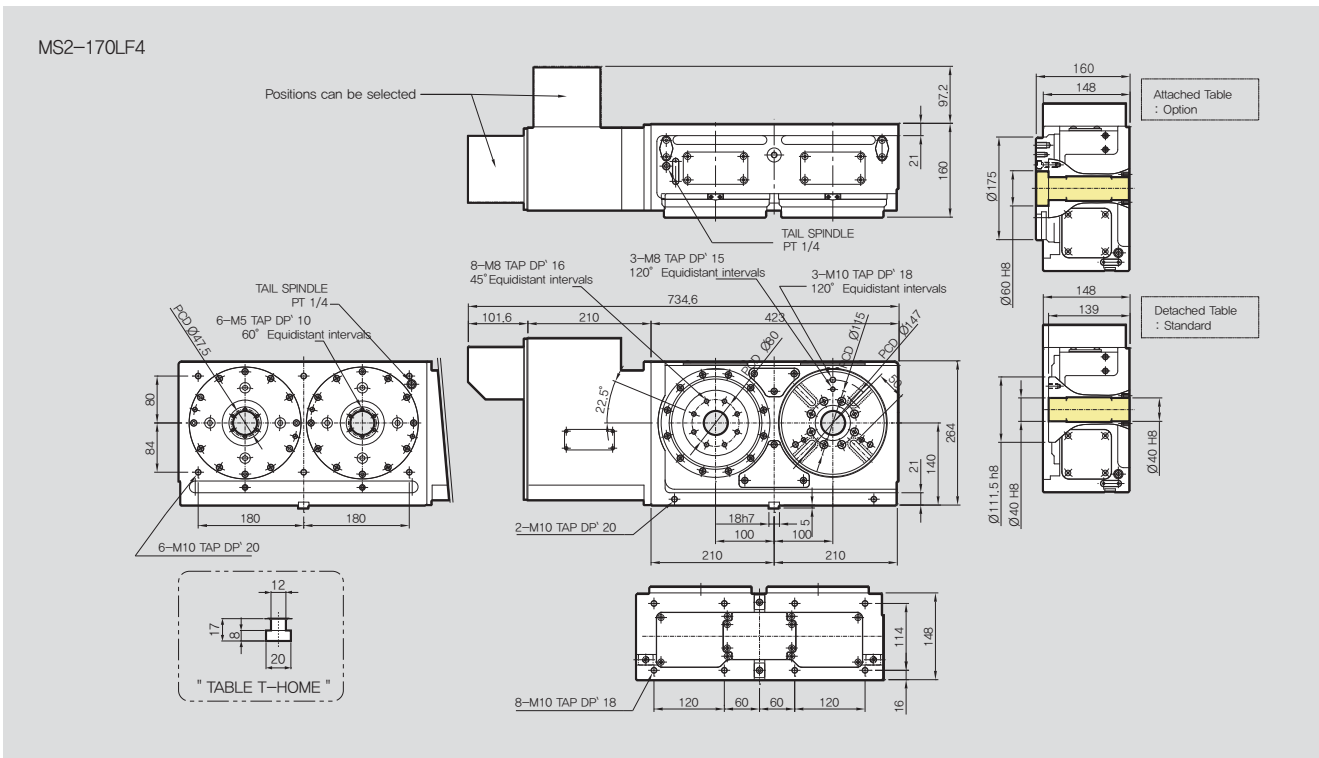
Model No.

MS2-170F4



Servo Motor Maker

F : FANUC H : HEIDENHAIN
S : SIEMENS L : LS MECAPION
M : MITSUBISHI SY : SANYO
P : PANASONIC FA : FAGOR
Y : YASKAWA O : OKUMA



SPECIFICATIONS

Table Dia. [mm]	(Table:Option) Ø175
Center Height [mm]	140
Resister Dia. On Face Plate	Ø60H8
Spindle Through Hole Dia. [mm]	Ø40H8
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	0.51
Clamp Torque [N · m]	380
Max. Spindle Speed [mm ⁻¹]	44.4
Gear Ratio [mm]	1/90
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	30
Weight [kg]	87
Servo Motor [FANUC]	αiF4 / 4000

Allowable load	Horizontal [kg]		160, 160
	Vertical [kg]		80, 80
Allowable cutting load	F [kN]		10
	F x L [N-m]		600
Allowable Cutting Torque	F x L [N-m]		380
	[N-m]		300

DM-170 Direct Drive Motor NC Rotary Table



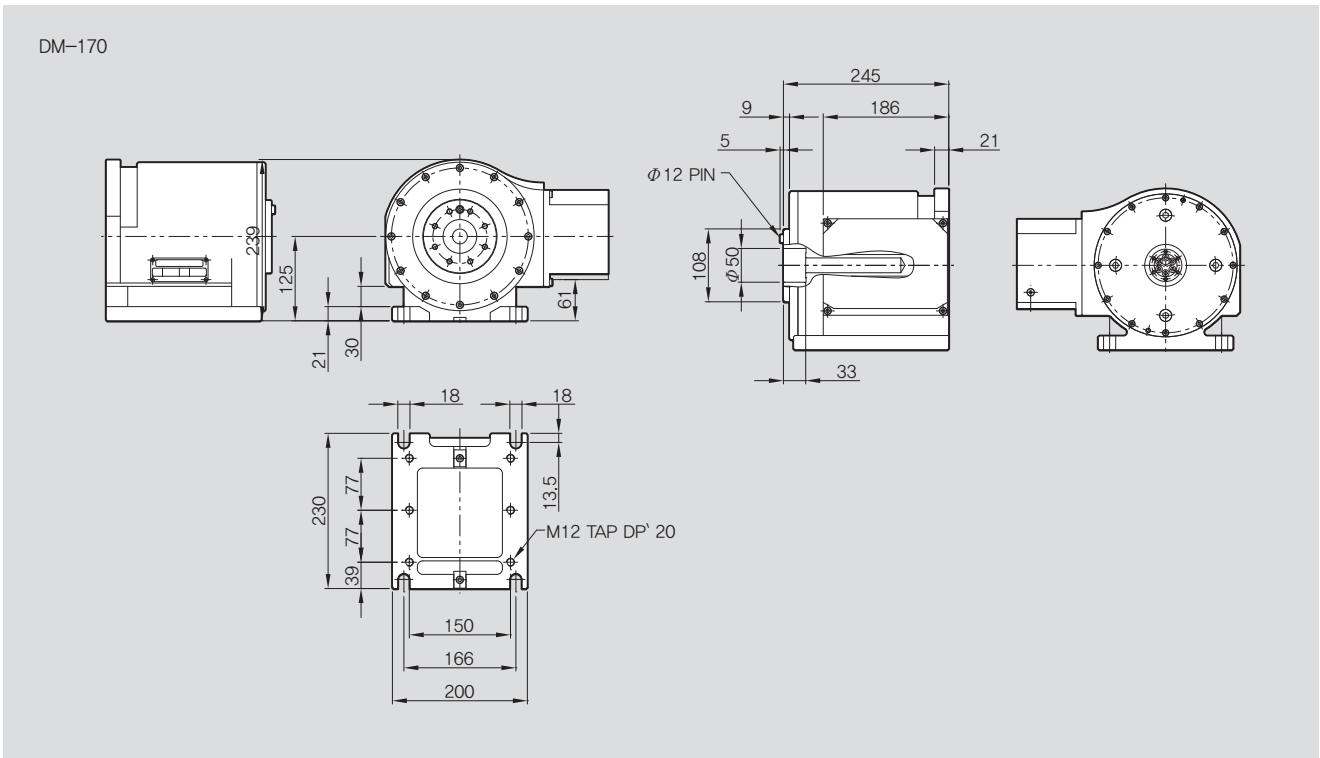
Application / Benefits

Max. table speed 200min⁻¹, Vertical & Horizontal available
 High Precision indexing system (With DD Motor), Compact Design
 Extremely Rigid Body, Yaskawa Direct Drive Motor

Model No.

DM-170

Table Diameter
 TYPE : Direct Drive Motor NC Rotary Table



SPECIFICATIONS

Table Dia. [mm]	Ø170
Center Height [mm]	125
Resister Dia. On Face Plate	Ø50H7
Spindle Through Hole Dia. [mm]	-
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	-
Clamp Torque [N · m]	-
Max. Spindle Speed [mm ⁻¹]	200
Gear Ratio [mm]	1/1
Repeatability Accuracy [sec]	±1.3
Indexing Accuracy [sec]	15
Weight [kg]	64

Allowable load	Horizontal [kg]		-
	Vertical [kg]		-
Allowable cutting load	F [kN]		3300
	F x L [N·m]		-
Allowable Cutting Torque	F x L [N·m]		-
	[N·m]		-

DM-260 Direct Drive Motor NC Rotary Table



Application / Benefits

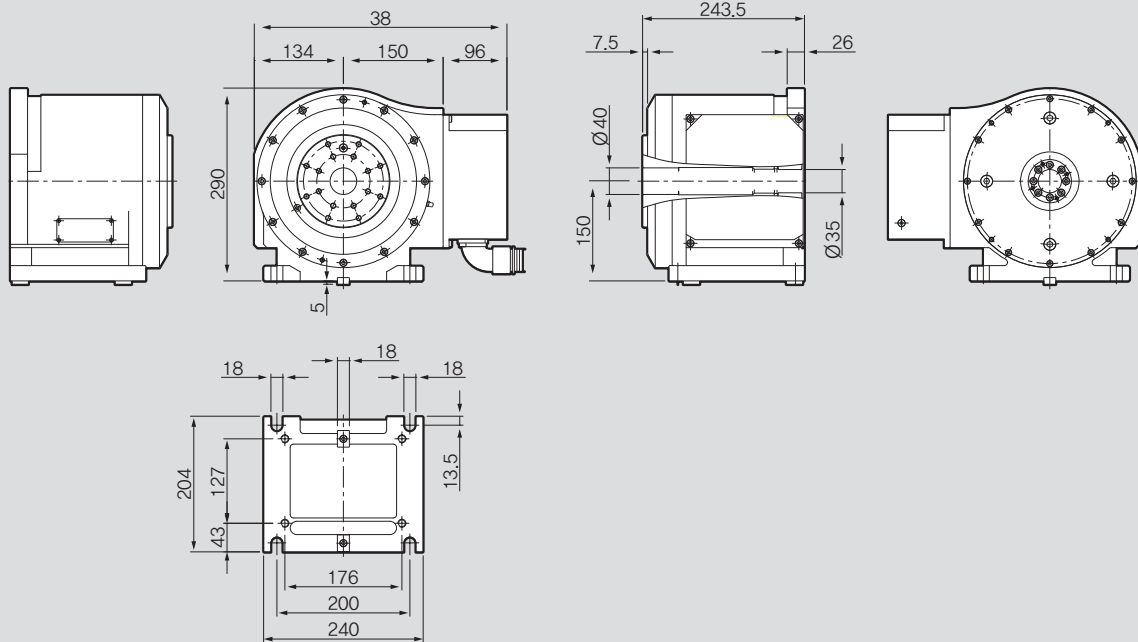
Max. table speed 200min⁻¹, Vertical & Horizontal available
 High Precision indexing system (With DD Motor), Compact Design
 Extremely Rigid Body, Yaskawa Direct Drive Motor

Model No.

DM-260

Table Diameter
 TYPE : Direct Drive Motor NC Rotary Table

DM-260



SPECIFICATIONS

Table Dia. [mm]	Ø258
Center Height [mm]	150
Resister Dia. On Face Plate	Ø60H7
Spindle Through Hole Dia. [mm]	Ø35H8
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	10 ⁻⁴
Clamp Torque [N · m]	400
Max. Spindle Speed [mm ⁻¹]	200
Gear Ratio [mm]	1/1
Repeatability Accuracy [sec]	±1.3
Indexing Accuracy [sec]	10
Weight [kg]	84

Allowable load	Horizontal [kg]		70
	Vertical [kg]		35
Allowable cutting load	F [kN]		4000
	F x L [N·m]		-
	F x L [N·m]		400
Allowable Cutting Torque	[N·m]		51

SR-200F4 Rear Mounted Motor 4th axis NC Rotary Table



Application / Benefits

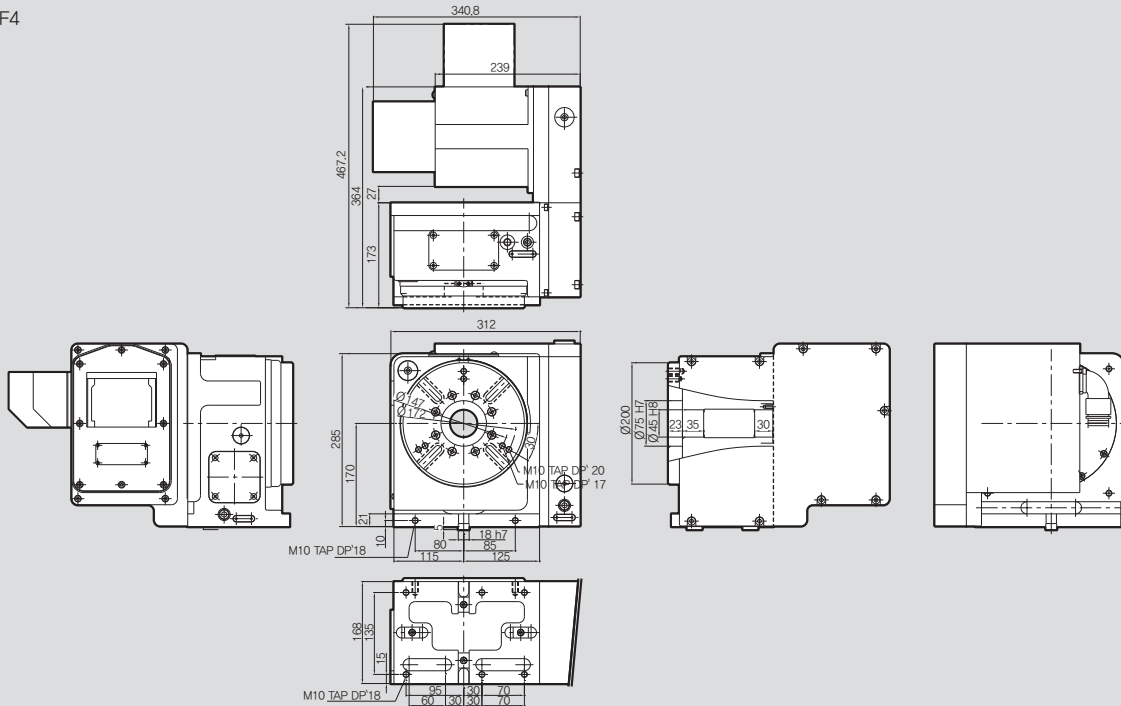
Maximize space with motor mounted on rear, Compact Design
Increased clamping force through double piston technology,
Extremely Rigid Body

Model No.

SR-200F4



SR-200F4



SPECIFICATIONS

Table Dia. [mm]	Ø200
Center Height [mm]	170
Resister Dia. On Face Plate	Ø75H7
Spindle Through Hole Dia. [mm]	Ø45H8
Clamp Method	Pneumatic
Allowable Work Inertia [kgm ²]	0.50
Clamp Torque [N · m]	500
Max. Spindle Speed [mm ⁻¹]	33.3
Gear Ratio [mm]	1/90
Repeatability Accuracy [sec]	4
Indexing Accuracy [sec]	40
Weight [kg]	78
Servo Motor	aiF4 / 4000

Allowable load	Horizontal [kg]		-
	Vertical [kg]		100
Allowable cutting load	F [kN]		17
	F x L [N-m]		1100
	F x L [N-m]		500
	Allowable Cutting Torque [N-m]		310

MUT-600 Manual Turn Table



Application / Benefits

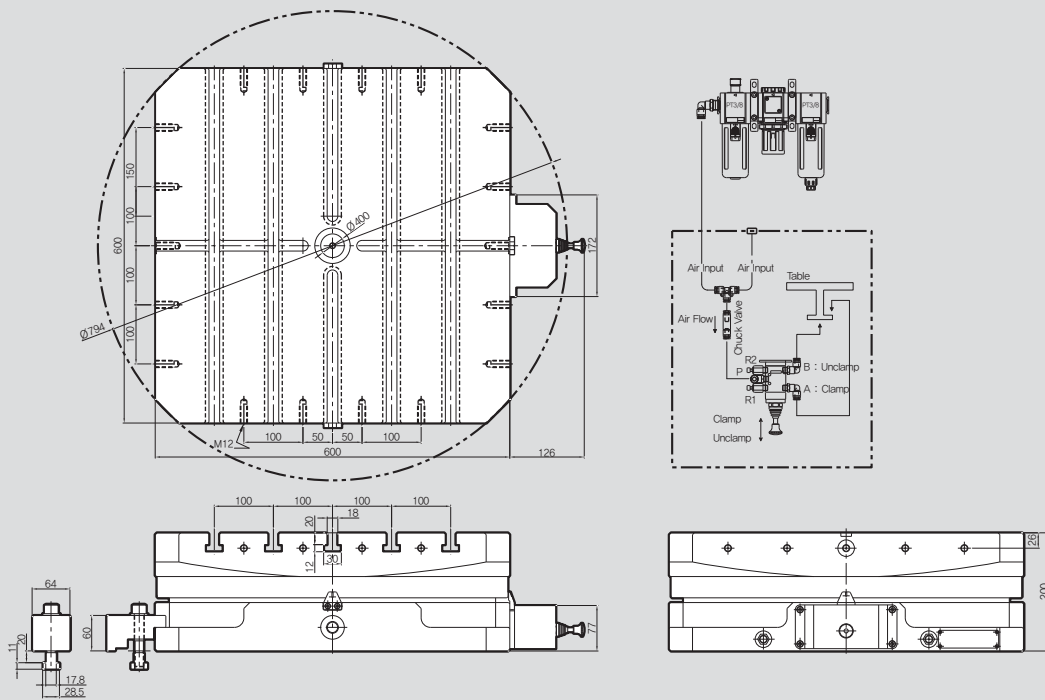
High Accuracy by Special Curvic Coupling
Easy to Heavy cutting and boring, Powerful clampingBody

Model No.

MUT-600

Table Diameter
TYPE : Rear Mounted Motor NC Rotary Table

MUT- 600



NC Rotary Table

SPECIFICATIONS

Table Dia. [mm]	600 x 600
Center-Hole Dia. [mm]	Ø40
Rounded Corners [mm]	Ø794
Height [mm]	200
Driving Method	Pneumatic 7kg/cm ²
Allowable Work Inertia [kgm ²]	90
Clamp Capacity [kgf]	3200
Width of T-slot [mm]	20H7
Indexing Accuracy [sec]	6
Min. Increment [deg.]	1° or 5°

Max. Thrust Load	Axial Force F		3500
	Radial Moment FxL		140
	Tilting Moment FxL		220
Max. Work Load	F x L [N-m]		2000
Weight	F x L [N-m]		400

17,20,25,32TS-AH Tail Stock (Air / Hydraulic Type)



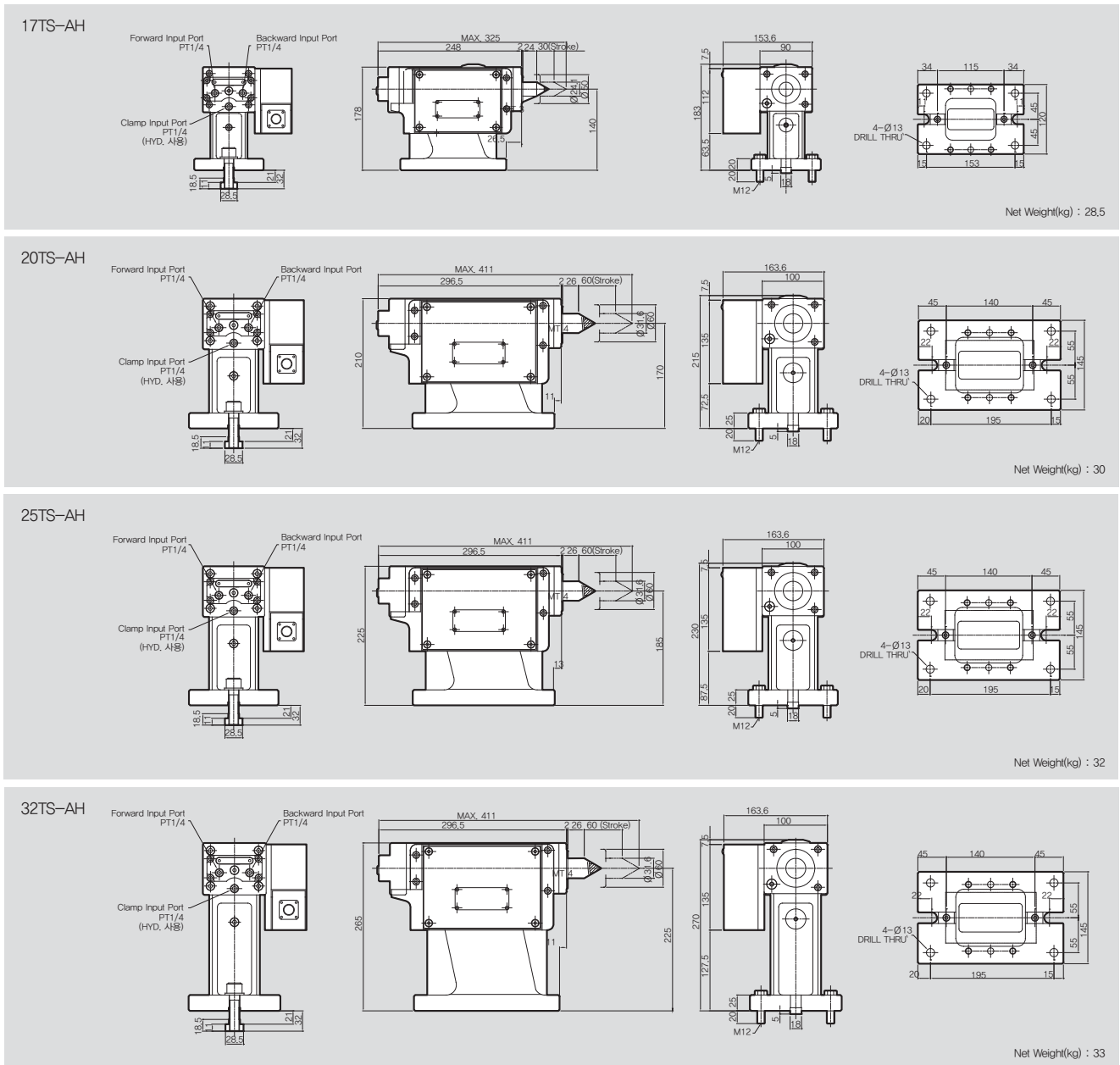
Application / Benefits

For both Hydraulic and Pneumatic operation
Applicable to automation system, Hydraulic Clamp Max. 35bar

Model No.

17 TS-AH

Clamp : Air / Hydraulic
TYPE : TS-Series / Tail Stock
Apply Model / S-170



NC Rotary Table

17,20,25,32SP-A Tail Spindle (Air Clamp Type)



Application / Benefits

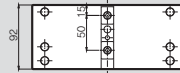
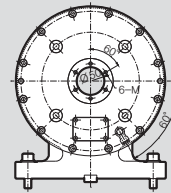
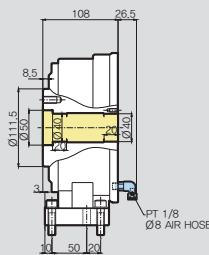
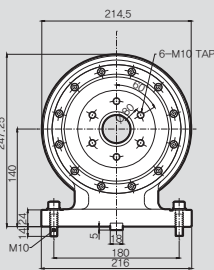
Rotation of Work & Jig with Weight Support, Air Clamp type

Model No.

17 SP-A

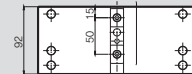
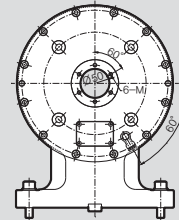
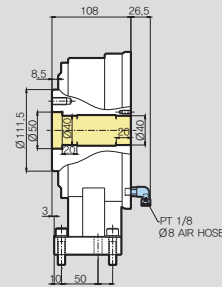
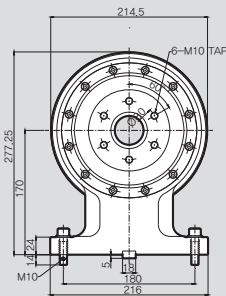
Clamp / Air
TYPE : SP-A Series / Tail Spindle
Apply Model / S-170

17SP-A



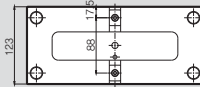
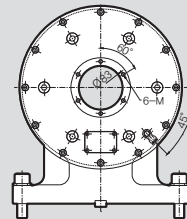
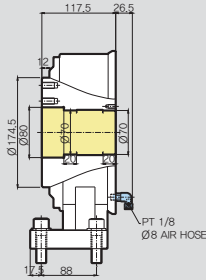
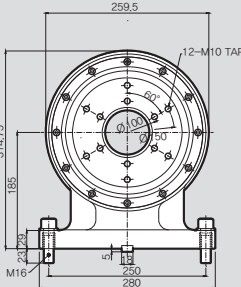
Net Weight(kg) : 26

20SP-A



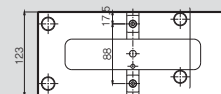
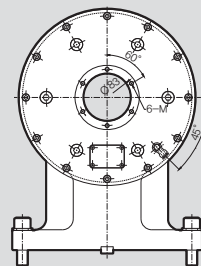
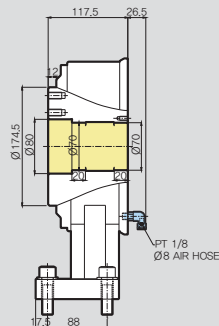
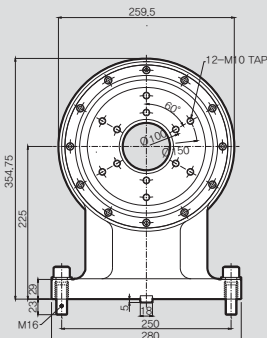
Net Weight(kg) : 33

25SP-A



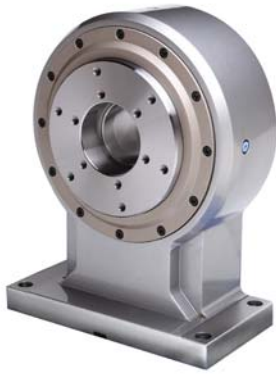
Net Weight(kg) : 60

32SP-A



Net Weight(kg) : 64

20,25,32SP-H Tail Spindle (Hydraulic Clamp Type)



Application / Benefits

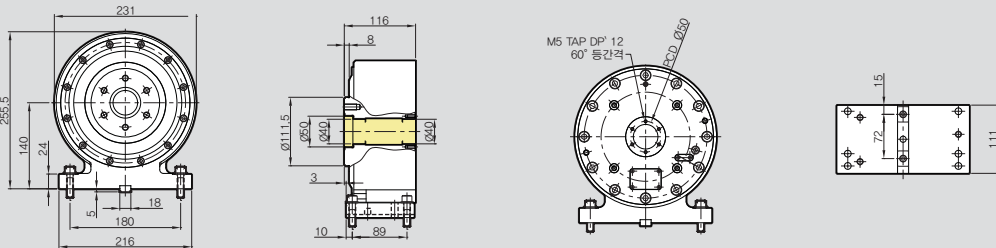
Rotation of Work & Jig with Weight Support, Hydraulic Clamp type

Model No.

17 SP-H

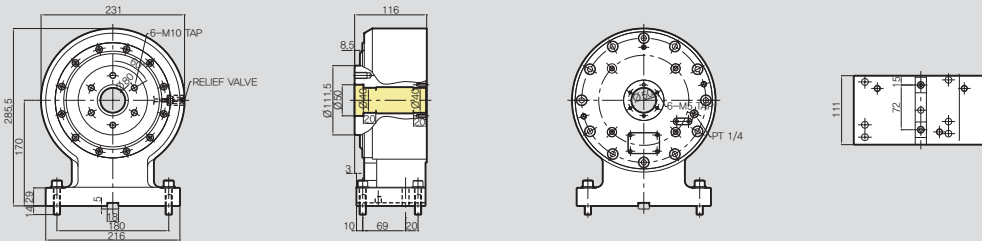
Hydraulic Type
 TYPE : SP-H Series / Tail Spindle
 Apply Model / HRS-174

17SP-H



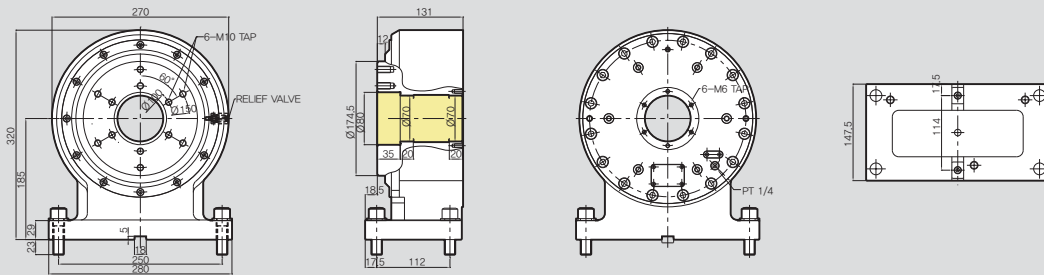
Net Weight(kg) : 28

20SP-H



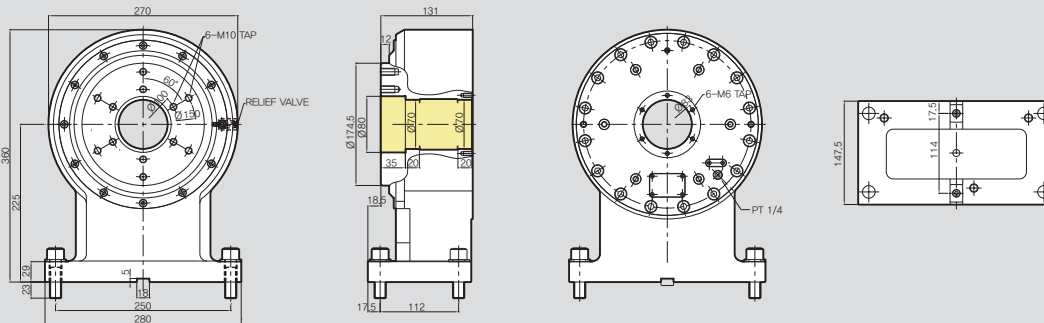
Net Weight(kg) : 35

25SP-H



Net Weight(kg) : 62

32SP-H



Net Weight(kg) : 66

NC Rotary Table

50AH-C Air Booster (Single)



Application / Benefits

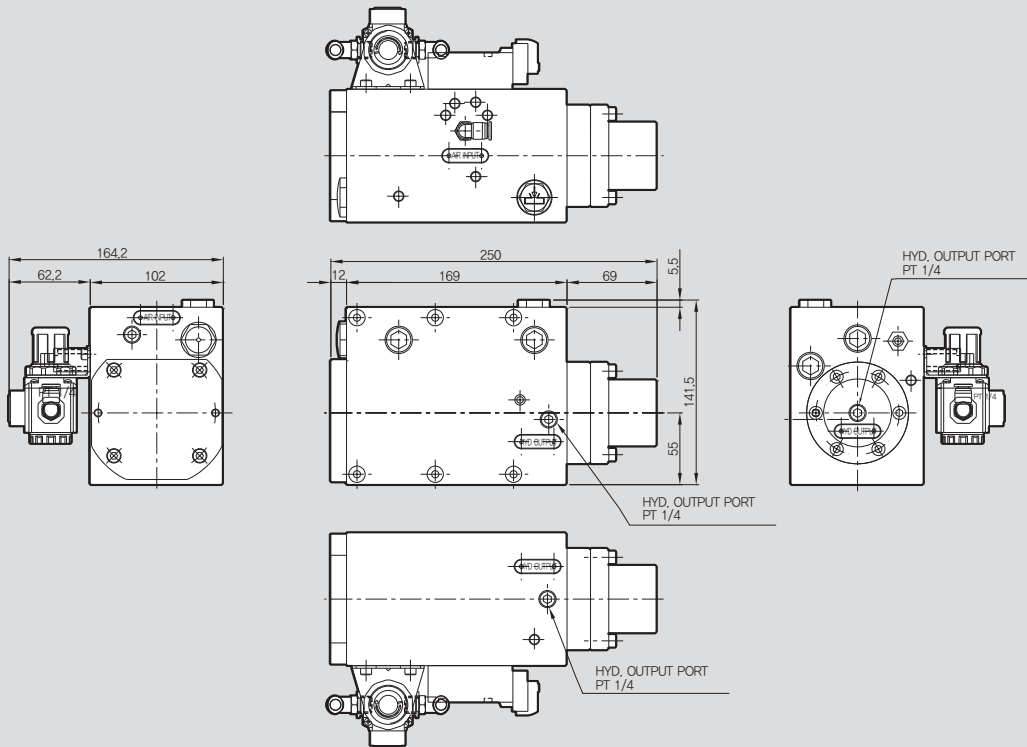
Effects of hydraulic clamp force using pneumatic S series Large Type, HRS series applicable

Model No.

50 AH-C

Operation Type / Single
TYPE : AH -C series / Air Booster
Pressure

50AH-C



SPECIFICATIONS

Input Air Pressure	0.4 ~ 0.45
Output Hydraulic Pressure	3.2 ~ 3.6
Solenoid Voltage	DC 24V
Multiplication Ratio	1 : 8

Recommended Oil	Turbine Oil #32
Discharge Rate	50cc
Weight	7

50AH-T Air Booster (Twin)



Application / Benefits

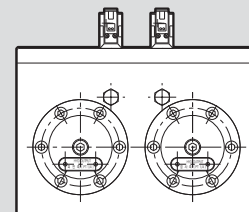
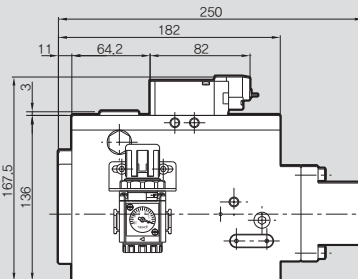
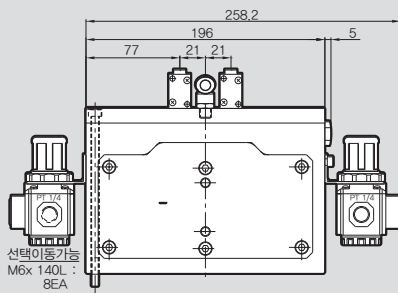
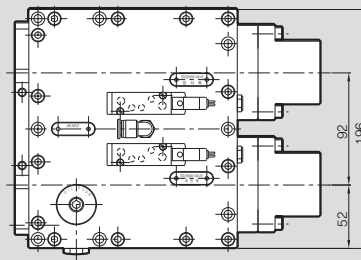
Effects of hydraulic clamp force using pneumatic TR, MTR series Large Type, HRS series applicable

Model No.

50 AH-T



50AH-T



SPECIFICATIONS

Input Air Pressure	0.4 ~ 0.45
Output Hydraulic Pressure	3.2 ~ 3.6
Solenoid Voltage	DC 24V
Multiplication Ratio	1 : 8

Recommended Oil	Turbine Oil #32
Discharge Rate	50cc
Weight	12.5



NeoCon Samchully Controller



Application / Benefits

NeoCon Series : 1 axis, minimal denominational setting: 0.001°
100ch 100,000 Block

Convenient Setting

AUTO MODE(automatic run)

Runs program entered in EDIT mode. Each time the smart signal is entered, one block is run
External M code also runs at this time

EDIT(edit program)

The mode in which the program to be auto run is entered
The data is processed via a PC software
(software is required)

PARAMETER

The mode in which internal parameters are set

SINGLE

Runs similarly to Auto mode but when 1 BLKFIN is output, G99Fin does not output

MANUAL

Manual operation – home position, machining zero position
Hand pulse generator is also operated in this mode

Convenient Operation

- Key arrangement is conveniently similar to a CNC machine
- A variety of parameters offered for the everyday user
- various modes and editorial functions

Interface

- may be used as an standalone unit
- suitable for dedicated machines
- compatible with tapping and machining centers

Various Features

- 4.8" full color TFT LCD screen
- sleep mode
- programmable via USB and MPG
- maximum of programmable 100,000 blocks
- 100 channels with 1000 blocks per channel

NeoCon Samchully Controller



NeoCon Samchully Controller

Specifications and Functions

Specifications	Descriptions
Controlled axes	1 axis
Program Capacity	Back up the External SD card (Parameter, Work Program)
Servo Motor Specification	AC servo motor with absolute encoder
Setting Unit	0,001°
Max. setting angle	999 Rotation + 360° (±999,999°)
Programmable capacity	100,000 Block (100 channels, Each Channel 1,000 Block)
Command Method	ABSOLUTE /INCREMENTAL methods (Choice between G90/G91)
Zero position return	Zero and zero point return
Manual Feed	Rapid traverse, slow speed feed and step feed, STEP traverse, MPG traverse
Emergency Stop	Emergency stop button or forced servo stop by external interlock input and master stop
Halt	Halt of rotary table by key input or external SP input
Feedrate override	Settable 1 to 100% (can be notched 1 to 100%)
Preparatory function	DWELL, LEAD CUTTING, BUFFER FUNCTION, CLAMP PRESENCE, DEVIATION CHECK FUNCTION, INTERLOCK START, CONTINUOUS START, MZRN, WZRN, REPEATING FUNCTION, LOOP JUMP FUNCTION, ABSOLUTE/INCREMENTAL, FIN SIGNAL CONTROL COMMAND
Jump to subprogram	Jump to subprogram
Software limit function	Software can be set from machine zero position to prevent interference with the machine by mounting jigs or workpiece
Over travel stop function	Hard limit mode can control the rotary range of rotary table
Pitch error compensation	Pitch error can be compensated per 15° (min. set unit: 0,001°)
Backlash	Backlash compensation is adjustable
Alarm function	When error is detected, alarm number and alarm message are automatically displayed
Self-Diagnosis Function	Machine coordinate, work coordinate (command value, encoder value), remained movement, I/O signal state, position deviation, current %, encoder electric angle
Input Power	Single Phase AC200/230V ±10% 50/60Hz, 3 Phase AC220/230V ±10% 50/60Hz
Apparent Power	1.0 KVA
Net Weight	7.5 kg
Environment	Controller Temperature: 0–45°C Storage Temperature: –10°C~60°C C Humidity: below 85% RH Internal Vibration: 0.5 Internal Impact: Below 1G
Display	4.8 " TFT LCD
Optional Port	RS232C cable, MPG Handle, USB AM Cable (external equipment can I/O program, parameters, etc.)
External Input Signal	START, STOP, external EMG STOP, external channel selection
External Output Signal	Block completed, 360° comp., optional completed signal, MZRN completed, EMG STOP output signal, alarm output signal

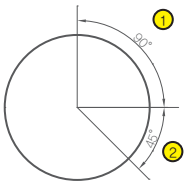
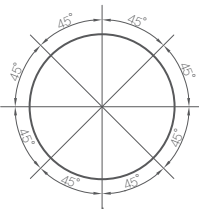
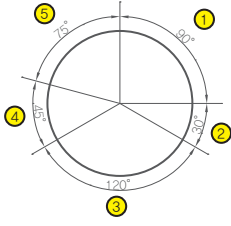
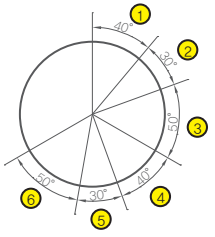
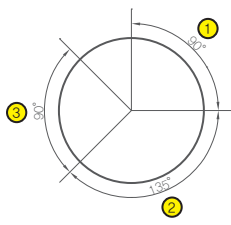
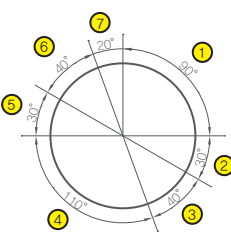
G Code Function

G Code	Function	Description
None	Rotation	Only calculation command is available.
G04	speed command	No movement, wait for time.
G07	Dwell	Rotate the table by multiple turns.
G08	Lead cut	Executes program block continuously, until the following G09 command.
G09	Continuous buffer	Cancel the continuous beffer of G08, return to the ordinary single block run.
G10	Continuous buffer cancel	Set the clamp device at table stop to unused, which is effective until the next G11 command.
G11	Clamp unused	Cancel the clamp device of G10 unused state, and apply clamp at table stop.
G15	Emphasizes the interlink	Emphasis the interlink by checking the deviation in the positions of the program blocks when the continuous buffer is effective (G08). The checking of deviation in position is effective until the next G16 command.
G16	Position check deviation invalid	Cancel the effectiveness of the position deviation check function. Do not check the deviation in the positions of the programs.
G21	Interlink start	This function outputs block finish signal prior to motion in program running, which is used for the interlinked operation with the machine, etc.
G22	Continuos start	If G22 is commanded, the table rotates continuously until the next start input.
G23	Machine start point return	Position at the machine origin point of the table.
G24	Process start point return	Position at the origin of the process coordinate system of the table.
G25	Escape loop	Run the program inloop until the process start point is reached. When reached, escape from the loop and execute the next block.
G27	Repetition	Repeat execution of the program by specified number of times, from the designated block to the block.
G90	Absolute	Execute positioning in the absolute coordinates of the process coordinate system.
G91	Incremental	Execute positioning in the relative coordinates.
G92	Process coordinate system setting	Process start point can be set up as desired in the program.
G97	No block finished	Do not output the block finish (BLKFIN).
G98	Block arbitrary finish output	In the program execution, too, provide block finish (BLKFIN) and arbitrary finish (G99 FIN) output.
G99	Arbitrary finish output	Output the arbitrary finish (G99FIN) only, not block finish .

Address Function

Address	Description	Setting Unit	Setting Range	Remark
G		*Refer to the G Code function section.		
A	Rotation angle command	Degree	± 999.999	
	Dwel time command	Sec	0.01~999.99	
F	Rotation speed command	0.01min ⁻¹	0~5000	1/60 (differ as Gear Ratio)
J	Jump command	Block No.	0~99	Jump prior to the command block
	Subroutine command	Block No.	0~99	Jump prior to the command block
	Return command	Return No.	-1	End of 1 turn subroutine
D	Partition command	No.of partitions	0~999	
S	Beginning block NO. command of repetition function (G27)	Block No.	1~999	
E	End block NO. command of repetition function (G27)	Block No.	1~999	
R	Frequency of repetition function (G27) command	No. of repetitions	1~99	
	G99 command of interlinked start function(G21)	G99 command No.	99	G99 command is executed in the same block as the G21 command.

Program

항목	내용	구동방법	화면
Angle Index	90° rotation 45° rotation and N000 movement		<p>① N000 G91 <u>A90</u> <u>F1000</u> Angle Rotation speed</p> <p>② N001 G91 <u>A45</u> <u>F1000</u> <u>J00</u> Jump function</p>
Equipartition	360° angle with 8 partitions and N000 movement		N000 G91 <u>A360</u> <u>F1000</u> <u>D8</u> <u>J00</u> Angle Partition
Unequal Partition	90° rotation 30° rotation 120° rotation 45° rotation 75° rotation, change to rpm 2000 and N000		<p>① N000 G91 <u>A90</u> <u>F1500</u></p> <p>② N001 G91 <u>A30</u> <u>F1500</u></p> <p>③ N002 G91 <u>A120</u> <u>F2000</u></p> <p>④ N003 G91 <u>A45</u> <u>F2000</u></p> <p>⑤ N004 G91 <u>A75</u> <u>F2000</u> <u>J00</u> Rotation speed</p>
Repetition	N004 ~ N006 2 cycles 40° rotation, 30° rotation, 50° rotation (1 time/cycle) 40° rotation, 30° rotation, 50° rotation (2 times/cycles)		<p>N000 <u>G27</u> <u>S4</u> <u>E6</u> <u>R2</u> Repetition Start End Cycle command</p> <p>① ④ N004 G91 <u>A40</u> <u>F2000</u></p> <p>② ⑤ N005 G91 <u>A30</u> <u>F2000</u></p> <p>③ ⑥ N006 G91 <u>A50</u> <u>F2000</u></p>
Absolute / Incremental	90° rotation from absolute coordinates 225° rotation from absolute coordinates 90° rotation from opposite coordinate		<p>① N000 <u>G90</u> <u>A90</u> <u>F1000</u> Absolute Angle</p> <p>② N001 <u>G90</u> <u>A225</u> <u>F1000</u></p> <p>③ N002 <u>G91</u> <u>A90</u> <u>F1000</u> Incremental Angle</p>
Subprogram	90° rotation, N010 movement 30° rotation from opposite coordinate 40° rotation and return N001 movement 270° rotation from absolute coordinate and N010 movement 30° rotation from opposite coordinate 40° rotation and return (N002 movement) 20° rotation and N000 movement		<p>① N000 <u>A90</u> <u>F1000</u> <u>J10</u> Angle Jump</p> <p>④ N001 <u>G90</u> <u>A270</u> <u>J10</u> Absolute Jump</p> <p>⑦ N002 <u>A20</u> <u>J00</u> Angle</p> <p>② ⑤ N010 G91 <u>A30</u></p> <p>③ ⑥ N011 <u>A40</u> <u>J-1</u> Return Function</p>

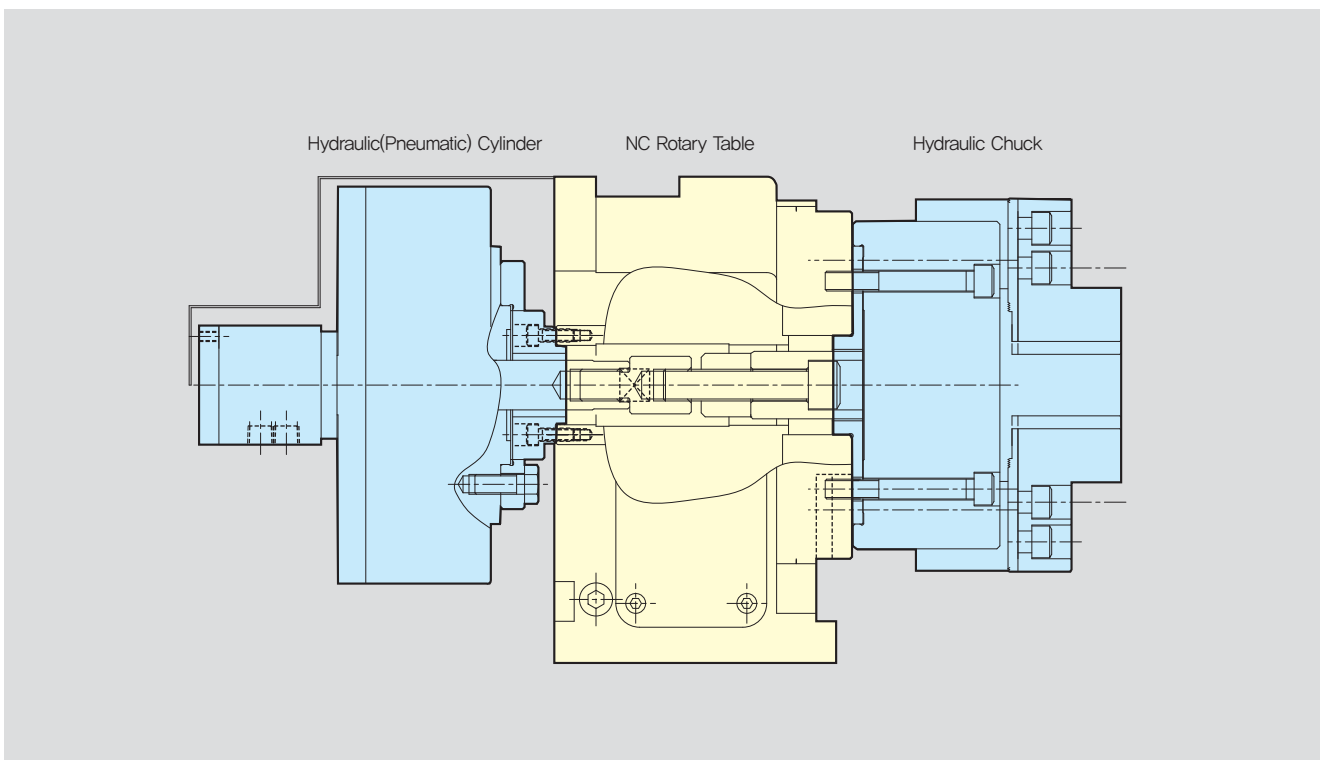
Application

Hydraulic Chuck & Hydraulic (Pneumatic) Cylinder



Application / Benefits

Maximize space with motor mounted on rear, Compact Design
 Increased clamping force through double piston technology,
 Extremely Rigid Body



NC Rotary Table

	S-170		S-200		S-250		S-320	
Hydraulic Chuck	HC-05	HC-05	HC-05	HC-05	HC-05	HC-05	HC-05	HC-05
Grip Dia	16~135	16~135	16~135	16~135	16~135	16~135	16~135	16~135
Hydraulic Cylinder	Y-0715(R)RE	Y-1020(R)RE	Y-1020(R)RE	Y-1225(R)RE	Y-1225(R)RE	Y-1225(R)RE	Y-1225(R)RE	Y-1530(R)RE
Air Cylinder	AY-1315R	AY-1720R	AY-1720R	AY-2225R	AY-2225R	AY-2225R	AY-2225R	AY-2730R

Application Technical Information

NC Rotary Table

Works with the CNC Controller to allow operation in multiple axes. A rigid clamping brake allows for high cutting force with high precision required for piece work or mass production.

A. Controller type (NeoCon-TYPE)

- Rotational accuracy ensures precise segment and angular accuracy with minimal backlash
- External signal (M Code) controls operation.
- Simple attachment, fast installation, minimal cost.
- Available with G code option.

B. Multi Axes type (4th Axis-type)

- Thread cutting, contour cutting, CAM, helical operation
- Power and precision with multi axes machining.
- Operates with both rotary table controls and the CNC controller.

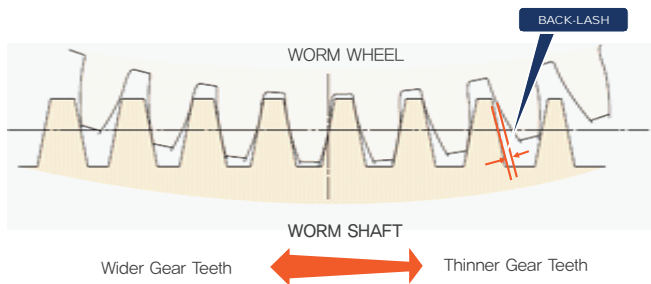
Gear Ratio

$$\text{Rotary Table Spindle Speed} = \frac{\text{Motor Spindle Rotation speed}}{\text{Gear Ratio}}$$

$$\text{NT-170 Spindle Speed} = \frac{3000}{72} = 41.6 \text{ RPM}$$

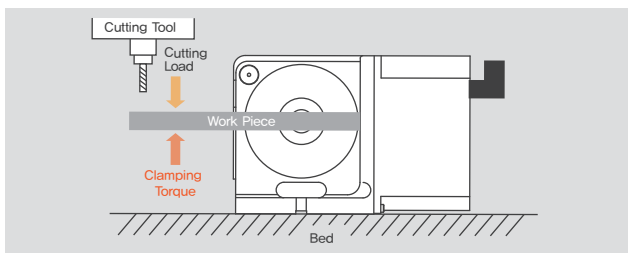
The calculation of the RPM : This is done by calculating the rotation of the motor and the table.

DUAL – LEAD WORM GEAR



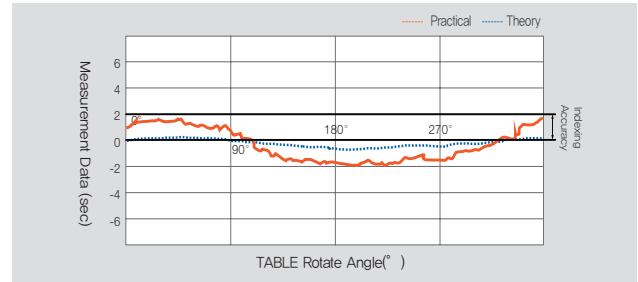
The adjustable worm gear allows the operator to remove backlash as the worm wheel and worm shaft wear.

Cutting torque limit (N.m)



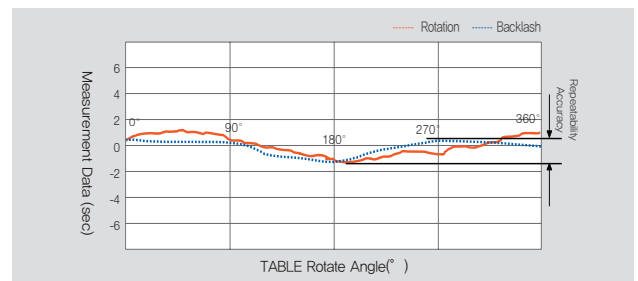
Failure to limit the cutting torque can damage the worm wheel and worm shaft.

Indexing Accuracy



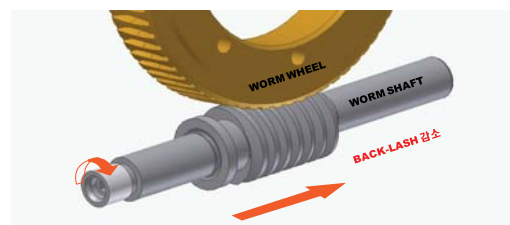
The variance between the worm wheel and worm shaft when rotated a full 360°

Repeatability Accuracy



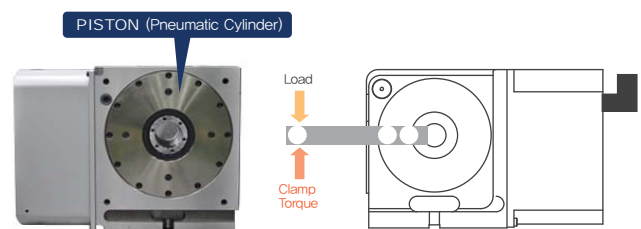
Accuracy variance when operated in both directions.

BACK-LASH



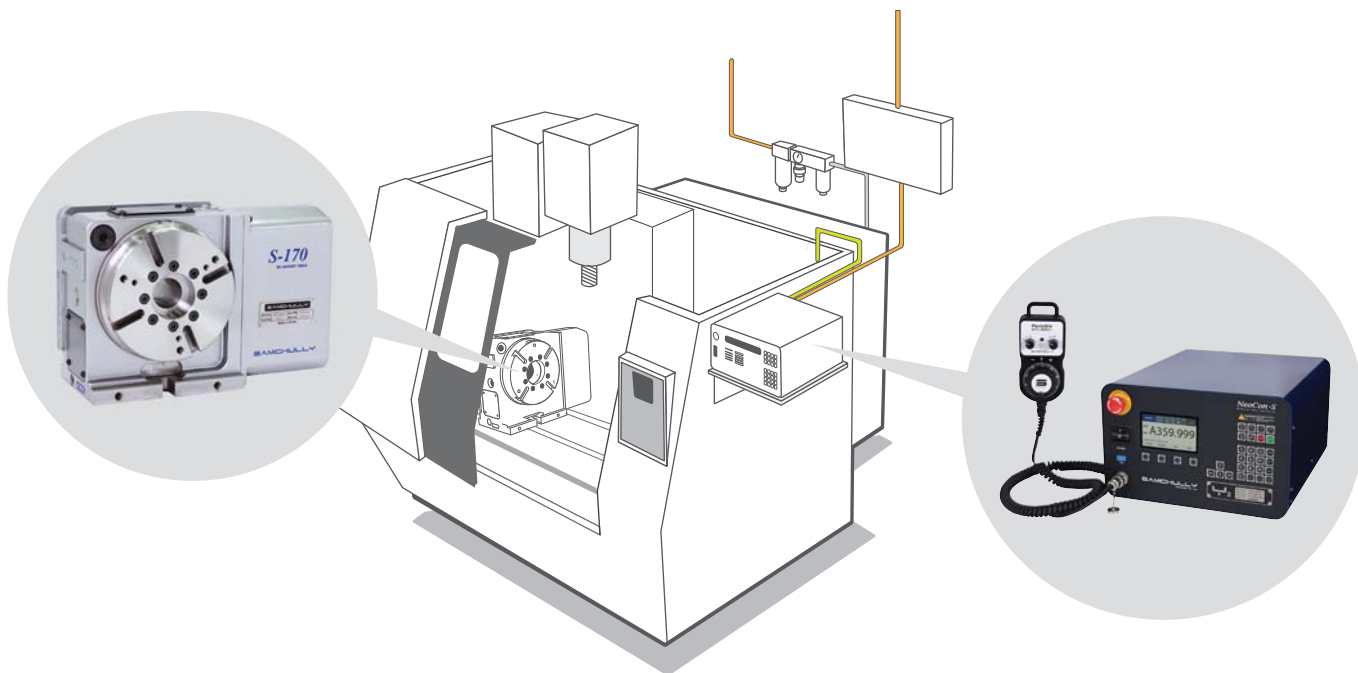
Endurable power of worm gear from cutting load. cutting load > permitted cutting torque could get error due to gear or motor of overload

Clamp Torque (N.m)



Clamping the brake disc with air pressure

Application NC Rotary Table installation



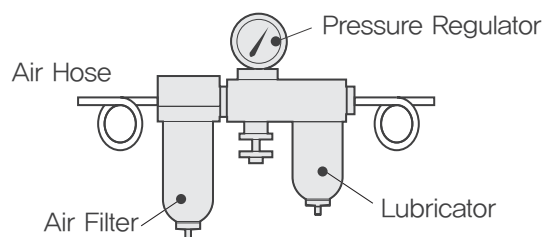
Air Supply Installaton

Air clamp system is located inside of the NC Rotary Table. Air filter regulation is needed to use the clamp functions. This is an option to the standard supply.

Parts Required:

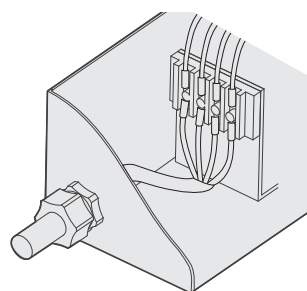
Air filter & regulator

Air hose



Controller Type

The Samchully NeoCon controller is ideal for simple machining that requires basic indexing application. The controller is simple to install and economical.



4th Axis Type

The 4th axes option allows for contour / helical cutting. The rotary table connects directly with the controller for optimal manufacturing flexibility. The Samchully rotary table is compatible with Fanuc, Siemens, Mitsubishi, Panasonic, Yaskawa, Heidenhain, LS mecapian, Sanyo, Fagor, and Okma controllers.

