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### Chen Hsong

Unit 2001, 20th Floor, Citicorp Centre, 18 Whitfield Road, Hong Kong  
[marketing@chenhsong.com](mailto:marketing@chenhsong.com)  
+ 852-2665-3222  
[www.chenhsong.com](http://www.chenhsong.com)



# MIGmax

88-668 Ton



[www.chenhsong.com](http://www.chenhsong.com)

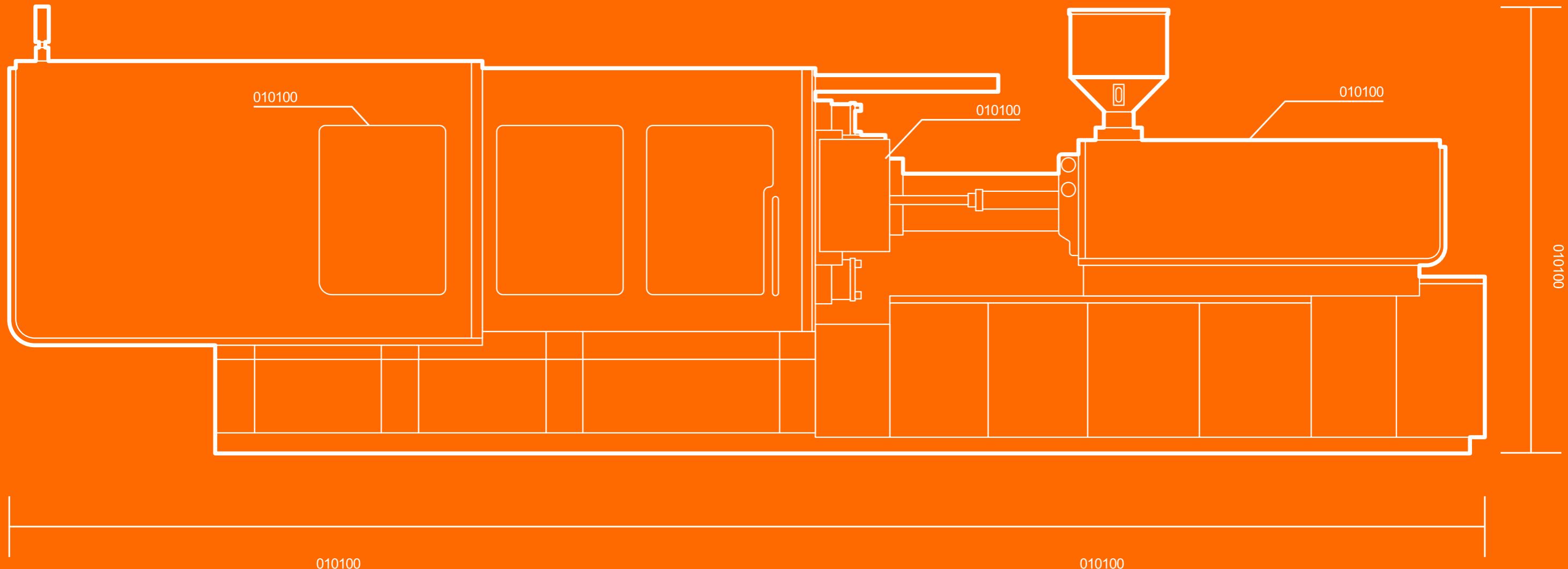
# MK6 max (the Luxury model)

## 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**



## 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  
the world

**200+**  
Patented technologies

**Operates  
800,000 m<sup>2</sup>**  
of production facilities  
With global presence

## In Pursuit of 100% Complete Satisfaction

Your Need is our Command



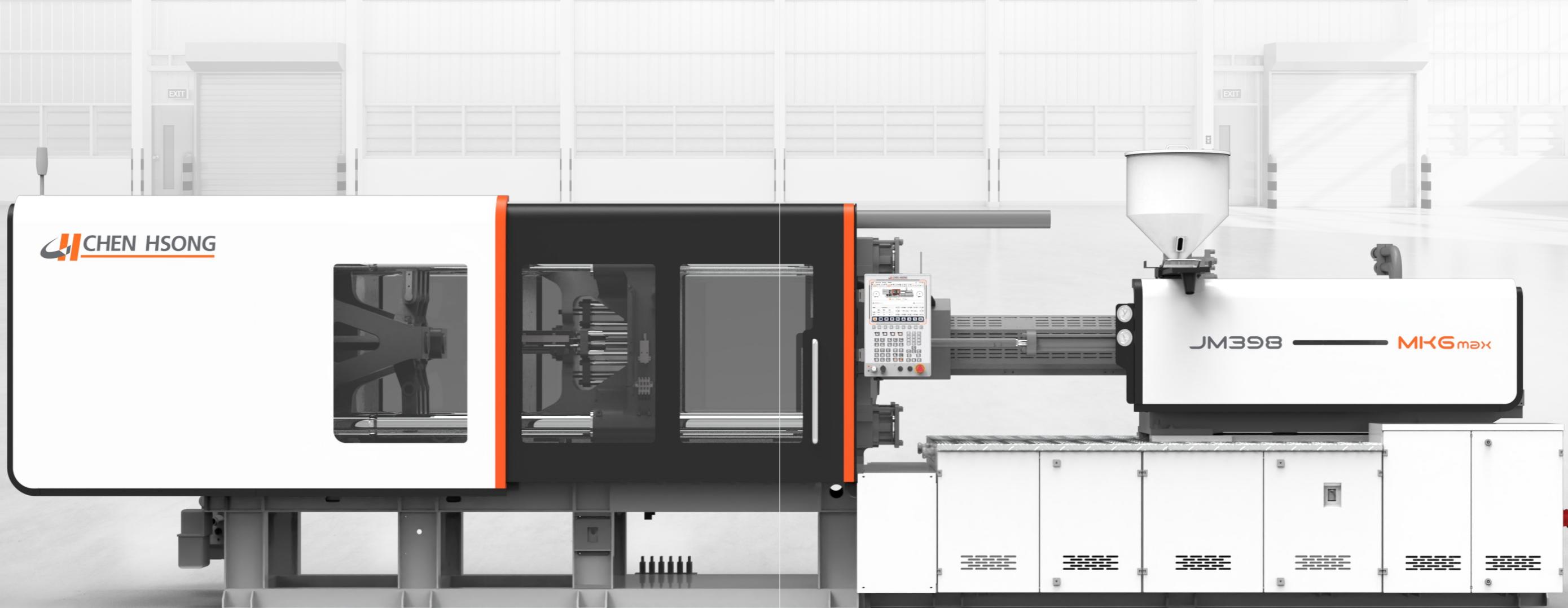
## Partnership of The Titans

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



Photos are for reference only.

## 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.

# Redefining precision control

## Next-gen intelligent computer controller

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

- 01 12" large-sized touch-screen LCD panel
- 02 Wicked-fast CPU for lightning responses
- 03 Ultimate user-friendly HMI
- 04 Intelligent controls and easy smart tuning
- 05 Over-drive performance
- 06 Comprehensive features set



## The fastest compute platform

**25%**  
higher HMI CPU  
clock speed  
**60%**  
faster PLC CPU  
clock speed and  
I/O scan time



CPU clock speed	MK6 max	Competition
HMI	<b>1.0MHz</b>	0.8MHz
PLC	<b>0.48MHz</b>	0.3MHz

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

Mainstream Linux-based O/S with modern .GUI

## The best panel

<b>MK6 max</b>	Competition
<b>Touch-screen:</b> Fast and precise	Physical buttons
<b>Snappy and smooth</b>	Slow operation
<b>Easy and simple</b>	Low resolution (800x600)
<b>One-touch access</b>	

## 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       | ④ Closed-loop injection/ejection |
| ⑤ Stored mould recipes  | ⑥ Production log         | ⑦ Upgrade system via USB           | ⑧ Settings change audit log      |
| ⑨ Standardised data interchange format                          | ⑩ Rapid-setting page     | ⑪ Comprehensive quality monitoring |                                  |
| ⑫ Built-in digital oscilloscope to monitor any data point value | ⑬ SPC data logs          | ⑭ One-touch access to pages        |                                  |
| ⑯ Remap I/O   | ⑯ Screenshot at any time | ⑰ Interface with auxiliaries       | ⑱ Freely programmable movements  |
| ⑲ MES interface   | ⑳ User control           |                                    |                                  |

## The highest over-drive

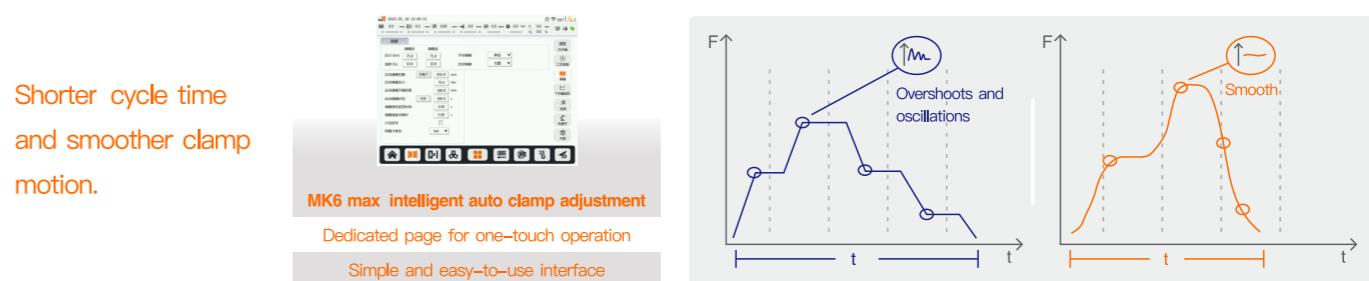
Increase injection speed by up to 20% for more flexible application scenarios.

**ODS**  
Over-Drive System

## 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  $\pm 5\%$  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.



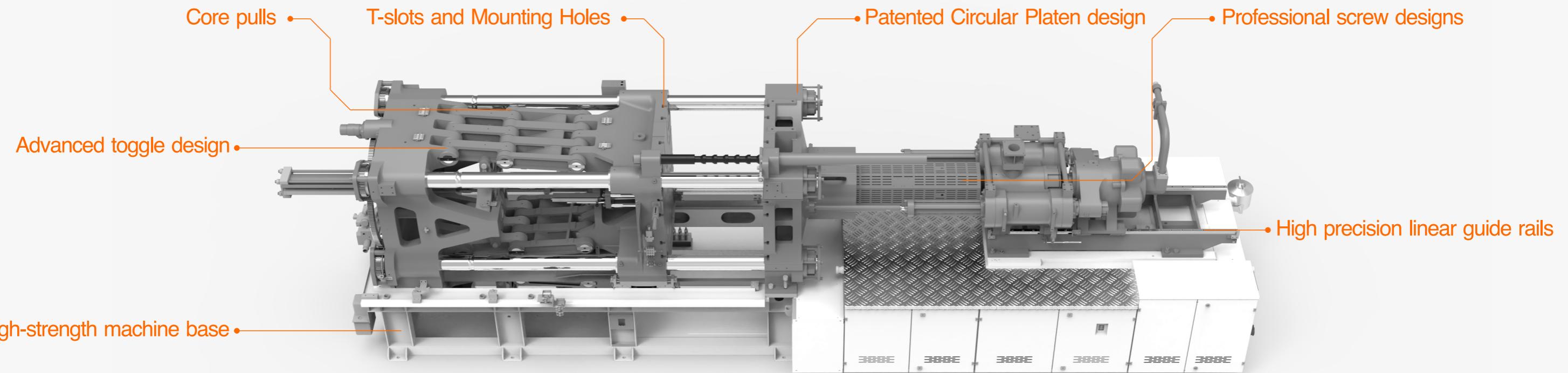
## The most connected

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



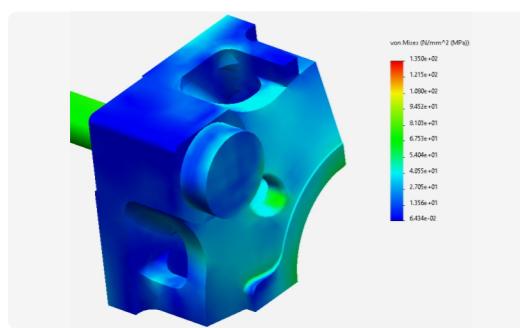
\* iPad visualization interface

## Luxury Components

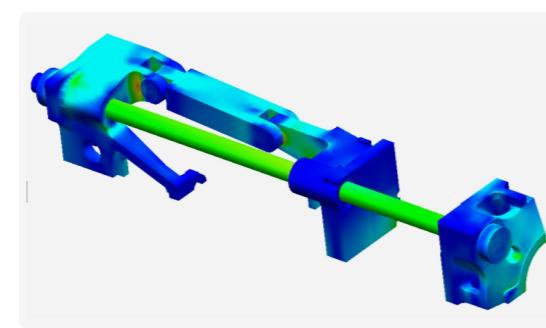


### Patented Circular Platen Design

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.



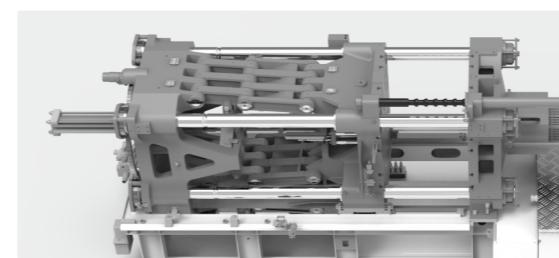
Optimised platen design has superior stress distribution, ensuring perfect part quality



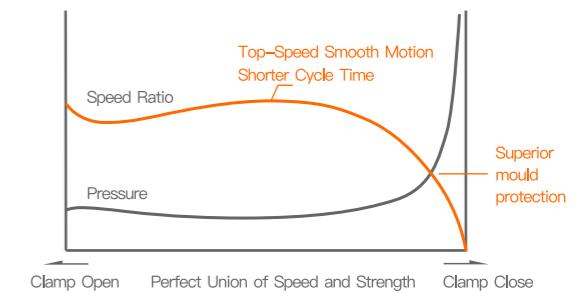
High-tensile tie-bars

### 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 or 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.

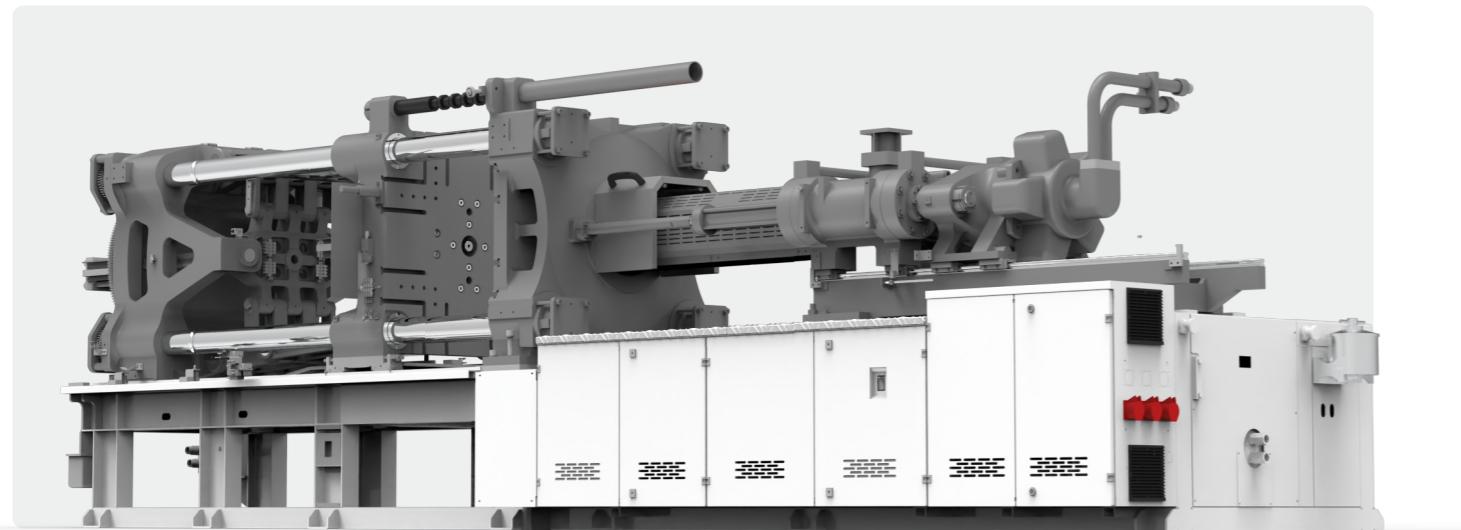


Perfect Union of Toggle Design and Hydraulics  
Fast and Precise

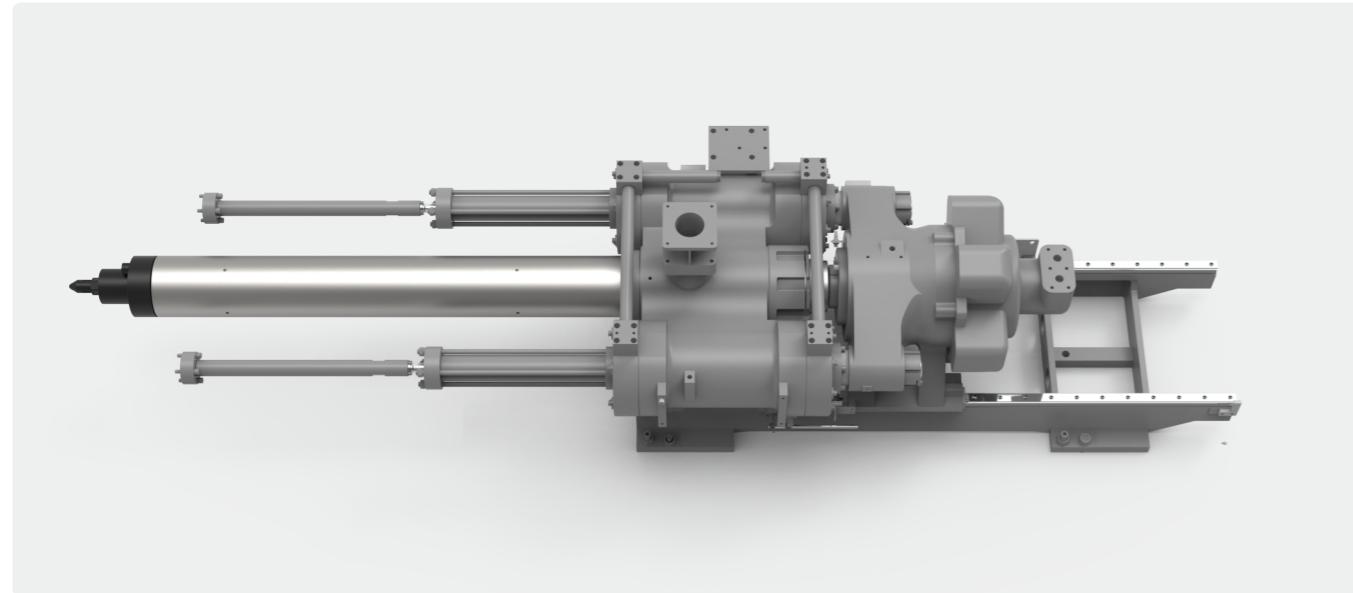


## High-strength Machine Base

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.

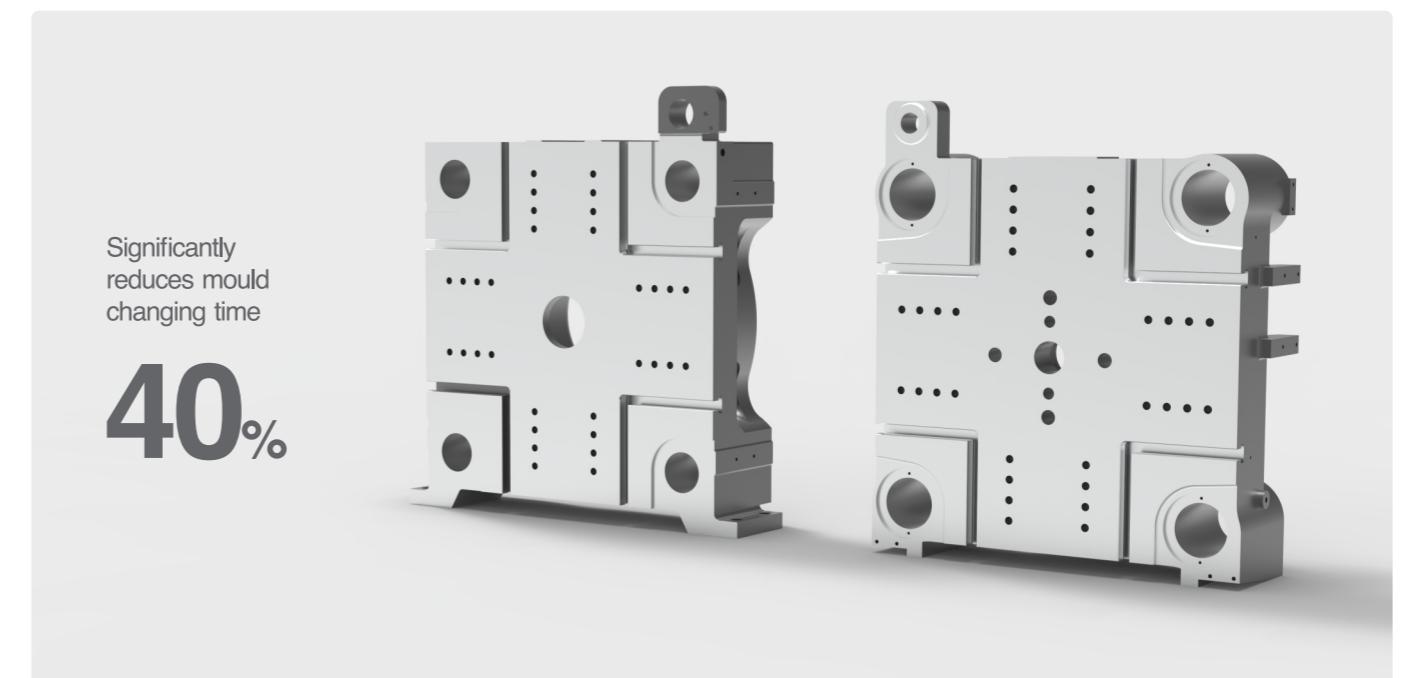


### Core Pulls

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



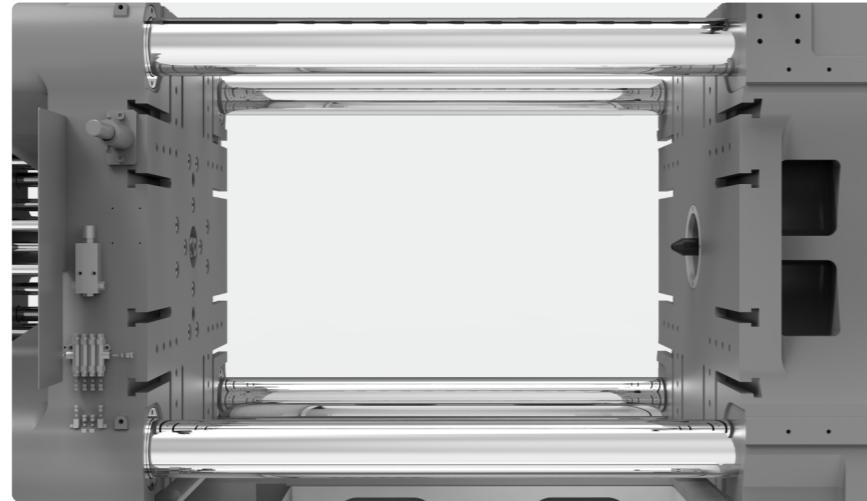
### T-slot with Mounting Holes, Exquisite Quality



## Luxury Specifications

### Larger Daylight

For deeper moulds



### Larger Power Pack

For higher speed, pressure and efficiency

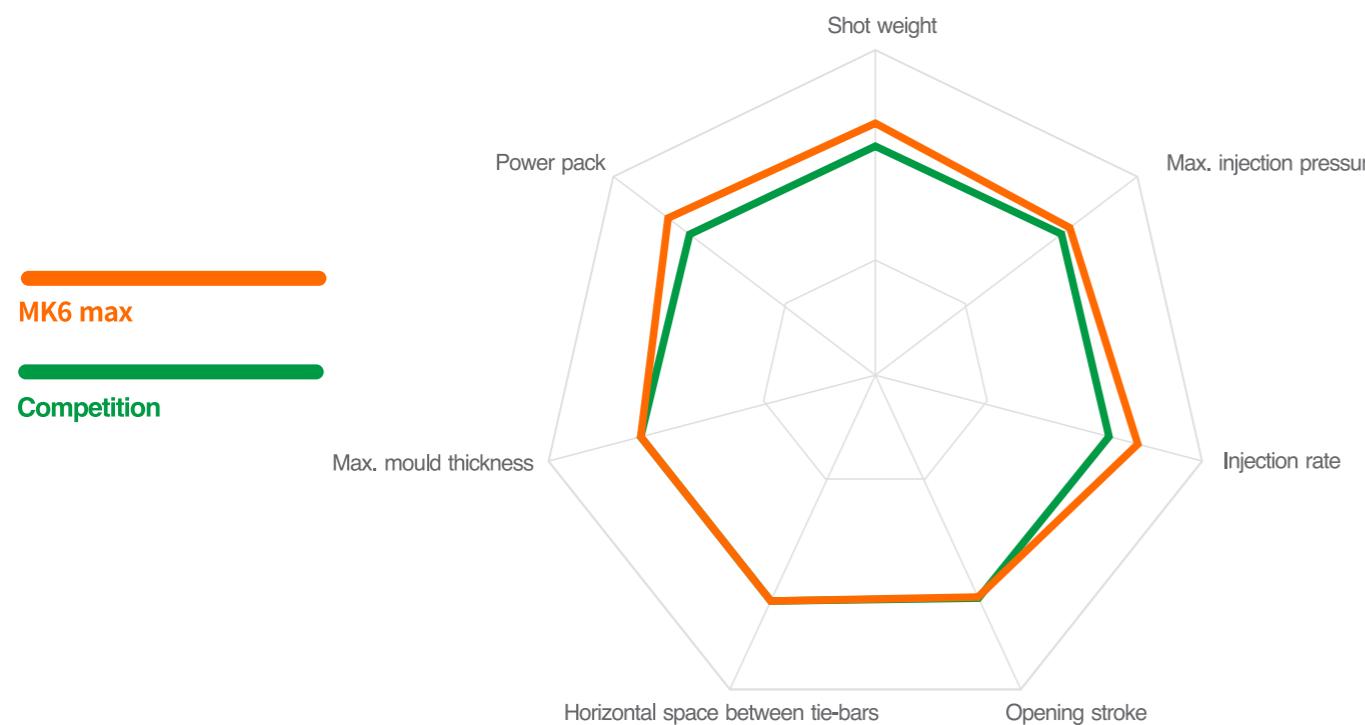
### Larger Space Between Tie-bars

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.