



**TAI - MEX**

Super big tie bar space and clamping stroke

Faster heating and, precise temperature control

Super big eject stroke

With big diagonal type clamping unit design, easy mould open and the clamping unit running fast and smooth

Flexible front platen design, with little deformation.

Two pillar guider design. Inject fast stable & precise.

■ Modularized design, offer customers with more options.

■ Professional plasticizing units for different engineering plastics

■ Clamping unit motion analysis

■ Finite-element analysis

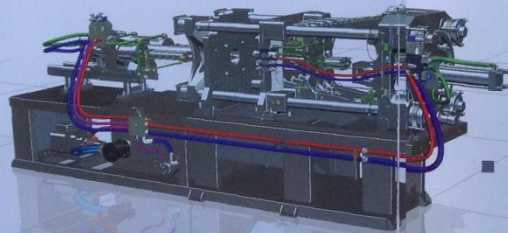
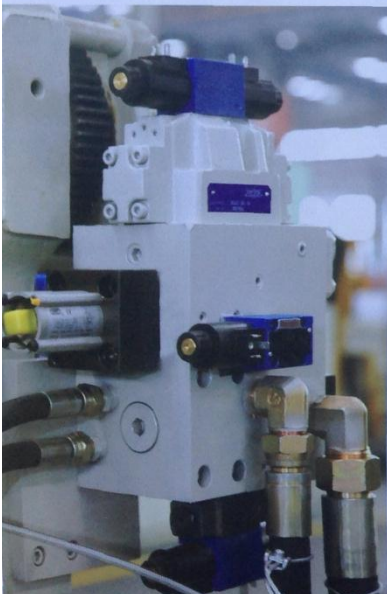
**Machine advantages**

- High-precision hydraulic oil filter system.
- Oil temperature/level instant monitoring
- High performance servo motor system, hydraulic components from world famous brands.
- Meet GB22530 and EN201 Safety Standard



**Efficient >> Clean >> Elegant >> User-friendly**

- Hydraulic routes with the fewest bends, welding and shortest route.



## Machine advantages

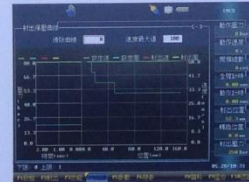


■ Save power by 30~80%, comparing with traditional hydraulic system

■ Servo motor system with quick response, response time 30~50ms.

## Power-saving >> Precise >> Professional

■ World leading servo motor system



■ Instant power-consumption monitoring and clamping force display.



■ Water & dust-proof electrical cabinets, separated cabinets for strong /weak currency, electrical components from world famous brands.

ITEMS			TTD45/100						ITEMS		Unit	TTD60/150					
			A		B		C					A		B		C	
INJECTION UNIT	Screw Diameter	mm	22		25		28		INJECTION UNIT	Screw Diameter	mm	25		28		32	
	Screw L/D Ratio	L/D	22,7		20		17,9			Screw L/D Ratio	L/D	22,4		20		17,5	
	Shot Size (Theoretical)	cm <sup>3</sup>	43		55		70			Shot Size (Theoretical)	cm <sup>3</sup>	62		78		101	
	Injection Weight	g	39		50		63			Injection Weight(ps)	g	56		71		92	
	Injection Pressure	MPa	240,4		186,2		148,4			Injection Pressure	MPa	246,4		196,4		150,4	
	Injection Rate into Air	cm <sup>3</sup> /s	59,9	89,9	77,4	116,1	97,1	145,6		Injection Rate into Air	cm <sup>3</sup> /s	58,5	87,7	73,4	110	95,8	143,7
	Injection Stroke	mm	113							Injection Stroke	mm	126					
	Injection Speed	cm/s	15.8/23.7							Injection Speed	cm/s	11.9/17.9					
	Screw Speed	rpm	246/369							Screw Speed	rpm	217/325					
CLAMPING UNIT	Clamping Force	KN	450						CLAMPING UNIT	Clamping Force	KN	600					
	Clamping Stroke	mm	330							Clamping Stroke	mm	330					
	Space Between Tie Bar	mm	320 * 320							Space Between Tie Bar	mm	320*320					
	Max. Mold Height	mm	330							Max. Mold Height	mm	330					
	Min. Mold Height	mm	120							Min. Mold Height	mm	120					
	Eject Stroke	mm	80							Eject Stroke	mm	80					
	Eject Force	KN	28							Eject Force	KN	28					
No. Of Ejector Pins	piece	5						No. Of Ejector Pins	piece	5							
OTHERS	Max. Pump Pressure	MPa	17,5						OTHERS	Max. Pump Pressure	MPa	17,5					
	Pump Motor Power	KW	9		13		Pump Motor Power	KW		9		13					
	Heater Power	KW	3,8		4,7		Heater Power	KW		4.5		5,6					
	Hopper Capacity	Kg	25							Hopper Capacity	Kg	25					
	Oil Tank Capacity	L	150							Oil Tank Capacity	L	200					
	Weight	T	2,65							Weight	T	2,7					

ITEMS		Unit	TTD80/210						ITEMS		Unit	TTD100/380					
			A		B		C					A		B		C	
INJECTION UNIT	Screw Diameter	mm	28		32		35		INJECTION UNIT	Screw Diameter	mm	35		38		42	
	Screw L/D Ratio	L/D	22,9		20		18,3			Screw L/D Ratio	L/D	21,7		20		18,1	
	Shot Size (Theoretical)	cm <sup>3</sup>	89		116		139			Shot Size (Theoretical)	cm <sup>3</sup>	168		198		242	
	Injection Weight(ps)	g	81		105		126			Injection Weight	g	153		181		221	
	Injection Pressure	MPa	251,1		192,3		160,7			Injection Pressure	MPa	227,9		193,3		158,2	
	Injection Rate into Air	cm <sup>3</sup> /s	57,4	86,1	74,9	112,4	89,7	134,5		Injection Rate into Air	cm <sup>3</sup> /s	94,9	116,7	111,8	137,6	136,6	168,1
	Injection Stroke	mm	144							Injection Stroke	mm	175					
	Injection Speed	cm/s	9.3 /14							Injection Speed	cm/s	9.9 /12.1					
	Injection Stroke	mm	144							Injection Stroke	mm	175					
	Injection Speed	cm/s	9.3 /14							Injection Speed	cm/s	9.9 /12.1					
Screw Speed	rpm	217/325						Screw Speed	rpm	225 /277							
CLAMPING UNIT	Clamping Force	KN	800						CLAMPING UNIT	Clamping Force	KN	1000					
	Clamping Stroke	mm	330							Clamping Stroke	mm	360					
	Space Between Tie Bar	mm	320*320							Space Between Tie Bar	mm	360*360					
	Max. Mold Height	mm	330							Max. Mold Height	mm	380					
	Min. Mold Height	mm	120							Min. Mold Height	mm	150					
	Eject Stroke	mm	80							Eject Stroke	mm	120					
	Eject Force	KN	28							Eject Force	KN	34					
	No. Of Ejector Pins	piece	5							No. Of Ejector Pins	piece	5					
OTHERS	Max. Pump Pressure	MPa	17,5						OTHERS	Max. Pump Pressure	MPa	17,5					
	Pump Motor Power	KW	9		13					Pump Motor Power	KW	13		16			
	Heater Power	KW	5,4		6,7					Heater Power	KW	6,6		8,2			
	Hopper Capacity	Kg	25							Hopper Capacity	Kg	25					
	Oil Tank Capacity	L	200							Oil Tank Capacity	L	250					
	Weight	T	2,8							Weight	T	3,2					

ITEMS		Unit	TTD130/510						ITEMS		Unit	TTD160/600					
			A		B		C					A		B		C	
INJECTION UNIT	Screw Diameter	mm	38		42		45		INJECTION UNIT	Screw Diameter	mm	42		45		50	
	Screw L/D Ratio	L/D	22,1		20		18,7			Screw L/D Ratio	L/D	21,4		20		18	
	Shot Size (Theoretical)	cm <sup>3</sup>	221		270		310			Shot Size (Theoretical)	cm <sup>3</sup>	287		329		406	
	Injection Weight	g	201		246		282			Injection Weight	g	261		300		370	
	Injection Pressure	MPa	232,7		190,5		165,9			Injection Pressure	MPa	212,8		185,4		150,2	
	Injection Rate into Air	cm <sup>3</sup> /s	114,3	142,9	139,7	174,6	160,3	200,4		Injection Rate into Air	cm <sup>3</sup> /s	125	156,3	143,5	179,4	177,2	221,4
	Injection Stroke	mm	195							Injection Stroke	mm	207					
	Injection Speed	cm/s	10.1 /12.6							Injection Speed	cm/s	9/11.3					
	Injection Stroke	mm	195							Injection Stroke	mm	207					
	Injection Speed	cm/s	10.1 /12.6							Injection Speed	cm/s	9/11.3					
Screw Speed	rpm	237 /296						Screw Speed	rpm	208 /260							
CLAMPING UNIT	Clamping Force	KN	1300						CLAMPING UNIT	Clamping Force	KN	1600					
	Clamping Stroke	mm	430							Clamping Stroke	mm	480					
	Space Between Tie Bar	mm	420*420							Space Between Tie Bar	mm	470*470					
	Max. Mold Height	mm	460							Max. Mold Height	mm	530					
	Min. Mold Height	mm	160							Min. Mold Height	mm	200					
	Eject Stroke	mm	120							Eject Stroke	mm	150					
	Eject Force	KN	34							Eject Force	KN	34					
	No. Of Ejector Pins	piece	5							No. Of Ejector Pins	piece	5					
OTHERS	Max. Pump Pressure	MPa	17,5						OTHERS	Max. Pump Pressure	MPa	17,5					
	Pump Motor Power	KW	16		20					Pump Motor Power	KW	16		20			
	Heater Power	KW	9,5		11,8					Heater Power	KW	10,4		12,9			
	Hopper Capacity	Kg	25							Hopper Capacity	Kg	25					
	Oil Tank Capacity	L	300							Oil Tank Capacity	L	350					
	Weight	T	4,4							Weight	T	5,2					

ITEMS		Unit	TTD200/850						ITEMS		UNIT	TTD250/1100					
			A		B		C					A		B		C	
INJECTION UNIT	Screw Diameter	mm	45		50		55		INJECTION UNIT	Screw Diameter	mm	50		55		60	
	Screw L/D Ratio	L/D	22,2		20		18,2			Screw L/D Ratio	L/D	22		20		18,3	
	Shot Size (Theoretical)	cm <sup>3</sup>	358		442		535			Shot Size (Theoretical)	cm <sup>3</sup>	497		601		715	
	Injection Weight	g	326		402		486			Injection Weight	g	452		547		651	
	Injection Pressure	MPa	237,9		192,7		159,3			Injection Pressure	MPa	224		185,1		155,6	
	Injection Rate into Air	cm <sup>3</sup> /s	139,8	174,7	172,6	215,7	208,8	261		Injection Rate into Air	cm <sup>3</sup> /s	185,5	227,6	224,5	275,4	267,2	327,8
	Injection Stroke	mm	225							Injection Stroke	mm	253					
	Injection Speed	cm/s	8.8 /11							Injection Speed	cm/s	9.5/11.6					
	Screw Speed	rpm	198/247							Screw Speed	rpm	195 /239					
	Clamping Force	KN	2000							Clamping Force	KN	2500					
Clamping Stroke	mm	540						Clamping Stroke	mm	550							
Space Between Tie Bar	mm	530*530						Space Between Tie Bar	mm	580*580							
Max. Mold Height	mm	560						Max. Mold Height	mm	600							
Min. Mold Height	mm	220						Min. Mold Height	mm	250							
Eject Stroke	mm	150						Eject Stroke	mm	160							
Eject Force	KN	67						Eject Force	KN	67							
No. Of Ejector Pins	piece	9						No. Of Ejector Pins	piece	9							
Max. Pump Pressure	MPa	17,5						Max. Pump Pressure	MPa	17,5							
Pump Motor Power	KW	20		25				Pump Motor Power	KW	25		31					
Heater Power	KW	12,8		15,9				Heater Power	KW	15,9		19,7					
Hopper Capacity	Kg	50						Hopper Capacity	Kg	50							
Oil Tank Capacity	L	400						Oil Tank Capacity	L	550							
Weight	T	6,7						Weight	T	8,2							
ITEMS		Unit	TTD300/1500						ITEMS		Unit	TTD350/1900					
			A		B		C					A		B		C	
INJECTION UNIT	Screw Diameter	mm	55		60		65		INJECTION UNIT	Screw Diameter	mm	60		65		70	
	Screw L/D Ratio	L/D	21,8		20		18,5			Screw L/D Ratio	L/D	21,7		20		18,6	
	Shot Size (Theoretical)	cm <sup>3</sup>	656		780		916			Shot Size (Theoretical)	cm <sup>3</sup>	845		992		1151	
	Injection Weight	g	597		710		833			Injection Weight	g	769		903		1047	
	Injection Pressure	MPa	229,1		192,5		164			Injection Pressure	MPa	226,3		192,8		166,3	
	Injection Rate into Air	cm <sup>3</sup> /s	222,5	266,1	264,8	316,7	310,8	371,6		Injection Rate into Air	cm <sup>3</sup> /s	225,3	269,4	264,4	316,2	306,7	366,7
	Injection Stroke	mm	276							Injection Stroke	mm	299					
	Injection Speed	cm/s	9.4/11.2							Injection Speed	cm/s	8 /9.5					
	Screw Speed	rpm	202/241							Screw Speed	rpm	163/195					
Clamping Force	KN	3000						Clamping Force	KN	3500							
Clamping Stroke	mm	650						Clamping Stroke	mm	690							
Space Between Tie Bar	mm	630*630						Space Between Tie Bar	mm	680*680							
Max. Mold Height	mm	650						Max. Mold Height	mm	700							
Min. Mold Height	mm	250						Min. Mold Height	mm	280							
Eject Stroke	mm	160						Eject Stroke	mm	160							
Eject Force	KN	67						Eject Force	KN	67							
No. Of Ejector Pins	piece	13						No. Of Ejector Pins	piece	13							
Max. Pump Pressure	MPa	17,5						Max. Pump Pressure	MPa	17,5							
Pump Motor Power	KW	31		37				Pump Motor Power	KW	31		37					
Heater Power	KW	19,2		23,8				Heater Power	KW	24,7		30,6					
Hopper Capacity	Kg	50						Hopper Capacity	Kg	50							
Oil Tank Capacity	L	700						Oil Tank Capacity	L	750							
Weight	T	9,8						Weight	T	12							

ITEMS		Unit	TTD400/2500						ITEMS		Unit	TTD450/3200					
			A		B		C					A		B		C	
INJECTION UNIT	Screw Diameter	mm	65		70		75		INJECTION UNIT	Screw Diameter	mm	70		75		80	
	Screw L/D Ratio	L/D	23,7		22		20,5			Screw L/D Ratio	L/D	23,6		22		20,6	
	Shot Size (Theoretical)	cm <sup>3</sup>	1161		1347		1546			Shot Size (Theoretical)	cm <sup>3</sup>	1516		1741		1980	
	Injection Weight	g	1057		1226		1407			Injection Weight	g	1380		1584		1802	
	Injection Pressure	MPa	221,8		191,3		166,6			Injection Pressure	MPa	212,1		184,8		162,4	
	Injection Rate into Air	cm <sup>3</sup> /s	270	337	313	391	359	449		Injection Rate into Air	cm <sup>3</sup> /s	353	436	405	501	461	570
	Injection Stroke	mm	350							Injection Stroke	mm	394					
	Injection Speed	cm/s	8.1/10.2							Injection Speed	cm/s	9.2/11.3					
	Screw Speed	rpm	166 /208							Screw Speed	rpm	197/244					
CLAMPING UNIT	Clamping Force	KN	4000						CLAMPING UNIT	Clamping Force	KN	4500					
	Clamping Stroke	mm	750							Clamping Stroke	mm	800					
	Space Between Tie Bar	mm	730*730							Space Between Tie Bar	mm	780*780					
	Max. Mold Height	mm	750							Max. Mold Height	mm	780					
	Min. Mold Height	mm	280							Min. Mold Height	mm	300					
	Eject Stroke	mm	200							Eject Stroke	mm	200					
	Eject Force	KN	124							Eject Force	KN	124					
	No. Of Ejector Pins	piece	13							No. Of Ejector Pins	piece	17					
OTHERS	Max. Pump Pressure	MPa	17,5						OTHERS	Max. Pump Pressure	MPa	17,5					
	Pump Motor Power	KW	36			45				Pump Motor Power	KW	45			56		
	Heater Power	KW	26,4			32,7				Heater Power	KW	31,5			39,1		
	Hopper Capacity	Kg	50							Hopper Capacity	Kg	50					
	Oil Tank Capacity	L	800							Oil Tank Capacity	L	850					
	Weight	T	14,4							Weight	T	16,5					

**TEDERIC** 泰瑞机器



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