

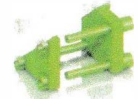
Technische Daten / Technical data

ieß- und Spritzaggregate sind variabel kombinierbar.
 Imping and injection units can be combined variably.

duo

Größen von 8000 kN bis 20000 kN
 Sizes from 8000 kN to 20000 kN

Engel Robot



Größenbezeichnung	Internal size designation	8000-8400	9000-8000	10000-8700	11000-13000	13000-13000	15000-17500	17000-17500	20000-23200								
Bezeichnungen	Machine designations	DUO 4550/800	DUO 5550/900	DUO 7050/1000	DUO 11050/1100	DUO 11050/1300	DUO 16050/1500	DUO 16050/1700	DUO 23050/2000								
Injection unit		4550		5550		7050		11050		11050		16050		16050		23050	
Durchmesser	Screw diameter	mm	80/90/105	80/90/105	90/105/120	105/120/135	105/120/135	120/135/150	120/135/150	135/150/160							
	Screw stroke	mm	390	430	480	570	570	620	620	720							
Volumen	Max. injection capacity	cm ³	1960/2480/3380	2160/2740/3720	3050/4160/5430	4940/6450/8160	4940/6450/8160	7010/8870/10960	7010/8870/10960	10310/12720/14480							
Drehzahl	Screw speed	min ⁻¹	140	148	130	120	120	100	100	85							
Länge (3-Zonen)	L/D ratio (3-zone screw)		22	22	22	22	22	22	22	22							
Länge (3-Zonen) 2, 3, 4	Recovery rate (3-zone screw) 2, 3, 4	g/sec	59/81/121	62/85/128	75/112/157	104/145/195	104/145/195	121/163/213	121/163/213	139/181/200							
Länge Barriere*	L/D ratio (barrier screw)*		22	22	22	22	22	22	22	22							
Länge Barriere* 4, 5	Recovery rate (barrier screw) 4, 5	g/sec	80/108/159	85/114/168	100/147/206	136/191/256	136/191/256	159/214/279	159/214/279	182/237/279							
6	Injection rate (regenerative) 6	cm ³ /sec	420/530/720	450/560/760	585/800/1040	760/990/1255	760/990/1255	985/1245/1540	985/1245/1540	1445/1785/2030							
Druck	Injection pressure (regenerative)	bar	2300/1910/1400	2300/1910/1400	2250/1650/1260	1930/1480/1170	1930/1480/1170	2080/1640/1330	2080/1640/1330	1740/1410/1240							
Druck erhöht	Injection pressure (max)	bar	2300/2180/1600	2300/2180/1600	2300/2090/1600	2300/2020/1600	2300/2020/1600	2300/1980/1600	2300/1980/1600	2250/1820/1600							
Düsenanpresskraft	Nozzle stroke • Nozzle cont. pressure	mm • kN	700 • 150	700 • 150	700 • 150	700 • 150	950 • 150	950 • 210	950 • 210	1100 • 210							
	Heating wattage 7	kW	53/62/73	53/62/73	65/74/89	74/89/97	74/89/97	98/109/118	98/109/118	109/118/133							
inkl. Düse 7	Heating zones incl. nozzle 7		6/7/7	6/7/7	7	7	7	6/7/7	6/7/7	7							
Clamping unit		DUO 800		DUO 900		DUO 1000		DUO 1100		DUO 1300		DUO 1500		DUO 1700		DUO 2000	
	Clamping force	kN	8000	9000	10000	11000	13000	15000	17000	20000							
	Opening stroke	mm	1600	1600	1800	1800	2350	2350	2550	3000							
Höhe min-max.	mold height min-max	mm	500-1100	500-1100	600-1200	600-1200	700-1400	700-1400	800-1600	800-1800							
Höhe max.	Total daylight max.	mm	2100	2100	2400	2400	3050	3050	3350	3800							
Standard hor. x vert.	Platen size standard hor. x vert.	mm	1550 x 1520	1550 x 1520	1850 x 1810	1850 x 1810	2200 x 1990	2200 x 1990	2420 x 2170	2700 x 2430							
(Wide platen) h x v	Enlarged platen (Wide platen) h x v	mm															
Abstand hor. x vert.	Dist. between tie bars hor. x vert.	mm	1170 x 1000	1170 x 1000	1400 x 1150	1400 x 1150	1530 x 1275	1530 x 1275	1850 x 1415	2000 x 1600							
Breite	Drop out chute width	mm															
Gewicht max. 8	Mold weight max. 8	kg	13000	13000	21000	21000	30000	30000	45000	62000							
Kühlkreise	Number of mold cooling circuits	# x l/min	8 x 10	8 x 10	10 x 30	10 x 30	10 x 30	10 x 30	10 x 30	10 x 30							
Auswerferkraft	Ejector stroke • Ejector force	mm • kN	300 • 180	300 • 180	300 • 215	300 • 215	300 • 230	300 • 230	300 • 230	400 • 385							
(Euromap 6) • Hub	Dry cycle (Euromap 6) • stroke	sec • mm	3,3 • 800	3,3 • 800	3,9 • 1000	3,9 • 1000	4,4 • 1100	4,4 • 1100	4,9 • 1300	5,5 • 1400							
Drive		DUO 800		DUO 900		DUO 1000		DUO 1100		DUO 1300		DUO 1500		DUO 1700		DUO 2000	
Leistung	Rated drive power	kW	75	90	110	130	130	165	165	225							
	Oil reservoir capacity	l	1000	1000	1800	1800	1800	3000	3000	3000							
Abmessungen		DUO 800		DUO 900		DUO 1000		DUO 1100		DUO 1300		DUO 1500		DUO 1700		DUO 2000	
Spritzhöhe (ohne Öl)	Nel clamp./injec. unit (without oil fill)	to	28/10	28/10	39/17	39/18	54/18	54/28	68/28	96/29							
x x Höhe	Length x width x height	m	9,2 x 3,2 x 2,4	9,2 x 3,2 x 2,4	10,6 x 3,5 x 2,7	10,6 x 3,5 x 2,7	12,0 x 3,7 x 2,9	13,2 x 3,7 x 2,9	13,3 x 4,0 x 3,1	14,4 x 4,3 x 3,5							
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max. Schmelzvolumen mit Druckanstieg 1000 typ. bei Spritzhöhe 2350 mm	1 Clamping force [kN] – Injection capacity [cm ³] x Injection pressure max [bar]/1000 2 Data for GPPS up to injection unit 2550 acc. ETR 10100 3 Data for HDPE from injection unit 3550 onward acc. ETR 10100 4 Data for PP for Tecomet machines acc. ETR 10100 5 Data for HDPE acc. ETR 10100 6 Theoretical values 7 for 3-zone screw length 8 of which max. 2/3 on the moving platen, determination of the distance of the center of gravity with respect to the moving platen see page 34 9 Option		ERC 93 viper 40, 60	ERC 93 viper 40, 60	ERC 93 viper 40, 60	ERC 93 viper 40, 60	ERC 93 viper 40, 60	ERC 93 viper 40, 60	ERC 93 viper 60	ERC 93, 123 viper 60							