

1.3 Machine Specifications

Specifications of the machine are listed as follows:

Table 1-1 PSG52SA/ACC52SA/ACC820DXB Machine Specifications

Specification Item		Values			
		PSG52SA/ACC52SA	ACC820DXB		
Capacity	Table installation area (Length x Width)		550 × 200 mm	21.7 × 7.9"	
	Table maximum travel		650 × 230 mm	25.6 × 9.1"	
	Table top surface (ϕ 205mm/8") to wheel bottom		47.5~397.5 mm	1.9 × 15.6"	
	Size of standard chuck to install		500 × 200 × 70 mm	19.7 × 7.9 × 2.8"	
	Maximum weight of work (including chuck weight of 50 kg/110 lbs)		200 kg	440 lbs	
Table	Width and number of T-grooves		17 mm × 1	0.7" × 1	
	Longitudinal feed speed (Ave)		300 - 25000 mm/min	11.8 - 984.3 in/min	
	Feed per rotation of longitudinal feed handle		47 mm	1.9"	
Saddle	Manual feed	Feed per handle rotation ($\times 1/\times 10/\times 50$)	0.1/1.0/5.0 mm	0.01/0.1/0.5"	
		Feed per dial scale division ($\times 1/\times 10/\times 50$)	0.001/0.01/0.05 mm	0.0001/0.001/0.005"	
	Automatic feed	Intermittent feed	0.5 - 12.0 mm	0.02 - 0.47"	
		Continuous feed	0 - 1000 mm/min	0 - 39.4 in/min	
Grinding wheel head	Automatic infeed (traverse and plunge cut)		Rough grinding	0.001 - 0.03 mm (12 levels)	0.00005 - 0.0015" (12 levels)
			Fine grinding	0.0001 - 0.01 mm (11 levels)	0.00005 - 0.0005" (11 levels)
	Manual infeed	Feed per handle rotation ($\times 0.1/\times 1/\times 10$)		0.01/0.1/1.0 mm	-
		Feed per handle rotation ($\times 0.1/\times 1/\times 5$)		-	0.001/0.01/0.05"
		Feed per dial scale division ($\times 0.1/\times 1/\times 10$)		0.0001/0.001/0.01 mm	-
		Feed per dial scale division ($\times 0.1/\times 1/\times 5$)		-	0.00001/0.0001/0.0005"
	Number of spark-outs		0 - 5 times	0 - 5 times	
	Vertical rapid feed speed		600 mm/min	23.6 in/min	
Grinding wheel	Wheel size (outer diameter x thickness x hole)		ϕ 205×19× ϕ 50.8 mm	ϕ 8.1×0.7× ϕ 2.0"	
	Number of revolutions	50Hz	3000 min ⁻¹	3000 min ⁻¹	
		60Hz	3600 min ⁻¹	3600 min ⁻¹	
Motors	For grinding wheel spindle		A.C 1.5 kW 2P	A.C 2 HP 2P	
	For vertical feed /infeed		0.4 kW (A.C. servomotor)	0.5 HP (A.C. servomotor)	
	For cross feed		0.75 kW(A.C. servomotor)	1 HP ((A.C. servomotor)	
	For hydraulic pump		A.C 0.75 kW	A.C 1 HP	
Power supply	Main power	50Hz	3-phase 200V±10%	3-phase 200V±10%	
		60Hz	3-phase 220V±10%	3-phase 220V±10%	
	Power requirement		6 kVA	5 kVA	
Weight	Main unit		Approx. 2200 kg	Approx. 4840 lbs	
Installation space	Width x Depth x Height		2507×1774×1845 mm	98.7×69.8×72.6"	