

## Data Sheet ALLROUNDER® 320-210-500

Machine Type	ARBURG	<b>500 - 210</b>
	ALLROUNDER®	320-210-500
International Designation <sup>1)</sup>		<b>500-210</b>

**Clamping Unit**

Clamping Force/Locking Force max.	kN	<b>500/500</b>
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	<b>320 x 320</b>
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	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>
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. <sup>6)</sup>	ccm	<b>59</b>	<b>85</b>	<b>115</b>	<b>151</b>
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	<b>2950</b>	<b>2050</b>	<b>1500</b>	<b>1150</b>
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 <sup>7)</sup>	s	2,8
Total Power Consumption <sup>4)</sup>	kWatt	17
Length x Width of Machine <sup>3)</sup>	m	4,3 x 1,85
Height with hor./vert. Injection Unit <sup>3)</sup>	m	2,0/3,25
Weight without Hydraulic Oil <sup>3)</sup>	kg	2350

- <sup>1)</sup> 1st Designation: Clamping Force (kN)  
2nd Designation: max. Shot Volume (ccm) x max. Injection Pressure (kbar)
- <sup>2)</sup> Injection Pressure limited to max. 2500 bar
- <sup>3)</sup> (with) Standard Equipment
- <sup>4)</sup> at 380 or 220 V Threephase Current, 50 Hz
- <sup>5)</sup> Calculation based on Bulk Factor 0,8
- <sup>6)</sup> according to Euromap
- <sup>7)</sup> according to Euromap
- <sup>8)</sup> Values in Brackets apply to Stronger Drive Unit