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CHUAN LIH FA

TX Series

Plastic Injection Molding Machine



TX Series

Plastic Injection Molding Machine

A performance-proven plastic injection molding machine with a faster injection speed, the TX Series will satisfy the demands for high productivity.

The TX Series plastic injection molding machines feature a new structural design that exhibits high injection speed.

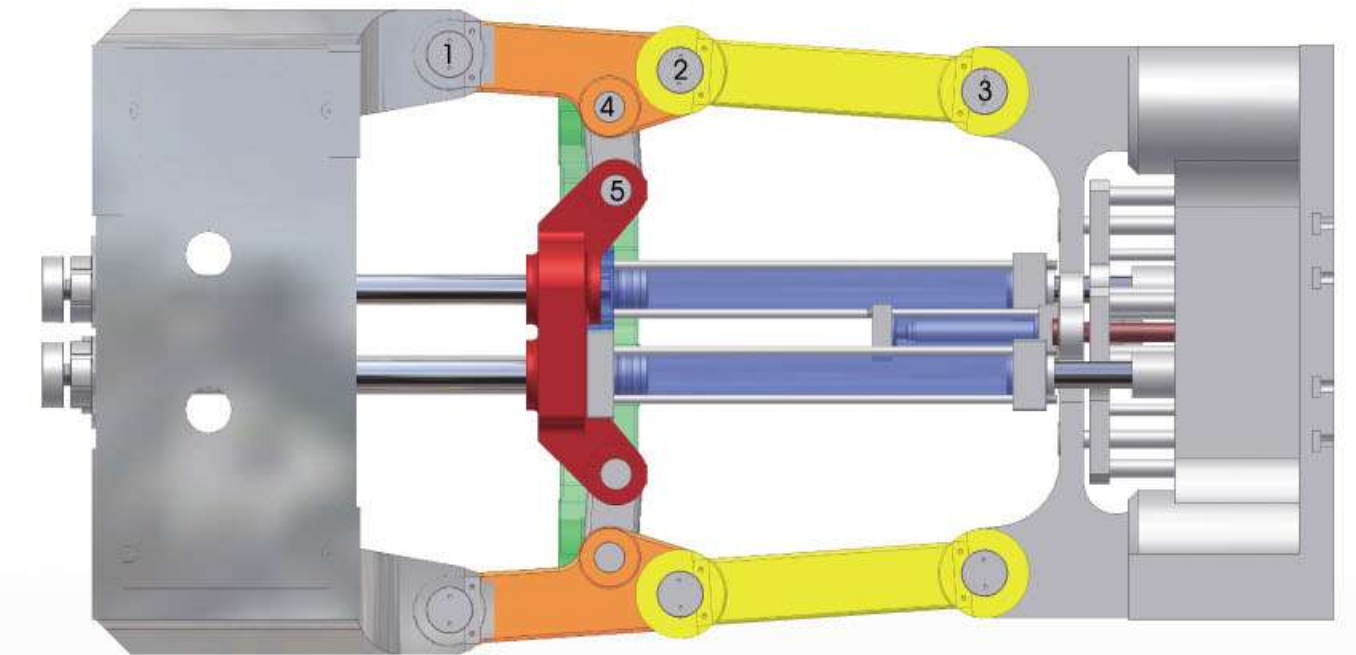


Clamping Force 60~1400 Tons
Injection Speed 100 mm/sec.



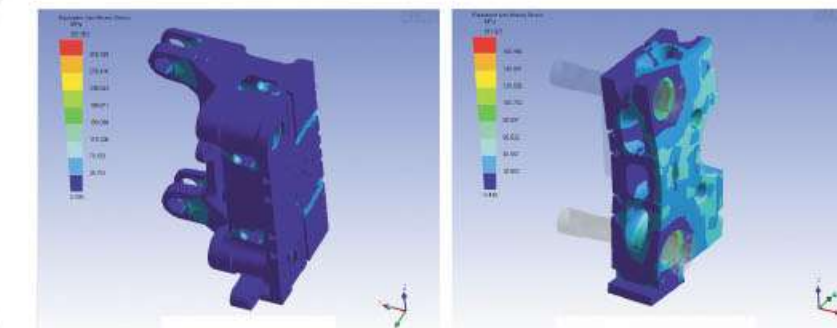
Designed with Productivity in Mind.

Optimized Clamping motion Analysis Double-cylinder Toggle Mechanism



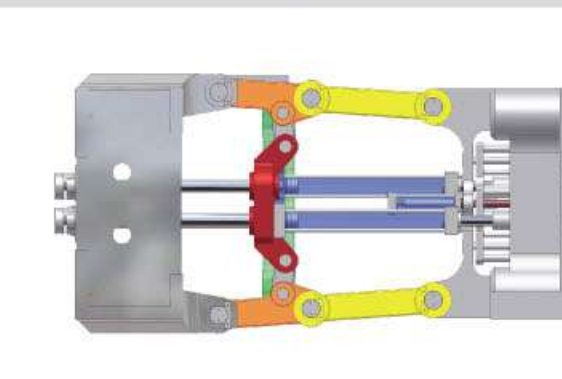
Five-point Toggle Mechanism

With the specially designed five-point toggle mechanism, faster mold clamping speed can be achieved.



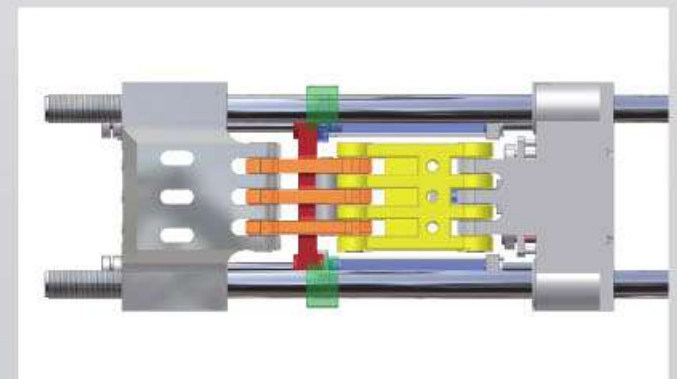
High Stiff Platen Design As A Result of Optimum CAD/CAE Analysis

The latest engineering using CAD/CAE software and Finite Element Analysis (FEA) was applied for the design of the box-structure platen. It features extremely low deformation as well as excellent strength.



Diagonal Deployment of Hydraulic Cylinders

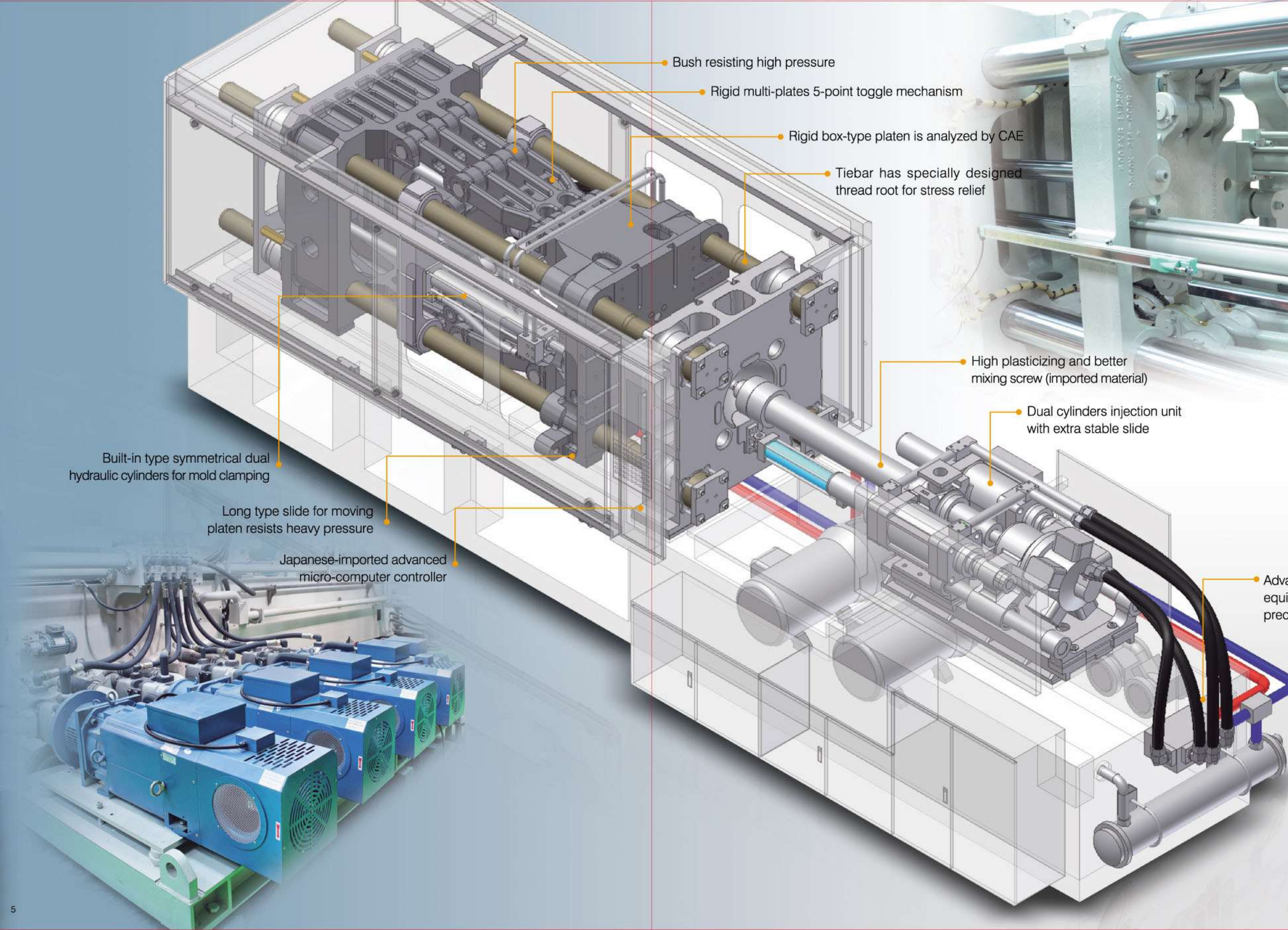
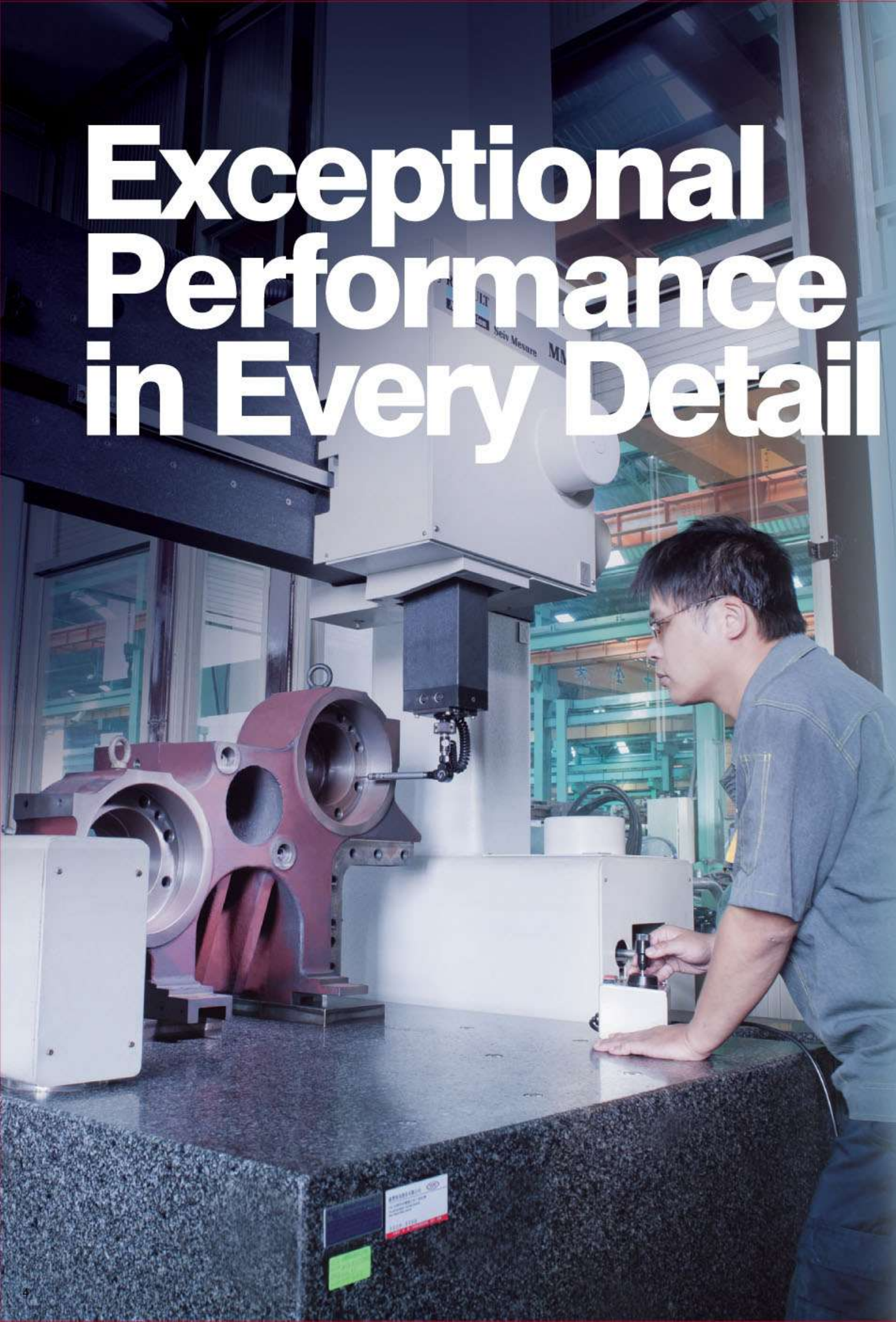
The clamping cylinders are built-in with diagonal deployment for reducing total length of molding clamping.



Robust Toggle Deployment

The toggles are connected by 4-3-4-3 plates to achieve maximum strength.

Exceptional Performance in Every Detail



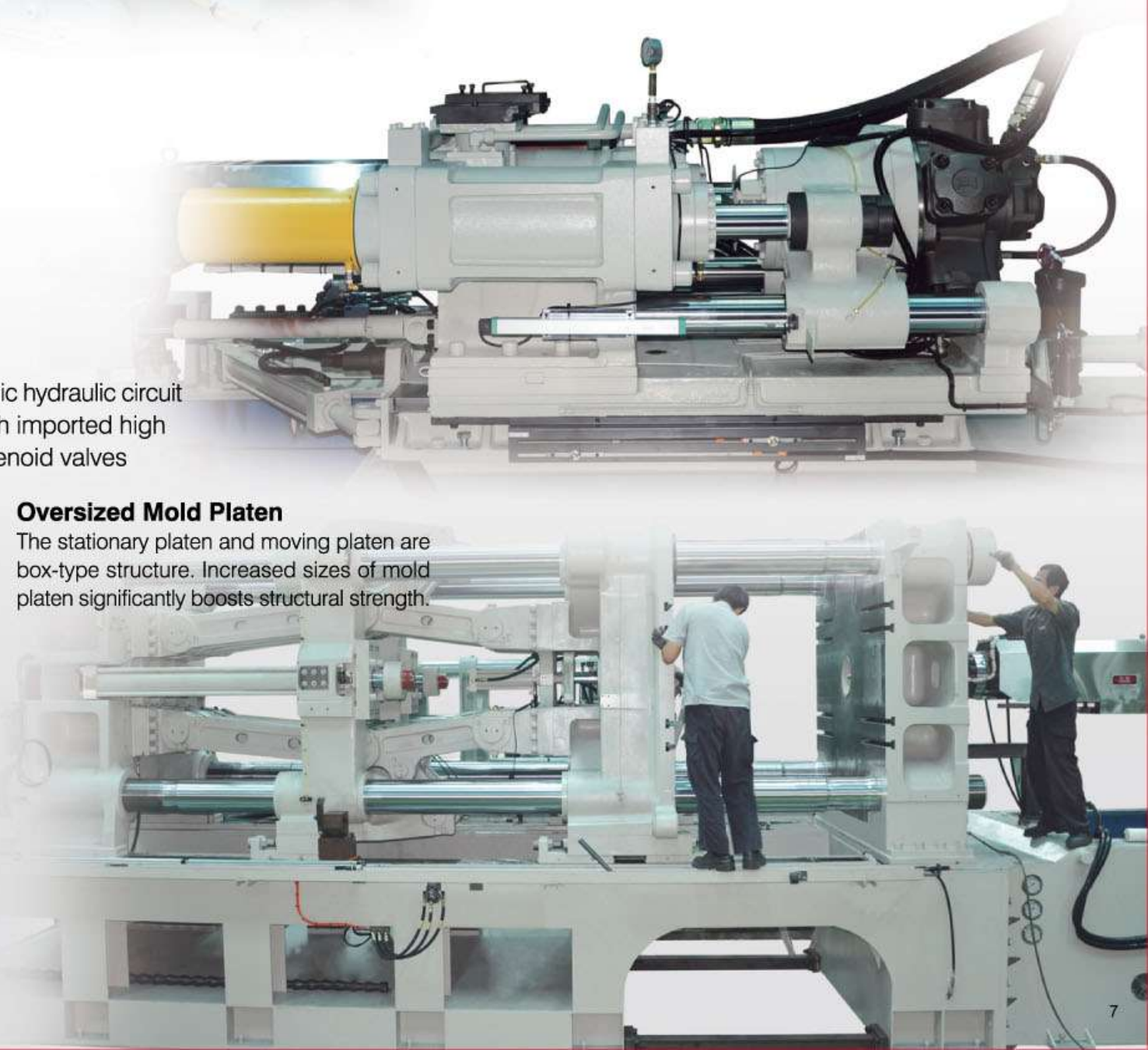
Extra Strong Tie Bars Increased Sectional Area of Tie Bars Structural Strength Surpasses Competitive Models

The tie bars and nuts are stress relieved. The curved cutting of the thread root removes stress concentration and reduces material fatigue or imbalance caused by overload, while extending the service life of the tie bars.



High Plasticizing Rate and Better Mixing Screw

Depending on the different resins required, custom design of various screws is available, such as high L/O ratio, high mixing type, shield type, dual screw type, etc. Each type of screw features high plasticizing capability, uniform temperature and homogeneity.



Oversized Mold Platen

The stationary platen and moving platen are box-type structure. Increased sizes of mold platen significantly boosts structural strength.

JD And JB Controllers Imported from Japan



These Controllers feature a color, LCD display and will enable any operator to perform a multitude of functions. The controller features include 100 sets each of molding parameter setting, data change records and alarm message record, and 45 automatic production "real data" records. Please refer to the JB and JD controller catalogues for more detailed description of their amazing functions.

MACHINE MODEL		CLF-60TX		CLF-100TX		CLF-120TX		CLF-150TX		CLF-180TX		CLF-230TX		CLF-285TX		CLF-350TX		CLF-400TX		CLF-500TX		CLF-600TX		CLF-750TX		CLF-950TX		CLF-1200TX		CLF-1400TX														
INTERNATIONAL CODE		600H-136		1000H-416		1200H-416		1500H-717		1800H-717		2300H-1000		2850H-1470		3500H-1470		4000H-2436		5000H-2436		6000H-4183		7500H-4183		9500H-6630		12000H-6630		14000H-11285														
INJECTION UNIT		UNIT																																										
Screw Diameter	mm	25	28	30	35	40	30	35	40	40	45	50	40	45	50	45	50	55	50	55	60	55	60	65	65	70	75	70	75	80	75	80	85	80	85	90	95	100	105	95	100	105	110	120
Theoretical Injection Volume	cm³	54	67	148	202	263	148	202	263	307	389	480	307	389	480	429	530	641	588	712	847	712	847	995	1095	1269	1457	1269	1457	1658	1876	2135	2410	2135	2410	2702	3542	3925	4327	3542	3925	4327	5462	6500
Injection Pressure	kg/cm²	2520	2009	2800	2057	1575	2800	2057	1575	2327	1839	1490	2327	1839	1490	2322	1881	1555	2500	2066	1736	2066	1736	1479	2226	1920	1672	1920	1672	1470	2229	1960	1736	1960	1736	1548	1872	1690	1532	1872	1690	1532	2066	1736
Injection Rate	cm³/sec	52	65	79	108	141	79	108	141	131	166	205	131	166	205	162	200	242	175	211	251	211	251	295	322	373	428	373	428	487	393	447	505	447	505	566	687	762	840	687	762	840	893	1063
Shot Weight (PS)	gram	49	60	134	182	237	134	182	237	277	351	433	277	351	433	387	478	578	531	643	764	643	764	898	988	1145	1315	1145	1315	1496	1693	1927	2175	1927	2175	2440	3197	3542	3905	3197	3542	3905	4929	5866
Screw Rotation	rpm	224			302			302			308			308			270			188			188			223			223			148			148			170			170			170
Nozzle Radius	mm	15			15			15			15			15			15			15			15			15			15			15			15			15			15			15
No. of Heating Zones	zone	4			6			6			6			6			6			6			6			8			8			9			9			10			10			12
Heating Capacity	kw	3.4			4.9			4.9			7.9			7.9			10			13.9			13.9			16.5			16.5			30			30			41.5			41.5			52.5
CLAMPING UNIT																																												
Distance Between Tie Bars (HxV)	mm	315 x 315				390 x 390		420 x 420		460 x 460		510 x 510		560 x 560		610 x 610		670 x 670		730 x 730		810 x 810		910 x 910		960 x 960		1120 x 1120		1250 x 1250		1450 x 1450												
Mold Platen	mm	485 x 485				580 x 580		630 x 630		700 x 700		765 x 765		860 x 860		940 x 940		1030 x 1030		1120 x 1120		1260 x 1260		1390 x 1390		1480 x 1480		1720 x 1720		1900 x 1900		2170 x 2170												
Mold Height	mm	100 - 320				150 - 400		150-450		150-500		150-550		200-600		200-650		200-700		250-750		300-900		300-1000		350-1100		400-1200		400-1300		400-1400												
Die Opening Stroke	mm	280				360		420		460		500		560		610		680		750		800		900		1000		1200		1300		1520												
Clamping Force	tons (kn)	60 (600)				100 (1000)		120 (1200)		150 (1500)		180 (1800)		230 (2300)		285 (2850)		350 (3500)		400 (4000)		500 (5000)		600 (6000)		750 (7500)		950 (9500)		1200 (12000)		1400 (14000)												
Dia. of Centering Ring	mm	100				100		125		125		160		160		160		160		160		200		200		200		250		250		250												
Ejector Stroke	mm	60				95		110		110		150		150		150		200		200		200		250		300		300		300		300												
Ejecting Force	tons (kn)	2.7(27)				5.4(54)		5.4 (54)		5.4 (54)		5.4 (54)		6.2 (62)		6.2 (62)		7 (70)		7 (70)		11 (110)		13.3 (133)		13.3 (133)		26.6 (266)		26.6 (266)		26.6 (266)												
GENERAL DATA																																												
Pump Driving Motor	hp (kw)	15(11)				25(18.5)		25(18.5)		30(22)		30(22)		40(30)		50(37)		50(37)		50(37)		75(56)		75(56)		100(75)		100(75)		135(100)		135(100)		195(146)										
Oil Tank Capacity	liters	270				435		435		500		500		550		800		800		800		1100		1100		1450		1450		2100		2100		3000										
Machine Size(L x W x H)	m	3.3 x 1.5 x 1.6				4.75 x 1.27 x 1.73		4.8 x 1.54 x 1.7		5 x 1.54 x 1.8		5.2 x 1.54 x 1.9		6 x 1.62 x 2.0		6.8 x 1.75 x 2.1		7.0 x 1.78 x 2.1		7.8 x 1.8 x 2.2		8.2 x 1.95 x 2.2		9.1 x 2.2 x 2.2		9.6 x 2.25 x 2.3		11.5 x 2.6 x 2.6		12 x 3.0 x 2.8		13.7 x 3.2 x 3.1												
Net Weight	tons	3.7				4.5		5.3		6.5		7.7		10		12		15		21		25		37		40		56		75		110												

• All specifications, dimensions and design characteristics shown in this catalogue are subject to change without notice.