

Management system as per

ISO 9001: 2015  
ISO 14001: 2015

2023\_03\_EU\_EN



Website



LinkedIn

ENGEL MACHINERY (CHANGZHOU) CO., LTD.  
No. 9 Longfan Road, Wujin National Hi-Tech Industrial Zone,  
Changzhou 213166, Jiangsu Province, P.R. China  
tel: +86 519 8159 5300  
fax: +86 519 8159 5388  
e-mail: info@wintec-machines.com

ENGEL AUSTRIA GmbH  
Ludwig-Engel-Straße 1  
4311 Schwertberg  
Austria  
tel: +43 50 620 0  
e-mail: info@wintec-machines.com

**WINTEC**  
MEMBER OF THE ENGEL GROUP

t-win

HYDRAULIC TWO PLATEN INJECTION MOLDING MACHINE



www.wintec-machines.com

# Production Locations



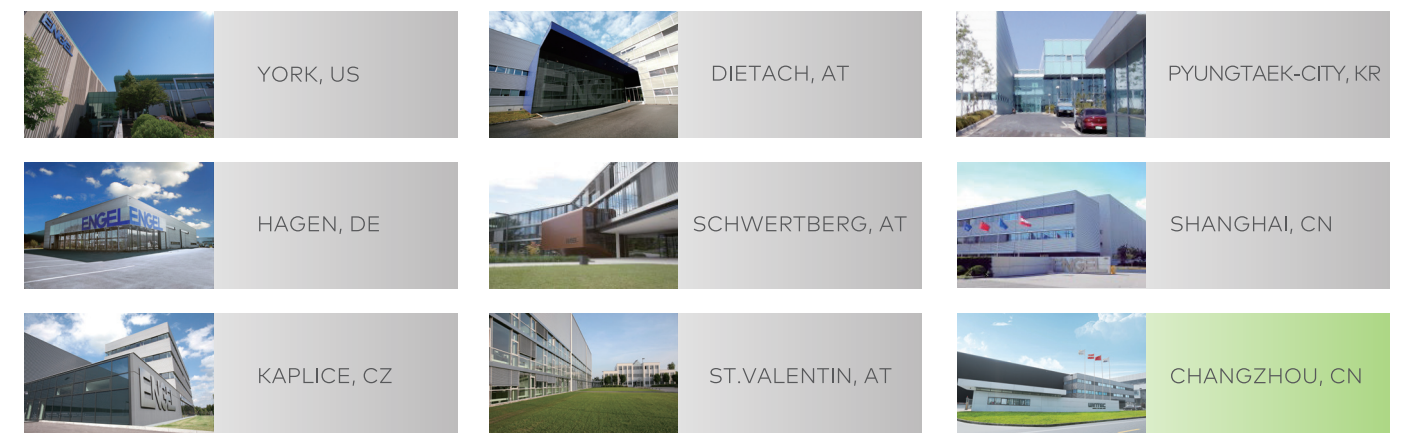
— Located in Changzhou, Jiangsu Province, China, WINTEC is the second brand established by ENGEL Group in 2014, insisting on high quality products and reliable services for the commodity segment of injection molding. After several years of sustainable growth and continuous development of our portfolio, WINTEC has completed the global rollout by adding Europe in 2021. The worldwide sales and service network of the ENGEL Group provides you with high quality injection molding machines for standard applications while ensuring fast and effective after-sales support.

## ENGEL GROUP

9 PRODUCTION PLANTS

30 SUBSIDIARIES

60 REPRESENTATIVES







---

ENGEL, as the world's leading supplier of injection molding machines, represents stability and continuity in the industry. As a 100% owned subsidiary of ENGEL, WINTEC will spare no effort to create efficient and stable injection molding machines.

At the same time, WINTEC relies on the strength of its parent company and its comprehensive global sales and service network to provide fast and effective after-sales support while ensuring the quality of its products, making it a reliable partner for your successful international development.

---



# t-win

## YOUR ADVANTAGES AT A GLANCE

### HIGHER PRODUCTIVITY

The servo hydraulic two-platen t-win is focused on fast and high efficient production. Fast movements, short clamping force build-up time and synchronized locking device movement reduce total cycle time and increase productivity.

### INCREASED AVAILABILITY

The reliable and proven design as well as features allow fast access for maintenance and increase machine availability and output.

### SMALLER FOOTPRINT

The two-platen machine concept allows a compact design for less space requirements.

### HIGHER ENERGY EFFICIENCY

The servo drive system servowin guarantees fast acceleration and low energy consumption.



### LONGER SERVICE LIFE

Premium components and a design concepts that reduce wear on the machine – and on your mold – guarantee an extended service life of 15 to 20 years and more.

### Smarter Control Unit

Future-oriented technologies with long-term availability and transformation. Powerful extending function for future challenges. C3 controller keeps you on top of processes that continue to become more and more complex.



t-win Clamping Unit		t-win 4500	t-win 6500	t-win 8500	t-win 9500	t-win 10500	t-win 14000	t-win 16000	t-win 18000
Clamping force	kN	4500	6500	8500	9500	10500	14000	16000	18000
Opening force with pressure pad	kN	260	370	510	620	620	760	1000	1000
Opening force with moving cylinder	kN	156	192	192	284	284	284	393	393
Opening stroke	mm	1050	1350	1400	1600	1600	1800	2350	2350
Mold height min	mm	350	400	450	500	500	600	700	700
Mold height max	mm	850	950	950	1100	1100	1200	1400	1400
Total daylight max.	mm	1400	1750	1850	2100	2100	2400	3050	3050
Platen size hor. x vert.	mm	1075x1175	1380x1320	1480x1380	1630x1610	1630x1610	1870x1960	2290x2130	2290x2130
Distance between tie bar hor. x vert.	mm	810x800	1040x910	1120x960	1270x1100	1270x1100	1470x1360	1680x1520	1680x1520
Mold weight max.	kg	6500	9500	11000	13000	13000	21000	30000	30000
Ejector stroke	mm	250	250	300	300	300	300	300	300
Ejector force forward/return	kN	105/51	105/51	195/92	230/108	230/108	260/123	260/123	260/123
Dry operation (Euromap 6) time	sec	3.1	3.7	4.0	4.6	4.6	5.1	5.7	5.7
Dry operation (Euromap 6) stroke	mm	550	700	750	850	850	1000	1150	1150
Weight CU	t	11	15	19	28	28	44	56	56

t-win Injection Unit		2000			3300			4800			7000			11000			15000			
Screw diameter	mm	55	60	70	60	70	80	70	80	90	80	90	105	90	105	120	105	120	135	150
Screw stroke	mm	330	350	350	360	420	430	420	480	480	480	540	550	540	630	630	630	720	730	730
Injection capacity	cm <sup>3</sup>	784	990	1347	1018	1616	2161	1616	2413	3054	2413	3435	4762	3435	5455	7125	5455	8143	10449	12900
Screw speed	min <sup>-1</sup>	220			200			160			140			120			90			
L/D ratio	L / D	22			22			22			22			22			22			
Plasticizing rate (3 zones) <sup>①</sup>	g / s	40.0	49.9	74.2	45.3	67.5	92.4	54.0	73.9	101.8	64.7	89.1	132.7	76.4	113.7	159.5	85.3	119.6	161.4	210.8
Injection rate max. <sup>②</sup>	cm <sup>3</sup> / s	246	293	399	277	377	493	347	453	573	424	537	730	471	641	837	790	1031	1305	1612
Injection rate @ max. inj. pressure	cm <sup>3</sup> / s	188	223	304	204	277	362	258	337	426	327	414	563	388	528	690	563	735	930	1149
Injection pressure	bar	1990	1730	1270	1940	1690	1290	1960	1710	1350	2020	1760	1290	1900	1650	1270	1860	1450	1150	930
Injection pressure max.	bar	2300	2000	1469	2300	2000	1531	2300	2000	1580	2300	2000	1469	2300	2000	1531	2300	1800	1422	1152
Nozzle stroke	mm	600			600			800			800			800			800			
Nozzle contact force	kN	110			110			150			150			150			150			
Heating wattage (incl. nozzle)	kW	20	21	24	21	24	27	23	26	29	26	29	34	45	51	57	51	57	66	72
Heating zones (incl. nozzle)		5	6	6	6	6	6	6	6	7	6	7	7	6	6	7	6	7	7	8
Drive power SHV1/SHV2 <sup>③</sup>	kW	38/53			46/53			61/73			75(90 <sup>④</sup> )/90			90(115 <sup>⑤</sup> )/96			115/115			
Oil reservoir capacity	l	550			550			760			760(1150 <sup>④</sup> )			1150			1150			
Weight IU	t	5.4			6			7.1			8(12.6 <sup>④</sup> )			13.1			14.5			

① Values for polystyrene

② Theoretical values: at min. 80% injection pressure

③ SHV1 standard / SHV2 option

Subject to technical alterations

④ in combination with CU 1600 & 1800

⑤ in combination with CU 2100 & 2400

t-win Clamping Unit			
		t-win 21000	t-win 24000
Clamping force	kN	21000	24000
Opening force with pressure pad	kN	1350	1600
Opening force with moving cylinder	kN	614	614
Opening stroke	mm	3000	3000
Mold height min	mm	800	800
Mold height max	mm	1800	1800
Total daylight max.	mm	3800	3800
Platen size hor. x vert.	mm	2520x2220	2680x2420
Distance between tie bar hor. x vert.	mm	1920x1480	2020x1620
Mold weight max.	kg	50000	62000
Ejector stroke	mm	400	500
Ejector force forward/return	kN	385/168	420/184
Dry operation (Euromap 6) time	sec	6.9	7.9
Dry operation (Euromap 6) stroke	mm	1250	1400
Weight CU	t	80	88

t-win Injection Unit				
		22000		
Screw diameter	mm	135	150	160
Screw stroke	mm	680	680	680
Injection capacity	cm <sup>3</sup>	9733	12017	13672
Screw speed	min <sup>-1</sup>	90		
L/D ratio	L / D	22		
Plasticizing rate (3 zones) <sup>①</sup>	g / s	161.4	210.8	240.6
Injection rate max. <sup>②</sup>	cm <sup>3</sup> / s	1335	1648	1875
Injection rate @ max. inj. pressure	cm <sup>3</sup> / s	1031	1272	1448
Injection pressure	bar	2070	1677	1474
Injection pressure max.	bar	2200	1850	1626
Nozzle stroke	mm	1100		
Nozzle contact force	kN	150		
Heating wattage (incl. nozzle)	kW	76	86	91
Heating zones (incl. nozzle)		7	7	7
Drive power SHV1/SHV2 <sup>③</sup>	kW	2x78/2x95		
Oil reservoir capacity	l	1550		
Weight IU	t	19.6		

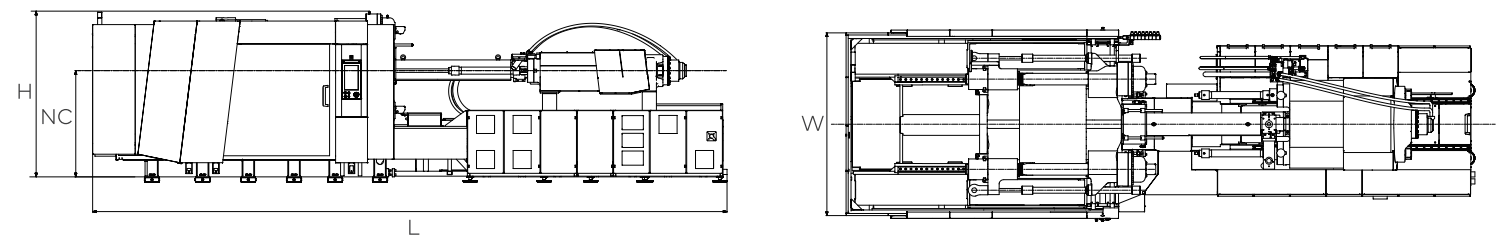
① Values for polystyrene

② Theoretical values: at min. 80% injection pressure

③ SHV1 standard / SHV2 option

Subject to technical alterations

t-win Injection Unit	2000	3300	4800	7000	11000	15000	22000
Screw Diameter mm	55 60 70	60 70 80	70 80 90	80 90 105	90 105 120	105 120 135 150	135 150 160
t-win 4500							
t-win 6500							
t-win 8500							
t-win 9500							
t-win 10500							
t-win 14000							
t-win 16000							
t-win 18000							
t-win 21000							
t-win 24000							



t-win Machine Dimensions					
Clamping unit	Injection unit	Length(L) mm	Width(W) mm	Height(H) mm	Height nozzle center (NC) mm
t-win 4500	2000/3300	7200	2300	2400	1400
t-win 6500	2000/3300	7600	2700	2400	1400
	4800/7000	8800			
t-win 8500	3300	7700	2700	2400	1500
	4800/7000	8900			
t-win 9500/t-win 10500	11000	9900	3000	2600	1500
	4800/7000	9400			
t-win 14000	11000/15000	10400	3100	2800	1700
	4800/7000	9800			
t-win 16000/t-win 18000	7000	11500	3600	3100	1800
	11000/15000	11500			
	22000	13050			
t-win 21000/t-win 24000	11000/15000	13450	4250	3400	2000
	22000	14620			