

Data Sheet ALLROUNDER® 320-210-500

Machine Type	ARBURG	500 - 210
	ALLROUNDER®	320-210-500
International Designation ¹⁾		500-210

Clamping Unit

Clamping Force/Locking Force max.	kN	500/500
Closing Force max.	kN	36,8
Mould Protection Force	kN	3,5 - 36,8
Opening Force max.	kN	36,8
Increased Opening Force max.	kN	194
Opening Stroke (adjustable)	mm	max. 375
Mould Height	mm	min. 250
max. Daylight between Plates	mm	625
Daylight between Tie-bars	mm	320 x 320
Dimensions of Plates (hor. x vert.)	mm	490 x 490
Ejector Force max.	kN	38
Ejector Retract Force max.	kN	26,7
Ejector Stroke (hydr. Ejector) max.	mm	150

Injection Unit

Screw Diameters available	mm	25	30	35	40
Screw Length L/D	---	24	20	17	15
Screw Stroke max.	mm	150	150	150	150
Dosage Volume max.	ccm	73	106	144	188
Shot Volume max. ⁶⁾	ccm	59	85	115	151
Shot Weight	gPS	61	89	121	158
Injection Force max.	kN	145,1	145,1	145,1	145,1
Injection Force w/Diff.-Control max.	kN	---	---	---	---
Injection Pressure max.	bar	2950	2050	1500	1150
Injection Pressure w/Diff.-Control max.	bar	---	---	---	---
Injection Flow Speed max.	ccm/s	56	81	111	144
Injection Flow Speed w/Diff.-Control max.	ccm/s	---	---	---	---
Injection Flow Speed w/Accumulator max.	ccm/s	196	283	385	502
Back Pressure max.	bar	460	320	235	180
Screw Rotation max.	R.P.M.	400	400	400	400
Circumferential Speed of Screw max.	m/min	31,4	37,7	44	50,3
Screw Torque max.	Nm	365	365	365	365
Nozzle Contact Force max.	kN	72,3			
Nozzle Retract Stroke max.	mm	180			
Cylinder and Nozzle Heating	Watt	3 x 1750 + 310 = 5560			
Volume of Feed Hopper	Litre	50			

Hydraulic, Drive Unit, Dimensions

Pump Motor, Power Consumption	kWatt	11
Hydraulic Oil Volume	Litre	220
Dry Cycles ⁷⁾	s	2,8
Total Power Consumption ⁴⁾	kWatt	17
Length x Width of Machine ³⁾	m	4,3 x 1,85
Height with hor./vert. Injection Unit ³⁾	m	2,0/3,25
Weight without Hydraulic Oil ³⁾	kg	2350

¹⁾ 1st Designation: Clamping Force (kN)
2nd Designation: max. Shot Volume (ccm) x max. Injection Pressure (kbar)

²⁾ Injection Pressure limited to max. 2500 bar

³⁾ (with) Standard Equipment

⁴⁾ at 380 or 220 V Threephase Current, 50 Hz

⁵⁾ Calculation based on Bulk Factor 0,8

⁶⁾ according to Euromap

⁷⁾ Values in Brackets apply to Stronger Drive Unit