



NC ROTARY
TABLE

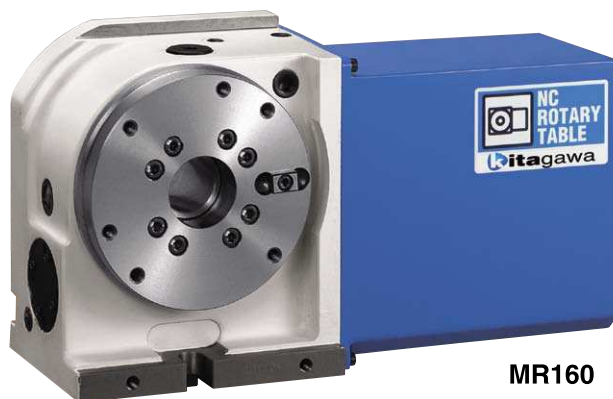
NC Rotary Table

MR series

MR120·MR160·MR200

Industry standard compact rotary table

- Minimum size in its class
 - Pneumatic spec
 - Powerful pneumatic clamping torque by triple disk brake system
 - High speed rotation
 - High accuracy
 - Rotary Joint built in as option
 - Ideal for compact machining centres
- * CE correspondence



MR160



MR160R (L) V
(With Kitagawa own controller)



MR160R (L) V
(Rotary Joint built in as option)

Sample Application



▲ Various trunnion systems available.
(See P.95).



▲ Table with T-slot can also be offered.



▲ Only Kitagawa can offer this combination of NC Rotary Table and chuck

4th axis specifications

MR 160 L A * * *

Type Table Size
120・160・200

Design No.
Motor type
Clamping method
Only Pneumatic

Right/left hands
R: Right hand
L: Left hand

M signal specification

MR 160 R A V * *

Type Table Size
120・160・200

Design No.
Quinte specification
Clamping method
Pneumatic

R : Right hand
L : Left hand

Specifications

Model		MR120	MR160	MR200
Right hand		○	○	○
Left hand		○	○	○
Table dia (mm)		φ 128	φ 165	φ 202
Register diameter on Face Plate (mm)		φ 50H7	φ 50H7	φ 65H7
Spindle through hole diameter (mm)		φ 32	φ 40	φ 45
Centre Height (mm)		120	140	140
Clamping method		Pneumatic	Pneumatic	Pneumatic
Clamping torque (N・m) (In pneumatic 0.5MPa)		150	310	350
Motor axis reduced inertia (kg・m ²)		0.00004	0.00008	0.00017
Servomotor (for FANUC specification)		α iF 2/5000	α iF 2/5000	α iF 4/5000
Gear ratio		1/60	1/72	1/90
Max. spindle speed	FANUC specification (for min ⁻¹ /motor3000min ⁻¹)	50	41.6	33.3
	M signal specification (for min ⁻¹ /motor3000min ⁻¹)	50	41.6	33.3
Allowable work inertia (kg・m ²)		0.22	0.51	1.00
Indexing accuracy (sec)		20	20	20
Repeatability (sec)		4	4	4
Mass of product (kg)		33	41	61
Manual Tailstock (as an option・P89 reference)		MR120RN	MR160RN	MR200RN
Tail Spindle (as an option・P93 reference)		TSR121A	MSR142A	MSR142A
Rotary Joint (as an option・P97 reference)		RJ32-12Q04	RJ40H16Q	RJ40H20Q02
Allowable Load	Horizontal (kg)	120	160	200
	Vertical (kg)	60	80	100
Allowable load (When clamped to table)	F (kN)	8	10	17
	F×L (N・m)	350	600	1100
	F×L (N・m)	150	310	350
Allowable cutting torque	T (N・m)	180	220	270

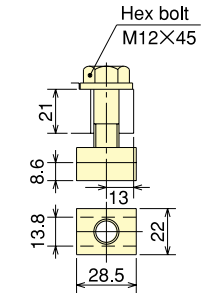
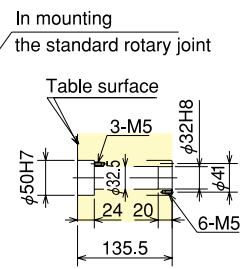
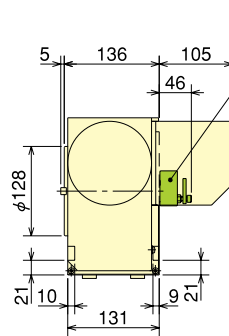
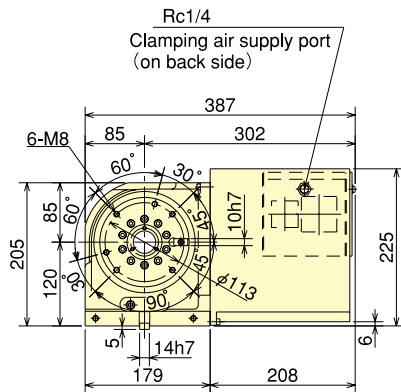
Note) 1. The switch for pressure checking is incorporated to all series except TC/DM of NC tables. 2. The solenoid valve for the table clamp is incorporated. 3. Neither cable nor hose is fitted between NC rotary table and machine tool... 4. In the port part on the table surface jig side of a rotary joint, MR120 or 200 is fixed to the rotary table side and MR160 to jig side. 5. Because a mounting pitch varies with the machines, refer to the pitch of the table spindle size drawing on P93. 6. Each product mass is determined by a Kitagawa M signal spec.



MR series MR120•MR160•MR200

■Dimensions [4th axis specifications]

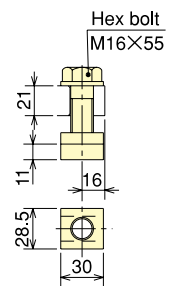
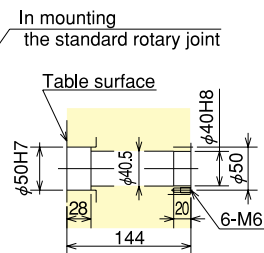
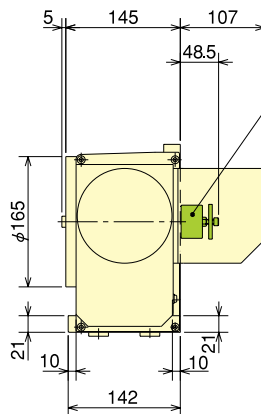
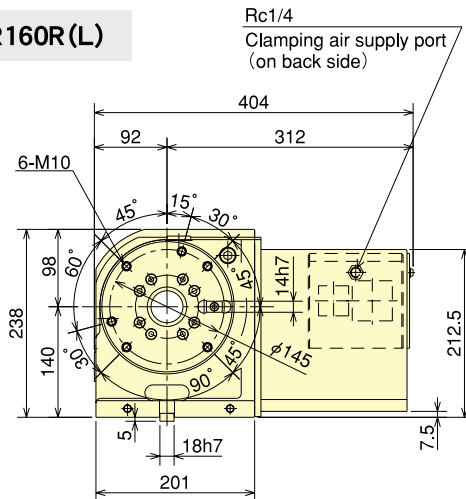
MR120R(L)



Thru-Hole Diameter

Clamping Device

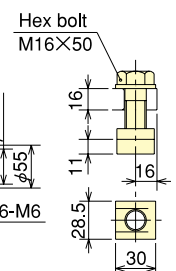
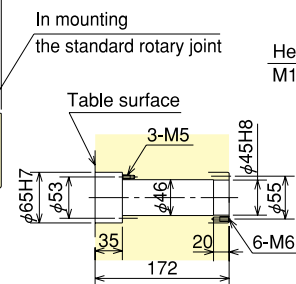
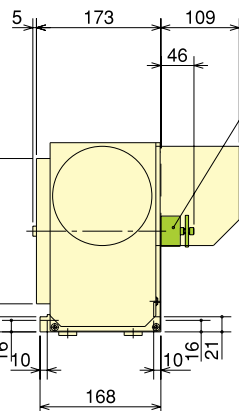
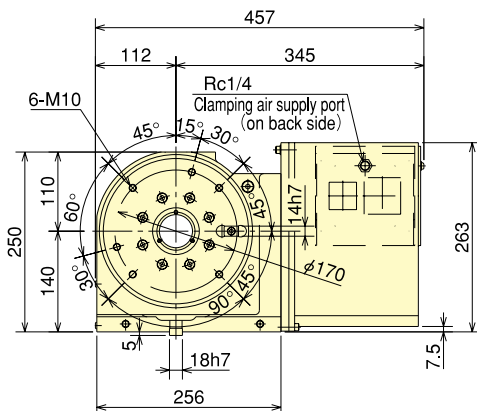
MR160R(L)



Thru-Hole Diameter

Clamping Device

MR200R(L)



Thru-Hole Diameter

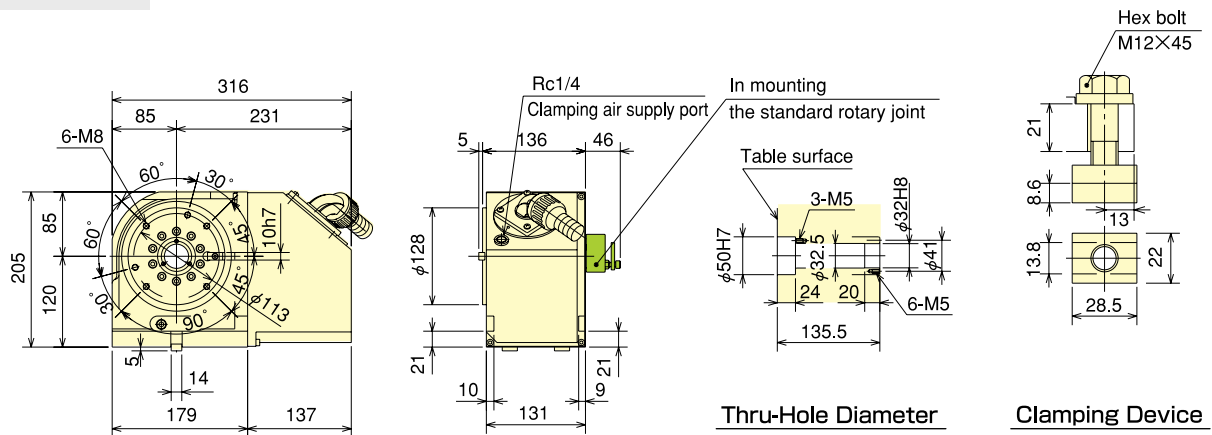
Clamping Device

※The above dimensions are the same as FANUC specifications.
Those dimensions may vary from motor to motor that is mounted.
R is a right hand spec, and L is a left hand spec.

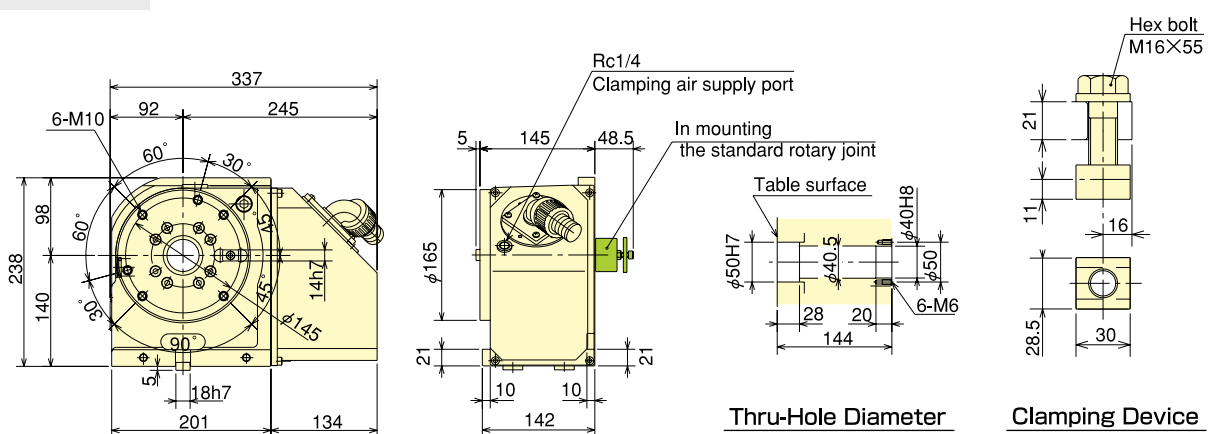
Dimensions [Kitagawa own controller]

*The dimensions may vary from motor to motor that is mounted.

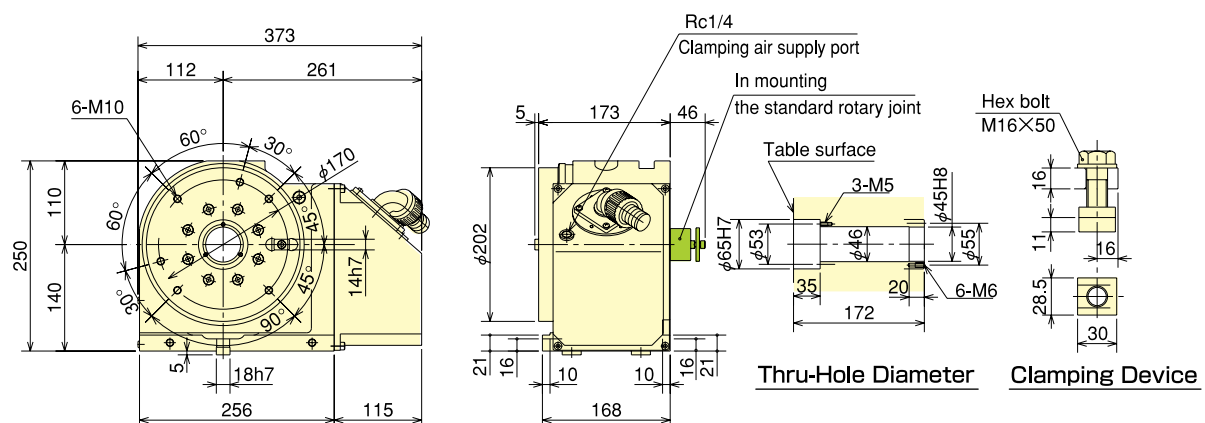
MR120R(L)



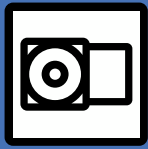
MR160R(L)



MR200R(L)



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NC ROTARY
TABLE

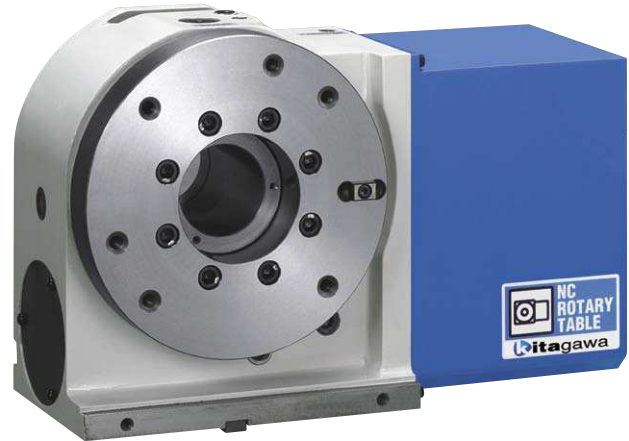
NC Rotary Table

MR series

MR250·MR320

Industry standard compact rotary table

- Compact design
 - Pneumatic spec
 - Powerful pneumatic clamping torque by triple disk brake system
 - High speed rotation
 - High accuracy
 - Rotary Joint built in as option
 - Ideal for compact machining centres
- * CE correspondence

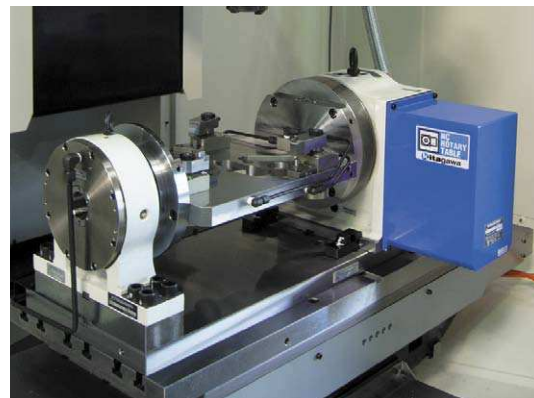


MR250



MRM250
(With Kitagawa own controller)

Sample Application



▲ Specialist trunnion systems allow for multi surface or simultaneous machining.

4th axis specifications

MR	250	L	A	*	*	*
Type	Table Size 250·320	Right/left hands R: Right hand L: Left hand		Design No.	Motor type	Clamping method Only Pneumatic

M signal specification

MR	250	R	A	V	*	*
Type	Table Size 250·320	R : Right hand L : Left hand		Design No.	Quinte specification	Clamping method Pneumatic

Specifications

Model		MR250	MR320
Right hand		○	○
Left hand		○	○
Table dia (mm)		φ 250	φ 320
Register diameter on Face Plate (mm)		φ 100H7	φ 130H7
Spindle through hole diameter (mm)		φ 70	φ 105
Centre Height (mm)		180	225
Clamping method		Pneumatic	Pneumatic
Clamping torque (N·m) (In pneumatic 0.5MPa)		600	1200
Motor axis reduced inertia (kg·m ²)		0.00031	0.00031
Servomotor (for FANUC specification)		α iF 4/5000	α iF 8/3000
Gear ratio		1/90	1/120
Max. spinde speed	FANUC specification (for min ⁻¹ /motor3000min ⁻¹)	33.3	25
	M signal specification	33.3 (3000min ⁻¹)	16.6 (2000min ⁻¹)
Allowable work inertia (kg·m ²)		1.95	4.49
Indexing accuracy (sec)		20	20
Repeatability (sec)		4	4
Mass of product (kg)		85	135
Manual Tailstock (as an option · P89 reference)		MR250RN	MR320RN
Tail Spindle (as an option · P93 reference)		TSR181A	TSR181A-45
Rotary Joint (as an option · P97 reference)		RJ70H25Q02	RJ70H32Q01
		Hydraulic/Pneumatic6-port	Hydraulic/Pneumatic6-port
Allowable Load	Horizontal (kg)	250	350
	Vertical (kg)	125	180
Allowable load (When clamped to table)	F (kN)	21	25
	F×L (N·m)	1600	2400
	F×L (N·m)	600	1200
Allowable cutting torque	T (N·m)	480	800

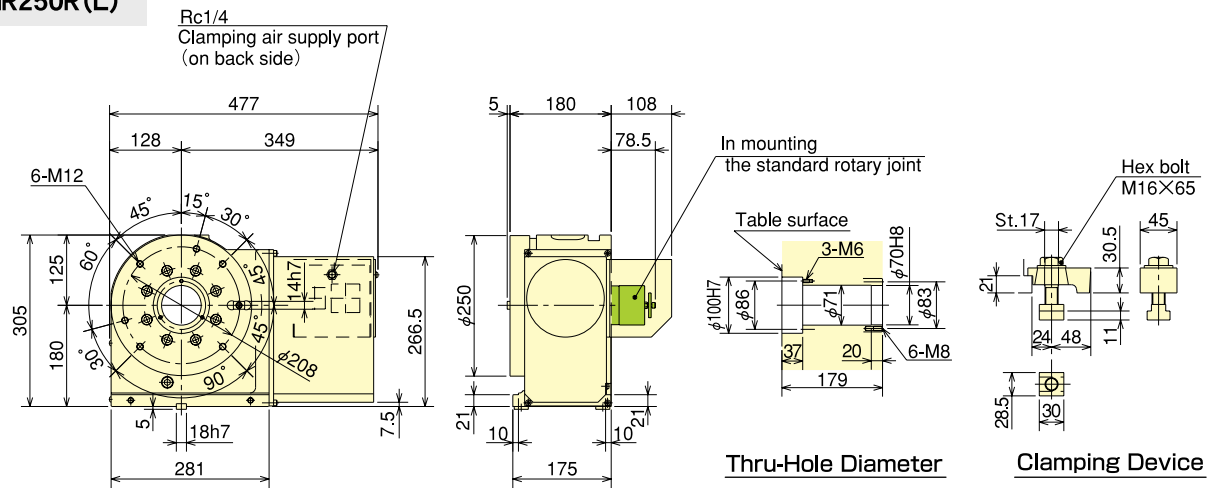
Note) 1. The switch for pressure checking is incorporated to all series except TC/DM of NC tables. 2. The solenoid valve for the table clamp is incorporated. 3. Neither cable nor hose is fitted between NC rotary table and machine tool... 4. In the port part on the table surface jig side of a rotary joint, MR120 or 320 is fixed to the rotary table side. 5. Because a mounting pitch varies with the machines, refer to the pitch of the table spindle size drawing on P93. 6. Each product mass is determined by a Kitagawa M signal spec.



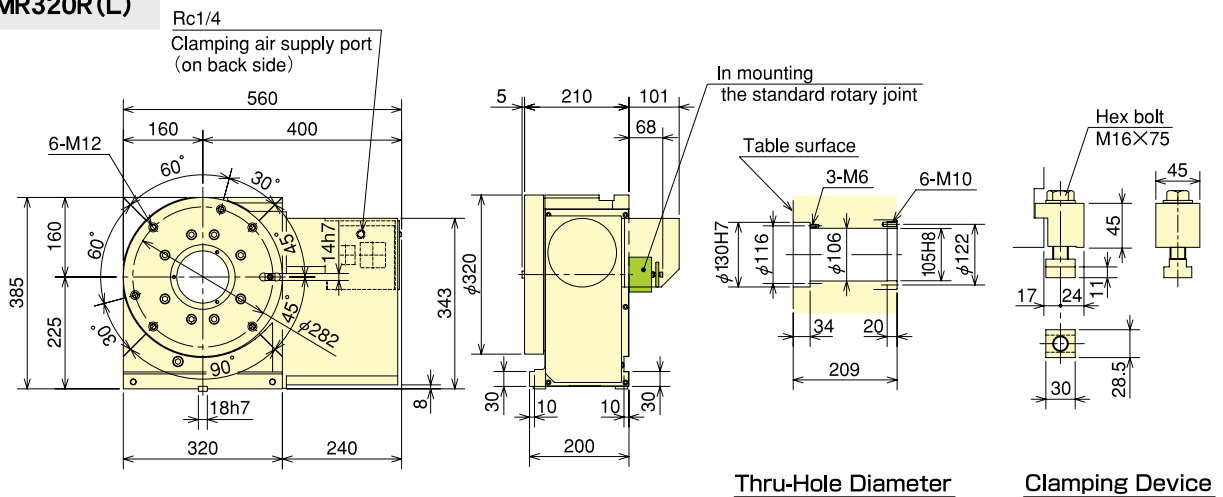
MR series MR250・MR320

■Dimensions [4th axis specifications]

MR250R(L)



MR320R(L)

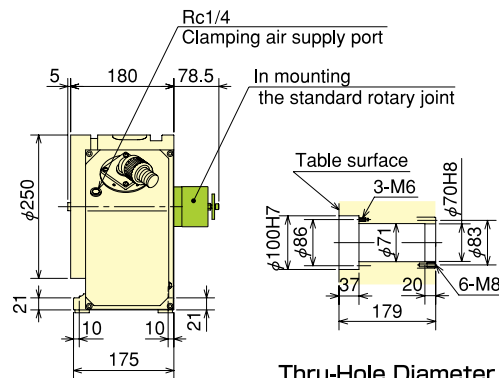


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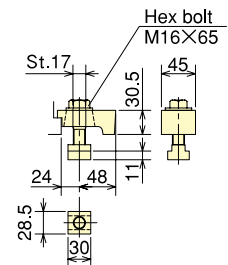
*The dimensions may vary from motor to motor that is mounted.

Technical drawing of a circular mechanical part (likely a flange or end plate) with the following dimensions and features:

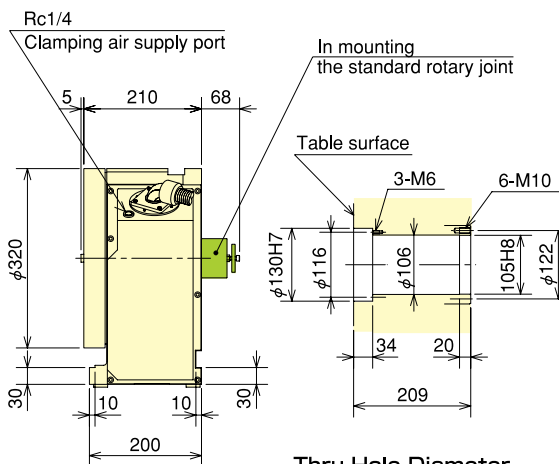
- Overall Dimensions:**
 - Outer Diameter: 400
 - Inner Diameter: 272
 - Overall Height: 305
 - Flange Thickness: 18
 - Mounting Flange Width: 116
- Mounting Features:**
 - 6-M12 mounting holes (6 holes, M12 thread).
 - 18h7 mounting holes (18 holes, h7 tolerance).
 - 14h7 mounting holes (14 holes, h7 tolerance).
- Angles and Radii:**
 - 60° (multiple locations)
 - 30°
 - 45°
 - 90°
 - R208 (fillet radius)
- Other Features:**
 - Central hole with diameter 18h7.
 - Central hole with diameter 5.
 - Central hole with diameter 18h7.



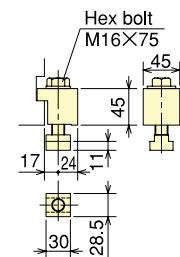
Thru-Hole Diameter



Clamping Device



Thru-Hole Diameter



Clamping Device

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