Technology Never Stops!

TAIWAN UNION PLASTIC

UN-E

Hybrid Series IMM

90-1000T

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TECHNOLOGY NEVER STOPS!

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TUP

TUP , It is one of the most advanced injection molding equipment manufacturers and complete system solution providers in China.

TUP provides the machines ranging from 90 to 6,600 tons, with the machine matrix of All-electric, Hybrid electric, Multi-components, Two / Three platens, which covers almost all main applications in automotive, packaging, medicals, engineering, 3C, home appliance, logistics etc.

The headquarter is located in hangzhou, zheiiang province, and the other remaining 15 branch offices, sales & service offices are located in China, SEA, America, Europe, Affrica provide the nearby service to our customers.

With regarding to the capability, we have 200,000 square meters of manufacturing base, staffs over 500, annual machine output over 60,000 sets, R&D teams with around 100 skilled people, and annual R&D investment over 50 million of RMB, which coming to 100+ patents and more are on the que.

Technology, never stopping has always been our driving force to proceed.We are striving efforts to make constant progress, taking environmental protection, energy saving and high efficiency as our responsibilities, and are committed to providing customers with more comprehensive and valuable application solutions.

80,000+
Annual Sales by Sets

100+
Service Regions

6,000+
Annual Capacity

200,000㎡
Factory Area

HYBRID POWER
Modular Design

Flexible configuration, more applications, energy saving and better qualified parts for your leading market competitiveness.

Application Area

UN-E 900-10,000kN
Solutions for precision and high-speed products

HS-E 4,500-33,000kN
Solution for high-capacity and high-speed products

HD-E 1,600-10,000kN
Solutions for multi-component and precision products

INJECTION SPEED

△ E: 200 mm/s

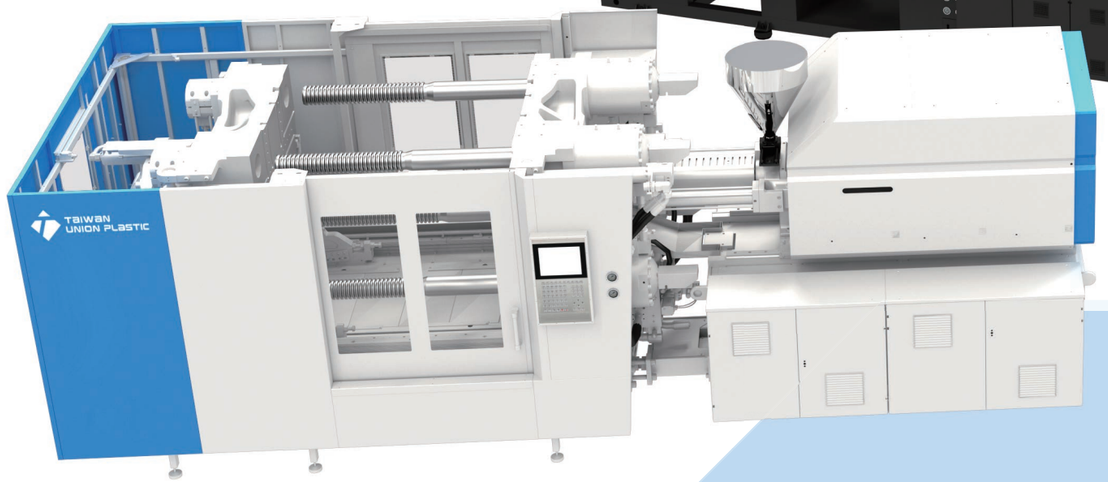
△ EH: 350 mm/s

ES
All-Electric Series

UN-E
Hybrid Series

HD-E
Multi-Component Hybrid Series

HS-E
Two-Platen Hybrid Series



UN-E

Hybrid Injection Molding Machine Series

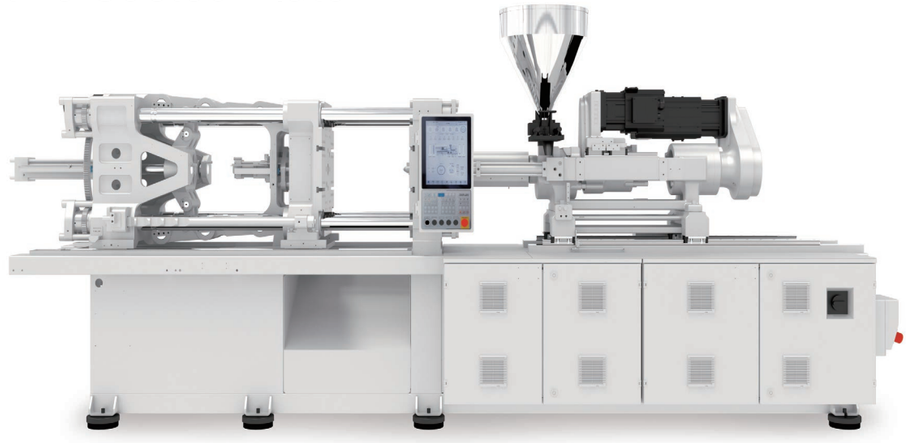
The Max. injection speed can reach 450mm/s
The Max. screw rotation speed can reach 400rpm

Repeatable accuracy of clamping force < 1%
Injection positioning accuracy ≤ 0.05mm

Energy saving up to 20%
Parallel plasticizing while mold opening

Mold protection function
Comprehensive automation interface

High Rigidity
Monolithic Casted Platen



High rigidity platen structure

- Employing finite element design & optimization to ensure stable operation.
- All series of platens T-slots to facilitate mold removal and to enhance the platen service life.

Integrated framework

- The overall rigidity of the injection mechanism is stronger.
- Product Weight Repeatability Accuracy ±0.01%

Adopting linear guide rail

- Low friction coefficient, precise control and stable molding.

Extended sliding foot design

- The movable platen adopts a front-mounted sliding foot to prevent tilting, ensuring smooth operation even with heavy molds.

Injection closed-loop control

- The injection pressure and holding pressure have a stable accuracy of ± 0.1Mpa.

Ejector forced to reset

- Make it as the standard configuration to meet the requirments of special molds, to provide excellent adaptability.

Quick barrel removal structure

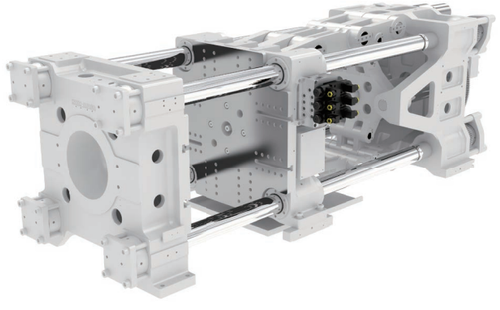
- More convenient and user-friendly design when replacing screws.

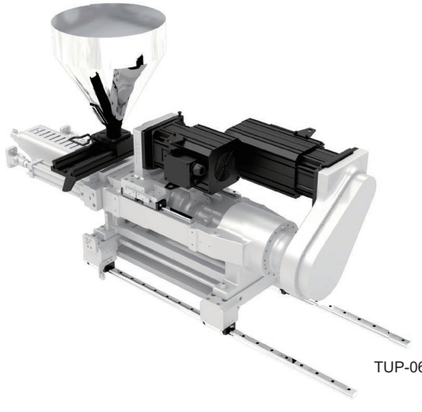
Fully automatic lubrication system

- To provide the timely and better lubrication to extend the sesrvice life of the machine.

Efficient plasticizing screw

- To enhance plasticizing efficiency.
- Various special screws are available for selection.





Wide Range of Applications
Modular Design Concept

Independent Electric Injection Unit

Modular design with an electrically precise independent injection structure, compatible with upgrades for original equipment of various tonnages and brands. Easily enables upgrades from single-color to dual-color applications, as well as expanded mixing capabilities.

- + Hydraulic Series → Hybrid-Electric Two-Color Series
- Replace Hydraulic Injection Unit → Hybrid-Electric Single-Color Series
- +All-Electric Series → All-Electric Two-Color Series
- +Two-Platen Series → Two-Platen Two-Color Series
- Replace Two-Platen Hydraulic Injection Unit → Hybrid-Electric Two-Platen Series

Advantages of Electric Injection Unit

- Compact structure with integrated frame
- Fully servo-driven, injection accuracy < 0.01mm
- High-efficiency specialized plasticizing screw for enhanced plasticization

Flexible Configuration

- Independently closed-loop controlled injection pressure technology, compatible with injection molding machines of any brand.
- Stand-alone injection unit structure meets diverse mold production needs with low upgrade costs.

Hybrid Power Derivative Series + Toggle Structure

UN-E

900-10,000kN
Solutions for Precision and High-Speed Products
Industries : Daily Necessities \ Consumables\
Toys \ Home Appliances

HD-E

1,600-10,000kN
Solutions for Multi-Component and Precision Products
Industries:Multi-color Toys \ multi-color automotive parts
\ Home Appliances

Hybrid Power Derivative Series + Two-Platen Structure

HS-E

4,500-33,000kN
Solutions for Large-Capacity and High-Speed Products
Industries:Large Automotive Parts \ Home Appliances
\ Logistics