

Management system as per

ISO 9001: 2015
ISO 14001: 2015



Website



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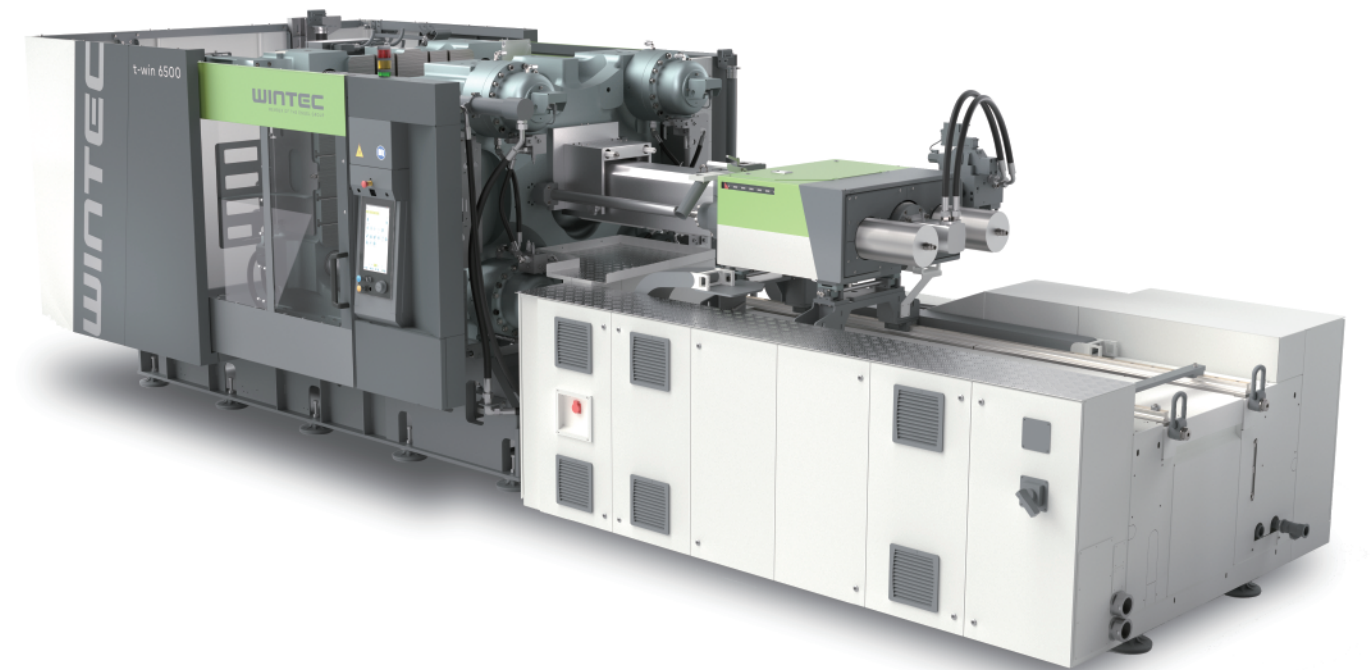
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WINTEC
MEMBER OF THE ENGEL GROUP

t-win Global

HYDRAULIC TWO PLATEN INJECTION MOLDING MACHINE



Production Locations

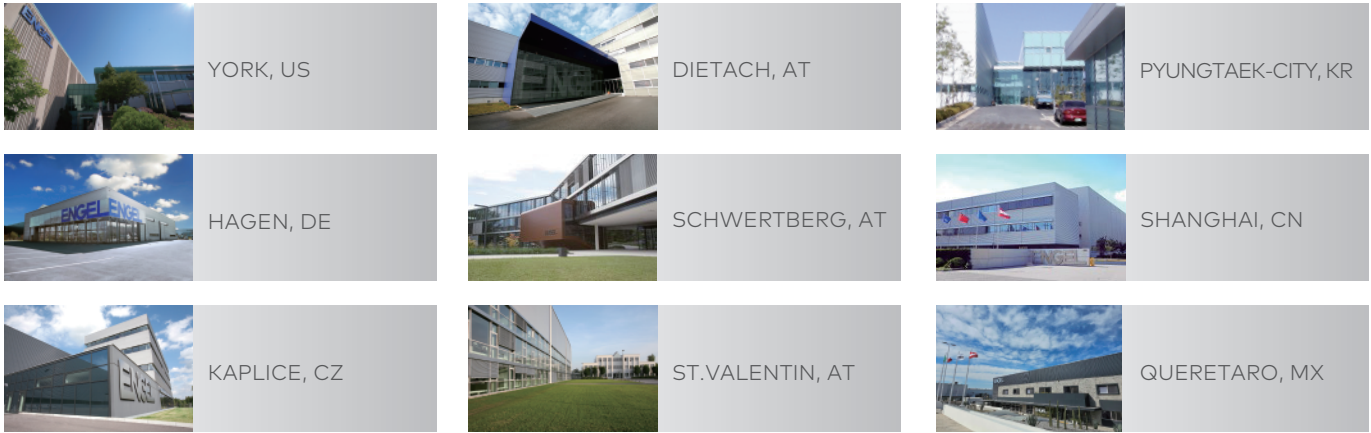


ENGEL, as the world's leading supplier of injection molding machines, represents stability and continuity in the industry. As a 100% owned subsidiary of ENGEL, WINTEC will spare no effort to create efficient and stable injection molding machines.

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

10 PRODUCTION PLANTS 30 SUBSIDIARIES 39 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

2013

**Jul
2014**

First machine delivered to Chinese customers

2014

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.



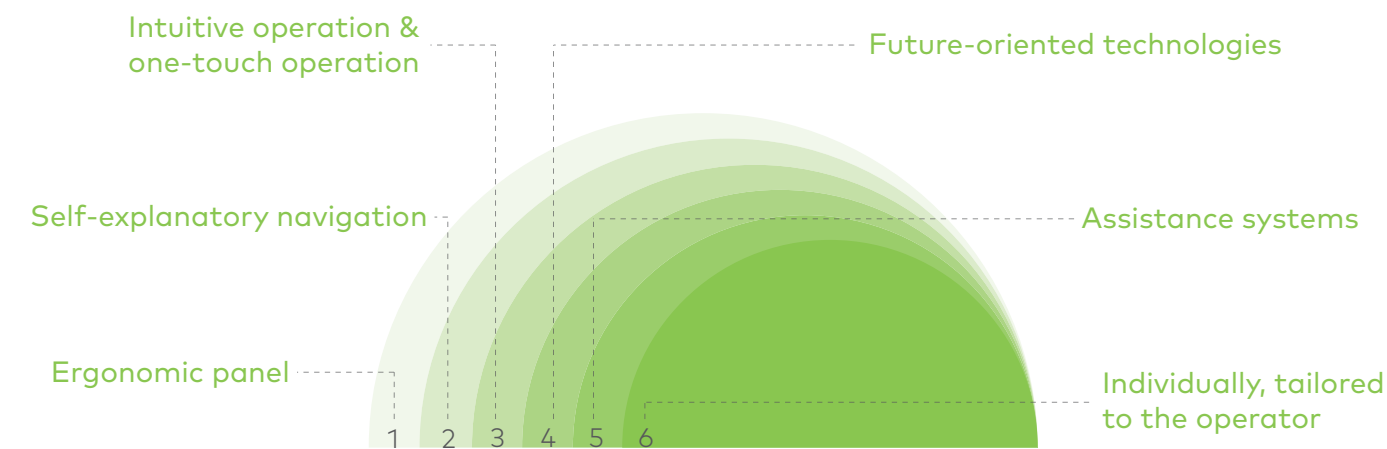
LONGER SERVICE LIFE

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/US ton	4500 / 500			5500 / 610			6500 / 720			7500 / 830			9000 / 1000		
Opening force (pressure pad)	kN/US ton	260 / 28.7			360 / 39.7			440 / 48.6			510 / 56.3			620 / 68.4		
Opening force (moving cylinder)	kN/US ton	156 / 17.2			190 / 21.0			190 / 21.0			190 / 21.0			393 / 43.4		
Opening stroke	mm/in	1050 / 41.3			1300 / 51.2			1350 / 53.1			1400 / 55.1			1600 / 63.0		
Mold height min.	mm/in	350 / 13.8			350 / 13.8			400 / 15.7			450 / 17.7			500 / 19.7		
Mold height max.	mm/in	850 / 33.5			900 / 35.4			950 / 37.4			950 / 37.4			1100 /43.3		
Total daylight max.	mm/in	1400 / 55.1			1650 / 65.0			1750 / 68.9			1850 / 72.8			2100 / 82.7		
Platen size h x v	mm/in	1100 x 1190 / 43.3 x 46.9			1270 x 1260 / 50 x 49.6			1420 x 1370 / 55.9 x 53.9			1510 x 1440 / 59.4 x 56.7			1550 x 1520 / 61.0 x 59.8		
Dist. between tie bar h x v	mm/in	810 x 810 / 31.9 x 31.9			920 x 830 / 36.2 x 32.7			1040 x 910 / 40.9 x 35.8			1110 x 960 / 43.7 x 37.8			1180 x 1000 / 46.5 x 39.4		
Mold weight max.	t/lbs	6.5 / 14330			8.0 / 17600			9.5 / 20900			11.0 / 24200			13.0 / 28600		
Ejector stroke	mm/in	250 / 9.8			250 / 9.8			250 / 9.8			250 / 9.8			300 / 11.8		
Ejector force	kN/US ton	105 / 11.5			105 / 11.6			105 / 11.6			105 / 11.6			195 / 21.5		
Dry cycle (Euromap 6) · stroke	sec • mm/in	2.9 • 550 / 21.6			3.1 • 600 / 23.6			3.4 • 700 / 27.6			3.4 • 700 / 27.6			3.9 • 800 / 31.5		
Weight CU	t/US ton	11.3 / 12.5			14.1 / 15.5			16.5 / 18.2			19.4 / 21.4			25.0 / 27.6		
Injection Unit																
		1000			1500			2400			3500			4900		
Screw diameter	mm	50	55	60	55	60	70	60	70	80	70	80	90	80	90	105
Screw stroke	mm/in	220 / 8.7			270 / 10.6			315 / 12.4			360 / 14.2			410 / 16.1		
Injection capacity max.	cm³/in³	432 / 26.3	523 / 31.9	622 / 37.9	641 / 39.1	763 / 46.6	1039 / 63.4	891 / 54.4	1212 / 74.0	1583 / 96.6	1385 / 84.5	1810 / 110.5	2290 / 139.7	2061 / 125.8	2608 / 159.1	3550 / 216.6
Shot weight max. (PS)®	g/oz.	397 / 14.0	481 / 17.0	572 / 20.2	590 / 20.8	702 / 24.8	956 / 33.7	820 / 28.9	1115 / 39.4	1456 / 51.4	1274 / 45.0	1665 / 58.8	2107 / 74.4	1896 / 67.0	2399 / 84.8	3266 / 115.4
Screw speed max.	min ⁻¹ /rpm	280	280	280	270	270	220	220	220	175	160	160	160	145	145	145
L/D ratio (3-zone screw)	L/D	20			20			20			22			22		
Plasticizing rate (3-zone screw)®	g/s oz./s	41 / 1.45	52 / 1.84	60 / 2.12	50 / 1.77	63 / 2.23	76 / 2.69	51 / 1.80	76 / 2.69	84 / 2.97	55 / 1.94	77 / 2.72	104 / 3.67	70 / 2.47	94 / 3.32	138 / 4.88
L/D ratio (barrier screw)	L/D	24			24			24			25			25		
Plasticizing rate (barrier screw)®	g/s oz./s	43 / 1.51	49 / 1.73	57 / 2.01	53 / 1.87	61 / 2.16	84 / 2.97	53 / 1.87	84 / 2.97	86 / 3.04	67 / 2.37	94 / 3.32	90 / 3.18	85 / 3.00	114 / 4.03	123 / 4.35
Injection rate max.®	cm³/s mm/s	230 / 117	278 / 117	331 / 117	247 / 104	294 / 104	400 / 104	280 / 99	381 / 99	498 / 99	346 / 90	452 / 90	573 / 90	422 / 84	534 / 84	727 / 84
Injection rate @ max. injection pressure	cm³/s mm/s	177 / 90	214 / 90	254 / 90	204 / 86	243 / 86	331 / 86	223 / 79	304 / 79	397 / 79	258 / 67	337 / 67	426 / 67	327 / 65	414 / 65	563 / 65
Injection pressure	bar/psi	1768 / 25636	1462 / 21199	1228 / 17806	2013 / 29189	1692 / 24534	1243 / 18024	2125 / 30813	1561 / 22635	1195 / 17328	2012 / 29174	1541 / 22345	1217 / 17647	2045 / 29653	1616 / 23432	1249 / 18111
Injection pressure max.	bar/psi	2300 / 33350	1900 / 27550	1597 / 23157	2400 / 34800	2100 / 30450	1543 / 22374	2400 / 34800	1900 / 27550	1455 / 21098	2300 / 33350	1900 / 27550	1501 / 21765	2300 / 33350	1900 / 27550	1469 / 21301
Nozzle stroke	mm/in	500 / 19.69			500 / 19.69			600 / 23.62			630 / 24.80			630 (750®) / 24.80 (29.53®)		
Nozzle contact force	kN/US ton	75 / 8			80 / 9			80 / 9			80 / 9			80 / 9		
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
Heating zones (incl. nozzle)		5	5	5	5	5	5	5	5	5	6	6	7	6	7	7
Driver power SHV1 / SHV2®	kW	42 / 42			42 / 42			42 / 42			55 - 78® / 55 - 69®			69 - 78® / 69		
Oil reservoir capacity	l/gal	500 / 132			500 / 132			500 / 132			750 / 198			750 / 198		
Weight IU	t/US ton	5.2 / 5.7			5.6 / 6.2			6.1 / 6.7			7.9 / 8.7			7.9 / 8.7		

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/US ton	11000 / 1220			13000 / 1440			16000 / 1770		18000 / 1990		21000 / 2320		24000 / 2650	
Opening force (pressure pad)	kN/US ton	760 / 83.9			760 / 83.9			1000 / 110.4		1230 / 135.8		1350 / 149.0		1600 / 176.6	
Opening force (moving cylinder)	kN/US ton	393 / 43.4			393 / 43.4			476 / 52.5		476 / 52.5		614 / 67.8		614 / 67.8	
Opening stroke	mm/in	1800 / 70.9			1800 / 70.9			2350 / 92.5		2550 / 100.4		3000 / 118.1		3000 / 118.1	
Mold height min.	mm/in	600 / 23.6			600 / 23.6			700 / 27.6		800 / 31.5		800 / 31.5		800 / 31.5	
Mold height max.	mm/in	1200 / 47.2			1200 / 47.2			1400 / 55.1		1600 / 63.0		1800 / 70.9		1800 / 70.9	
Total daylight max.	mm/in	2400 / 94.5			2400 / 94.5			3050 / 120.1		3350 / 131.9		3800 / 149.6		3800 / 149.6	
Platen size h x v	mm/in	1690 x 1670 / 66.5 x 65.7			1850 x 1810 / 72.8 x 71.3			2200 x 1990 / 86.6 x 78.3		2420 x 2170 / 95.3 x 85.4		2540 x 2230 / 100 x 87.8		2720 x 2440 / 107.1 x 96.1	
Dist. between tie bar h x v	mm/in	1270 x 1100 / 50 x 43.3			1420 x 1170 / 55.9 x 46.1			1570 x 1285 / 61.8 x 50.6		1885 x 1450 / 74.2 x 57.1		1920 x 1480 / 75.6 x 58.3		2020 x 1620 / 79.6 x 63.8	
Mold weight max.	t/lbs	17.0 / 37400			21.0 / 46200			30.0 / 66000		45.0 / 99000		50.0 / 110000		62.0 / 136400	
Ejector stroke	mm/in	300 / 11.8			300 / 11.8			300 / 11.8		300 / 11.8		400 / 15.7		500 / 19.7	
Ejector force	kN/US ton	230 / 25.4			230 / 25.4			260 / 28.7		260 / 28.7		385 / 42.5		420 / 46.4	
Dry cycle (Euromap 6) · stroke	sec • mm/in	4.2 • 900 / 35.4			4.6 • 1000 / 39.4			6.0 • 1100 / 43.3		6.6 • 1300 / 51.2		7.2 • 1400 / 55.2		7.6 • 1500 / 59.1	
Weight CU	t/US ton	33.0 / 36.4			38.5 / 42.4			51.4 / 56.7		65.0 / 71.7		77.0 / 84.9		90.0 / 99.2	
Injection Unit															
		7800			11600			16600			22000				
Screw diameter	mm	90	105	120	105	120	135	120	135	150	135	150	160	170	
Screw stroke	mm/in	470 / 18.5			540 / 21.3			610 / 24.0			680 / 26.8				
Injection capacity max.	cm³/in³	2990 / 182.5	4070 / 248.4	5316 / 324.4	4676 / 285.3	6107 / 372.7	7729 / 471.7	6899 / 421.0	8731 / 532.8	10780 / 657.8	9733 / 593.9	12017 / 733.3	13672 / 834.3	15434 / 941.8	
Shot weight max. (PS)®	g/oz.	2751 / 97.2	3744 / 132.3	4891 / 172.8	4302 / 152.0	5618 / 198.5	7111 / 251.2	6347 / 224.3	8033 / 283.8	9918 / 350.4	8954 / 316.4	11056 / 390.6	12578 / 444.5	14200 / 501.8	
Screw speed max.	min ⁻¹ /rpm	125	125	125	115	115	115	110	110	110	100	100	100	100	
L/D ratio (3-zone screw)	L/D	22			22			22			22				
Plasticizing rate (3-zone screw)®	g/s oz./s	81 / 2.86	119 / 4.20	166 / 5.87	109 / 3.85	153 / 5.41	205 / 7.24	146 / 5.16	196 / 6.93	255 / 9.01	178 / 6.29	232 / 8.20	267 / 9.43	318 / 11.24	
L/D ratio (barrier screw)	L/D	25			25			25			25				
Plasticizing rate (barrier screw)®	g/s oz./s	98 / 3.46	145 / 5.12	115 / 4.06	133 / 4.70	186 / 6.57	161 / 5.69	178 / 6.29	239 / 8.45	229 / 8.09	217 / 7.67	280 / 9.89	272 / 9.61	209 / 7.39	
Injection rate max.®	cm³/s mm/s	509 / 80	693 / 80	905 / 80	762 / 88	995 / 88	1260 / 88	984 / 87	1245 / 87	1537 / 87	1331 / 93	1643 / 93	1870 / 93	2111 / 93	
Injection rate @ max. injection pressure	cm³/s mm/s	388 / 61	528 / 61	690 / 61	597 / 69	780 / 69	988 / 69	780 / 69	988 / 69	1219 / 69	1031 / 72	1272 / 72	1448 / 72	1634 / 72	
Injection pressure	bar/psi	2138 / 31001	1571 / 22780	1203 / 17444	2153 / 31219	1648 / 23896	1302 / 18879	2137 / 30987	1689 / 24491	1368 / 19836	2070 / 30015	1677 / 24317	1474 / 21373	1305 / 18923	
Injection pressure max.	bar/psi	2300 / 33350	1900 / 27550	1455 / 21098	2300 / 33350	1900 / 27550	1501 / 21765	2300 / 33350	1900 / 27550	1539 / 22316	2200 / 31900	1850 / 26825	1626 / 23577	1440 / 20880	
Nozzle stroke	mm/in	870 / 34.25			870 (1050®) / 34.25 (41.34®)			950 (1100®) / 37.40 (43.31®)			950 (1100®) / 37.40 (43.31®)				
Nozzle contact force	kN/US ton	80 / 9			80 / 9			150 / 17			150 / 17				
Heating wattage (incl. nozzle)	kW	42.0	50.2	55.7	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	7	7	7	
Driver power SHV1 / SHV2®	kW	78 - 84® / 78 - 96®			95 / 110			84 + 84 / 84 + 84			78 + 78 / 78 + 78				
Oil reservoir capacity	l/gal	1050 / 277			1050 / 277			1600 / 422			1600 / 422				
Weight IU	t/US ton	13.9 / 15.3			14.4 / 15.9			18.6 / 20.5			19.6 / 21.6				

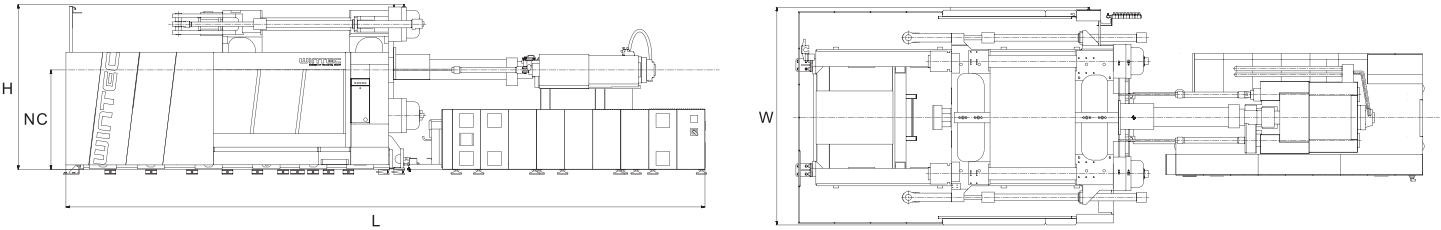
①Values for polystyrene
②Values for HDPE
③Theoretical values: at min 80% injection pressure
④SHV1 standard / SHV2 option
⑤Based on clamp - injection unit combination
All above data only applied to standard machine
Subject to technical alterations

Clamping Unit													
		t-win 27000			t-win 32000			t-win 40000					
Clamping force	kN/US ton	27000 / 3000			32000 / 3500			40000 / 4400					
Opening force (pressure pad)	kN/US ton	1600 / 176.6			2030 / 224.1			2450 / 270.4					
Opening force (moving cylinder)	kN/US ton	770 / 85.0			1005 / 110.9			1005 / 110.9					
Opening stroke	mm/in	3100 / 122.0			3100 / 122.0			3300 / 129.9					
Mold height min.	mm/in	800 / 31.5			1100 / 43.3			1100 / 43.3					
Mold height max.	mm/in	2000 / 78.7			2000 / 78.7			2200 / 86.6					
Total daylight max.	mm/in	3900 / 153.5			4200 / 165.4			4400 / 173.2					
Platen size h x v	mm/in	2770 x 2680 / 109.1 x 105.5			3010 x 2760 / 118.5 x 108.7			3380 x 2980 / 133.1 x 117.3					
Dist. between tie bar h x v	mm/in	2000 x 1800 / 78.7 x 70.9			2270 x 1900 / 89.4 x 74.8			2400 x 2000 / 94.5 x 78.7					
Mold weight max.	t/lbs	75.0 / 165000			81.0 / 178200			90.0 / 198000					
Ejector stroke	mm/in	500 / 19.7			500 / 19.7			500 / 19.7					
Ejector force	kN/US ton	420 / 46.4			420 / 46.4			420 / 46.4					
Dry cycle (Euromap 6) · stroke	sec · mm/in	7.9 · 1400 / 55.2			9.5 · 1600 / 63.0			9.9 · 1700 / 66.9					
Weight CU	t/US ton	99.6 / 109.8			122.5 / 135.1			175.0 / 192.9					
Injection Unit													
		16510			21910			43210			56910		
Screw diameter	mm	120	135	150	135	150	170	170	190	200	190	210	220
Screw stroke	mm/in	630 / 24.8			680 / 26.8			1050 / 41.3			1150 / 45.3		
Injection capacity max.	cm³/in³	7125 / 434.8	9018 / 550.3	11133 / 679.4	9733 / 593.9	12017 / 733.3	15435 / 941.9	23833 / 1454.4	29771 / 1816.7	32987 / 2013.0	32606 / 1989.7	39831 / 2430.6	43715 / 2667.7
Shot weight max. (PS)®	g/oz.	6555 / 231.6	8296 / 293.1	10242 / 361.9	8955 / 316.4	11055 / 390.6	14200 / 501.8	21926 / 774.8	27389 / 967.8	30348 / 1072.4	29997 / 1060.0	36645 / 1294.9	40218 / 1421.1
Screw speed max.	min ⁻¹ /rpm	90			90			85			70		
L/D ratio (3-zone screw)	L/D	22			22			/			/		
Plasticizing rate (3-zone screw)®	g/s oz./s	119 / 4.2	160 / 5.7	209 / 7.4	160 / 5.7	209 / 7.4	286 / 10.1	/	/	/	/	/	/
L/D ratio (barrier screw)	L/D	25			25			24			24		
Plasticizing rate (barrier screw)®	g/s oz./s	146 / 5.1	196 / 6.9	187 / 6.6	195 / 6.9	252 / 8.9	188 / 6.6	Onrequest			Onrequest		
Injection rate max.®	cm³/s mm/s	1053 / 93	1332 / 93	1645 / 93	1360 / 95	1678 / 95	2157 / 95	2043 / 90	2553 / 90	2553 / 81	2230 / 79	2730 / 79	2996 / 79
Injection rate @ max. injection pressure	cm³/s mm/s	735 / 65	930 / 65	1148 / 65	888 / 62	1096 / 62	1408 / 62	1208 / 53	1510 / 53	1673 / 53	1324 / 47	1617 / 47	1775 / 47
Injection pressure	bar/psi	1980 / 28710	1564 / 22678	1267 / 18372	1873 / 27159	1517 / 21997	1181 / 17125	1496 / 21692	1198 / 17371	1081 / 15675	1426 / 20677	1167 / 16922	1064 / 15428
Injection pressure max.	bar/psi	2300 / 33350	1830 / 26535	1482 / 21489	2200 / 31900	1824 / 26448	1420 / 20590	1815 / 26318	1453 / 21069	1311 / 19010	1745 / 25303	1429 / 20721	1302 / 18879
Nozzle stroke	mm/in	1100 (1300®) / 43.31 (51.18®)			1100 (1300®) / 43.31 (51.18®)			1100 (1300®) / 43.31 (51.18®)			1100 (1300®) / 43.31 (51.18®)		
Nozzle contact force	kN/US ton	150 / 17			150 / 17			210 / 23			210 / 23		
Heating wattage (incl. nozzle)	kW	66.4	77.4	87.4	77.4	87.4	97.4	140.0	156.0	166.0	156.0	172.0	183.0
Heating zones (incl. nozzle)		7	7	7	7	7	7	9	10	10	10	10	10
Driver power SHV1 / SHV2®	kW	140 / 140 + 55.3			156 / 156 + 55.3			188 / 188 + 55.3			220 / 220 + 55.3		
Oil reservoir capacity	l/gal	4			4			4			4		
Weight IU	t/US ton	15.6 / 17.2			16.2 / 17.9			32 / 35.3			36 / 39.7		

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

Injection Unit	1000	1500	2400	3500	4900	7800	11600	16600	22000
Screw Diameter	50 55 60	55 60 70	60 70 80	70 80 90	80 90 105	90 105 120	105 120 135	120 135 150	135 150 160 170
t-win 4500									
t-win 5500									
t-win 6500									
t-win 7500									
t-win 9000									
t-win 11000									
t-win 13000									
t-win 16000									
t-win 18000									
t-win 21000									
t-win 24000									

Injection Unit	16510	21910	43210	56910
Screw Diameter	120 135 150	135 150 170	170 190 200	190 210 220
t-win 27000				
t-win 32000				
t-win 40000				



Machine Dimensions					
Clamping Unit	Injection Unit	Length (L) mm/in	Width (W) mm/in	Height (H) mm/in	Height nozzle center (NC) mm/in
t-win 4500	1000 / 1500 / 2400	6600 / 260	2500 / 98	2500 / 98	1500 / 59
	3500	7500 / 296			
t-win 5500	1500 / 2400	7000 / 276	2500 / 98	2500 / 98	1500 / 59
	3500 / 4900	7900 / 311			
t-win 6500	1500 / 2400	7400 / 291	2700 / 106	2500 / 98	1500 / 59
	3500 / 4900	8100 / 319			
	7800	9300 / 367			
t-win 7500	2400	7600 / 299	2800 / 110	2500 / 98	1500 / 59
	3500 / 4900	8300 / 327			
	7800	9500 / 374			
t-win 9000	3500 / 4900	8900 / 350	3300 / 130	2500 / 98	1500 / 59
	7800 / 11600	10200 / 402			
t-win 11000	4900	9300 / 366	3600 / 142	2600 / 102	1700 / 67
	7800 / 11600	10600 / 417			
	16600	12000 / 472			
t-win 13000	4900	9300 / 366	3600 / 142	2700 / 106	1700 / 67
	7800 / 11600	10600 / 417			
	16600	12000 / 472			
t-win 16000	7800 / 11600	11700 / 461	3800 / 150	2900 / 114	1800 / 71
	16600 / 22000	13200 / 520			
t-win 18000	7800 / 11600	11800 / 465	4200 / 165	3100 / 122	1900 / 75
	16600 / 22000	13300 / 524			
t-win 21000	11600	12800 / 504	4400 / 173	3300 / 130	2100 / 83
	16600 / 22000	14300 / 563			
t-win 24000	11600	13000 / 512	4400 / 173	3300 / 130	2100 / 83
	16600 / 22000	14400 / 567			
t-win 27000	16510 / 21910	15456 / 609	4600 (+933) ^① / 181 (+37) ^①	3726 / 147	2250 / 89
	43210	17105 / 673			
	56910	17680 / 696			
t-win 32000	16510 / 21910	15456 / 609	4980 (+933) ^① / 196 (+37) ^①	3941 / 155	2350 / 93
	43210	17105 / 673			
	56910	17680 / 696			
t-win 40000	21910	16096 / 634	5198 (+933) ^① / 205 (+37) ^①	4230 / 167	2500 / 98
	43210	17755 / 699			
	56910	18330 / 722			

①Values for operation platform width
Subject to technical alterations

Memo

Memorandum