

Mechanical feed/electronically controlled drilling unit

SELFEEDER MECHATRIC

MS7M

High output model with spindle motor output of 3.7kW and thrust of 7,800N.

Drilling of up to  $\phi 28$ , facing, end milling, etc. can be performed on steel materials.

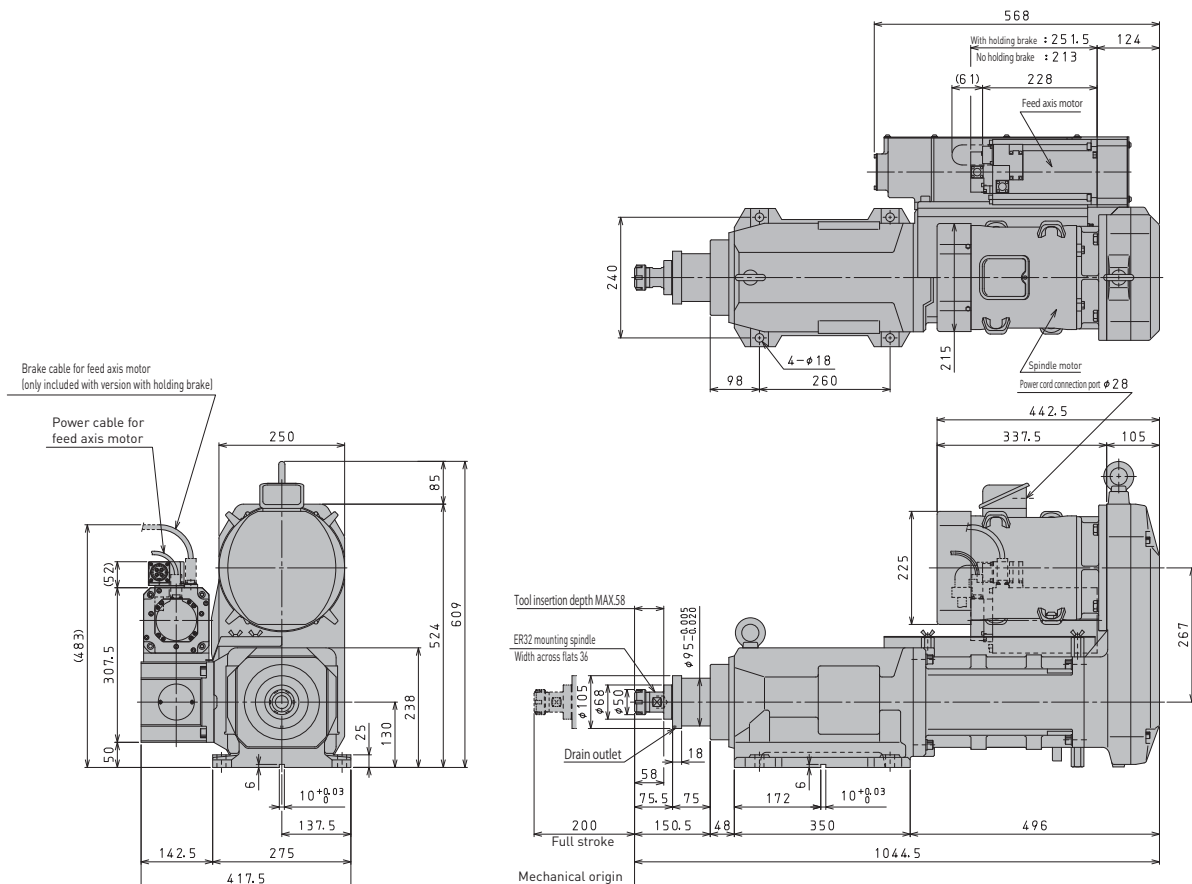


Specifications

Model	No-load rotation speed		Spindle tip shape (collet chuck)	Chucking capacity	Maximum drilling capacity			Stroke	Spindle motor	Feed axis motor	Thrust	Rapid traverse speed	Weight
	50Hz	60Hz			Aluminum (ADC12)	Cast iron (FC200)	Steel (S45C)						
	min <sup>-1</sup>				mm	mm	mm						
MS7M-3229	2,900	3,500	ER32	1.0~20	11	4	3	200	3.7 4P Induction motor	3.3 AC servo motor	7,800	Max. 298	270
MS7M-3222	2,200	2,700			13	5	4						
MS7M-3215	1,500	1,800			17	7	6						
MS7M-3210	1,000	1,200			20	14	12		2.2 6P Induction motor				
MS7M-3206	650	800			25	19	16						
MS7M-3205	500	600			31	24	21						
MS7M-3203	340	410			40	32	28						

- Notes 1. Select the model based on the workpiece shape, material, machinability, tool diameter and material, rotation speed (cutting speed), etc.  
 2. The drilling capacity shown in the table above is based on a drilling depth that is twice the drill diameter.  
 3. For servo motor specifications with a holding brake, add "B" to the end of the model code.  
 4. Up to 15 programs with different machining patterns can be registered.

Dimensions (mm)



## Diagram

### SELFEEDER

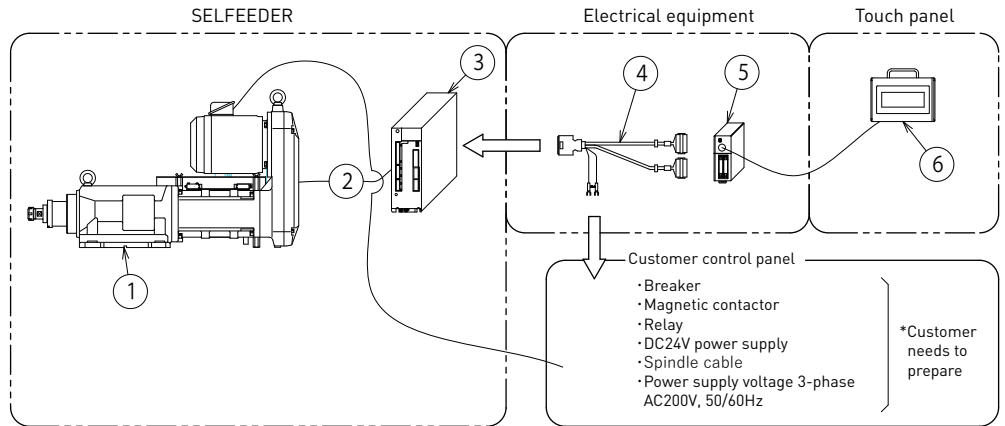
1. SELFEEDER
2. Feed axis cable(5m)
3. Feed axis servo amplifier

### Electrical equipment

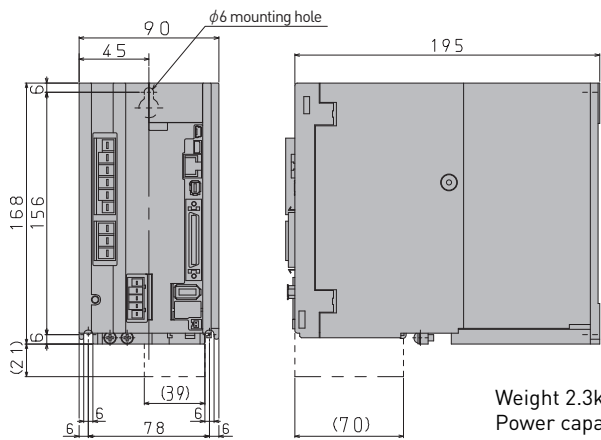
4. I/O cable(1.5m)
5. Sequencer

### Touch panel

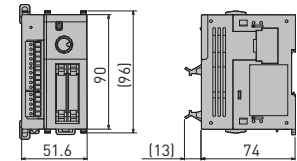
6. Touch panel TP-02A [with cable(3m)]



### 3.Feed axis servo amplifier [with ABS battery] MR-J4-350A(battery : MR-BAT6V1SET)



### 5. Sequencer FX3UC-32MT/D(FX3U-3A-ADP)

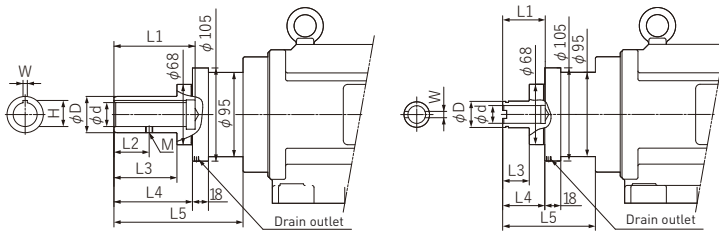


[Mounting]  
35mm width DIN rail mounting Weight 0.3kg

Note: Dedicated parameters and software for controlling the Selffeeder are input to the attached feed axis servo amplifier and sequencer.

## Tip shape

### ■ Adjustable spindle nose (optional)



1. Bilz28

2. KH-32E

No.	Model number	d	D	H <sup>+0.1</sup> <sub>0</sub>	W	L1	M	L2	L3	L4	L5
1	Bilz28	28H6 <sup>+0.013</sup> <sub>0</sub>	40g6 <sup>-0.009</sup> <sub>-0.025</sub>	29.7	6 <sup>+0.145</sup> <sub>+0.070</sub>	99	M8×1.25	38	83	100.5	175.5
2	KH-32E	32 <sup>+0.010</sup> <sub>+0.005</sub>	43.8 <sup>0</sup> <sub>-0.1</sub>	-	10C10 <sup>+0.138</sup> <sub>+0.086</sub>	83	-	-	30	47.5	122.5

Note: KH-E type spindle nose is applicable to Quick Change Stub Holder KH-A type and KH-E type manufactured by NT Tool.

## I/O signal specifications

Input/Output	Signal name	Name
Input *1	X 06	A-axis operation preparation
	X 07	A-axis spindle alarm
	X 10	A-axis automatic start
	X 11	A-axis mechanical origin return
	X 12	A-axis error reset
	X 13	A-axis EXT/MANUAL
	X 14	A-axis program selection 1
	X 15	A-axis program selection 2
	X 16	A-axis program selection 4
	X 17	A-axis program selection 8
Output *2	Y 12	A axis during automatic operation
	Y 13	A-axis program end
	Y 14	A-axis machine origin
	Y 15	A-axis Spindle ON
	Y 16	A-axis error
	Y 17	A-axis emergency stop condition

\*1 Voltage: DC24V, Current: 7mA  
\*2 Voltage: DC24V, Current: 100mA

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