Mechanical feed/electronically controlled drilling unit

SELFEEDER MECHATRIC

S S M 5 M

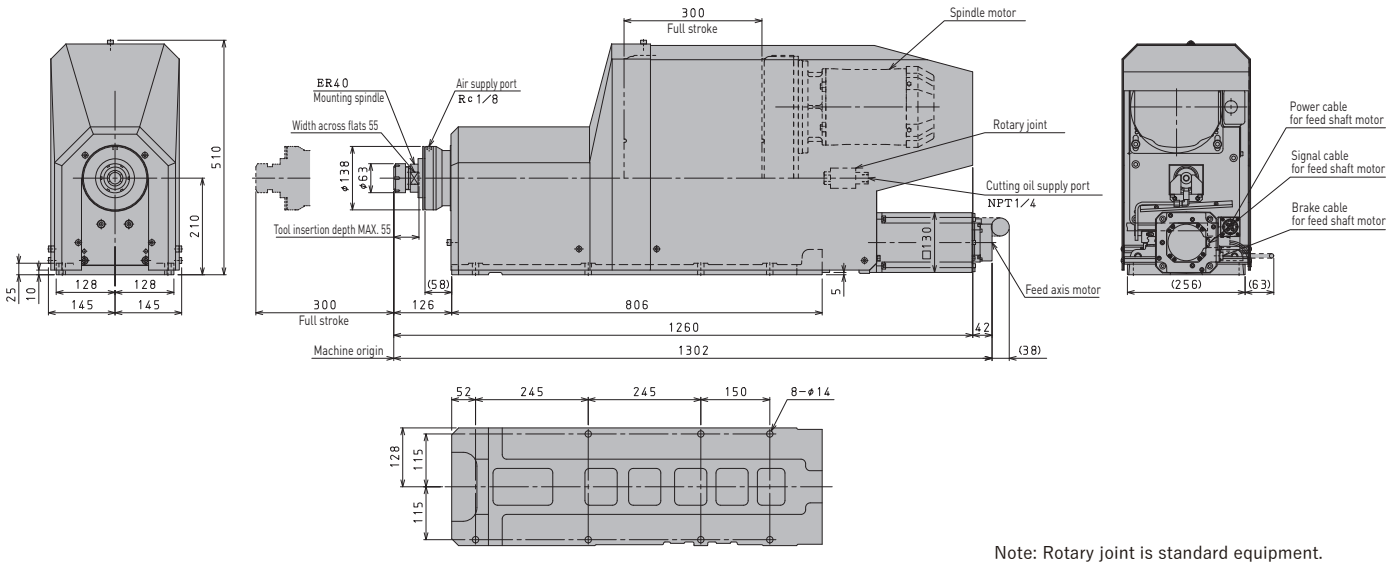
This is a high-precision,
high-rigidity cutting machining unit that
integrates a spindle unit into a slide table.
The 300mm long stroke
and coolant center through
allow efficient deep hole drilling.

Specifications

Model number	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^{-1}		-	mm	mm	mm	mm	mm	kW	kW	N	mm/sec	kg
SSM5M-2641BCL	4,100	4,900	ER40	10~26	8	4	4	Max. 300	2.2 Induction motor	3.3 AC servo motor	5,000	Max. 300	230
SSM5M-2634BCL	3,400	4,000			9	5	5						
SSM5M-2625BCL	2,500	3,000			12	6	6						
SSM5M-2621BCL	2,100	2,500			10	5	5		1.5 Induction motor				
SSM5M-2617BCL	1,700	2,000			12	6	6						
SSM5M-2611BCL	1,100	1,300			16	9	8						
SSM5M-2607BCL	700	850			19	14	12.5						
SSM5M-2604BCL	400	480			19	15	13.5		0.75 Induction motor				
SSM5M-2602BCL	220	260			24	21	19						

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 the value at a drilling depth that is twice the drill diameter.
3. Coolant and center through specifications are standard. Please let us know if it is not required.
4. The feed axis servomotor is equipped with a holding brake. (Add B at the end of the model code)
5. Up to 15 programs with different machining patterns can be registered.

Dimensions(mm)



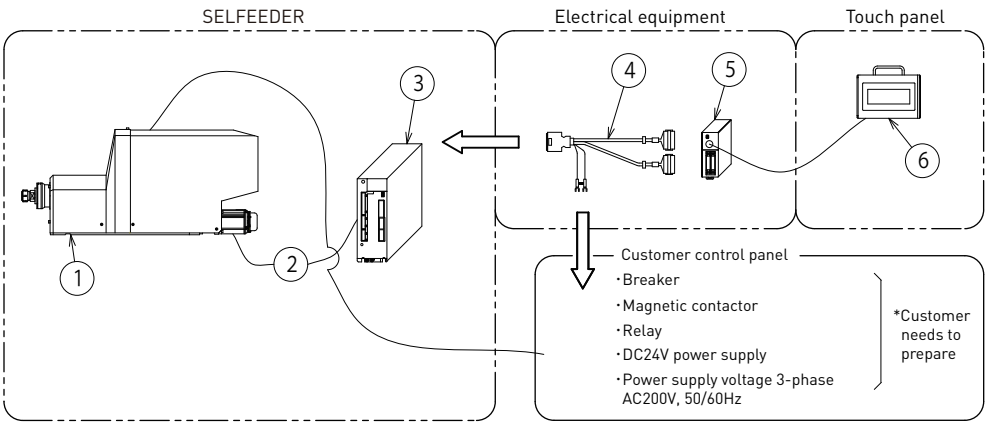
Note: Rotary joint is standard equipment.

Diagram

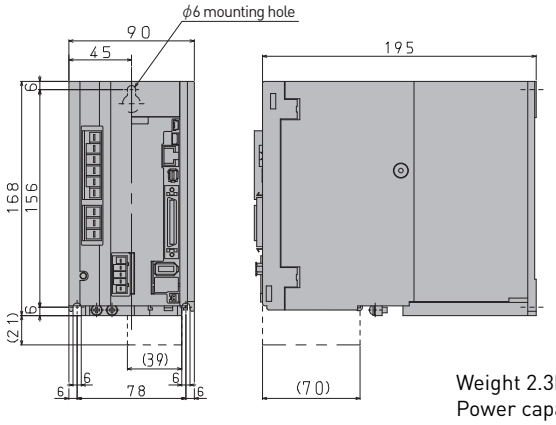
SELFEEDER
1. SELFEEDER
2. Feed axis cable(5m)
3. Feed axis servo amplifier
   [with ABS battery]

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

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

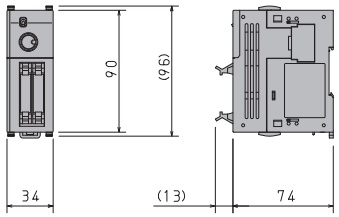


3.Feed axis servo amplifier [with ABS battery]
MR-J4-350A(battery : MR-BAT6V1SET)



Weight 2.3kg
Power capacity 5.5kVA

5. Sequencer FX3UC-32MT/D



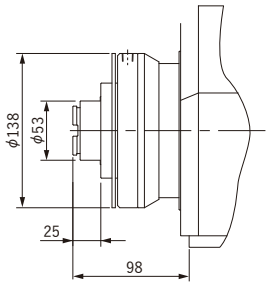
[Mounting]
35mm width DIN rail mounting Weight 0.3kg

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

Tip shape

■ **Adjustable spindle nose (optional)**

SSM5M-****SBCL



KH-32EC

Note: The KH-EC type spindle nose is applicable to the KH-EC type quick change stub holder manufactured by NT Tools.

I/O signal specifications

Input/Output	Signal name	Name
Input *1	X06	A-axis operation preparation
	X07	A-axis spindle alarm
	X10	A-axis automatic start
	X11	A-axis mechanical origin return
	X12	A-axis error reset
	X13	A-axis EXT/MANUAL
	X14	A-axis program selection 1
	X15	A-axis program selection 2
	X16	A-axis program selection 4
	X17	A-axis program selection 8
Output *2	Y12	A axis during automatic operation
	Y13	A-axis program end
	Y14	A-axis machine origin
	Y15	A-axis Spindle ON
	Y16	A-axis error
	Y17	A-axis emergency stop condition

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

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