

Management system as per

ISO 9001: 2015
ISO 14001: 2015



Website



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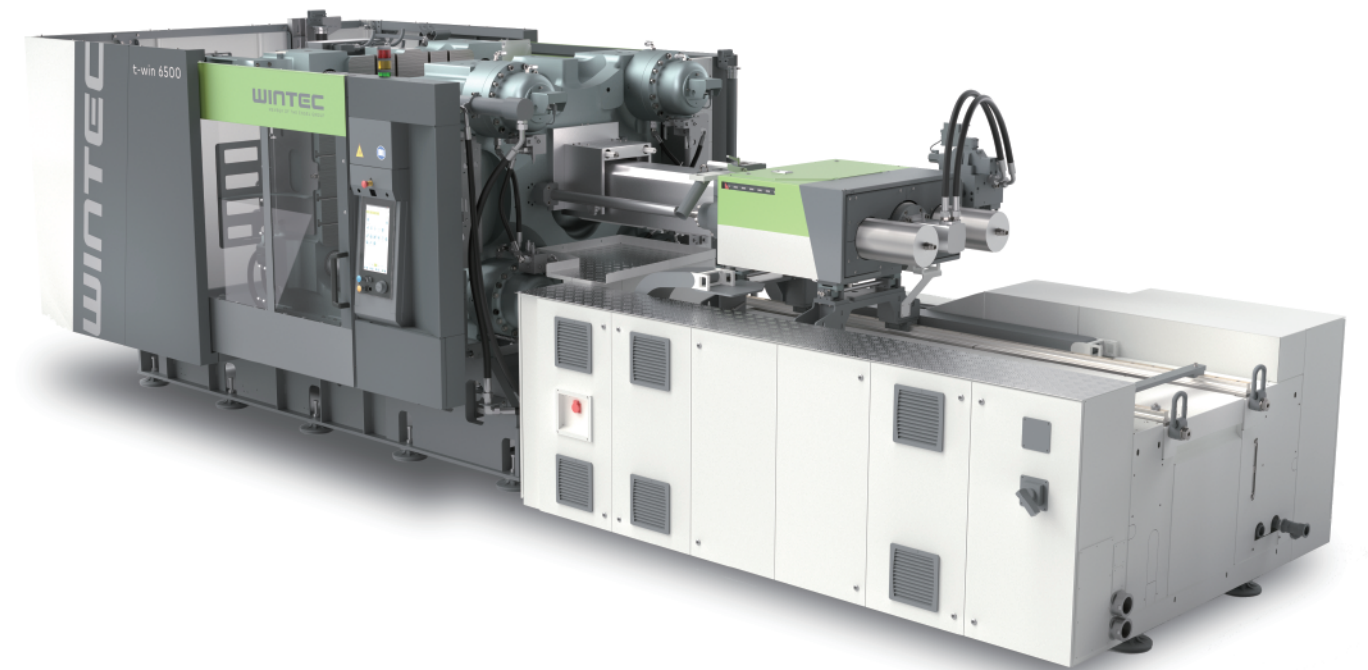
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WINTEC
MEMBER OF THE ENGEL GROUP

t-win

HYDRAULIC TWO PLATEN INJECTION MOLDING MACHINE



Production Locations



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.

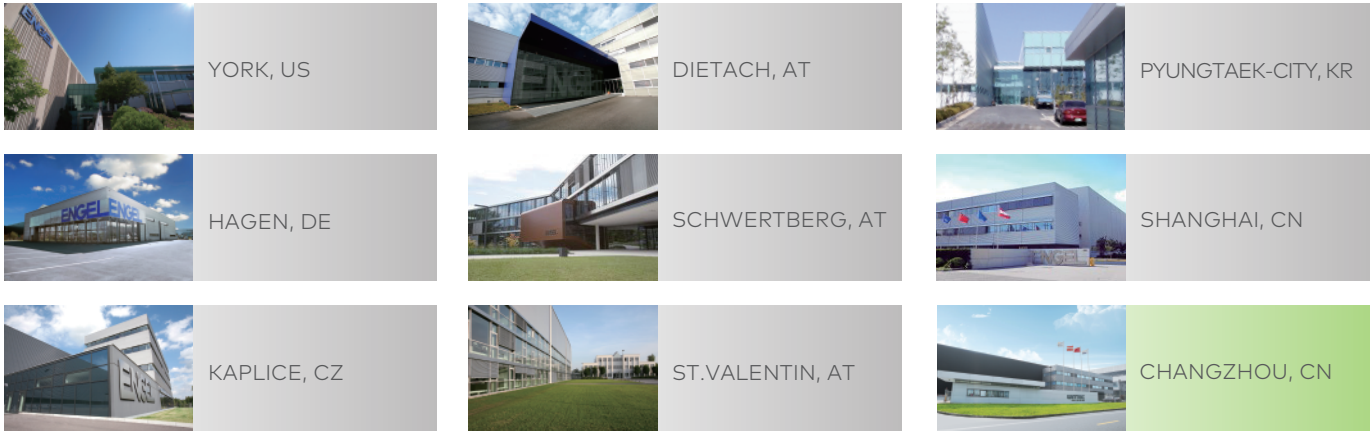
At the same time, WINTEC relies on the strength of its parent company and its comprehensive global sales and service network to provide fast and effective after-sales support while ensuring the quality of its products, making it a reliable partner for your successful international development.

ENGEL GROUP

9 PRODUCTION PLANTS

30 SUBSIDIARIES

60 REPRESENTATIVES





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 rollout to Europe in 2020. 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.

**Jan
2013**

Groundbreaking ceremony for the new WINTEC plant

**Jul
2014**

First machine delivered to Chinese customers

2016

**Jun
2016**

WINTEC rollout to Middle East, Africa and Southeast Asia

2018

**May
2018**

WINTEC rollout to Americas

2020

**Oct
2020**

WINTEC rollout to Europe

**Jun
2022**

Celebration of the 1000th t-win machine delivery

2022

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.



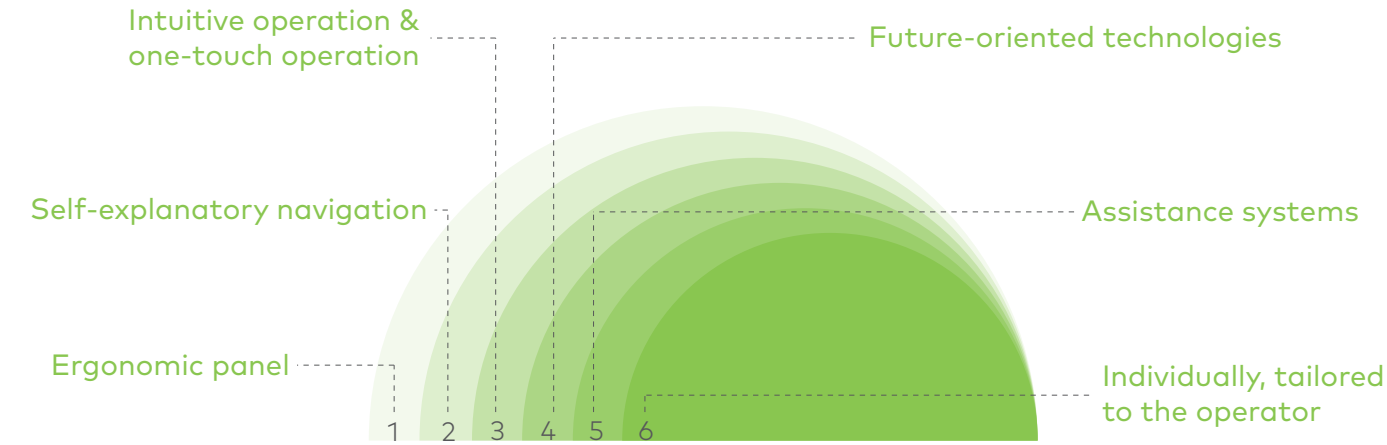
LONGER SERVICE LIFE

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.

Smart Machine



Smart Functions

iQ weight control*

Constant filling under changing conditions

Mold parallelism measurement

Mold parallelism measurement and clamping force optimization

Mold protection*

Precision monitoring during the whole injection molding process

ecograph*

Display of energy consumption for last and current cycle.

ecobalance*

Intercept of power peaks and uniform distribution of the total energy demand across the cycle.

Micrograph

Recording process parameters for quality control purposes that helps you analyze, optimize and monitor the process.

Autoprotect injection monitoring*

Self-learning system for highly sensitive mold protection during injection.

Program parameter limits*

Specifying the input range for up to 150 parameters individually to prevent setting of illogical or severely deviating.

e-help

Information on the most important functions and operations of a system directly at the machine.

For more options, please contact regional sales.
*Optional functions

Clamping Unit																			
		t-win 4500			t-win 5500			t-win 6500			t-win 7500			t-win 9000					
Clamping force	kN	4500			5500			6500			7500			9000					
Opening force (pressure pad)	kN	260			360			440			510			620					
Opening force (moving cylinder)	kN	156			190			190			190			393					
Opening stroke	mm	1050			1300			1350			1400			1600					
Mold height min.	mm	350			350			400			450			500					
Mold height max.	mm	850			900			950			950			1100					
Total daylight max.	mm	1400			1650			1750			1850			2100					
Platen size h x v	mm	1100 x 1190			1270 x 1260			1420 x 1370			1510 x 1440			1550 x 1520					
Dist. between tie bar h x v	mm	810 x 810			920 x 830			1040 x 910			1110 x 960			1180 x 1000					
Mold weight max.	kg	6500			8000			9500			11000			13000					
Ejector stroke	mm	250			250			250			250			300					
Ejector force	kN	105			105			105			105			195					
Dry cycle (Euromap 6) • stroke	sec • mm	2.9 • 550			3.1 • 600			3.4 • 700			3.4 • 700			4.3 • 800					
Weight CU	t	11.3			14.1			16.5			19.4			25.0					
Injection Unit																			
		1000			1500			2400			3500			4900			7800		
Screw diameter	mm	50	55	60	55	60	70	60	70	80	70	80	90	80	90	105	90	105	120
Screw stroke	mm	220			270			315			360			410			470		
Injection capacity max.	cm³	432	523	622	641	763	1039	891	1212	1583	1385	1810	2290	2061	2608	3550	2990	4070	5316
Shot weight max. (PS)®	g	397	481	572	590	702	956	820	1115	1456	1274	1665	2107	1896	2399	3266	2751	3744	4891
Screw speed max.	min ⁻¹	280	280	280	270	270	220	220	220	175	160	160	160	145	145	145	125	125	125
L/D ratio (3-zone screw)	L/D	20			20			20			22			22			22		
Plasticizing rate (3-zone screw)®	g/s	41	52	60	50	63	76	51	76	84	55	77	104	70	94	138	81	119	166
L/D ratio (barrier screw)	L/D	24			24			24			25			25			25		
Plasticizing rate (barrier screw)®	g/s	43	49	57	53	61	84	53	84	86	67	94	90	85	114	123	98	145	115
Injection rate max.®	cm³/s	230	278	331	247	294	400	280	381	498	346	452	573	422	534	727	509	693	905
Injection rate @ max. injection pressure	cm³/s	177	214	254	204	243	331	223	304	397	258	337	426	327	414	563	388	528	690
Injection pressure	bar	1768	1462	1228	2013	1692	1243	2125	1561	1195	2012	1541	1217	2045	1616	1249	2138	1571	1203
Injection pressure max.	bar	2300	1900	1597	2400	2100	1543	2400	1900	1455	2300	1900	1501	2300	1900	1469	2300	1900	1455
Nozzle stroke	mm	500			500			600			630			630 (750®)			870		
Nozzle contact force	kN	75			80			80			80			80			80		
Heating wattage (incl. nozzle)	kW	15.0	16.0	18.0	18.7	20.2	23.0	20.9	24.5	28.1	30.7	35.7	40.7	35.7	40.7	48.2	42.0	50.2	55.7
Heating zones (incl. nozzle)		5	5	5	5	5	5	5	5	5	6	6	7	6	7	7	7	7	7
Driver power SHV1 /SHV2®	kW	42 / 42			42 / 42			42 / 42			55 - 78® / 55 - 69®			69 - 78® / 69			78 - 84® / 78 - 96®		
Oil reservoir capacity	l	500			500			500			750			750			1050		
Weight IU	t	5.2			5.6			6.1			7.9			7.9			13.9		

①Values for polystyrene
 ②Values for HDPE
 ③Theoretical values:at min 80% injection pressure
 ④SHV1 standard / SHV2 option
 ⑤based on clamp - injection unit combination
 All above data only applied to standard machine
 Subject to technical alterations

Clamping Unit													
		t-win 11000		t-win 13000		t-win 16000		t-win 18000		t-win 21000		t-win 24000	
Clamping force	kN	11000		13000		16000		18000		21000		24000	
Opening force (pressure pad)	kN	760		760		1000		1230		1350		1600	
Opening force (moving cylinder)	kN	393		393		476		476		614		614	
Opening stroke	mm	1800		1800		2350		2550		3000		3000	
Mold height min.	mm	600		600		700		800		800		800	
Mold height max.	mm	1200		1200		1400		1600		1800		1800	
Total daylight max.	mm	2400		2400		3050		3350		3800		3800	
Platen size h x v	mm	1690 x 1670		1850 x 1810		2200 x 1990		2420 x 2170		2540 x 2230		2720 x 2440	
Dist. between tie bar h x v	mm	1270 x 1100		1420 x 1170		1570 x 1285		1885 x 1450		1920 x 1480		2020 x 1620	
Mold weight max.	kg	17000		21000		30000		45000		50000		62000	
Ejector stroke	mm	300		300		300		300		400		500	
Ejector force	kN	230		230		260		260		385		420	
Dry cycle (Euromap 6) • stroke	sec • mm	4.9 • 900		5.2 • 1000		6.0 • 1100		6.6 • 1 300		7.2 • 1400		7.6 • 1500	
Weight CU	t	33.0		38.5		51.4		65.0		77.0		90.0	
Injection Unit													
		11600			16600			22000					
Screw diameter	mm	105	120	135	120	135	150	135	150	160	170		
Screw stroke	mm	540			610			680					
Injection capacity max.	cm³	4676	6107	7729	6899	8731	10780	9733	12017	13672	15434		
Shot weight max. (PS)®	g	4302	5618	7111	6347	8033	9918	8954	11056	12578	14200		
Screw speed max.	min ⁻¹	115	115	115	110	110	110	100	100	100	100		
L/D ratio (3-zone screw)	L/D	22			22			22					
Plasticizing rate (3-zone screw)®	g/s	109	153	205	146	196	255	178	232	267	318		
L/D ratio (barrier screw)	L/D	25			25			25					
Plasticizing rate (barrier screw)®	g/s	133	186	161	178	239	229	217	280	272	209		
Injection rate max.®	cm³/s	762	995	1260	984	1245	1537	1331	1643	1870	2111		
Injection rate @ max. injection pressure	cm³/s	597	780	988	780	988	1219	1031	1272	1448	1634		
Injection pressure	bar	2153	1648	1302	2137	1689	1368	2070	1677	1474	1305		
Injection pressure max.	bar	2300	1900	1501	2300	1900	1539	2200	1850	1626	1440		
Nozzle stroke	mm	870 (1050®)			950 (1100®)			950 (1100®)					
Nozzle contact force	kN	80			150			150					
Heating wattage (incl. nozzle)	kW	50.2	55.7	64.0	65.9	76.9	86.9	76.9	86.9	92.4	96.9		
Heating zones (incl. nozzle)		7	7	7	7	7	7	7	7	7	7		
Driver power SHV1 /SHV2®	kW	95 / 110			84 + 84 / 84 + 84			78 + 78 / 78 + 78					
Oil reservoir capacity	l	1050			1600			1600					
Weight IU	t	14.4			18.6			19.6					

®Values for polystyrene
 ®Values for HDPE
 ®Theoretical values:at min 80% injection pressure
 ®SHV1 standard / SHV2 option
 ®based on clamp - injection unit combination
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