



## ALPHA series

Machine type		α 50	α 100	α 160	α 250	α 400
		fully hydraulic	fully hydraulic	fully hydraulic	fully hydraulic	hydro mechanical
Injection unit - standard	size	1C1	1A	2A	3A	4A
Injection unit - options	size	2C1	2A	1A and 3A	2A and 4A	3A, 5A* and 6A*
<b>Injection unit size - FIFO - A</b>		<b>1C1</b>	<b>1A</b>	<b>2A</b>	<b>3A</b>	<b>4A</b>
Injection plunger diameter	mm	32   40	55   65	75   85	85   95	105   115
Injection pressure	bar	2430   1560	2380   1700	2150   1670	2150   1730	2150   1800
Injection volume	cm <sup>3</sup>	85   130	350   500	800   1000	1600   2000	3300   4000
Plunger stroke	mm	105	150	180	290	390
Injection force	kN	195	567	950	1227	1886
Injection rate, calc. <sup>(1)</sup>	cm <sup>3</sup> /s	30   46	48   68	80   100	80   100	120   150
Screw diameter	mm	25	25	35	45	55
Screw length	L : D	12 : 1	10 : 1	10 : 1	10 : 1	10 : 1
Screw speed	rpm	20 - 200	20-220	20 -250	20 -100	20 - 200
Screw, torque, max.	Nm	380	380	540	1260	1370
Heating capacity temp. control	kW	1 x 4.5	1 x 4.5	1 x 4.5	1 x 4.5	2 x 4.5
Injection unit contact force	kN	fixed nozzle	47	47	75	75
Strip width	mm	40 x 6	40 x 6	45 x 7	60 x 8	60 x 10
<b>Clamping unit</b>						
Clamping force	kN	500 (550) <sup>(2)</sup>	1000 (1100) <sup>(2)</sup>	1600 (1700) <sup>(2)</sup>	2500 (2700) <sup>(2)</sup>	4000 (4500) <sup>(2)</sup>
Transfer force	kN	500	1000	1600	2500	4500
Transfer stroke	mm	fully hydraulic	fully hydraulic	fully hydraulic	fully hydraulic	40
Opening force	kN	24	38	58	80	103
Opening stroke	mm	300	450	500	550	650
Opening speed	mm/s	470	300	300	220	240
Closing speed	mm/s	280	470	420	270	420
Mould height, min.	mm	50	100	140	160	180
Space bet. heating platen, Max. <sup>(1)</sup>	mm	350	550	640	710	830
Clearance between tie bars	mm	265 x 345	305 x 415	410 x 570	510 x 680	603 x 830
Heating platens, standard	mm	320 x 400	320 x 400	450 x 510	560 x 630	670 x 780
Heating platens, largest	mm	-	400 x 500	560 x 630	670 x 780	810 x 980
<b>Hydraulic core lifting device</b>						
Lifting force	kN	16	24.5	40	63	98
Stroke	mm	0 - 150	0 - 200	0 - 250	0 - 250	0 - 300
<b>General data</b>						
Pump drive	Bar/LPM/kW	250(275)/28/7.5	263(283)/28/7.5	260(276)/41/15	250(265)/41/15	250 (283) /65 / 22
Total connected load	kW	20	20	34	38	56
Machine dimensions L x W x H	mm	1370 x 1275 x 2655	2085 x 1120 x 2925	2300 x 1190 x 3045	2580 x 1380 x 3430	3000 x 1660 x 3790
Oil tank capacity	l	180	100	150	180	300
Weight with hydraulic oil <sup>(1)</sup>	kg	2000	4100	5700	8840	13800

(1) Standard size (2) Increased clamping force

### Note :

- For 2C1 injection unit size refer α 25C on page 13
- Ref DELTA 400 Specs for 5A & 6A on page 12
- In case of 2500 kN, optional injection unit 4A is not retrofittable
- In case of 4000 kN, optional injection unit 5A and 6A is not retrofittable