



HAITIAN
PLASTICS MACHINERY

HAITIAN MARS III/PLUS SERIES



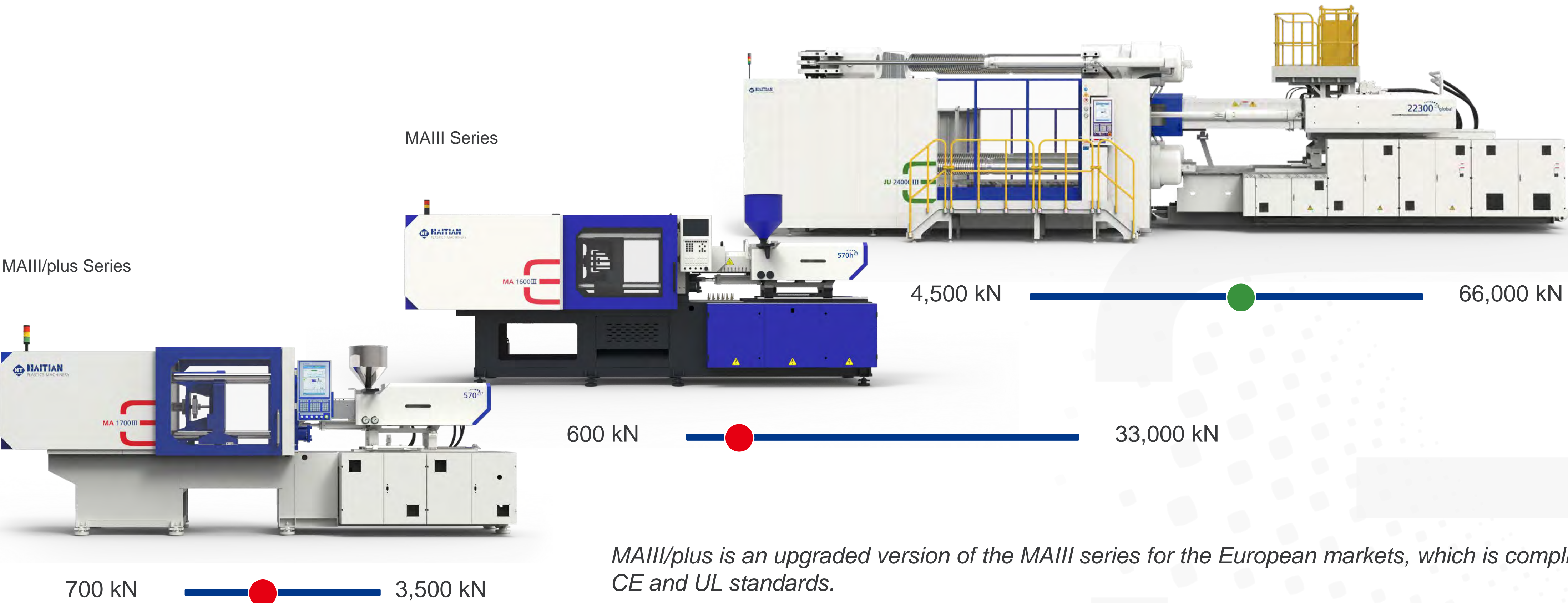
TECHNOLOGY TO THE POINT

Haitian Injection Molding Machine Family

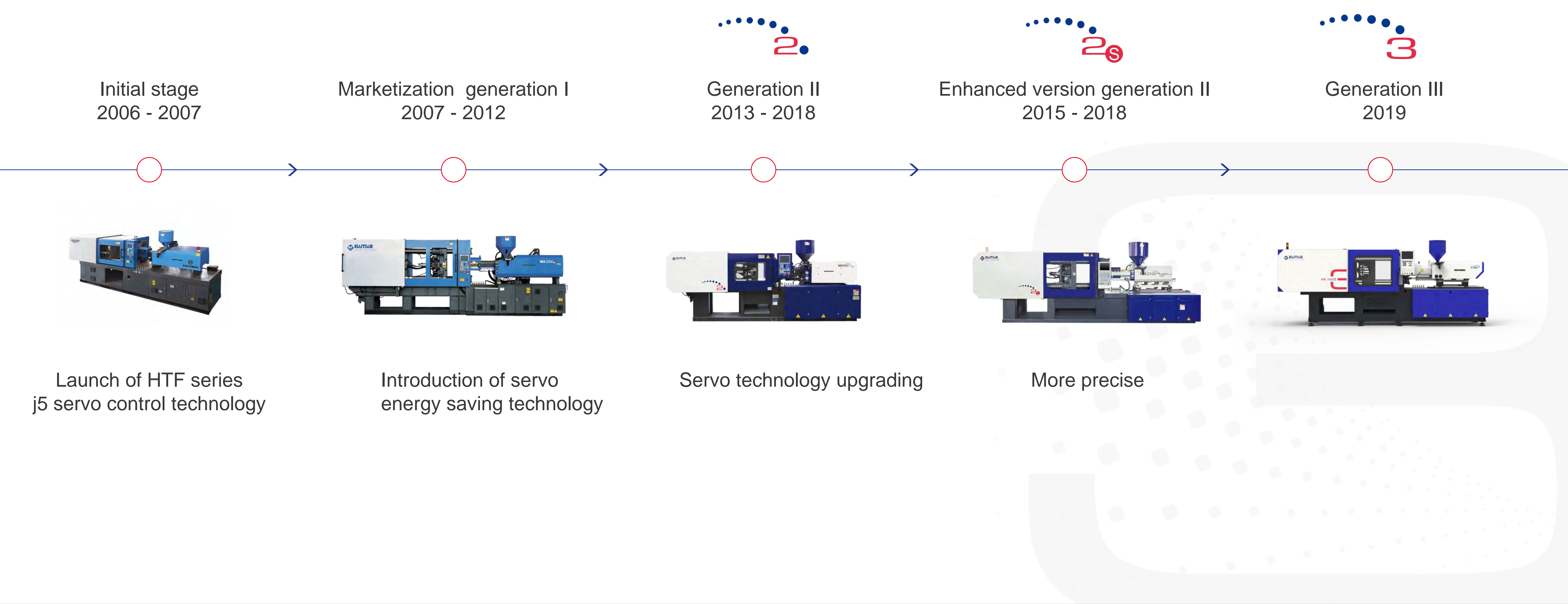
JU III Series

MA III Series

MA III/plus Series



Development of Mars Series



New efficiency, new flexibility
and new opportunities for the future

NEW DEVELOPMENTS

- Mechanical upgrades
- Economical machine concepts
- Technology to the Point

NEW MODULARITY

- Modular combination of mature core technologies
- Hybrid solutions for increased flexibility

OPEN INTEGRATION

- Flexible solutions with Connectivity Plus
- Intelligent performance with Motion Plus

3rd GENERATION TECHNOLOGY

NEW DEVELOPMENTS
NEW MODULARITY
OPEN INTEGRATION

Advantages at a glance

Precise

Low-friction linear guides ensure parallelism of the platen while reducing operating energy
(Optional)

The optimized master of efficiency.
With clamping force from
600-33,000KN

Strong injection molding capability

With wider range of injection process coverage and flexible combination of different injection units



Intelligent Control

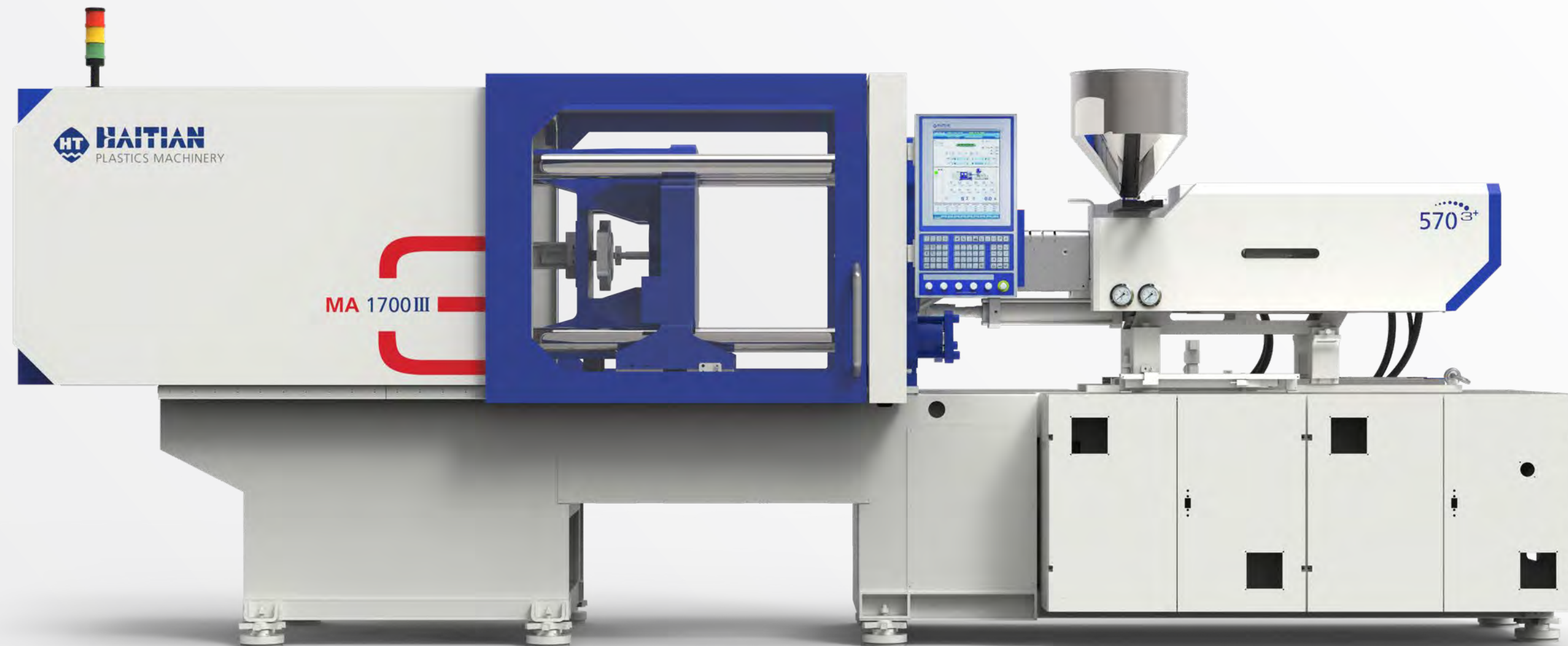
Intelligent core components with precise digital control, compatible with all common interfaces; user-friendly HMI

Sold more than
230,000 units

GreenVantage

The highly efficient and energy saving "Mars Technology", highly dynamic and sensitive with higher efficiency and lower energy consumption





MARS III PLUS SERIES EXTERIOR DESIGN



TECHNOLOGY TO THE POINT

Exterior Design

- European-style appearance
- Open body, drive distribution box placed in non-operation

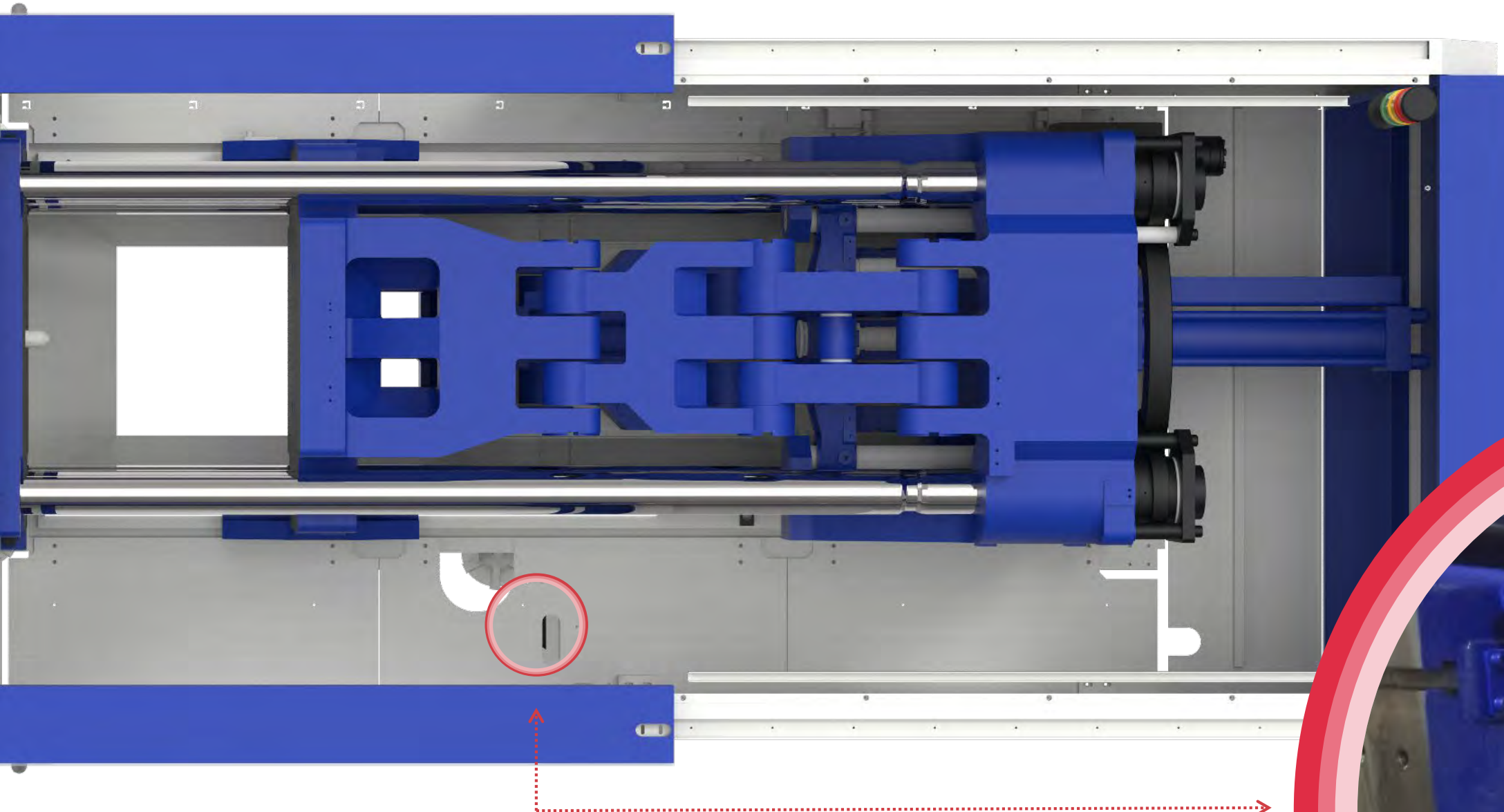


Exterior Design

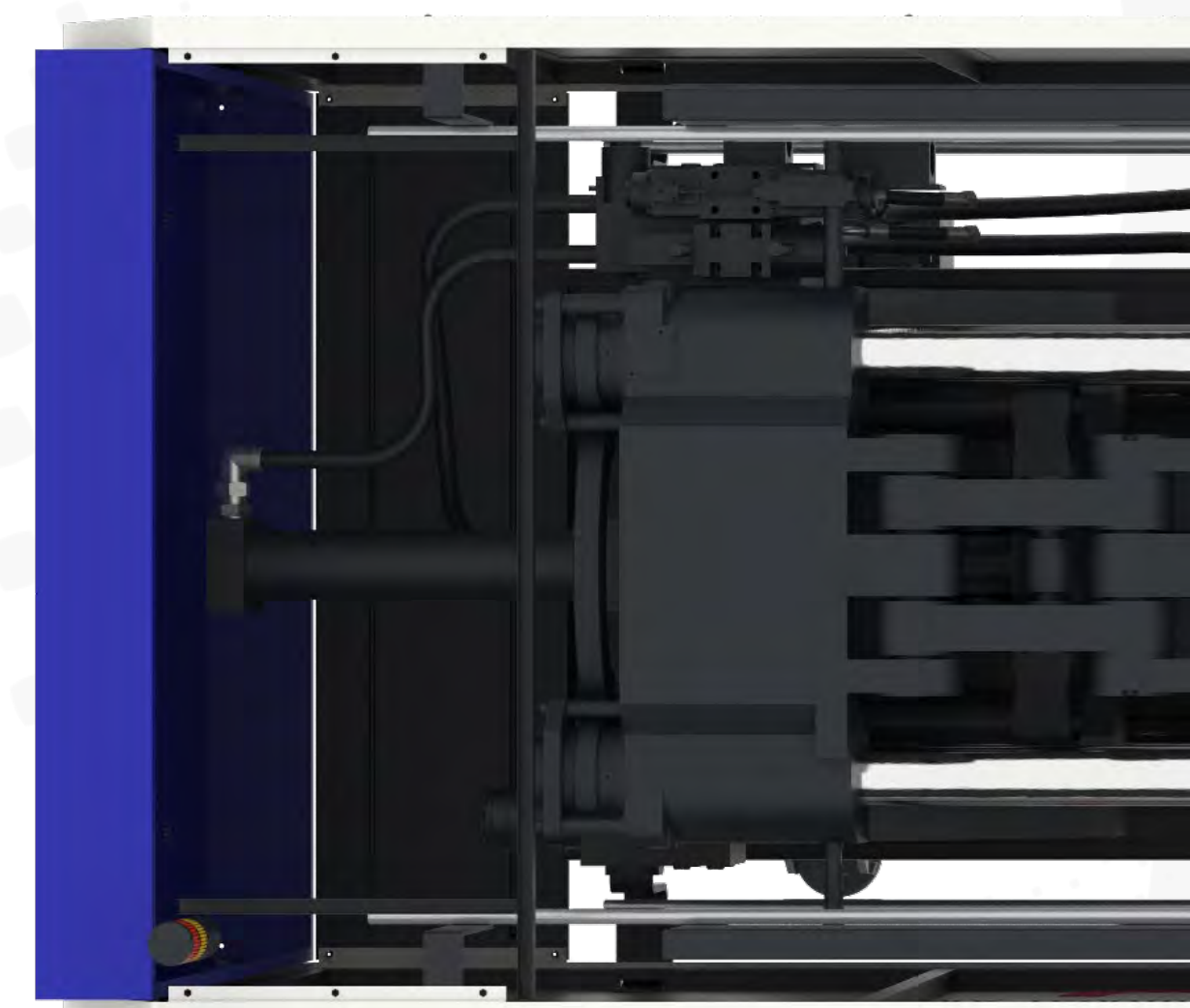
- Frameless door easy entry for mold changes and robots
- Free space under basement for auxiliaries and conveyor belts

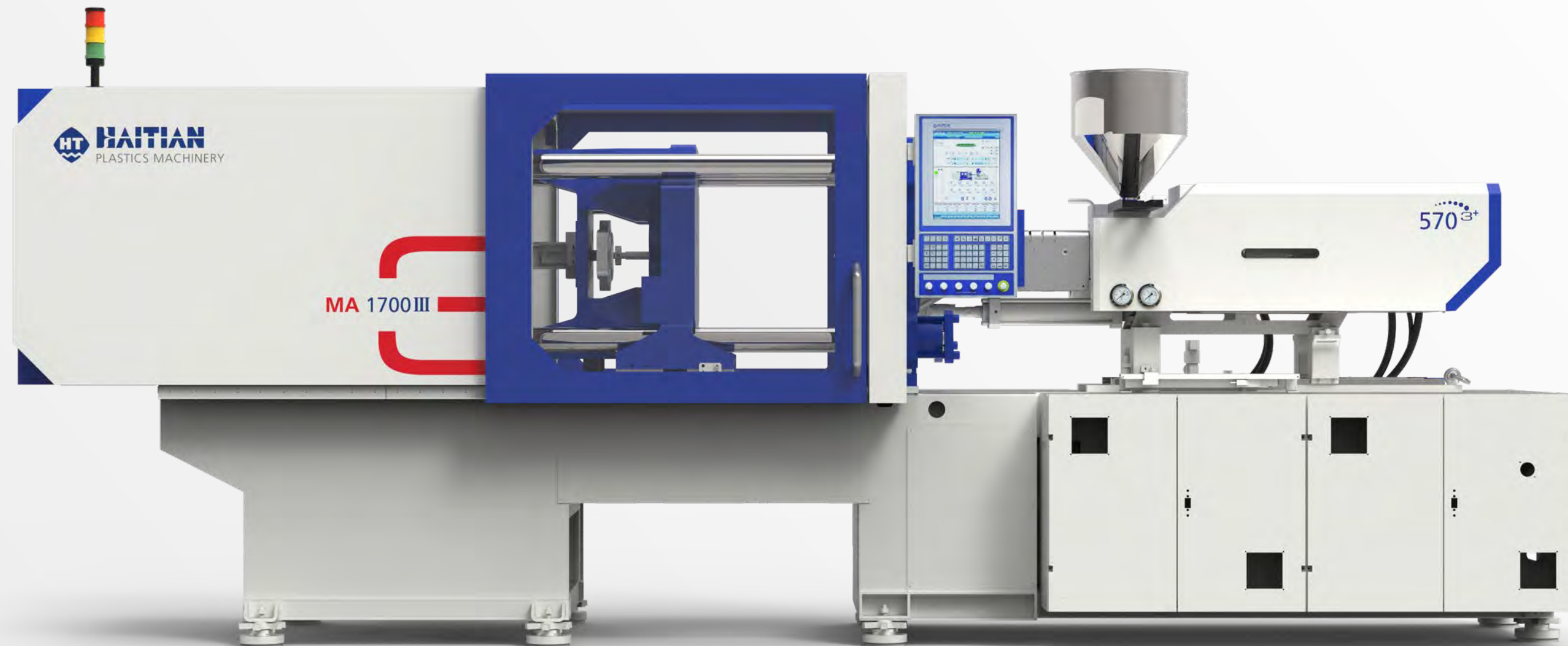


Exterior Design



The safety door on the non-operation side is widened, and three sets of core-pulling and glass tube flowmeters are reserved, to address the needs of European customers





MARS III SERIES INJECTION UNIT



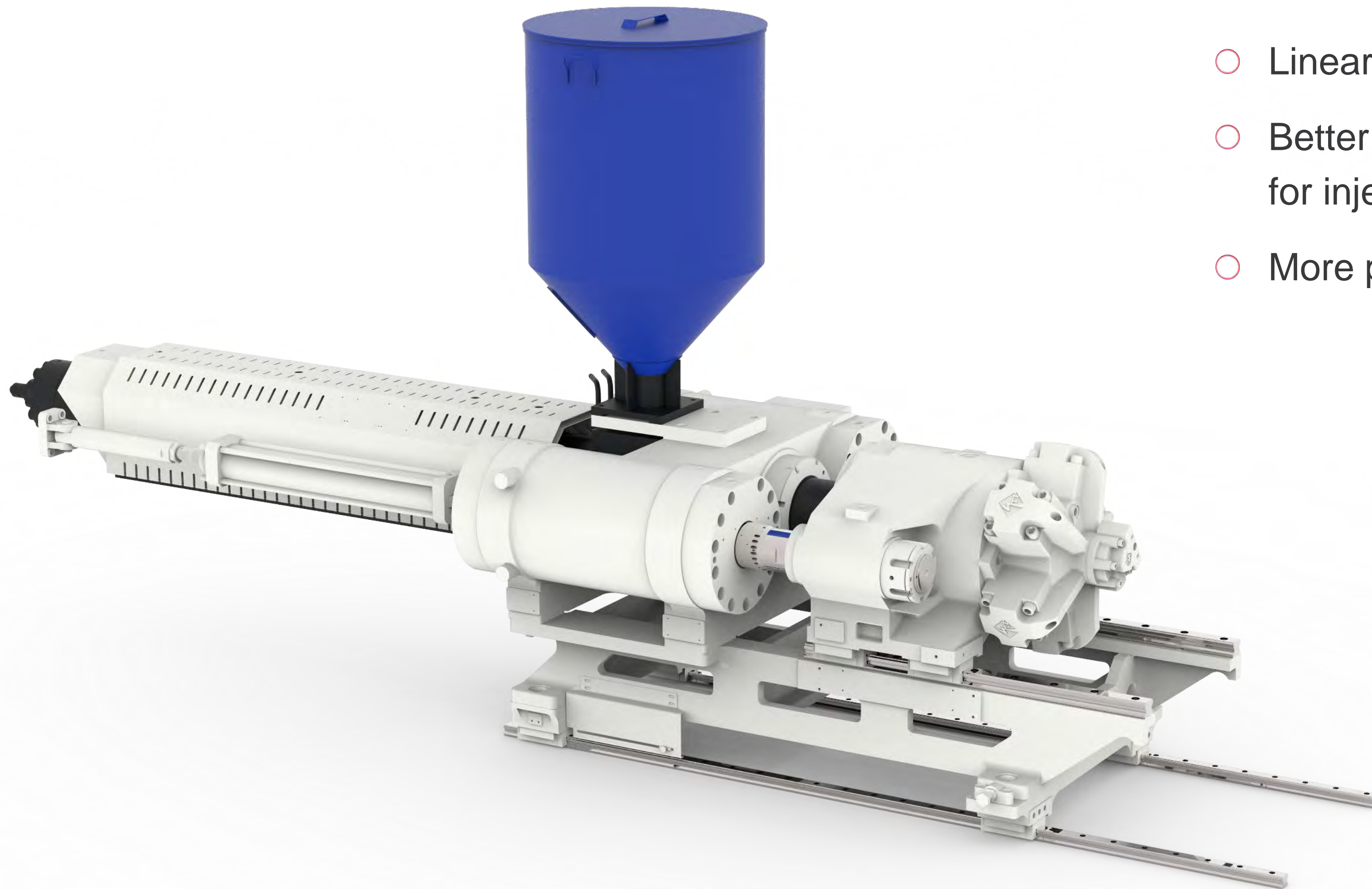
TECHNOLOGY TO THE POINT

Injection Unit Combination of IU

[illegible]

Injection Unit

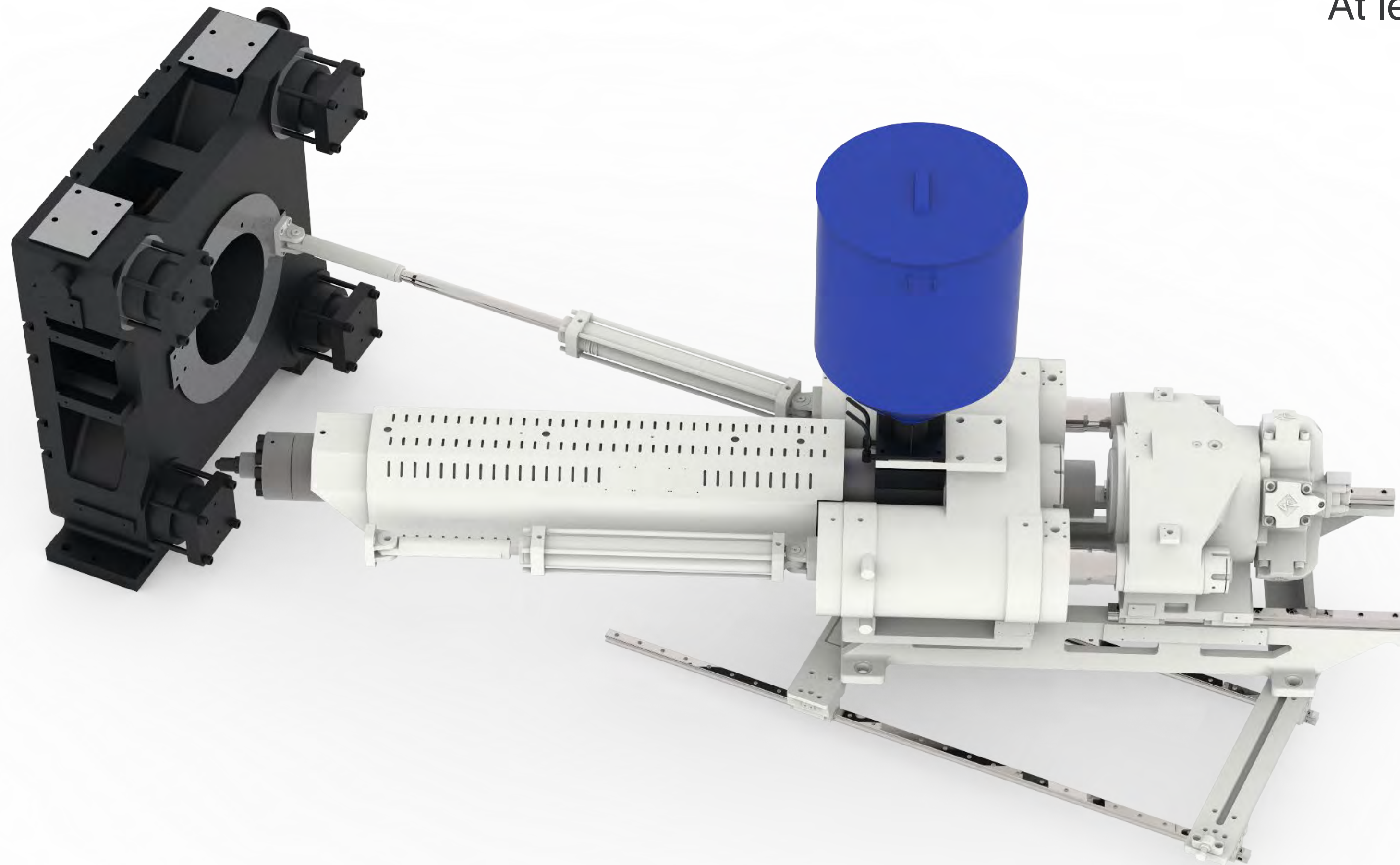
Precise Injection Response



- Linear guides on both carriage and injection
- Better acceleration and deceleration response for injection
- More precise back pressure control

Injection Unit Easy Maintenance

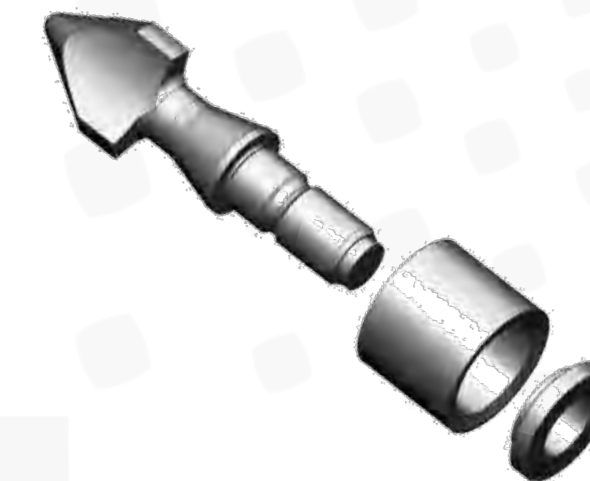
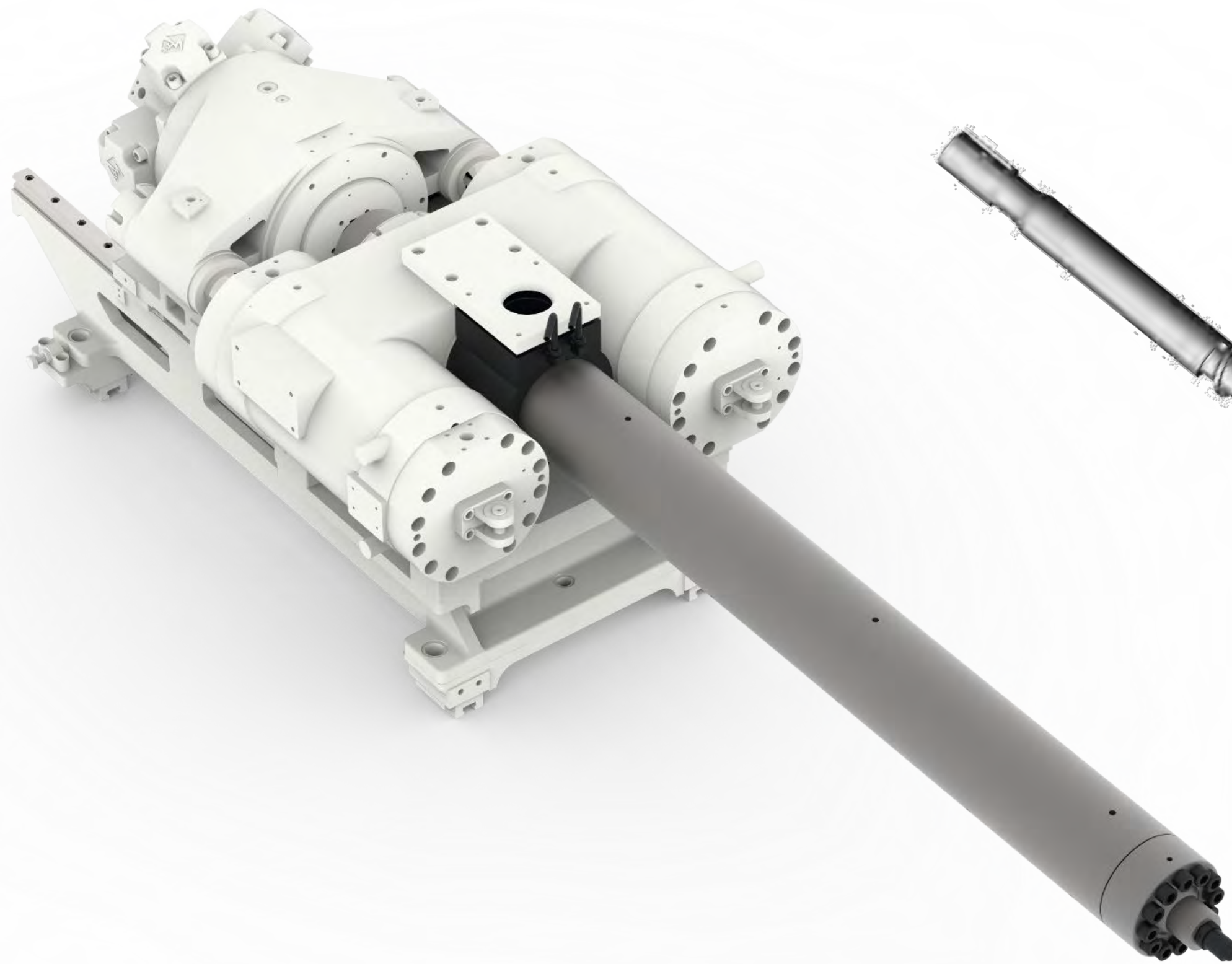
- Swiveling injection unit as standard
At least 30% time saving for screw replacement



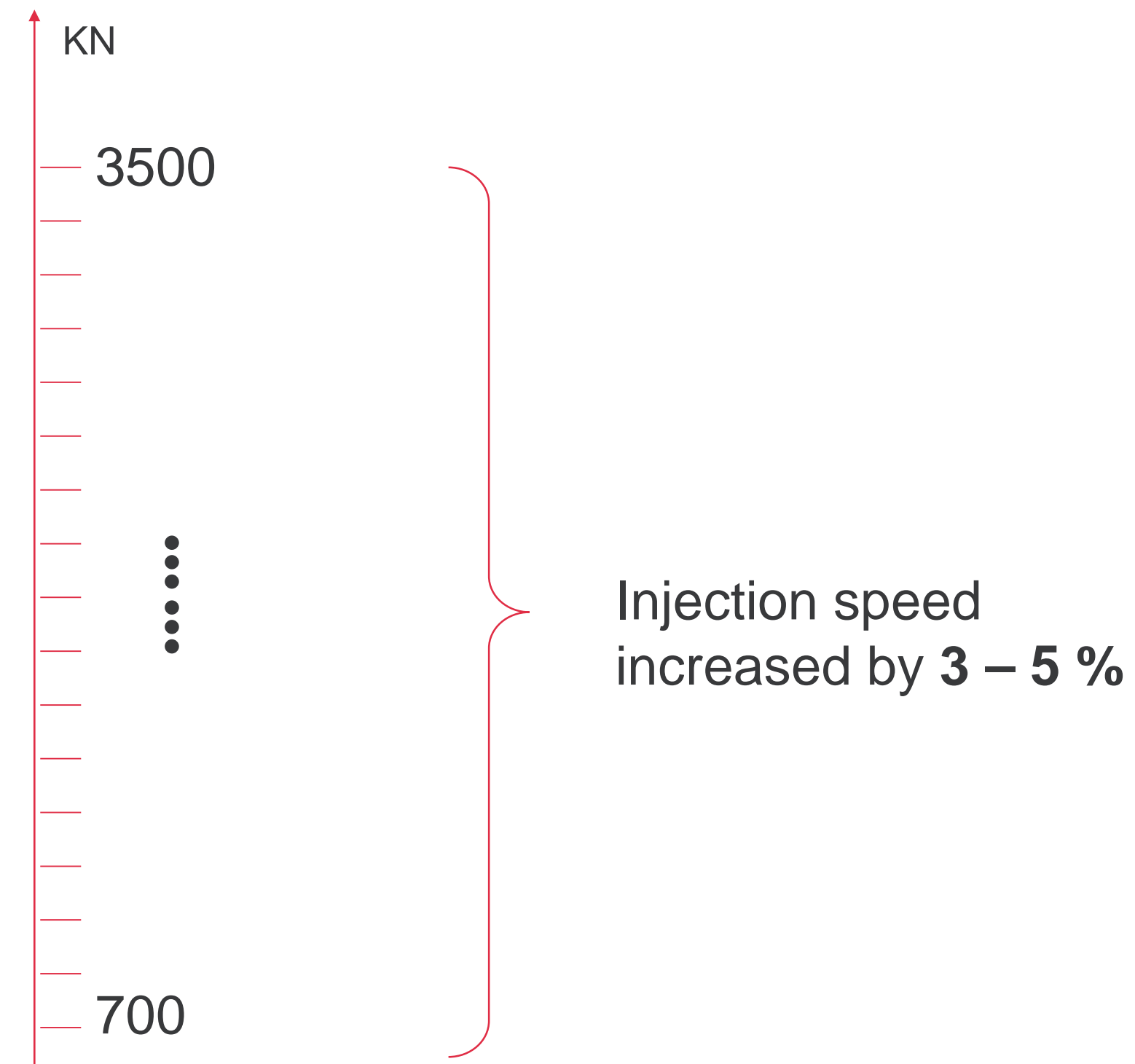
Injection Unit

Efficient Plasticizing Components

- Newly designed plasticizing components
- Further improvement of the plasticizing efficiency

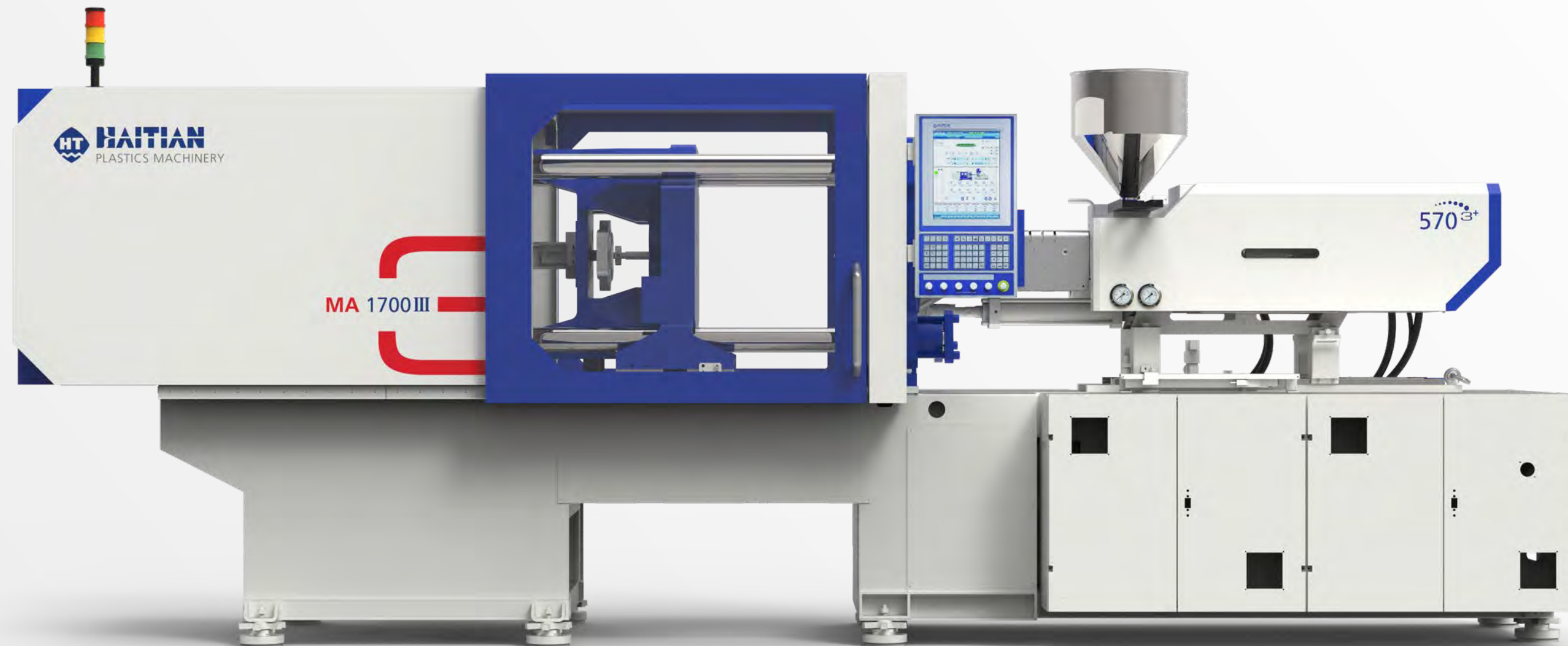


Increased Injection Speed



Strong injection capacity featuring high injection pressure & speed

- Shorter dry cycle times
- Better solution for thin-walled parts
- Prevention from deformation through cooling
- Improved process range and improve process forming capabilities.

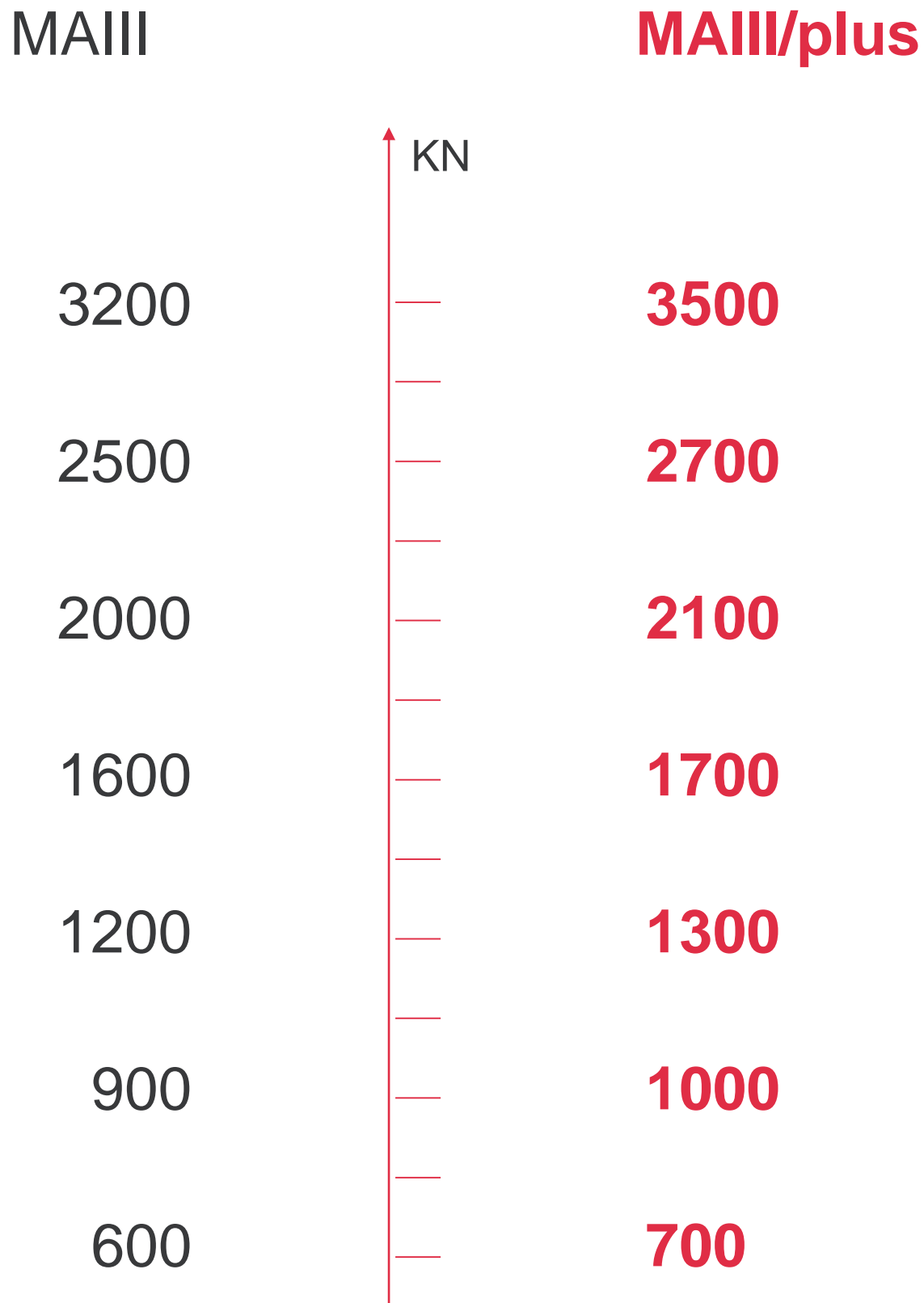


MARS III SERIES CLAMPING UNIT

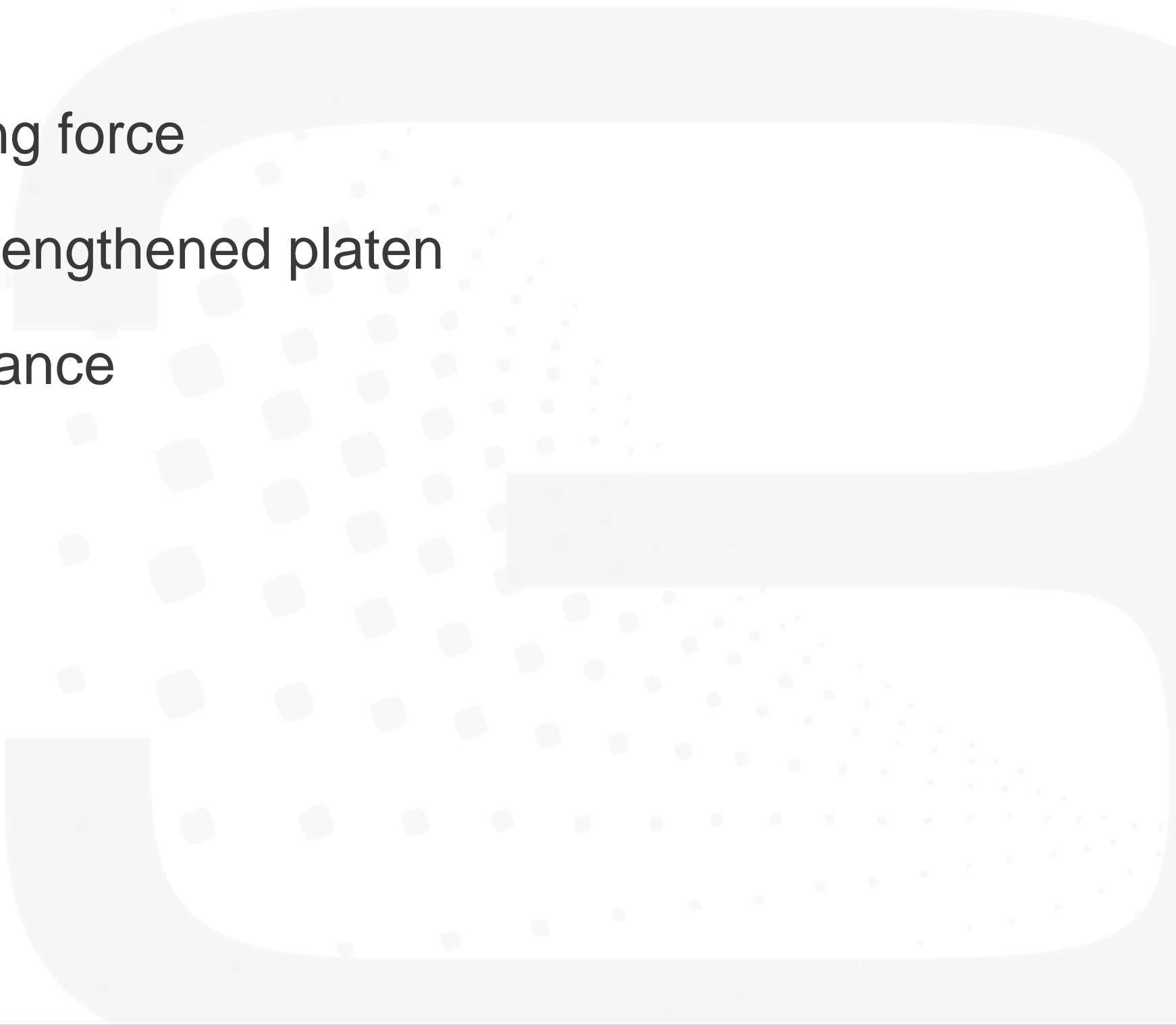


TECHNOLOGY TO THE POINT

Powerful Clamping System



- Upgraded clamping force
- Thickened and strengthened platen
- Bigger tie bar distance



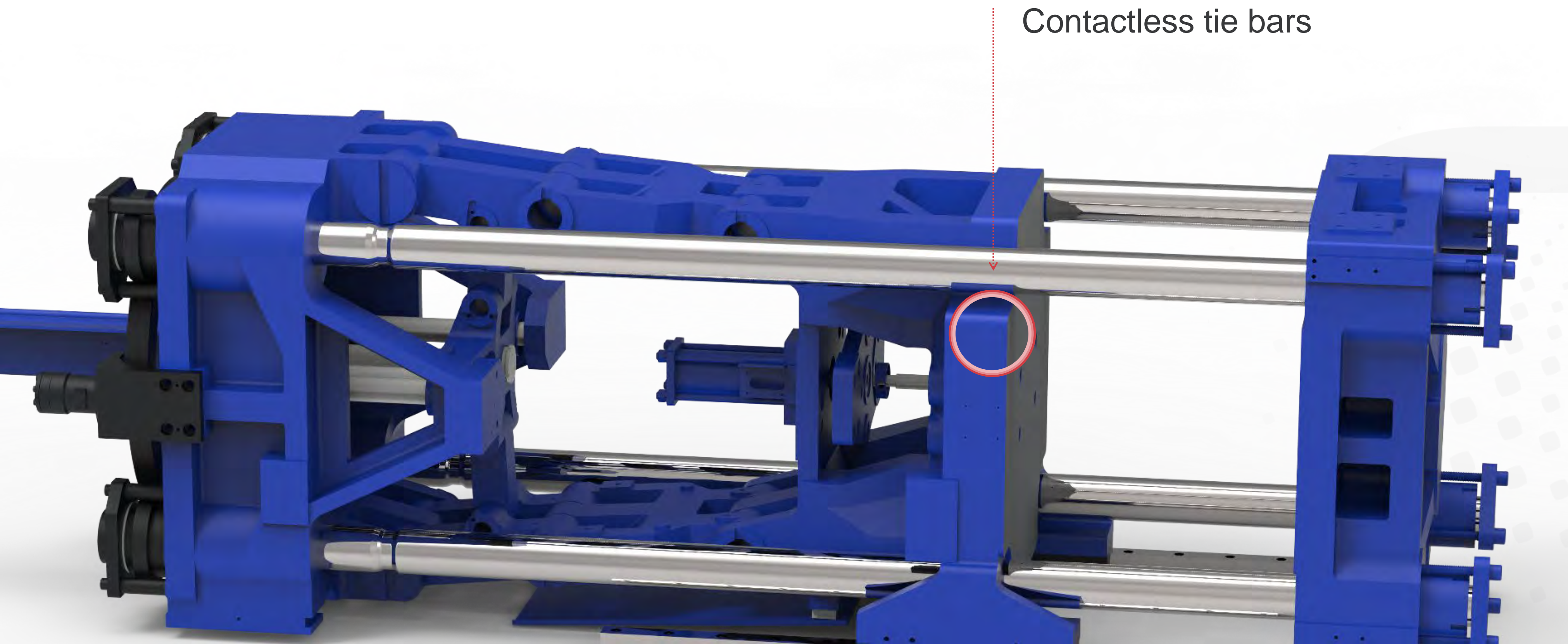
Clamping System

Tie bar distance

	MAIII/plus	Distance tie bar	MAIIS	Distance tie bar
1	MA700III/130	360 x 360	MA600IIS/130	310 x 310
2	MA1000III/280	410×410	MA9000IIS/280	360 x 360
3	MA1300III/400	470×470	MA1200IIS/400	410 x 410
4	MA1700III/570	530×530	MA1600IIS/570	470 x 470
5	MA2100III/750	580×580	MA2000IIS/750	530 x 530
6	MA2700III/1000	680×680	MA2500IIS/1000	580 x 580
7	MA3500III/1700	730×730	MA3200IIS/1700	680 x 680

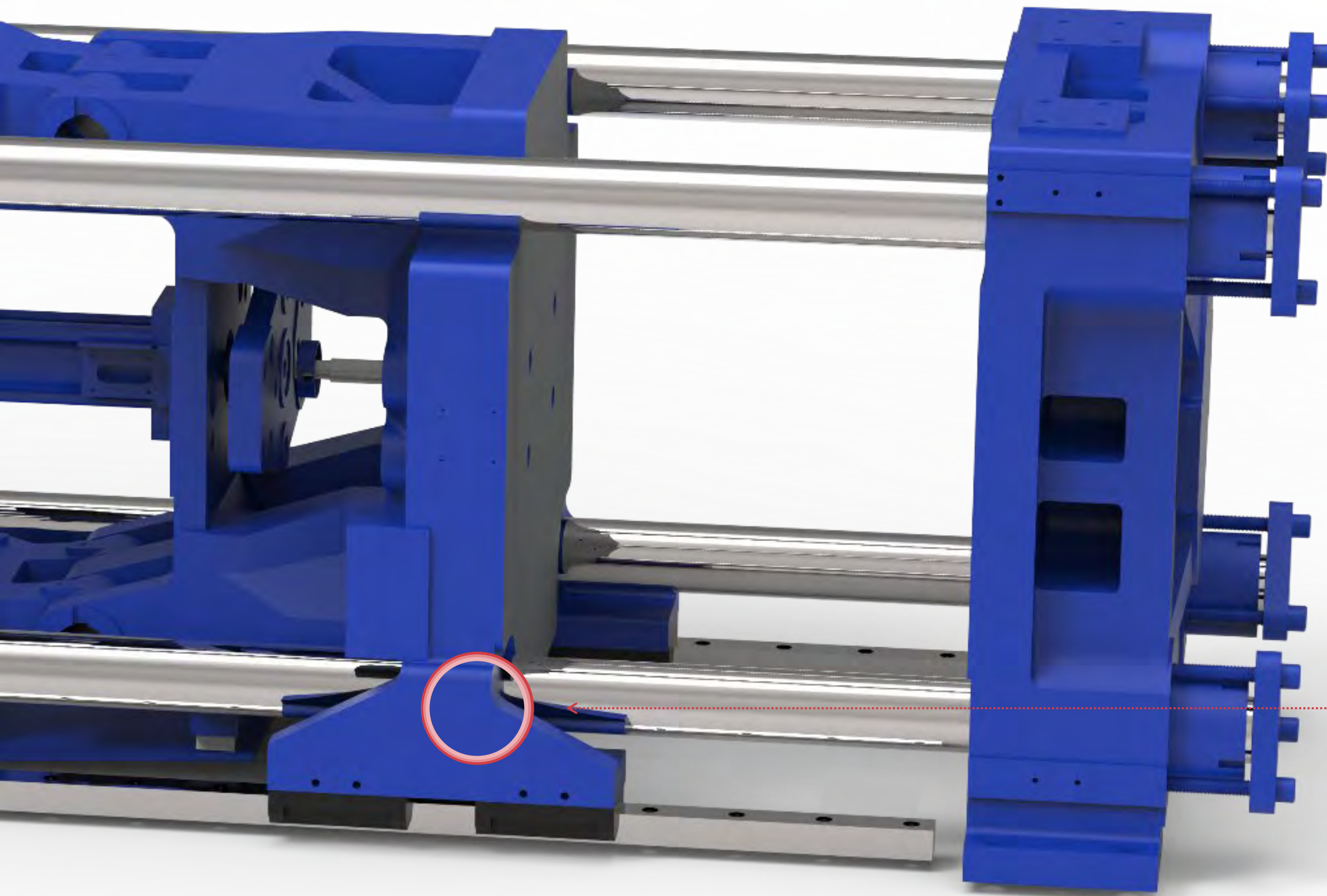


Clamping Unit



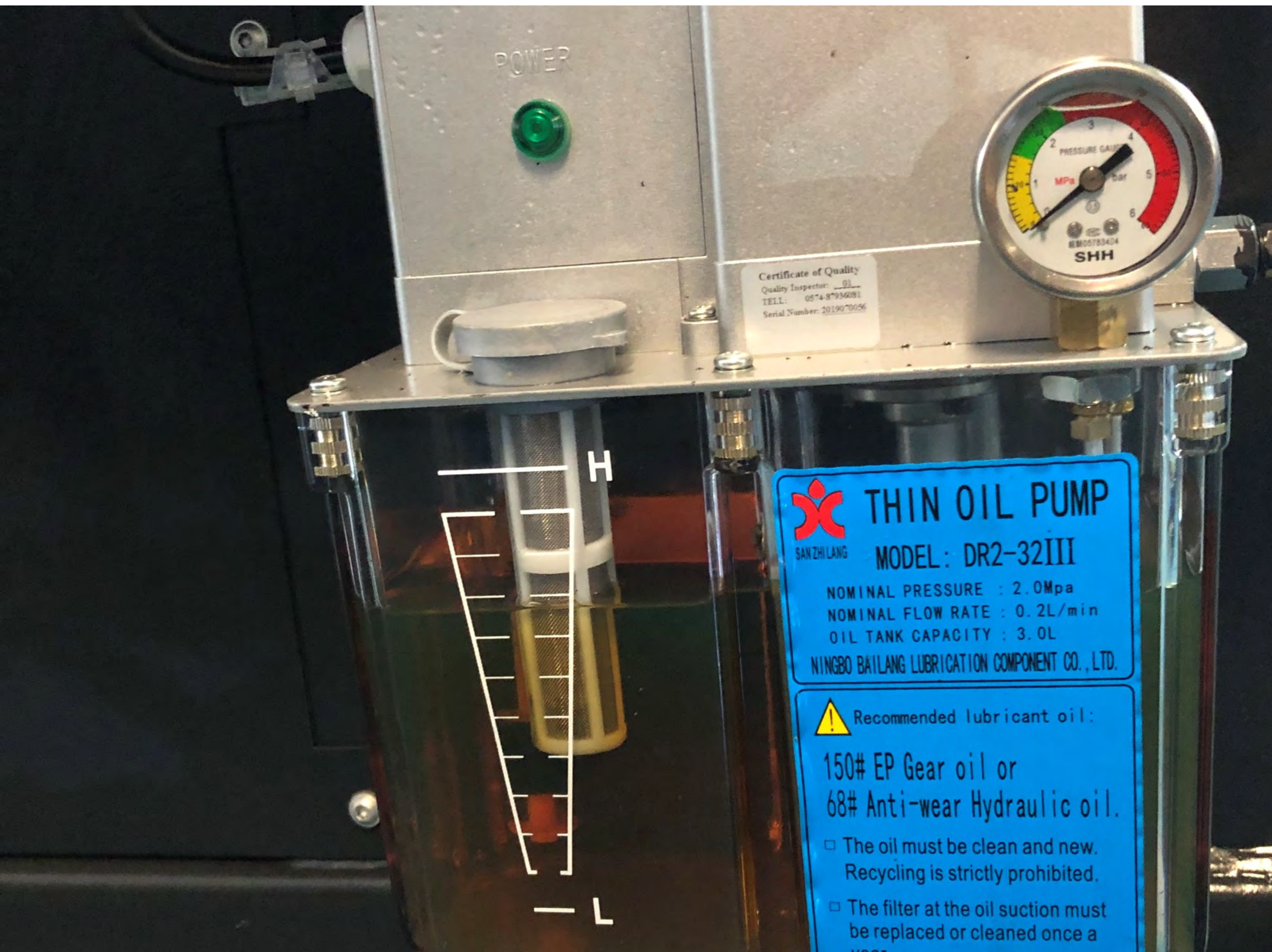
Contactless tie bars

Clamping Unit (Optional)



- Linear guides on the clamping unit
- Increased parallelism
- Reduction of energy consumption

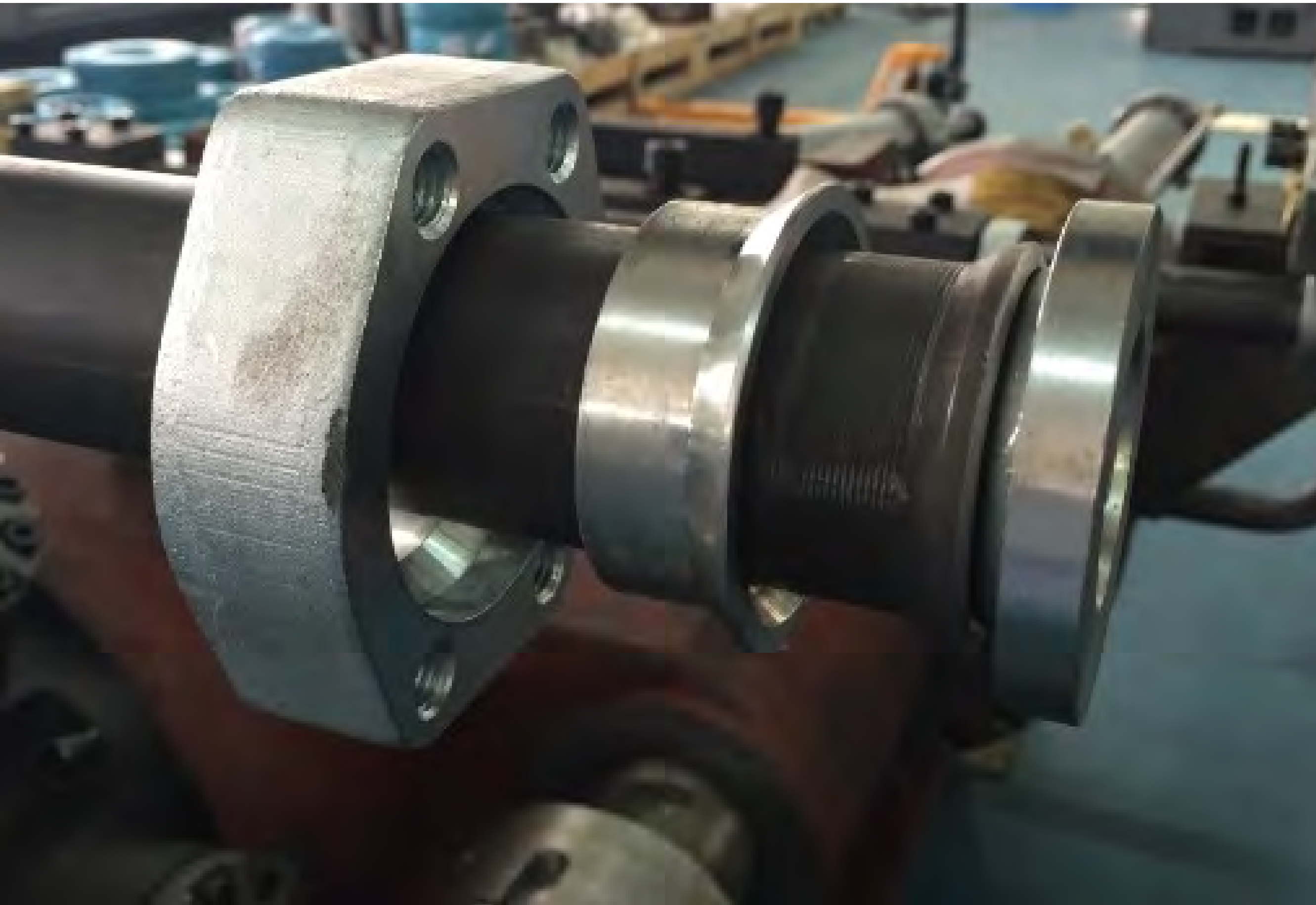
Lubrication System



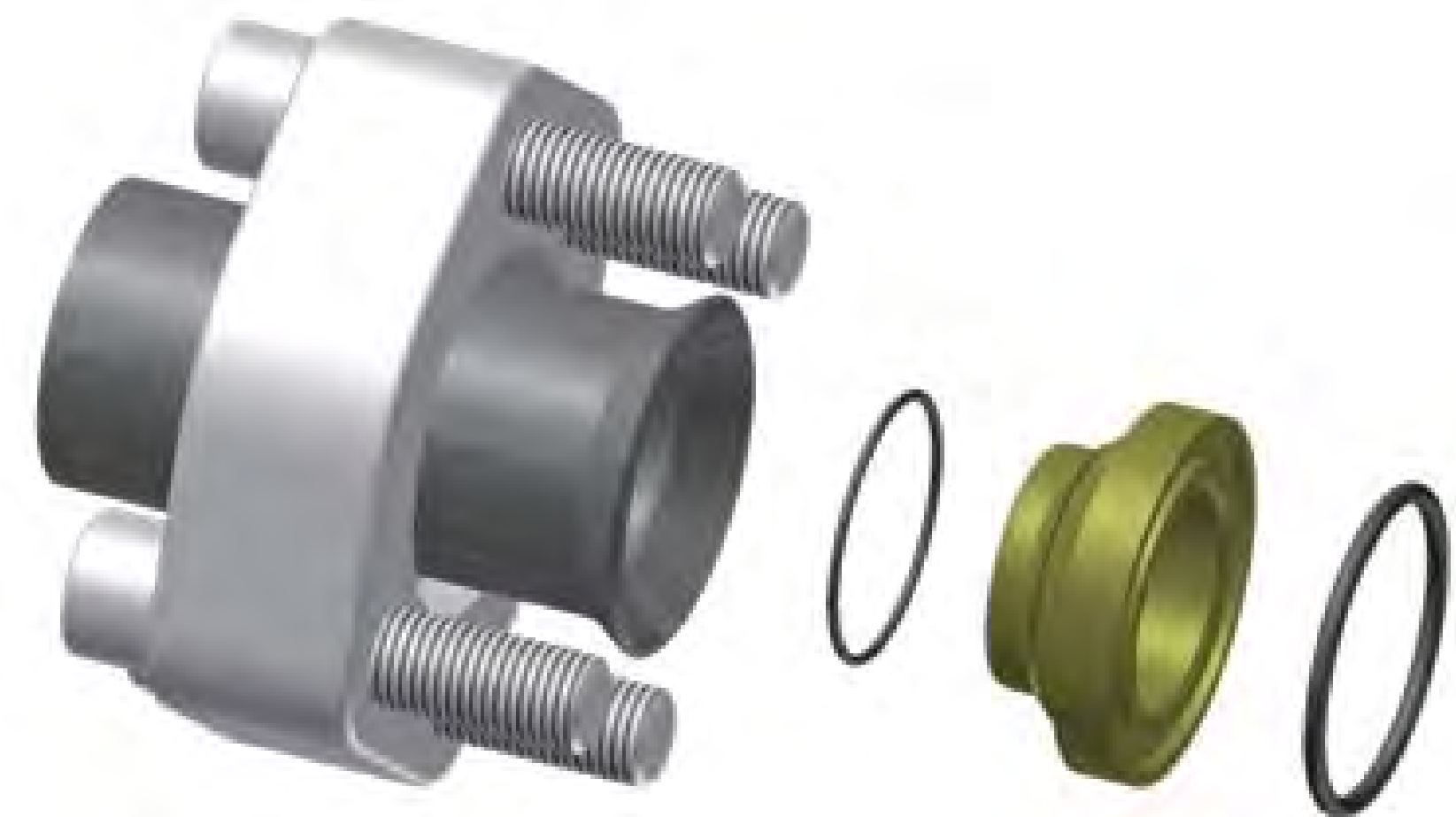
Graphite sleeve oil lubrication for mold opening and closing for machines between 60 to 1,300 t

- Clean and environmental friendly
- Longer life-span
- Less oil consumption
- Less maintenance cost

Non-welding power pipelines



- Non-welding technology for power pipeline
- Non-welding process for power pipelines
- More clean and less risk of oil leakage



Faster Cycle

- New high performance servo drive system
(Self-developed product by Haitian)
- Faster injection acceleration response
- III: 100ms, IIS: 200ms and doubled response!



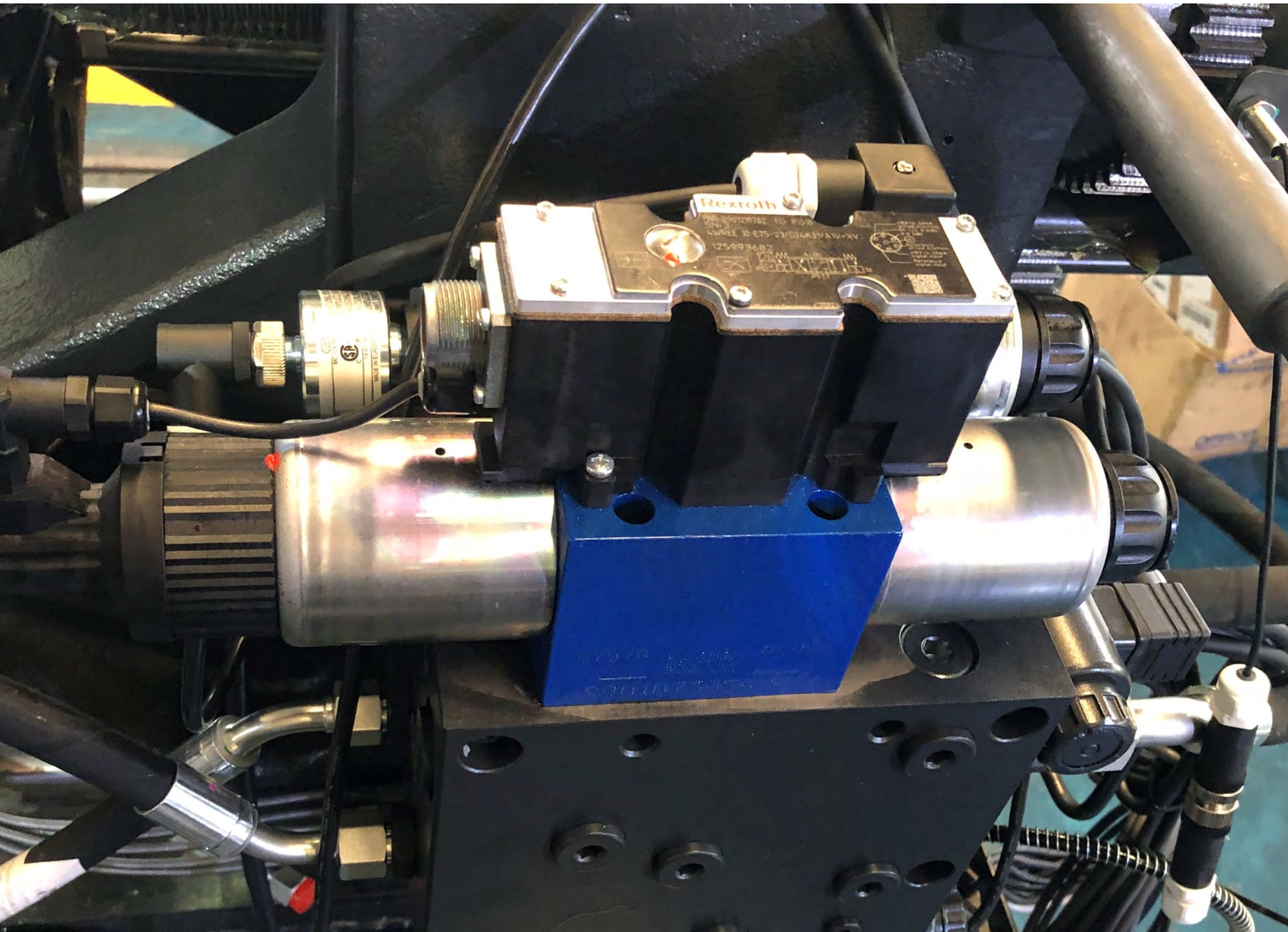
GREEN VANTAGE



SPEED VANTAGE



Higher Precision



- Proportional Control Technology
- Proportional valve for the clamping unit offers faster mold opening and closing
- Higher precision
- Repeatability up to 0.5mm

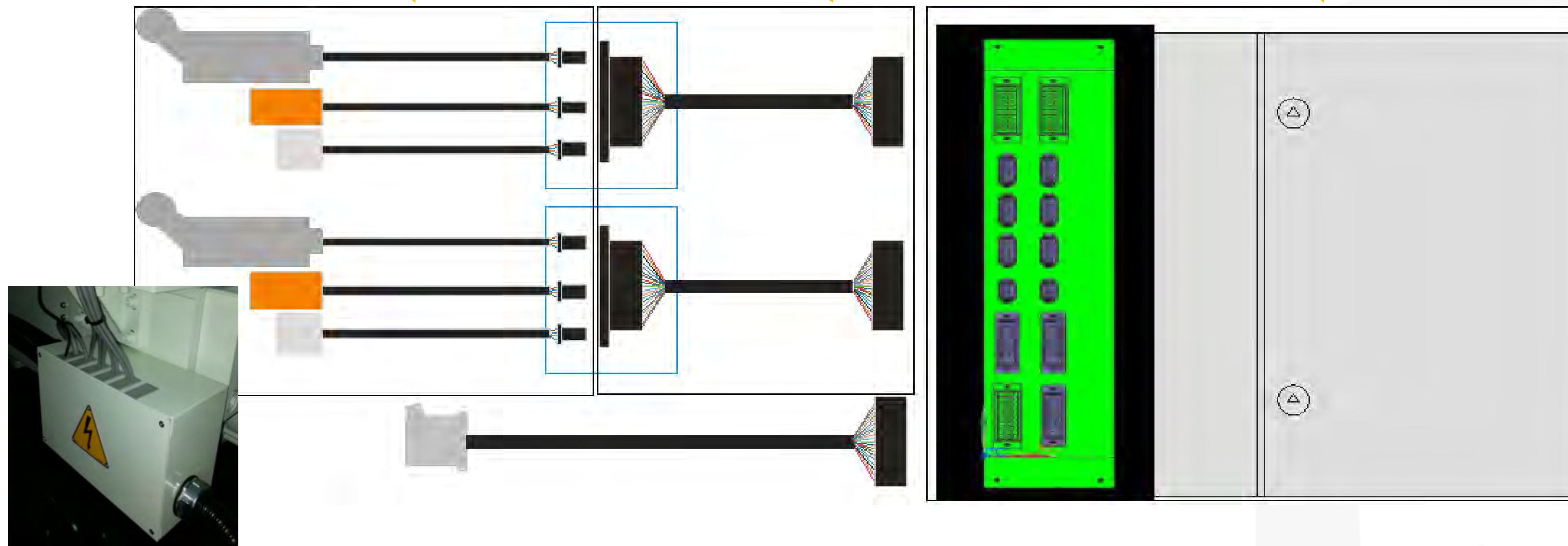
Optimization And Promotion Of MAIII/Plus

Electrical parts

The wire of
the electric
device

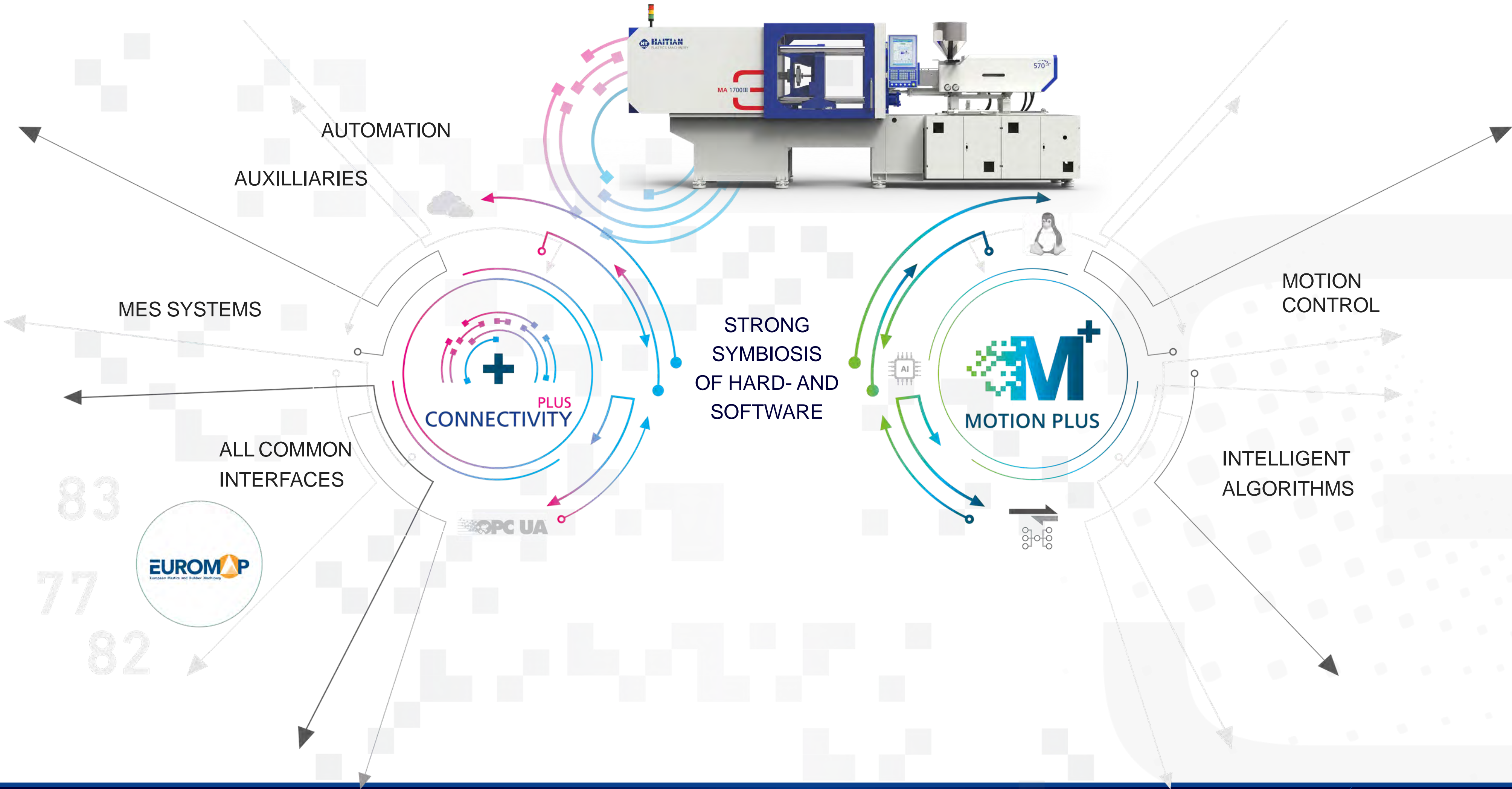
The linkage of
multi-core
cable

The wire in
the cabinet

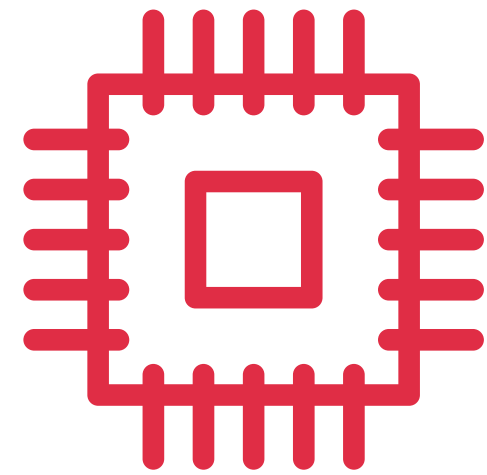


- Bus design for wires, plug docking, wire prefabrication, short stocking cycle, high assembly efficiency and reliability.

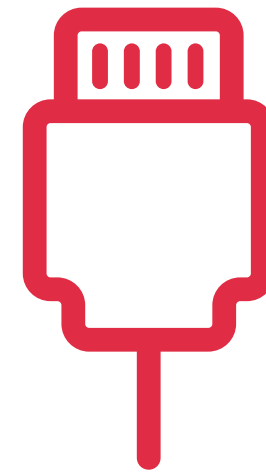
Open Integration



Improved Control Technology



Intelligent core hardware



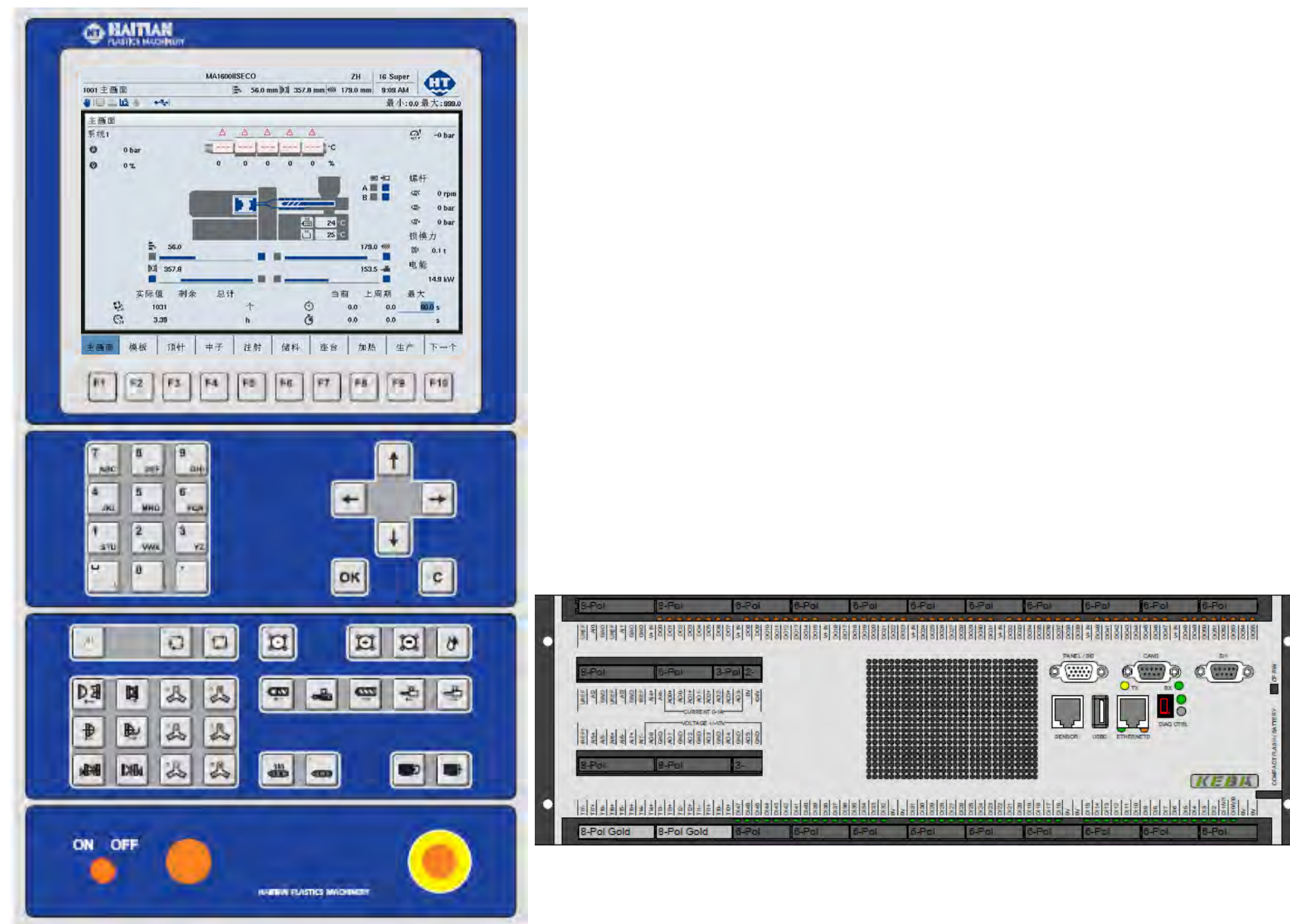
Compatible with the latest
international information
interface standards



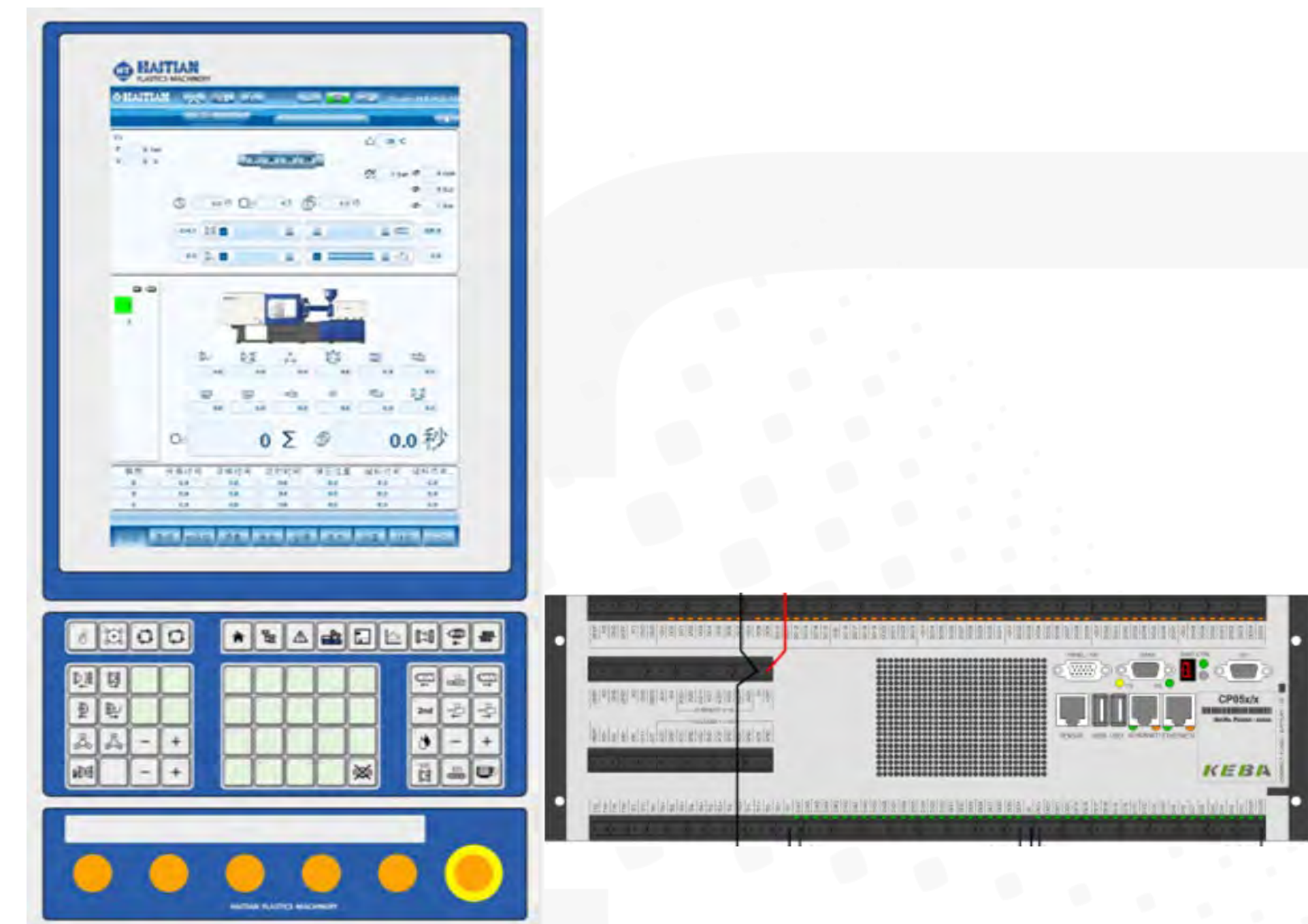
Precise control

User-friendly HMI

User-friendly panel with large screen and new UI interface



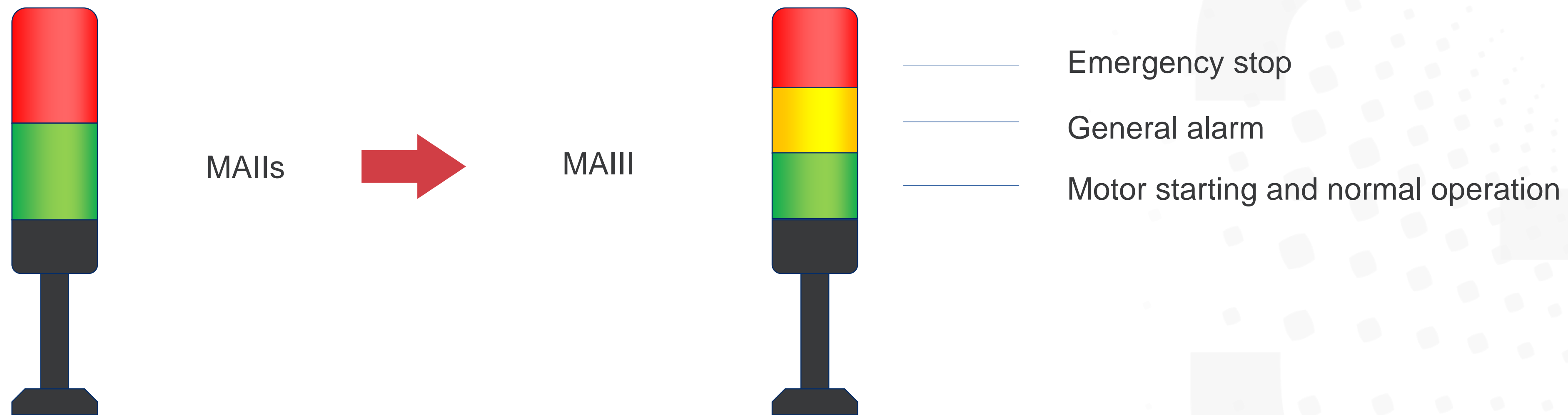
Standard KEBA i1180 controller + 12-inch screen, digital bus system EtherCAT, flexible expansion through IO expansion module



Optional KEBA i2885 controller +15 touch screen

Warning light

- Three-color warning light is standard for machines above 280t
- More visible for alarm conditions





THANK YOU!



TECHNOLOGY TO THE POINT