SUGINO

Mechanical feed type tapping unit



Feature

1. Long stroke.

Long stroke tapping unit with a 120mm full stroke. Capable of avoiding interference with fixtures or peripheral devices and making it easier for tool exchange.

2. Fast approach and fast return mechanisms cut down cycle time.

The built-in automatic switching of fast approach traverse and fast return significantly cut down idling time during tapping.

SPEC (Standard type)

	Rotation speed		Tapping capacity								Fa	Fast					ſ	Motor spec.		bec.			
Model			1 spindle		2 spindles		3 spindles		4 spindles			Fast	Pitch	approach		Maximum tapping	Thread				2nhaca		
	50Hz	60Hz	AL*	ST* (S45C)	AL*	ST* (S45C)	AL*	ST* (S45C)	AL*	ST* (S45C)	Full Stroke	approach stroke	feed stroke	e 50Hz 60Hz		cycle time per minute	pitch		Weight		Volts.		Amps
	min ⁻¹		mm		mm		mm		mm		mm			mm/s		time/min	mm Therads /inch		kg		۷	Hz	Α
	600	720	M14	M8	M12	M8	M10	M6	M8	M5	12 ' 120	30 ' 110	0 , 40	83	100	10	0.5	40 36	57		220	50	3.6
				+													0.7	32				60	3.3
			M12	M8	M10	M6	M8	M5	M6	M5							0.8	28 27			380	50	2.1
	400	490	M18	M14	M14	M10	M12	M8	M10	M6							1 1.25	26 24			400	50	1.9
STC-P316																	1.5	20			400	60	1.7
			M16	M12	M12	M8	M10	M6	M8	M6							1.75	19		ŀ	415	50	1.9
	210	250	M22	M16	M16	M12	M14	M10	M12	M8							2	16 14			((0	50	1.8
																	2.5	13 12			440	60	1.6
			M22	M16	M14	M10	M12	M8	M10	M6								11 10		F	Power 0.75kW Poles 4P		

Note 1. The upper column of the chart is for a spiral tap and a point tap. The lower column is for hand tap No.2. Tapping capacities are conditional on the depth of tapping being limited to 1.5 times of the tap diameter.

2. Allowable weight of multi spindle head to be attached to SYNCROTAPPER is as follows.

Water proofing and dust proofing must be required when processing upward direction.

(when working in a horizontal direction: 35Kg, in a vertically upward direction: 25Kg, in a vertically downward direction: 25Kg) 3. AL*: Aluminium ST*: Steel



Note 1.Single tapper heada 1TD-160F has chucking capacity of M3 - M16 with floating system (radial floating : 0.4mm in diameter) 2.Single tapper heada 1TD-220F has chucking capacity of M12 - M22 with floating system (radial floating : 0.4mm in diameter)

Controller UC-28U model





Wiring of power supply , I/O signals

8



	signal									
	9	Description	StartNormally open contact ReturnNormally closed contact StopNormally closed contact							
	Output	Form	No voltage 1a contact output (Relay contact) Max. applicable load AC220V 1A(Inductive load)							
			ORIGINContinuous signal at full return position.							
	Signat	Description	TOTAL STROKEContinuous signal from full							
			forward position until 0.5 sec.							
			After unit retracts to full return position.							

Basic operation





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