

TEDERIC 泰瑞机器



TAI - MEX

Maquinas Inyectoras Hbridas de 45Tons. a 6,000 Tons.



Mechanical feature

Clamping:

- Minimizing mold strain by flexible fixed platen and highly rigid clamping structure with ultra capability of self lock.
- Superior parallelism and preciseness precedes the standard in industry based on the platen and toggle which are processed by machinery imported from JAPAN.
- Appropriate for production with deep cavity and utilization of robot arm by enlarged tie bar interval and clamping stroke design, which is also for universal employment.
- Angle-increased diagonal design.
- Extra eject stroke with reverse redrawing function for ejection
- Rationalized localization of moving platen supporter and increased loading capacity of moving platen(hydrostatic supporter applied for IMM with clamping force $\geq 700t$)

Injection:

- Antifriction by reducing the diameter of guide pillar.
- Enhanced rigidity by integral casting unit carrier
- More speedy, steady and accurate injection with supporter of basement for dual guide pillar

Hydraulic:

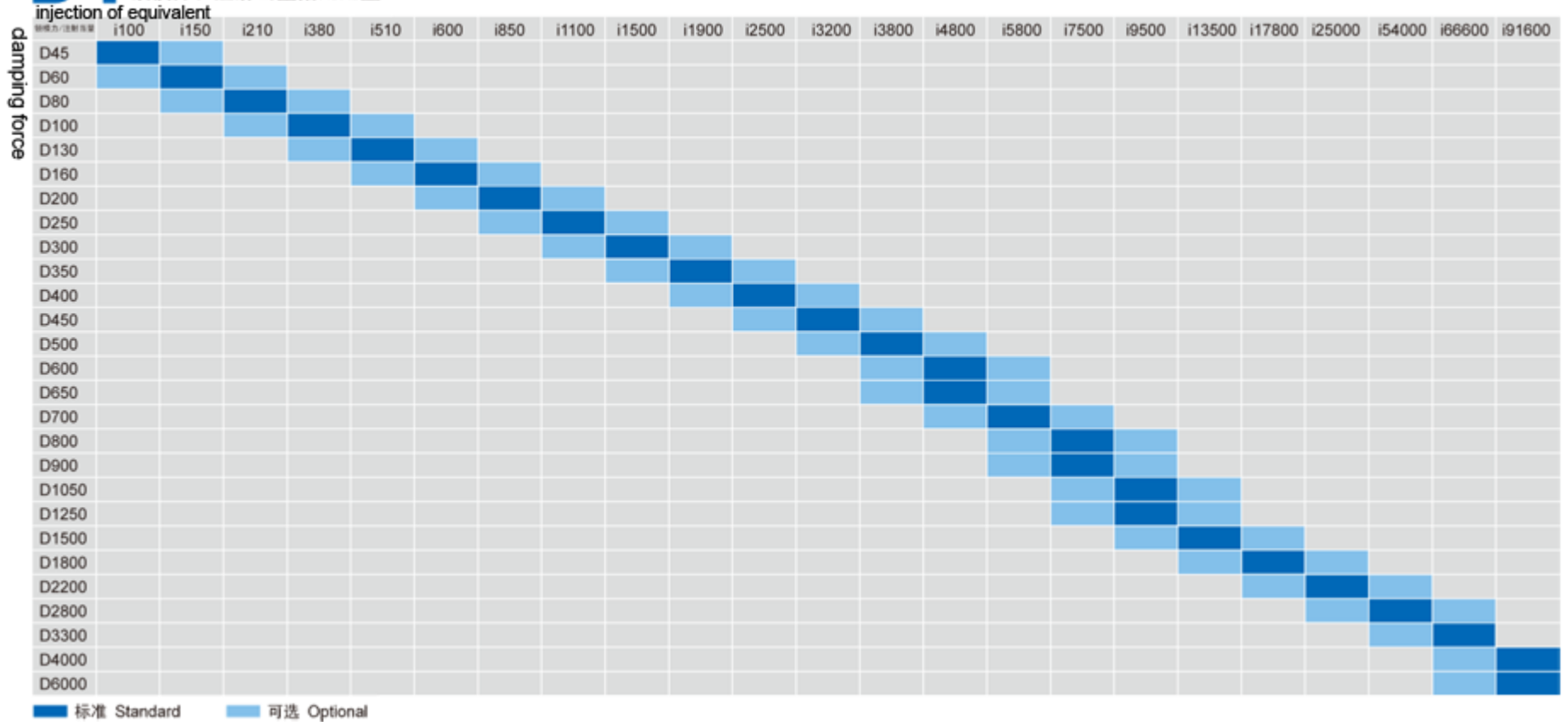
- GB22530 and EN201 safety standard
- Advanced piping design
- Hydraulic components from world brand

Electrical:

- Alternative controllers, such as GEFTRAN, TECHMATION, KEBA etc.
- Transducer within standard configuration
- Aluminized fadeless heater bands, excellent solution for the problem of voltage unbalance between power phases while reducing the current to extend the service life of heater bands.
- Isolated arrangement for Elv(extra-low voltage) and high voltage
- Sophisticated electrical components
- Qualified for electrical safety standard as CE, UL, KCS, NR12.

D-i The clamping force and injection of equivalent collocation configuration

锁模力和注射当量搭配配置



Machine Specification

ITEMS			TTD45/100						TTD60/150						TTD80/210					
			A		B		C		A		B		C		A		B		C	
INJECTION UNIT	Screw Diameter	mm	22		25		28		25		28		32		28		32		35	
	Screw L/D Ratio	L/D	22.7		20		17.9		22.4		20		17.5		22.9		20		18.3	
	Shot Size (Theoretical)	cm ³	43		55		70		62		78		101		89		116		139	
	Injection Weight	g	39		50		63		56		71		92		81		105		126	
	Injection Pressure	MPa	240.4		186.2		148.4		246.4		196.4		150.4		251.1		192.3		160.7	
	Injection Rate into Air	cm ³ /s	59.9	89.9	77.4	116.1	97.1	145.6	58.5	87.7	73.4	110	95.8	143.7	57.4	86.1	74.9	112.4	89.7	134.5
	Injection Stroke	mm	113						126						144					
	Injection Speed	cm/s	15.8/23.7						11.9/17.9						9.3 /14					
	Screw Speed	rpm	246/369						217/325						217/325					
CLAMPING UNIT	Clamping Force	KN	450						600						800					
	Clamping Stroke	mm	330						330						330					
	Space Between Tie Bar	mm	320 * 320						320*320						320*320					
	Max. Mold Height	mm	330						330						330					
	Min. Mold Height	mm	120						120						120					
	Eject Stroke	mm	80						80						80					
	Eject Force	KN	28						28						28					
No. Of Ejector Pins	piece	5						5						5						
OTHERS	Max. Pump Pressure	MPa	17.5						17.5						17.5					
	Pump Motor Power	KW	9			13			9			13			9			13		
	Heater Power	KW	3.8			4.7			4.5			5.6			5.4			6.7		
	Hopper Capacity	Kg	25						25						25					
	Oil Tank Capacity	L	150						200						200					
	Weight	T	2.65						2.7						2.8					

ITEMS		Unit	TTD100/380						TTD130/510						TTD160/600					
			A		B		C		A		B		C		A		B		C	
INJECTION UNIT	Screw Diameter	mm	35		38		42		38		42		45		42		45		50	
	Screw L/D Ratio	L/D	21.7		20		18.1		22.1		20		18.7		21.4		20		18	
	Shot Size (Theoretical)	cm ³	168		198		242		221		270		310		287		329		406	
	Injection Weight	g	153		181		221		201		246		282		261		300		370	
	Injection Pressure	MPa	227.9		193.3		158.2		232.7		190.5		165.9		212.8		185.4		150.2	
	Injection Rate into Air	cm ³ /s	94.9	116.7	111.8	137.6	136.6	168.1	114.3	142.9	139.7	174.6	160.3	200.4	125	156.3	143.5	179.4	177.2	221.4
	Injection Stroke	mm	175						195						207					
	Injection Speed	cm/s	9.9 /12.1						10.1 /12.6						9/11.3					
	Screw Speed	rpm	225 /277						237 /296						208 /260					
CLAMPING UNIT	Clamping Force	KN	1000						1300						1600					
	Clamping Stroke	mm	360						430						480					
	Space Between Tie Bar	mm	360*360						420*420						470*470					
	Max. Mold Height	mm	380						460						530					
	Min. Mold Height	mm	150						160						200					
	Eject Stroke	mm	120						120						150					
	Eject Force	KN	34						34						34					
	No. Of Ejector Pins	piece	5						5						5					
OTHERS	Max. Pump Pressure	MPa	17.5						17.5						17.5					
	Pump Motor Power	KW	13			16			16			20			16			20		
	Heater Power	KW	6.6			8.2			9.5			11.8			10.4			12.9		
	Hopper Capacity	Kg	25						25						25					
	Oil Tank Capacity	L	250						300						350					
	Weight	T	3.2						4.4						5.2					

ITEMS		Unit	TTD200/850					TTD250/1100					TTD300/1500							
			A		B		C	A		B		C	A		B		C			
INJECTION UNIT	Screw Diameter	mm	45		50		55		50		55		60		55		60		65	
	Screw L/D Ratio	L/D	22.2		20		18.2		22		20		18.3		21.8		20		18.5	
	Shot Size (Theoretical)	cm ³	358		442		535		497		601		715		656		780		916	
	Injection Weight	g	326		402		486		452		547		651		597		710		833	
	Injection Pressure	MPa	237.9		192.7		159.3		224		185.1		155.6		229.1		192.5		164	
	Injection Rate into Air	cm ³ /s	139.8	174.7	172.6	215.7	208.8	261	185.5	227.6	224.5	275.4	267.2	327.8	222.5	266.1	264.8	316.7	310.8	371.6
	Injection Stroke	mm	225					253					276							
	Injection Speed	cm/s	8.8 /11					9.5/11.6					9.4/11.2							
	Screw Speed	rpm	198/247					195 /239					202/241							
CLAMPING UNIT	Clamping Force	KN	2000					2500					3000							
	Clamping Stroke	mm	540					550					650							
	Space Between Tie Bar	mm	530*530					580*580					630*630							
	Max. Mold Height	mm	560					600					650							
	Min. Mold Height	mm	220					250					250							
	Eject Stroke	mm	150					160					160							
	Eject Force	KN	67					67					67							
No. Of Ejector Pins	piece	9					9					13								
OTHERS	Max. Pump Pressure	MPa	17.5					17.5					17.5							
	Pump Motor Power	KW	20		25		25		31		31		37							
	Heater Power	KW	12.8		15.9		15.9		19.7		19.2		23.8							
	Hopper Capacity	Kg	50					50					50							
	Oil Tank Capacity	L	400					550					700							
	Weight	T	6.7					8.2					9.8							

ITEMS		Unit	TTD350/1900						TTD400/2500						TTD450/3200					
			A		B		C		A		B		C		A		B		C	
INJECTION UNIT	Screw Diameter	mm	60		65		70		65		70		75		70		75		80	
	Screw L/D Ratio	L/D	21.7		20		18.6		23.7		22		20.5		23.6		22		20.6	
	Shot Size (Theoretical)	cm ³	845		992		1151		1161		1347		1546		1516		1741		1980	
	Injection Weight	g	769		903		1047		1057		1226		1407		1380		1584		1802	
	Injection Pressure	MPa	226.3		192.8		166.3		221.8		191.3		166.6		212.1		184.8		162.4	
	Injection Rate into Air	cm ³ /s	225.3	269.4	264.4	316.2	306.7	366.7	270	337	313	391	359	449	353	436	405	501	461	570
	Injection Stroke	mm	299						350						394					
	Injection Speed	cm/s	8 /9.5						8.1/10.2						9.2/11.3					
	Screw Speed	rpm	163/195						166 /208						197/244					
CLAMPING UNIT	Clamping Force	KN	3500						4000						4500					
	Clamping Stroke	mm	690						750						800					
	Space Between Tie Bar	mm	680*680						730*730						780*780					
	Max. Mold Height	mm	700						750						780					
	Min. Mold Height	mm	280						280						300					
	Eject Stroke	mm	160						200						200					
	Eject Force	KN	67						124						124					
No. Of Ejector Pins	piece	13						13						17						
OTHERS	Max. Pump Pressure	MPa	17.5						17.5						17.5					
	Pump Motor Power	KW	31			37			36			45			45			56		
	Heater Power	KW	24.7			30.6			26.4			32.7			31.5			39.1		
	Hopper Capacity	Kg	50						50						50					
	Oil Tank Capacity	L	750						800						850					
	Weight	T	12						14.4						16.5					

ITEMS		Unit	TTD500/3800						TTD600/4800						TTD650/4800					
			A		B		C		A		B		C		A		B		C	
INJECTION UNIT	Screw Diameter	mm	75		80		85		80		85		90		80		85		90	
	Screw L/D Ratio	L/D	23.5		22		20.7		23.4		22		20.8		23.4		22		20.8	
	Shot Size (Theoretical)	cm ³	1785		2031		2292		2242		2531		2837		2242		2531		2837	
	Injection Weight	g	1624		1848		2086		2040		2303		2582		2040		2303		2582	
	Injection Pressure	MPa	216.5		190.3		168.6		220.4		195.2		174.1		220.4		195.2		174.1	
	Injection Rate into Air	cm ³ /s	384	471	437	536	493	605	420	508	474	573	531	643	420	508	474	573	531	643
	Injection Stroke	mm	404						446						446					
	Injection Speed	cm/s	8.7/10.7						8.4 /10.1						8.4 /10.1					
	Screw Speed	rpm	157 /193						156 /189						156 /189					
CLAMPING UNIT	Clamping Force	KN	5000						6000						6500					
	Clamping Stroke	mm	840						900						940					
	Space Between Tie Bar	mm	820*820						880*880						920*920					
	Max. Mold Height	mm	800						900						940					
	Min. Mold Height	mm	320						400						400					
	Eject Stroke	mm	200						260						260					
	Eject Force	KN	124						182						182					
	No. Of Ejector Pins	piece	17						21						21					
OTHERS	Max. Pump Pressure	MPa	17.5						17.5						17.5					
	Pump Motor Power	KW	50			61			56			67			56			67		
	Heater Power	KW	37			45.9			38.6			47.9			38.6			47.9		
	Hopper Capacity	Kg	50						100						100					
	Oil Tank Capacity	L	900						1050						1050					
	Weight	T	19						23.3						25.5					

ITEMS		Unit	TTD700/5800						TTD800/7500						TTD900/7500					
			A		B		C		A		B		C		A		B		C	
INJECTION UNIT	Screw Diameter	mm	85		90		100		90		100		110		90		100		110	
	Screw L/D Ratio	L/D	23.3		22		19.8		24.4		22		20		24.4		22		20	
	Shot Size (Theoretical)	cm ³	2684		3009		3715		3276		4045		4894		3276		4045		4894	
	Injection Weight	g	2442		2738		3381		2981		3681		4454		2981		3681		4454	
	Injection Pressure	MPa	217		193.6		156.8		231.1		187.2		154.7		231.1		187.2		154.7	
	Injection Rate into Air	cm ³ /s	470	567	527	636	650	785	540	662	666	817	806	989	540	662	666	817	806	989
	Injection Stroke	mm	473						515						515					
	Injection Speed	cm/s	8.3/10						8.5 /10.4						8.5/10.4					
	Screw Speed	rpm	114 / 138						103 /126						103 /126					
CLAMPING UNIT	Clamping Force	KN	7000						8000						9000					
	Clamping Stroke	mm	980						1050						1130					
	Space Between Tie Bar	mm	960*960						1020*1020						1080*1080					
	Max. Mold Height	mm	980						1020						1100					
	Min. Mold Height	mm	400						450						500					
	Eject Stroke	mm	260						300						300					
	Eject Force	KN	182						182						182					
	No. Of Ejector Pins	piece	21						21						21					
OTHERS	Max. Pump Pressure	MPa	17.5						17.5						17.5					
	Pump Motor Power	KW	61			74			75			92			75			92		
	Heater Power	KW	44.3			54.9			55.8			69.2			55.8			69.2		
	Hopper Capacity	Kg	100						100						100					
	Oil Tank Capacity	L	1400						1400						1400					
	Weight	T	28.5						35						42					

ITEMS		Unit	TTD1050/9500				TTD1250/9500				TTD1500/13500			
			A	B	C	D	A	B	C	D	A	B	C	D
INJECTION UNIT	Screw Diameter	mm	100	110	120	130	100	110	120	130	120	130	140	150
	Screw L/D Ratio	L/D	24.2	22	20.2	18.6	24.2	22	20.2	18.6	23.8	22	20.4	19.1
	Shot Size (Theoretical)	cm ³	4320	5227	6220	7300	4320	5226.8	6220	7300	6775	7951	9221	10585
	Injection Weight	g	3931	4756	5661	6643	3931	4756.4	5661	6643	6165	7235	8391	9633
	Injection Pressure	MPa	220.2	181.9	152.9	130.3	220.2	181.9	152.9	130.3	195.6	166.6	143.7	125.2
	Injection Rate into Air	cm ³ /s	665/793	804/959	957/1142	1123/1340	665/793	804/959	957/1142	1123/1340	816	958	1111	1275
	Injection Stroke	mm	550				550				599			
	Injection Speed	cm/s	8.5/10.1				8.5/10.1				7.2			
	Screw Speed	rpm	92/110				92/110				88			
CLAMPING UNIT	Clamping Force	KN	10500				12500				15000			
	Clamping Stroke	mm	1230				1300				1520			
	Space Between Tie Bar	mm	1160*1160				1260*1260				1460*1360			
	Max. Mold Height	mm	1160				1260				1400			
	Min. Mold Height	mm	500				550				650			
	Eject Stroke	mm	350				350				350			
	Eject Force	KN	269				269				283			
	No. Of Ejector Pins	piece	21				21				25			
OTHERS	Max. Pump Pressure	MPa	17.5				17.5				16			
	Pump Motor Power	KW	88		105		88		105		105			
	Heater Power	KW	63		78.1		63		78.1		84.7			
	Hopper Capacity	Kg	100				100				200			
	Oil Tank Capacity	L	1700				1700				2500			
	Weight	T	48				56				69			

ITEMS			TTD1800/17800				TTD2200/25000				TTD2200/37000				TTD2800/54000			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
INJECTION UNIT	Screw Diameter	mm	130	140	150	160	150	160	170	180	170	180	190	200	190	200	210	220
	Screw L/D Ratio	L/D	23.7	22	20.5	19.3	23.5	22	20.7	19.6	23.3	22	20.8	19.8	23.2	22	21	20
	Shot Size (Theoretical)	cm ³	9145	10606	12176	13853	13943	15864	17909	20078	22698	25447	28353	31416	32577	36097	39797	43677
	Injection Weight	g	8322	9652	11080	12606	12688	14436	16297	18271	20655	23157	25801	28588	29645	32848	36215	39746
	Injection Pressure	MPa	194.8	168	146.3	128.6	173.4	152.4	135	120.4	163.3	145.7	130.7	118	167.1	150.8	136.8	124.6
	Injection Rate into Air	cm ³ /s	970	1125	1291	1469	1309	1490	1682	1885	1613	1803	2015	2233	1865	2066	2278	2500
	Injection Stroke	mm	689				789				1000				1149			
	Injection Speed	cm/s	7.3				7.4				7.1				6.6			
	Screw Speed	rpm	86				73				51				60			
CLAMPING UNIT	Clamping Force	KN	18000				22000				22000				28000			
	Clamping Stroke	mm	1700				1900				1900				2050			
	Space Between Tie Bar	mm	1660*1520				1800*1620				1800*1620				2000*1750			
	Max. Mold Height	mm	1560				1600				1600				1900			
	Min. Mold Height	mm	700				700				700				750			
	Eject Stroke	mm	400				400				400				470			
	Eject Force	KN	430				554				554				554			
	No. Of Ejector Pins	piece	21				29				29				29			
OTHERS	Max. Pump Pressure	MPa	16				16				16				16			
	Pump Motor Power	KW	124				149				173				205			
	Heater Power	KW	93				102				150				184.2			
	Hopper Capacity	Kg	200				200				400				400			
	Oil Tank Capacity	L	4200				4200				4500				4500			
	Weight	T	118				137				150				195			

ITEMS			TTD3300/66000				TTD4000/91600				TTD6000/91600			
			A	B	C	D	A	B	C	D	A	B	C	D
INJECTION UNIT	Screw Diameter	mm	200	210	220	230	230	240	250	260	230	240	250	260
	Screw L/D Ratio	L/D	23.1	22	21	20.1	23	22	21.1	20.3	23	22	21.1	20.3
	Shot Size (Theoretical)	cm ³	39553	43607	47859	52308	53139	57861	62783	67906	53139	57861	62783	67906
	Injection Weight	g	35993	39682	43551	47601	48357	52653	57132	61794	48357	52653	57132	61794
	Injection Pressure	MPa	171.1	155.2	141.4	129.4	172.3	158.3	145.9	134.9	172.3	158.3	145.9	134.9
	Injection Rate into Air	cm ³ /s	1821	2008	2203	2408	2675	2913	3161	3419	2675	2913	3161	3419
	Injection Stroke	mm	1259				1279				1279			
	Injection Speed	cm/s	5.8				6.4				6.4			
	Screw Speed	rpm	53				65				65			
CLAMPING UNIT	Clamping Force	KN	33000				40000				60000			
	Clamping Stroke	mm	2160				2255				4700			
	Space Between Tie Bar	mm	2200*1900				2400*2000				3200*2600			
	Max. Mold Height	mm	2000				2100				4500			
	Min. Mold Height	mm	1000				1100				2000			
	Eject Stroke	mm	560				560				600			
	Eject Force	KN	565				565				793			
	No. Of Ejector Pins	piece	33				33				41			
OTHERS	Max. Pump Pressure	MPa	16				16				16			
	Pump Motor Power	KW	205				303				303			
	Heater Power	KW	211				225				225			
	Hopper Capacity	Kg	400				400				400			
	Oil Tank Capacity	L	4500				7000				7000			
	Weight	T	275				325				600			