

MIKSmax

88-668 Ton

JACHEN HSONG JACKS HISTORY JACKS H

Chen Hsong

CHEN HSONG

Unit 2001, 20th Floor, Citicorp Centre, 18 Whitfield Road, Hong Kong
 marketing@chenhsong.com
 + 852-2665-3222

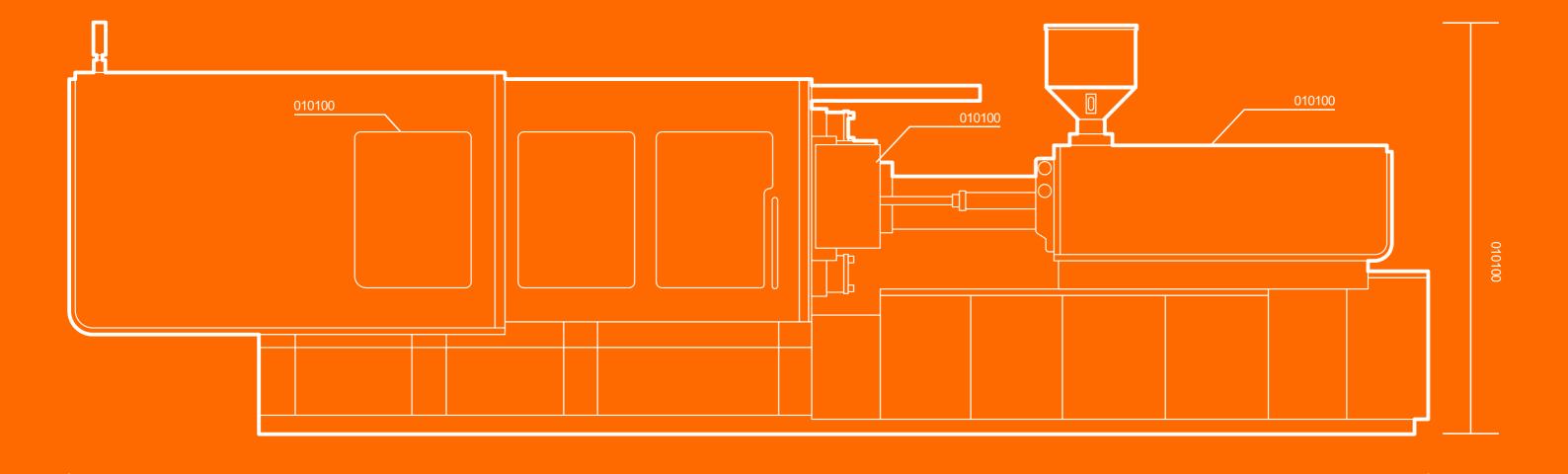
www.chenhsong.com

MK6 max (the Luxury model) Luxury Configuration for Maximum Satisfaction

The MK6 max is a new member of the world-renowned MK6 series, which was originally created by Chen Hsong and Japanese engineers through combining half a century of applications experience with top-of-the-line advanced technology and controls expertise. With "all frills included", it provides the maximum configuration, almost luxurious, to cater for all your various moulding needs.

The MK6 max starts from the solid base of the ultra-popular MK6, which was world renowned for rock-solid stability, high yields, and high efficiency, but adds on top all the "fills and options" that make your moulding tasks just so much more pleasant. It is the "luxury model" of the MK6 family.

Redefining Professionalism, Performance and Value for The Plastics Industry



010100 010100

Luxury Flagship of the Exceptional MK6 Family



Experience (65 Years Since 1958)

Over half a century of applications experience and technical expertise.

Global Reach (100+ Countries Worldwide)

The customer is king, almost literally.

For us, your needs are paramount. We exist to provide value.

Mitsubishi Worldwide Strategic Partner (since 2011)

Adopted world-leading Japanese lean manufacturing practices and the M-System (Mitsubishi quality system) to give you 100% perfect products, 100% of the time.

Half a Century of Applications Expertise, Working for You

65 years of focusing on nothing but injection moulding technology – professionalism and technical capabilities you can trust.

65 Years of Excellence Since 1958 20,000 Sets / year One of the largest manufacturers of injection moulding machines in 200+
Patented technologies

800,000 m²
of production facilities
With global presence

In Pursuit of 100% Complete Satisfaction

Your Need is our Command

































Partnership of The Titans

In 2011, Chen Hsong joined forces with Mitsubishi (Japan) to form a worldwide strategic partnership covering the full range of technical and manufacturing cooperation.

Shioda-sensei, ex-Chief Engineer of Mitsubishi, joined as technical consultant, up-lifting a complete overhaul of Chen Hsong's technical capabilities, including advanced hydraulics, mechanical design and motion control.

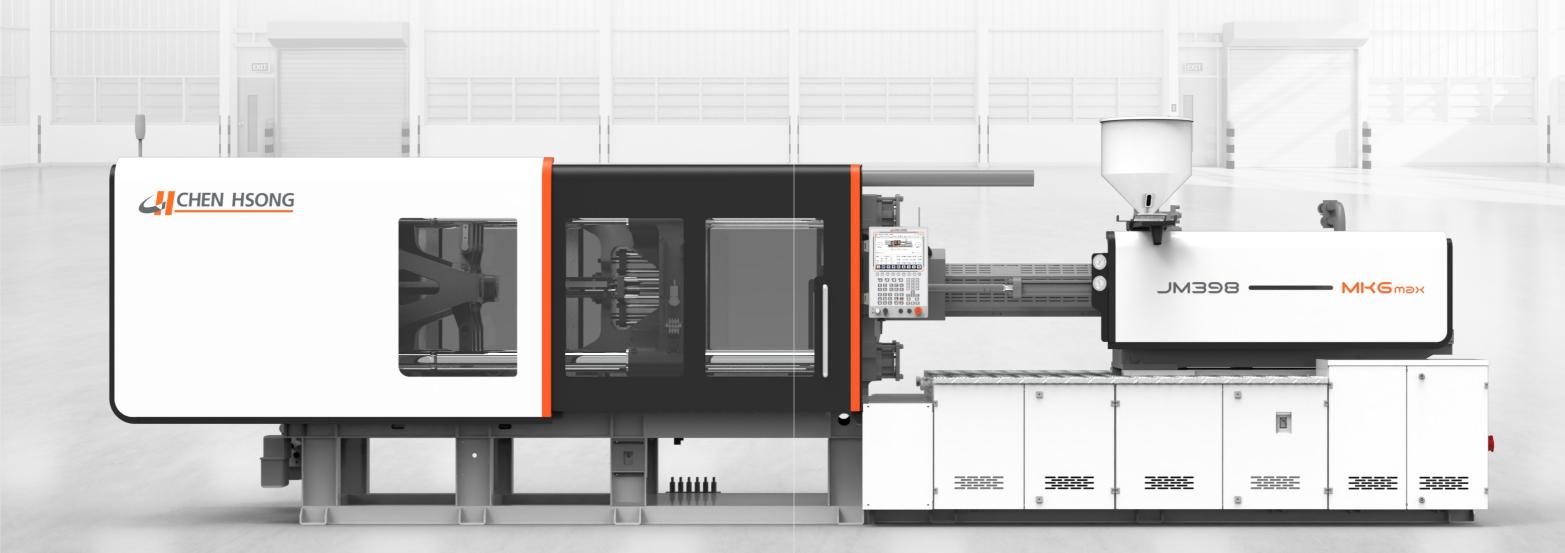
Redefining Professionalism, Performance and Value for The Plastics Industry

- 01 Luxury ergonomics 02 Luxury controller 03 Luxury configuration
- 04 Luxury specifications 05 Luxury performance 06 Luxury experience

Luxury Ergonomics

Beauty is both internal and external

- Professional ergonomics
 User-friendly and easy to operate
- Optimised structural design
 High-strength construction with rock-solid stability
- Masterpiece of industrial design
 High precision with exceptional efficiency.



12" Next-gen Intelligent Computer Controller

Advanced high-speed CPU enables lightning-fast closed-loop calculations for faster responses and higher precision.

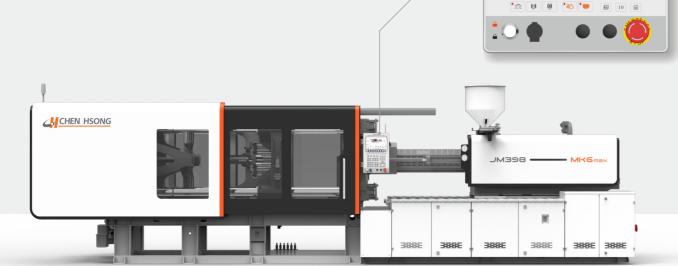
High-speed advanced CPU provides ample computing power for closed-loop calculations, leading to lightning-speed responses, ultra-high precision and repeatability.

PLC:168MHz

Mainstream Linux-based O/S with modern GUI.

HMI:1.0GHz

CPU



The Largest Features Set

All the professional features you'd ever need for demanding applications.

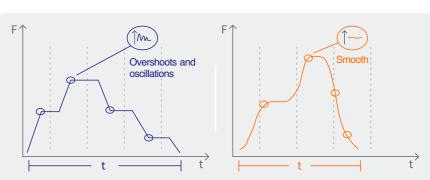
1 USB socket	2 Ethernet socket	3 Smart clamp motion control	Closed-loop injection/ejection							
5 Stored mould recipes	6 Production log	Upgrade system via USB	3 Settings change audit log							
Standardised data intercha	nge format	Rapid-setting page	Comprehensive quality monitoring							
Built-in digital oscilloscope to	to monitor any data point value	3 SPC data logs	One-touch access to pages							
Remap I/O	6 Screenshot at any time	1 Interface with auxiliaries	Freely programmable movements							
MES interface	② User control									

The Most Intelligent

With Chen Hsong's proprietary advanced Japanese motion-control algorithms, running on a top-speed CPU, the highly-intelligent automatic clamping force adjustment mechanism achieves precision within ±5% of your set-point value without any human interaction.

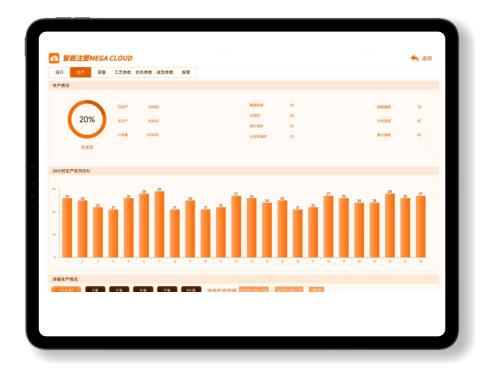
There is no longer any need to rely on expensive high-precision transducers, experienced technicians or "black arts" for fine-tuned clamping adjustments. In the end, much fewer errors are made.





Shorter cycle time and smoother clamp motion.

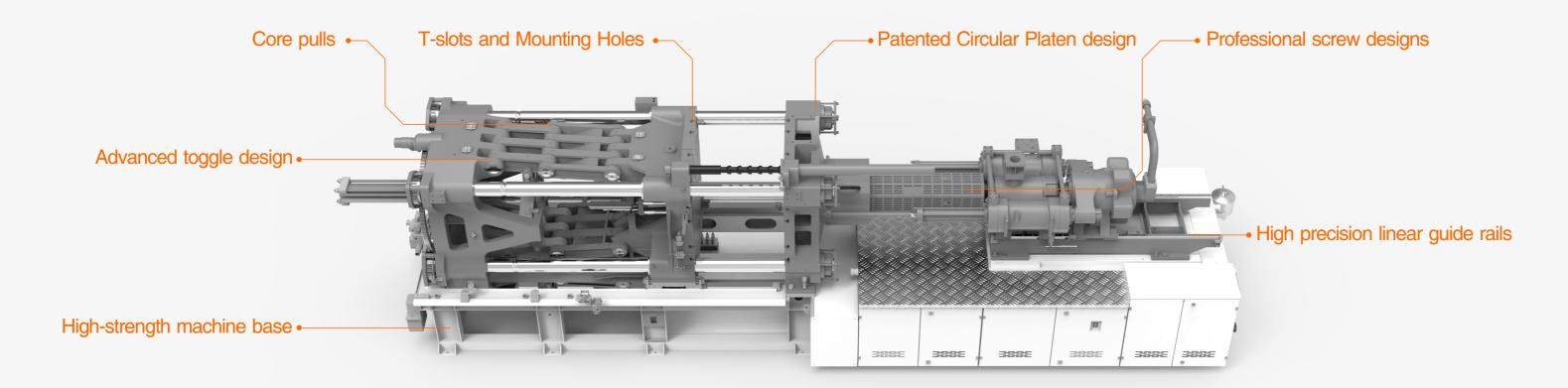
The Most Highly Connected



Easy and effective Industry 4.0 smart manufacturing, now at your fingertips, with Chen Hsong's Mega Cloud online data platform. True IOT connectivity, remote control and diagnostics, and fully networked productivity.

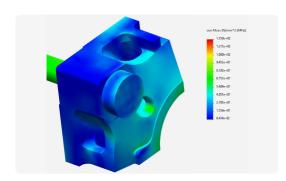
^{*} iPad visualisation interface

Luxury Components

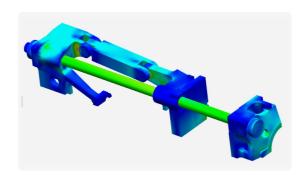


Patented Circular Platen Design

Proprietary Circular Platen design (patented) is a technological marvel perfected from years of detailed structural analysis, ensuring smooth stress distribution throughout the platen for maximum part quality and mould protection.



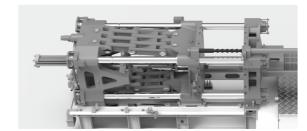
Optimised platen design has superior stress distribution, ensuring perfect part quality



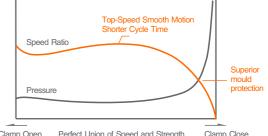
High-tensile tie-bars

Advanced Toggle Design

Professional Japanese mechanical experts took the latest and newest in toggle design and hand-fitted a motion-control profile based on large amounts of software simulation and real-life verification. This combination largely avoids unnecessary friction and shocks among mechanical components, distributes tension uniformly to all tie-bars, and ensures high degree of parallelism, in order to prevent flashes on parts and reduce toggle wear. The result is a toggle system that moves snappily, silky-smooth and with no vibrations, improving power efficiency and usage life while protecting against mould damages and unscheduled downtime.



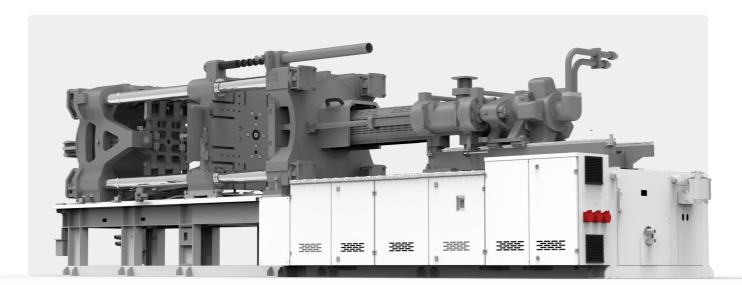
Perfect Union of Toggle Design and Hydraulics Fast and Precise



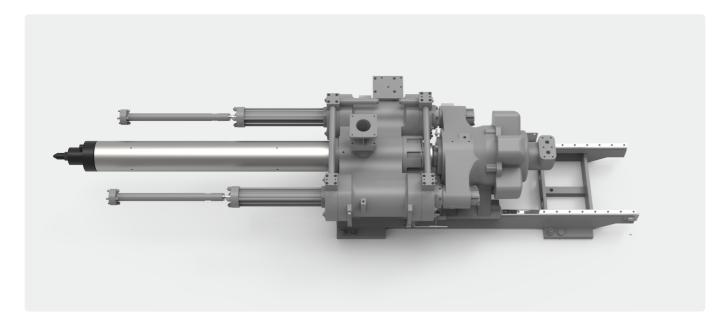
Perfect Union of Speed and Strength

High-strength Machine Base

Improved structural stability, reduced deformation and enhanced torsion resistance from thicker and stronger I-beams that make up the machine base, plus an optimised design created through high-end computer stress simulations of various loading conditions.



High Precision Linear Guide Rails



Silky-smooth – low friction

Precision – better control and accuracy leads to higher precision

Reliable – longer usage life

Stable – higher positional accuracy for higher yields

Fast – low friction enables higher speeds and better control

Luxury Configuration

Professional Screw Designs

Leveraging over 65 years of application expertise and field experience, professional screw designs are available for an amazingly wide range of applications demands and resins. There is always an optimised screw ready for your particular, unique processing needs.

Versatile mixing screw that provides the right balance of speed, melt quality and mixing capabilities.

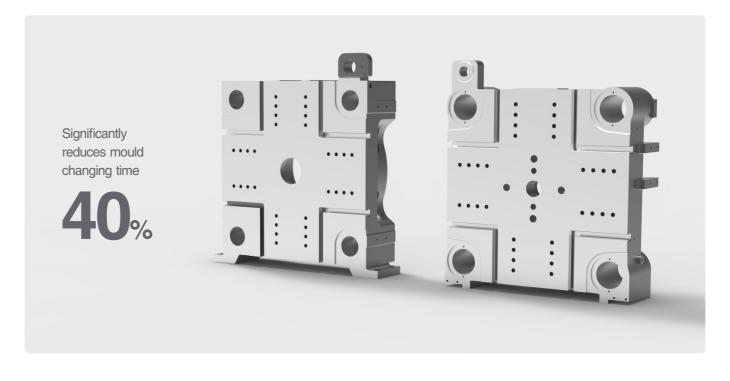


Core Pulls

Model	Core pulls
88T-208T	1 set
258T-568T	1 set plus 1 reserved slot
668T	2 sets



T-slot with Mounting Holes, Exquisite Quality



Luxury Specifications

Larger Daylight

For deeper moulds

Larger Power Pack

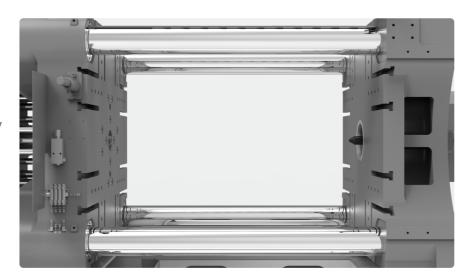
For higher speed, pressure and efficiency

Larger Space Between Tie-bars

For larger moulds

Longer Opening Stroke

For deep-cavity parts



Luxury Performance



Luxury Experience

Experience Rock-solid Stability



Only the best machining equipment (e.g. Japanese FMS's and CNC's) are good enough to produce core components for the MK6 max, which all but guarantees reliability and stability for long years of operation.

Experience Superior Yields



Your requirements are many and varied, sometimes requiring just the right combination of options and specifications for the right job. The MK6 max has it all, and you are unlikely to need anything extra in general moulding.

Experience Exceptional Productivity

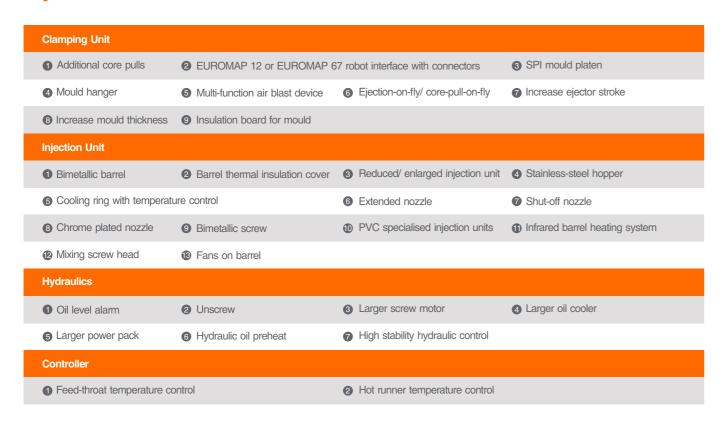


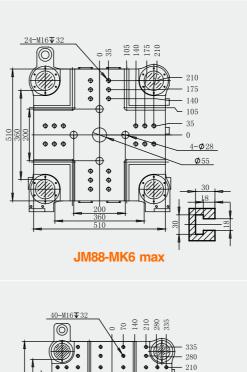
With its larger specifications and power packs, plus no-compromise configurations, the MK6 max gives you the productivity you deserve.

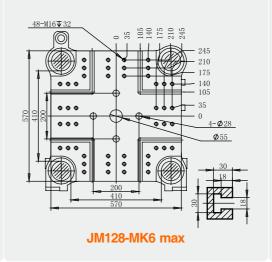
Standard Features

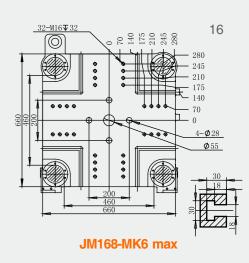
Clamping Unit			
Automatic toggle lubrication	Automatic mould thickness and	d clamping force adjustment	3 EUROMAP ejector
4 Hydraulic core pulls	Safety door with mechanical are	nd electrical safety interlock protection	6 T-slots
Adjustment-free mechanica	al safety lock	High-tensile chrome-plated tie-bar	ars
Differential boost for high-sp	peed clamping		
Injection Unit			
Nitrided screw and barrel	2 Automatic PID temperature con	ntrol (including nozzle)	3 Screw RPM display
4 Nozzle guard	6 Digital back pressure control	6 Cold start prevention	Barrel safety cover
3 Broken thermocouple detect	ction alarm	Blocked nozzle and overflow det	tection
Movable hopper	Ceramic heater		
Hydraulics			
Oil temperature control	2 Low-noise internal gear pump	High efficiency oil cooler	4 Suction and return line filter
6 Pressure controlled by serv	vo system		
Controller			
12" touch-screen panel	2 Tri-colour status indicator	3 Robot interface	

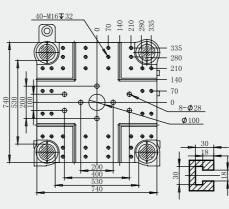
Optional Features

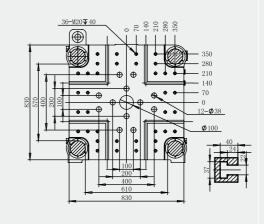


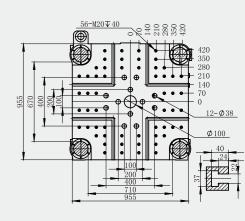








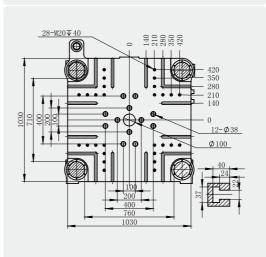


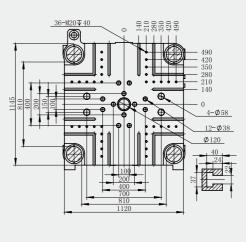


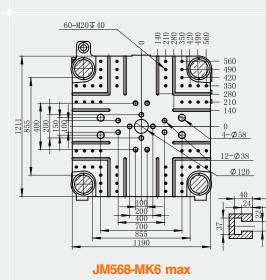
JM208-MK6 max



JM328-MK6 max

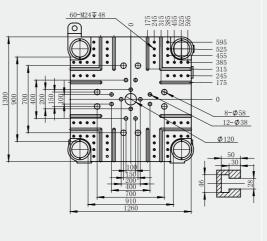






JM398-MK6 max

JM468-MK6 max



JM668-MK6 max

The company keeps upgrading the products and reserves the right to change the product specifications and parameters without prior notice. The final interpretation to the above specifications and parameters belongs to the company.

MK6 max Specifications

Injection Unit		JM8	88-MK6	max	JM12	28-MK6	max	JM168-MK6 max		max	JM208-MK6 max			JM258-MK6 max			JM32	JM328-MK6 max			JM398-MK6 max			JM468-MK6 max			JM568-MK6 max			JM668-MK6 max		
Screw Diameter	mm	31	36	41	36	41	46	41	46	52	46	52	60	52	60	67	60	67	75	67	75	83	75	83	90	75	83	90	83	90	98	
Screw L/D	L/D	24.4	21.0	18.4	23.9	21.0	18.7	23.6	21.0	18.6	23.7	21.0	18.2	24.2	21.0	18.8	23.5	21.0	18.8	23.5	21.0	19.0	23.2	21.0	19.4	23.2	21.0	19.4	23.9	22.0	20.2	
Screw Stroke	mm		180			205			230			260			300			335			375			415			415			450		
Calculated Injection Capacity	cm ³	135	183	237	208	270	340	303	382	488	431	551	734	636	847	1057	946	1180	1479	1321	1655	2027	1832	2244	2638	1832	2244	2638	2433	2861	3392	
Practical Injection Shot Weight (PS)	g	123	166	216	189	246	309	276	347	444	393	502	668	579	771	962	861	1074	1346	1202	1506	1845	1667	2042	2401	1667	2042	2401	2214	2603	3087	
	OZ	4.4	5.9	7.6	6.7	8.7	10.9	9.7	12.3	15.7	13.9	17.7	23.6	20.4	27.2	33.9	30.4	37.9	47.5	42.4	53.2	65.1	58.8	72.0	84.7	58.8	72.0	84.7	78.1	91.8	108.9	
Injection Pressure (Max.)	kgf/cm ²	2529	1875	1446	2302	1775	1410	2233	1774	1388	2295	1796	1349	2365	1777	1425	2263	1815	1448	2255	1799	1469	2165	1768	1504	2165	1768	1504	2137	1818	1533	
Injection Rate	cm³/s	96	129	167	111	144	181	160	201	257	155	199	265	192	255	318	313	391	490	323	404	495	472	578	679	472	578	679	483	568	674	
Screw Speed	r/min		250			250			250			180			183			220			178			185			180			175		
Nozzle Contact Force	ton		4.5			4.5			4.5			4.5			9			9			9			9			9			9		
Nozzle Stroke	mm		250			250			250			280			330			360			420			420			420			460		
Clamping Unit																																
Clamping Force (Max.)	ton		88			128			168		208			258		328			398			468			568			668				
Opening Stroke	mm		330			370		420		490			530			640		700			770			835			920					
Space Between Tie Bar (HxV)	mmXmm	;	360x360	0	4	410x410)	2	160x460)	530x530)	610x570		710x670		760x710			810x810			855x855			910x900					
Mould Thickness (MinMax.)	mm		130-380)		145-450)		160-520		180-550)	195-610			220-680		250-730)	275-810			330-850			350-900				
Max. Daylight Between Platens	mm		710			820			940			1040		1140			1320		1430			1580			1685			1820				
Ejector Force (Max.)	ton		2.8			4.2			4.2		6.7			7.7			7.7			11.1			11.1			16.6			18.2			
Ejector Stroke	mm		100			120			140		150			170			170			220			220			250			265			
Centre Bore	mm		100			100			125		125		125			125		160			160			160			200					
Power Pack																																
System Pressure	kgf/cm ²		175			175			175		175			175		175		175			175			175			175					
Pump Power	kW		16			19			24		24			31				60		60		80			80			80				
Barrel Heating	kW		9.4			13.5			17.1		20.7			26.3				34.3		42			49.2			49.2			59.3			
Temperature Control Zones			3+1			3+1			3+1		3+1			4+1			4+1		5+1			5+1			5+1			6+1				
Others																																
Machine Dimensions (LxWxH)	mXmXm	4.	.4x1.2x1	1.9	4.	7x1.3x2	2.0	5.	3x1.4x2	.0	5.9	9x1.5x2	2.1	6.	5x1.6x2	2.3	6.	9x1.7x2	2.4	7.8	8x1.8x2	2.3	8.	3x1.9x2	2.4	8.0	6x2.0x2	2.4	9.	6x2.2x2	5	
Oil Tank Capacity	L		160			190			240			280			400			520			690			730			730			870		

Note: PS density is calculated at 0.91g/cm³

The company keeps upgrading the products and reserves the right to change the product specifications and parameters without prior notice. The final interpretation to the above specifications and parameters belongs to the company.