

Versatility for special-purpose machines !

SELFFEEDER has been used in many drilling/tapping processes.

Now Brand-new SELFFEEDER is born.

STRONG
POINT 01

Both Drilling and Tapping with one unit

Servo motors are installed on both spindle and feed axes.
Tapping is also available by changing tool, holder, multi-spindle head.

Collet Chuck
Spindle Nose Specification

Jacobs taper
Spindle Nose Specification

Adjustable
Spindle Nose Specification

Multi-spindle head

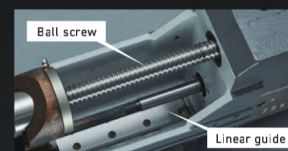
Tap Holder

Stub Holder

STRONG
POINT 02

Compact & High rigidity

High rigidity and high precision machining are achieved even with a width of 136 mm slim body.



STRONG
POINT 03

Selectable servo motor

Rotation speed and torque can be selected.

※ A motor spacer and a coupling may need to be replaced for changing the servo motor.

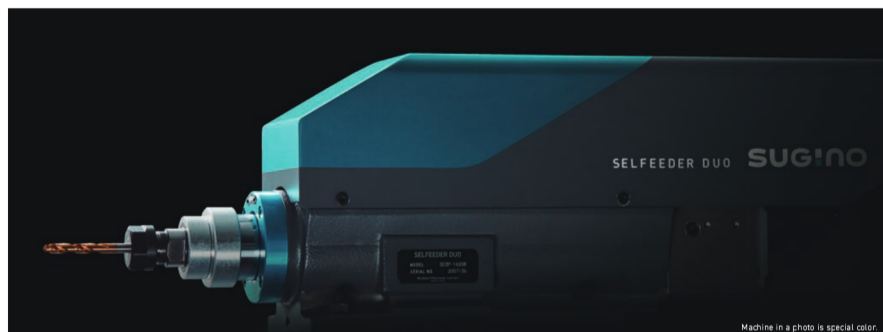
SELFFEEDER DUO

A total of 600K units of SELFFEEDER series has been sold worldwide.

Latest model SELFFEEDER DUO contributes to the next generation manufacturing by "Shorter cycle time", "Lower running cost", "Greener to environment".

Basic specification

SELFFEEDER DLQ, a highly versatile unit that achieves both drilling and tapping with one unit, offers seven types of spindle and motor sets that meet a variety of machining conditions.



■ Specification Chart / Drilling and tapping dual-purpose type

Model	Spindle speed min ⁻¹	Spindle torque N·m	Chuck type (Collet chuck)	Chucking capacity mm	Max. drilling size			Max. tapping size		Spindle AC servo motor	AC servo motor for feed	Thrust	Rap'd approach speed mm/sec	Weight kg
					AL* (ADC)	FC* (PC200)	ST* (S45C)	AL* (ADC)	ST* (S45C)					
SC3-7-00B	Max. 1,000	3,000min ⁻¹ or less 3,000~1,000min ⁻¹ 2.4~0.7	ER11	0.5 ~ 7.0	7	5	4	—	—	0.75	0.75	2,320	Max. 200	32
SC3-1-650B	Max. 5,000	3,000min ⁻¹ or less 3,000~5,000min ⁻¹ 2.4~0.5	(ER11) (ER20) ER25	0.5 ~ 7.0 0.5 ~ 3.0 0.5 ~ 6.0	12	9	8	M6	M5	0.75				32
SC3P-1-630B	Max. 3,000	3,000min ⁻¹ or less 6.4	ER25	0.5 ~ 6.0	14	12	10	M12	M7	2.0 3,000min ⁻¹ rated				35
SC3P-1-620B	Max. 2,000	2,000min ⁻¹ or less 9.5	ER25	0.5 ~ 6.0	16	13	11	M14	M10	2.0 2,000min ⁻¹ rated				36

Notes

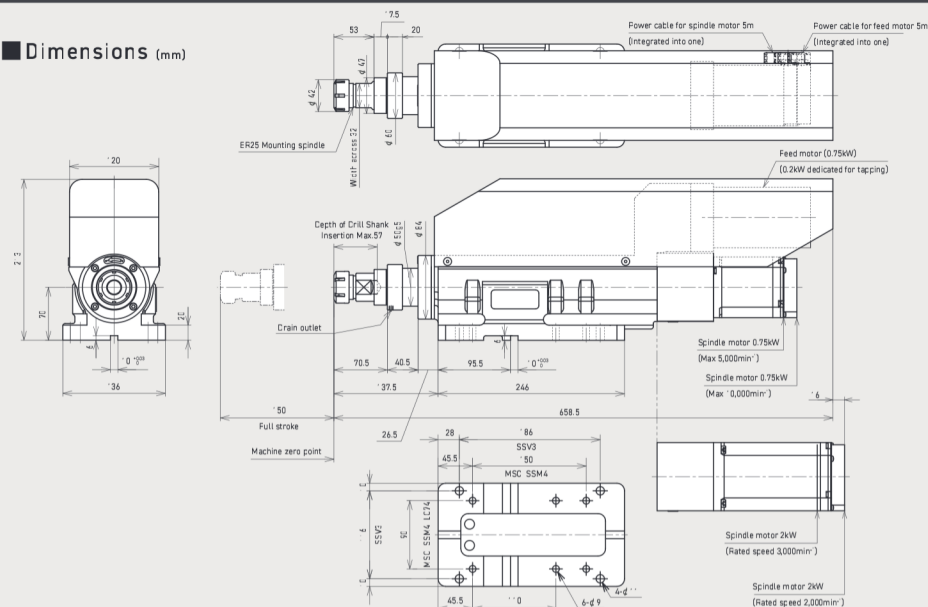
- Select a model based on workpiece specifications, machinability, tool specifications and cutting speed. The drilling capacity shown above is for a depth equivalent to the drill diameter times two.
- Tapping capacities are conditional on the depth of tapping being limited to .5 times the tap diameter.
- ER collet is adopted for spindle nose. Use collet ER-GB when chucking a tap. Misalignment between a pre-hole and a tap can cause early tap damage.
- In case of aluminum, select a Jacobs step type spindle and a tap holder shown on page 5.
- servo motor for feed is with a holding brake. "B" is added to the end of SELF FEEDER DL model number.
- AL, AL₂O₃, Titanium, FCC, Cast Iron, Steel, Stainless

■ Specification Chart / Dedicated for tapping

Model	Spindle Speed		Spindle torque	Rapid approach speed	Max. tapping size		Spindle AC servo motor	AC servo motor for feed	Thrust	Weight
	Feed approach speed	Pitch feed speed			AL* [AC]	ST* [S45C]				
		mm·min ⁻¹	N·m	mm/sec	mm		kW	kW	N	kg
SC3-04TB	Non-rotating	Max.4,000mm ⁻¹ for N°1 to M5 tapping Max.3,000mm ⁻¹ for N6 tapping	3,000mm ⁻¹ or less 2.4 3,000~4,000mm ⁻¹ 2.4~5	200	M6	M5	0.75	0.2	680	3
SD3P-3-0TB	Non-rotating	Max.4,000mm ⁻¹ for M3 to M6 tapping Max.3,000mm ⁻¹ for M7 to M12 tapping Max.3,000mm ⁻¹ when tapping with multi-spindle head	3,000mm ⁻¹ or less 6.4 3,000~4,000mm ⁻¹ 6.4~4.8		M12	M7	2.0 3,000mm ⁻¹ rated			34
SD3P-3-4TB	Non-rotating	Max.2,000mm ⁻¹ for M4 or less tapping Max.3,000mm ⁻¹ when tapping with multi-spindle head	2,000mm ⁻¹ or less 9.5		M14	M10	2.0 2,000mm ⁻¹ rated			35

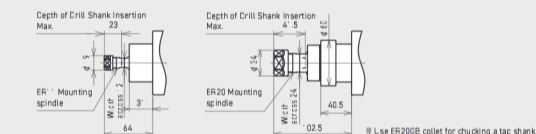
Notes 1. Select model and spindle speed based on workpiece material, machinability, tap diameter and material, cutting speed, and other factors.
2. Tapping capacities are conditional on the depth of tapping being limited to 1.5 times of the tap diameter.
3. A servo motor for feed is with a holding brake, "B" is added to the end of SELFFEEDER DL0 model number.
4. AL*...Aluminium, FC*...Cast iron, ST*...Steel

■ Dimensions (mm)

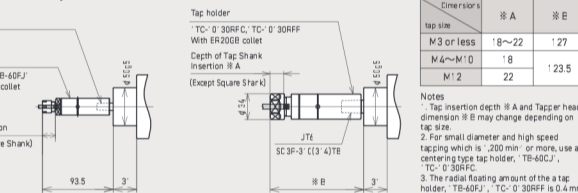


■ Spindle

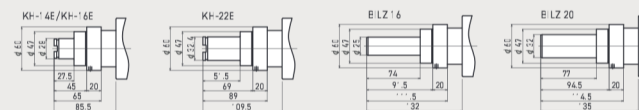
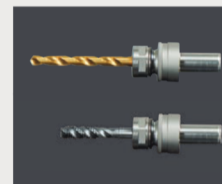
Collet Chuck Spindle Nose Specification



Jacobs Taper/Spindle specification & Tap holder



Adjustable Spindle Nose Specification Optional item for easy changeover between drilling and tapping.

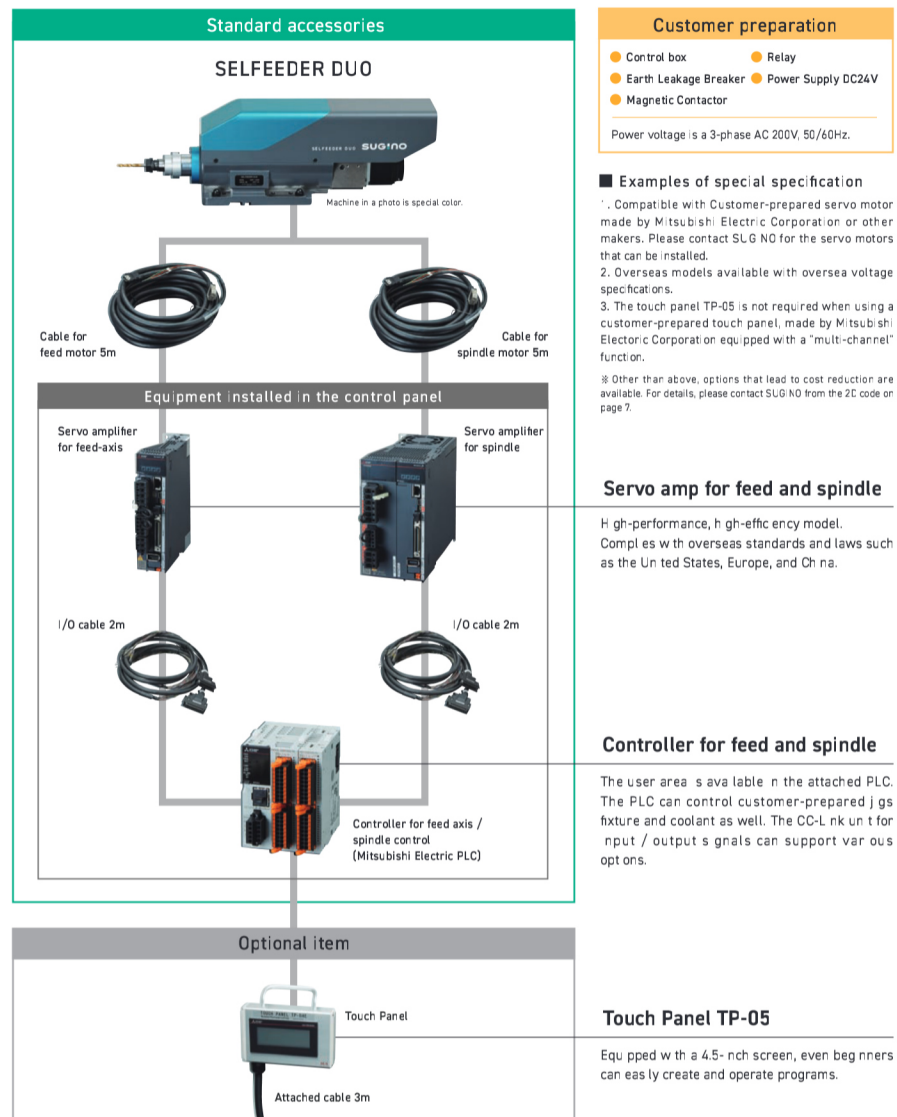


Notes

1. The detailed dimensions of the spindle nose are based on the recommended dimensions of NT TCCL CCRFRATCH.
2. Adjustable spindle nose is applicable only for rotation speed 5,000 min⁻¹ or less.
3. The KH-E type spindle nose is compatible with NT TCCL CCRFRATCH's quick change stub holders KH-A type, KH-E type, and quick change stub tapper KH-A-NL type.
4. The Bliz type spindle is compatible with NT TCCL CCRFRATCH's quick change drilling chuck CC-SSMA type and quick change tapping chuck WFLP-Tr type.

Electrical accessories

The basic operation system parameters and machining operation patterns are pre-installed in the controller.
Operation can start on the same day as the installation date with a simple operation.



Various proposals to utilize SELFEEEDER DUO

Integrated line for machining, drilling, tapping, and washing

Our machining center "Self Center" and washing machine "JCC" can be connected by "Swing Arm Type Column Robot" and provided as an integrated line.



Machining	Robot	Special-purpose machine	Robot	Washing machine
Cutting	Transferring	Drilling/Tapping	Transferring	Washing/Deburring/Dry

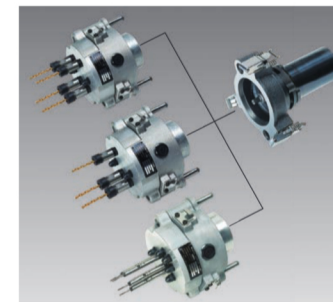
Automatic drilling and tapping machine utilizing SELFEEEDER DUO

This machine can be used on the same day only by supplying AC200V.



Multi-spindle head Quick change "Catch-Clip" Type

Multiple holes can be machined at the same time. "Catch-Clip" Multi-spindle heads require little changeover time.



Contact Please feel free to contact us from the following.

Contact for price and model selection



Contact for drawing data of SELFEEEDER DUO and Electrical Accessories



Contact information for direct confirmation of unclear points
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