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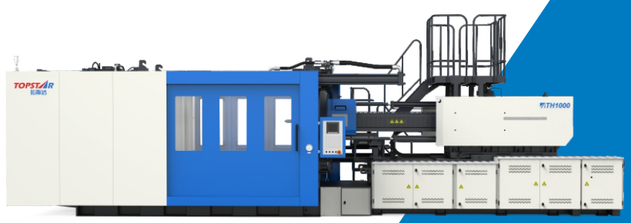
TSDSC2025-B


# TH SERIES

## INJECTION MOLDING MACHINE

Direct Clamp Injection Molding Machine





Stock Code 300607

Suzhou Wuzhong Economic Development Zone
East China R&D and Manufacturing Base

# Introduction of Injection Molding Machine Business Unit

Make injection molding manufacturing more efficient, make industrial manufacturing better

Topstar Injection Molding Machine Business Unit is the only domestic injection molding equipment organization with an "injection molding machine and auxiliary equipment self-research and self-production system". Its advantages are high self-research rate, wide user base, integration experience and implementation of the whole plant.

Topstar insists on the mission of "making industrial manufacturing better". Based on the Topstar intelligent equipment platform and more than 30 years of brand injection molding machine heritage, we are committed to promoting more intelligent injection molding machines and system engineering, to provide customers with the whole process and the whole cycle of injection molding product services.

## R&D Concept

Topstar injection molding machine research and development concept focus on "systematization, universalization, precision, cost-effectiveness".

Systematization refers to the use of hardware to enable the injection molding machine, robot and auxiliary machine to cooperate to achieve "robot tracking clamping position compensation" and improve the performance of the injection molding station. At the same time, the use of "injection molding machine control system" software to achieve the integration of injection molding machine and auxiliary machine control, thus forming a systemic overall solution for the injection molding industry.

Precision refers to the optimization of independent research and product design to improve temperature, speed, injection pressure; reduce raw materials; control energy consumption and other key indicators, to improve product quality and production efficiency.

Generalization means that the Topstar injection molding machine applies to most industries and scenarios of injection molding machine applications, and it can facilitate the production of many kinds of products for customers.

Cost-effectiveness refers to the design principle of "10%-15% improvement in accessories and functions of injection molding equipment" when comparing with products of the same price level, to improve efficiency and reduce costs for customers.

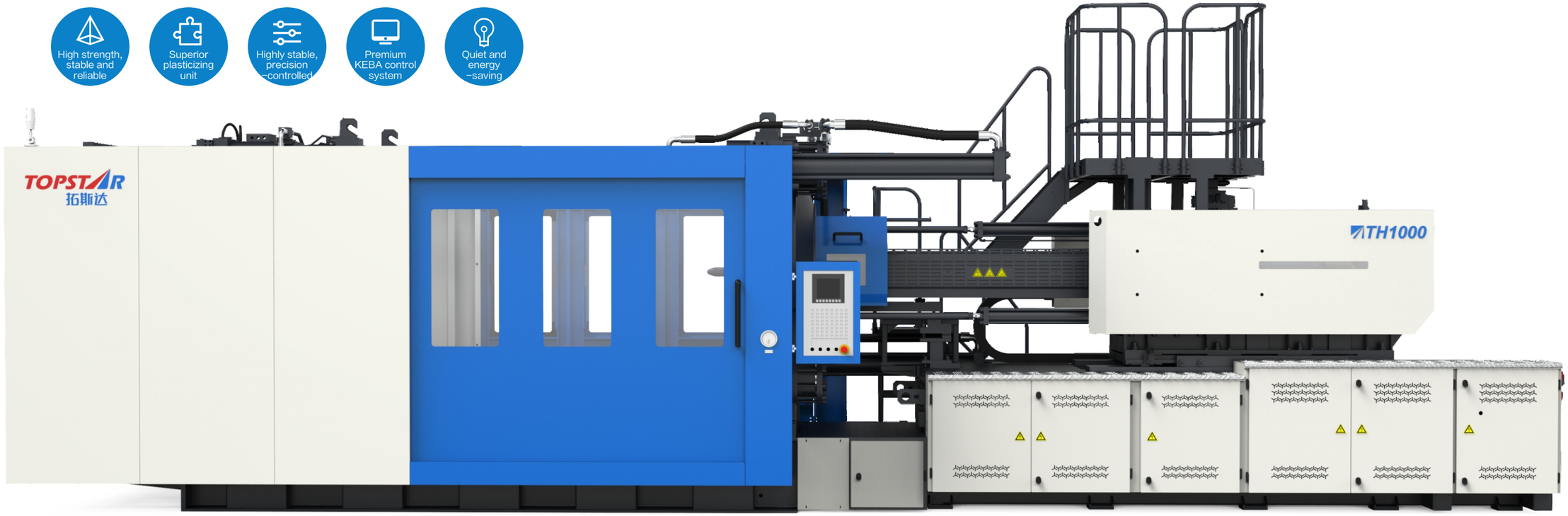
# TH Series Products

The injection molding machine has the ability to mold dense plastic products with complex appearance, precise dimensions or metal inserts in one go.

## Product Features

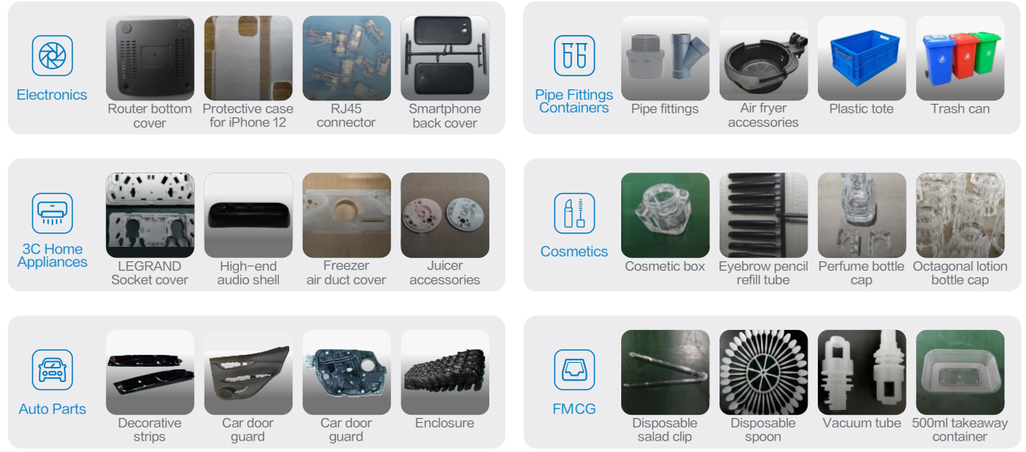
- Stable and sturdy, simple and practical
- High reliability and easy to operate
- Easy to process and install
- Easy to repair and maintain

- High strength, stable and reliable
- Superior plasticizing unit
- Highly stable, precision -controlled
- Premium KEBA control system
- Quiet and energy -saving





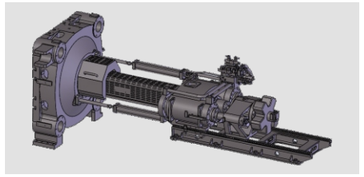

# Application Industries



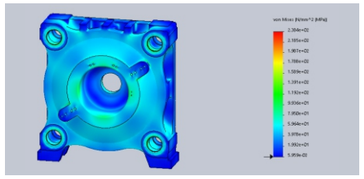
# Product Accessories

TH general-purpose precision servo-driven injection molding machine
550Ton-2800Ton

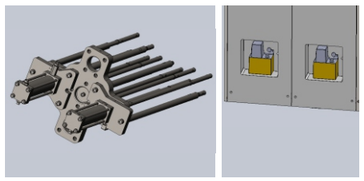
Advanced oil circuit design with European professional controller makes the machine action stable, combined with high product yield, fast response time, precise control, easy operation, and meet a variety of process requirements.



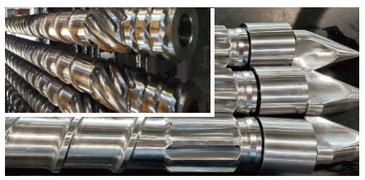
Diagonal double injection mold shift oil cylinder and linear guide, more accurate and stable injection.



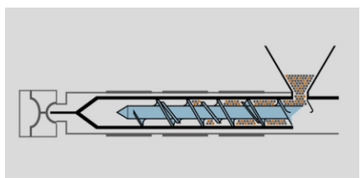
Optimized and upgraded platen, with reliable structure and small deformation, can effectively protect the equipment and improve the service life of mold.



Focus on the actual customer experience, including industrial design, human-machine interaction and other details optimization.



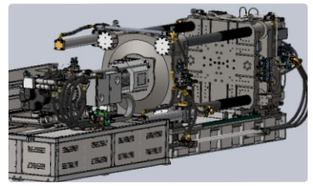
High performance chrome plated screw, durable and efficient, wide range of application. High color mixing/high mixing screw: to meet the high color mixing products, easy to change color custom screw: specially customized plasticizing components for different products, such as PC, PA, etc.



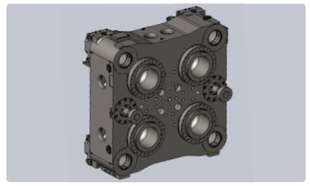
Professional matching of plasticizing components to meet the plasticizing requirements and color mixing performance of different materials.



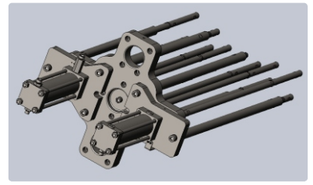
# Product Features



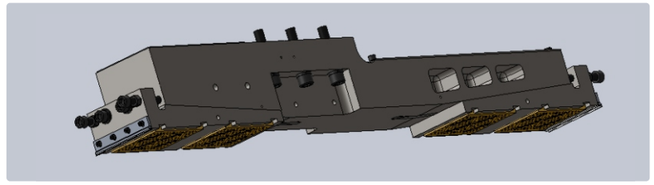
The clamping, injection platform, hydraulic, electric control, appearance, etc. have been fully optimized, and the overall performance has been greatly improved;



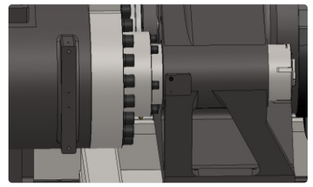
Adopt the center four-cylinder mold clamping, so the clamping force is evenly distributed in the center of the template. It can realize high product shaping accuracy and the improved long life of the machine and the mold;



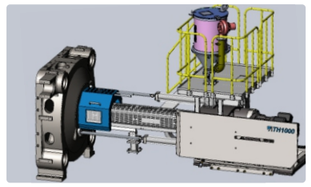
Adopt European standard ejector pin, with large operation space for ejector pin;



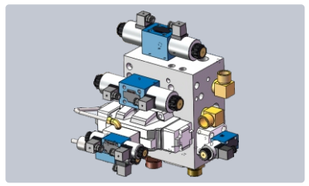
Adopt extended slide feet. Good stability of the mold plate can be installed with heavy molds;



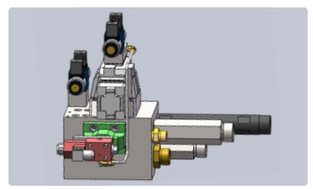
Adopt bi-directional synchronous injection cylinder structure to prevent damage of screw and line rail from deviation load;



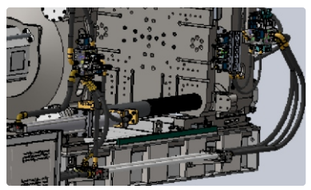
New injection unit, overall frame type base, beautiful design of shield, safe and stable;



Oil circuit system fully upgraded, safe, stable, full-featured, with fast operation cycle of differential clamping;



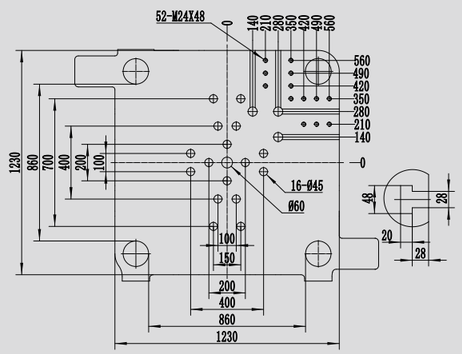
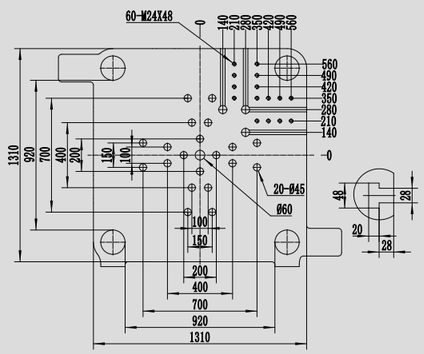
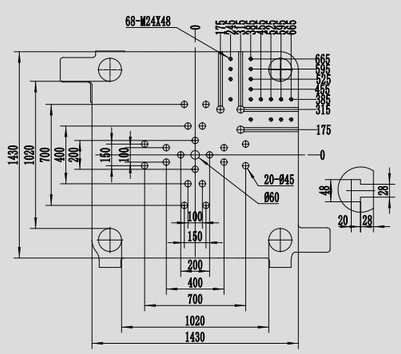
CNC proportional back pressure of melting, precise control;



Adopt independent high pressure pipeline, reduce the pipeline load and thus reduce the risk of oil leakage;

High-end injection molding machine professional computer controller.

# Product Parameters

| INJECTION UNIT | UNITS | TH550 | | | TH650 | | | TH800 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Screw Diameter | mm | 80 | 85 | 90 | 85 | 90 | 100 | 90 | 100 | 110 |
| Screw L/D Ratio | L/D | 23.4 | 22.0 | 20.8 | 23.3 | 22.0 | 19.8 | 24.4 | 22.0 | 20.0 |
| Screw Stroke | mm | 425 | 425 | 425 | 450 | 450 | 450 | 480 | 480 | 480 |
| Shot Volume | $cm^3$ | 2136 | 2412 | 2704 | 2554 | 2863 | 3534 | 3054 | 3770 | 4562 |
| Shot Weight(ps) | g | 1944 | 2195 | 2460 | 2324 | 2605 | 3216 | 2779 | 3431 | 4151 |
| | oz | 68.4 | 77.3 | 86.6 | 81.8 | 91.7 | 113.2 | 97.8 | 120.8 | 146.1 |
| Injection Pressure | $kgf/cm^2$ | 1985 | 1758 | 1569 | 1976 | 1763 | 1428 | 2178 | 1764 | 1458 |
| Injection Rate | $cm^3/s$ | 470 | 531 | 595 | 590 | 662 | 817 | 603 | 744 | 900 |
| Injection Speed | mm/s | 94 | 94 | 94 | 104 | 104 | 104 | 95 | 95 | 95 |
| Screw Speed | rpm | | 157 | | | 176 | | | 147 | |
| Nozzle Contact Force | t | | 9.1 | | | 9.8 | | | 12.8 | |
| Nozzle Stroke | mm | | 575 | | | 610 | | | 650 | |
| **CLAMPING UNIT** | **UNITS** | **TH550** | | | **TH650** | | | **TH800** | | |
| Clamping Force | t | | 550 | | | 650 | | | 800 | |
| Opening Stroke | mm | | 1700 ( Actual mold thickness ) | | | 1850 ( Actual mold thickness ) | | | 2130 ( Actual mold thickness ) | |
| Platen size(H×V) | mm | | 1230×1230 | | | 1310×1310 | | | 1430×1430 | |
| Space Between Tie Bars(H×V) | mm | | 860×860 | | | 920×920 | | | 1020×1020 | |
| Mlould Thickness(Min) | mm | | 400 | | | 450 | | | 450 | |
| Mlould Thickness(Max) | mm | | 900 | | | 1000 | | | 1180 | |
| Max. Daylight | mm | | 1700 | | | 1850 | | | 2130 | |
| Ejector Force | t | | 16.0 | | | 16.0 | | | 18.2 | |
| Ejector Stroke | mm | | 250 | | | 280 | | | 300 | |
| Mlould Locating Ring | mm | | 160 | | | 160 | | | 200 | |
| Ejector DI/DO | pcs | | 17 | | | 21 | | | 21 | |
| **POWER/HEATING UNIT** | **UNITS** | **TH550** | | | **TH650** | | | **TH800** | | |
| System Pressure | $kgf/cm^2$ | | 175 | | | 175 | | | 175 | |
| Pump Power | kw | | 61 | | | 68 | | | 79 | |
| Heating Power | kw | | 43.4 | | | 49.6 | | | 60.4 | |
| Total Current | A | | 255 | | | 266 | | | 298 | |
| Number of Temp Control Zones | unit | | 5+1 | | | 6+1 | | | 6+1 | |
| **OTHERS** | **UNITS** | **TH550** | | | **TH650** | | | **TH800** | | |
| Machine Dimensions(LxWxH) | m | | 7.97*2.3*2.3 | | | 8.75×2.27×2.3 | | | 9.71×2.37×2.4 | |
| Oil Tank Capacity | L | | 700 | | | 700 | | | 950 | |
| Machine Weight | t | | 18.5 | | | 23 | | | 27 | |
| Platen Specification | |  | | |  | | |  | | |

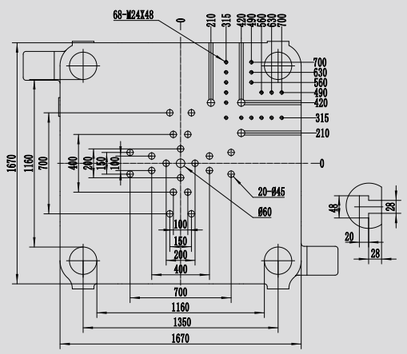
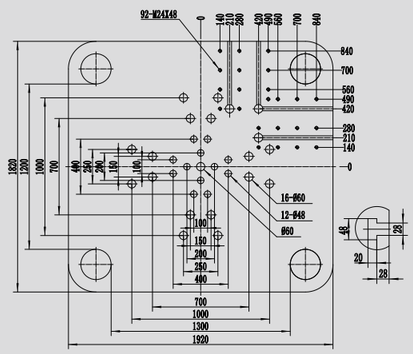
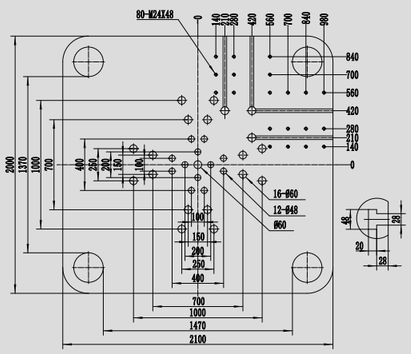






Due to the continuous development of technology, improvement and update of design, the above specifications are subject to change without prior notice.

# Product Parameters

| INJECTION UNIT | UNITS | TH1000 | | | TH1200 | | | TH1400 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Screw Diameter | mm | 100 | 110 | 120 | 100 | 110 | 120 | 110 | 120 | 130 |
| Screw L/D Ratio | L/D | 24.2 | 22.0 | 20.2 | 24.2 | 22.0 | 20.2 | 24.0 | 22.0 | 20.3 |
| Screw Stroke | mm | 530 | 530 | 530 | 530 | 530 | 530 | 575 | 575 | 575 |
| Shot Volume | $cm^3$ | 4163 | 5037 | 5994 | 4163 | 5037 | 5994 | 5464 | 6503 | 7632 |
| Shot Weight(ps) | g | 3788 | 4583 | 5455 | 3788 | 4583 | 5455 | 4973 | 5918 | 6945 |
| | oz | 133.3 | 161.3 | 192.0 | 133.3 | 161.3 | 192.0 | 175.0 | 208.3 | 244.5 |
| Injection Pressure | $kgf/cm^2$ | 2197 | 1816 | 1526 | 2197 | 1816 | 1526 | 2029 | 1705 | 1453 |
| Injection Rate | $cm^3/s$ | 757 | 916 | 1090 | 757 | 916 | 1090 | 920 | 1095 | 1285 |
| Injection Speed | mm/s | 96 | 96 | 96 | 96 | 96 | 96 | 97 | 97 | 97 |
| Screw Speed | rpm | | 137 | | | 137 | | | 121 | |
| Nozzle Contact Force | t | | 12.8 | | | 16.0 | | | 21.0 | |
| Nozzle Stroke | mm | | 750 | | | 800 | | | 820 | |
| **CLAMPING UNIT** | **UNITS** | **TH1000** | | | **TH1200** | | | **TH1400** | | |
| Clamping Force | t | | 1000 | | | 1200 | | | 1400 | |
| Opening Stroke | mm | | 2390 ( Actual mold thickness ) | | | 2650 ( Actual mold thickness ) | | | 3000 ( Actual mold thickness ) | |
| Platen size(H×V) | mm | | 1670×1670 | | | 1920×1820 | | | 2100×2000 | |
| Space Between Tie Bars(H×V) | mm | | 1160×1160 | | | 1300×1200 | | | 1470×1370 | |
| MIould Thickness(Min) | mm | | 500 | | | 600 | | | 600 | |
| MIould Thickness(Max) | mm | | 1290 | | | 1400 | | | 1490 | |
| Max. Daylight | mm | | 2390 | | | 2650 | | | 3000 | |
| Ejector Force | t | | 26.0 | | | 26.0 | | | 32.0 | |
| Ejector Stroke | mm | | 320 | | | 350 | | | 350 | |
| MIould Locating Ring | mm | | 200 | | | 200 | | | 200 | |
| Ejector DI/DO | pcs | | 21 | | | 25 | | | 25 | |
| **POWER/HEATING UNIT** | **UNITS** | **TH1000** | | | **TH1200** | | | **TH1400** | | |
| System Pressure | $kgf/cm^2$ | | 175 | | | 175 | | | 175 | |
| Pump Power | kw | | 106 | | | 106 | | | 122 | |
| Heating Power | kw | | 70 | | | 70 | | | 77.3 | |
| Total Current | A | | 337 | | | 337 | | | 364 | |
| Number of Temp Control Zones | unit | | 7+1 | | | 7+1 | | | 7+1 | |
| **OTHERS** | **UNITS** | **TH1000** | | | **TH1200** | | | **TH1400** | | |
| Machine Dimensions(LxWxH) | m | | 10.33×3.15×3.4 | | | 10.8×3.35×3.47 | | | 11.55×3.54×3.55 | |
| Oil Tank Capacity | L | | 1200 | | | 1200 | | | 1500 | |
| Machine Weight | t | | 39 ( 29+10 ) | | | 48 ( 38+10 ) | | | 58 ( 44+14 ) | |
| Platen Specification | |  | | |  | | |  | | |



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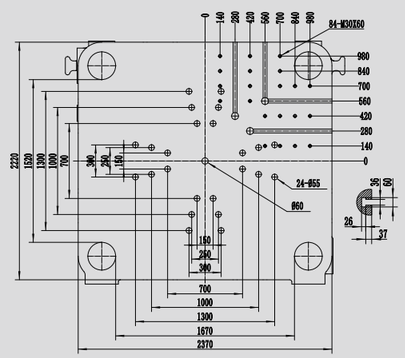
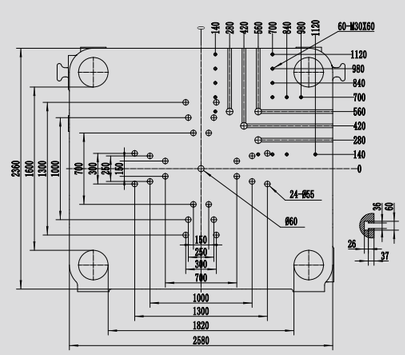
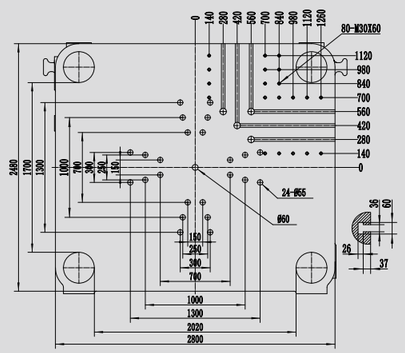
# Product Parameters

| INJECTION UNIT | UNITS | TH1800 | | | TH2200 | | | TH2800 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Screw Diameter | mm | 130 | 140 | 150 | 140 | 150 | 160 | 160 | 175 | 200 |
| Screw L/D Ratio | L/D | 23.7 | 22.0 | 20.5 | 23.6 | 22.0 | 20.6 | 24.0 | 22.0 | 19.3 |
| Screw Stroke | mm | 770 | 770 | 770 | 825 | 825 | 825 | 960 | 960 | 960 |
| Shot Volume | $cm^3$ | 10220 | 11853 | 13607 | 12700 | 14579 | 16588 | 19302 | 23091 | 30159 |
| Shot Weight(ps) | g | 9301 | 10786 | 12382 | 11557 | 13267 | 15095 | 17565 | 21013 | 27445 |
| | oz | 328.1 | 380.5 | 436.8 | 407.7 | 468.0 | 532.4 | 619.6 | 741.2 | 968.1 |
| Injection Pressure | $kgf/cm^2$ | 1929 | 1663 | 1449 | 1942 | 1692 | 1487 | 1999 | 1671 | 1386 |
| Injection Rate | $cm^3/s$ | 1128 | 1308 | 1501 | 1339 | 1537 | 1748 | 1588 | 1899 | 2292 |
| Injection Speed | mm/s | 85 | 85 | 85 | 87 | 87 | 87 | 79 | 79 | 73 |
| Screw Speed | rpm | | 110 | | | 98 | | | 82 | |
| Nozzle Contact Force | t | | 21.0 | | | 27.5 | | | 27.5 | |
| Nozzle Stroke | mm | | 990 | | | 1100 | | | 1200 | |
| **CLAMPING UNIT** | **UNITS** | **TH1800** | | | **TH2200** | | | **TH2800** | | |
| Clamping Force | t | | 1800 | | | 2200 | | | 2800 | |
| Opening Stroke | mm | | 3350 ( Actual mold thickness ) | | | 3600 ( Actual mold thickness ) | | | 3900 ( Actual mold thickness ) | |
| Platen size(H×V) | mm | | 2370×2220 | | | 2580×2360 | | | 2800×2480 | |
| Space Between Tie Bars(H×V) | mm | | 1670×1520 | | | 1820×1600 | | | 2020×1700 | |
| MIould Thickness(Min) | mm | | 750 | | | 800 | | | 900 | |
| MIould Thickness(Max) | mm | | 1700 | | | 1800 | | | 2000 | |
| Max. Daylight | mm | | 3350 | | | 3600 | | | 3900 | |
| Ejector Force | t | | 46.0 | | | 46.0 | | | 52.0 | |
| Ejector Stroke | mm | | 450 | | | 450 | | | 500 | |
| MIould Locating Ring | mm | | 250 | | | 250 | | | 250 | |
| Ejector DI/DO | pcs | | 25 | | | 25 | | | 25 | |
| **POWER/HEATING UNIT** | **UNITS** | **TH1800** | | | **TH2200** | | | **TH2800** | | |
| System Pressure | $kgf/cm^2$ | | 175 | | | 175 | | | 175 | |
| Pump Power | kw | | 135 | | | 167 | | | 210 | |
| Heating Power | kw | | 87 | | | 100 | | | 140 | |
| Total Current | A | | 519 | | | 592 | | | 728 | |
| Number of Temp Control Zones | unit | | 8+1 | | | 8+1 | | | 9+1 | |
| **OTHERS** | **UNITS** | **TH1800** | | | **TH2200** | | | **TH2800** | | |
| Machine Dimensions(LxWxH) | m | | 13.8×3.83×3.9 | | | 14.92×4×4 | | | 16.53×4.25×4.3 | |
| Oil Tank Capacity | L | | 1850 | | | 2100 | | | 2700 | |
| Machine Weight | t | | 78 ( 60+18 ) | | | 114 ( 90+24 ) | | | 130 ( 100+30 ) | |
| Platen Specification | |  | | |  | | |  | | |







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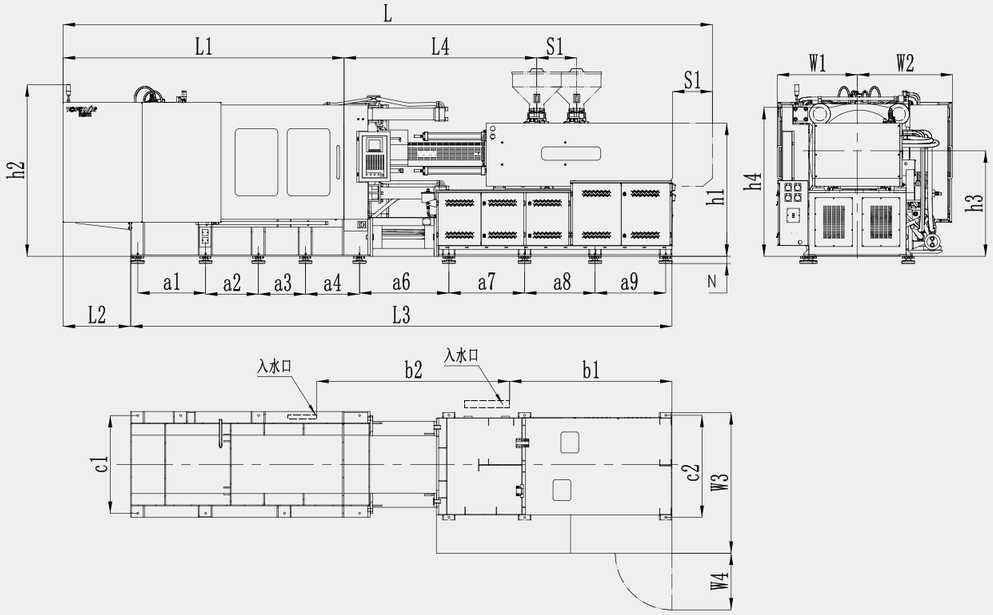
# Product Specification

## TH550-800 Appearance size chart




| Model | TH550 | TH650 | TH800 |
|---|---|---|---|
| a1 | 690 | 780 | 865 |
| a2 | 800 | 780 | 865 |
| a3 | 800 | 780 | 865 |
| a4 | 580 | 700 | 865 |
| a6 | 870 | 1342 | 1185 |
| a7 | 1375 | 960 | 1200 |
| a8 | 0 | 0 | 1000 |
| a9 | 1445 | 1788 | 1000 |
| b1 | -150 | 1770 | 1900 |
| b2 | 5240 | 3050 | 3045 |
| C1 | 1300 | 1280 | 1390 |
| C2 | 1575 | 1295 | 1480 |
| W1 | 1087 | 1062 | 1127 |
| N | 94 | 94 | 94 |

| Model | TH550 | TH650 | TH800 |
|---|---|---|---|
| W2 | 1208 | 1206 | 1243 |
| W3 | 1985 | 1713 | 1930 |
| W4 | 600 | 636 | 680 |
| h1 | 1695 | 1723 | 1798 |
| h2 | 2212 | 2245 | 2395 |
| h3 | 1340 | 1338 | 1433 |
| h4 | 1910 | 1948 | 2103 |
| S1 | 575 | 610 | 650 |
| L | 7970 | 8753 | 9708 |
| L1 | 3557 | 3765 | 4166 |
| L2 | 827 | 860 | 891 |
| L3 | 6845 | 7295 | 8010 |
| L4 | 2184 | 2294 | 2528 |
| nXØd | 16XØ22 | 16XØ27 | 18XØ27 |

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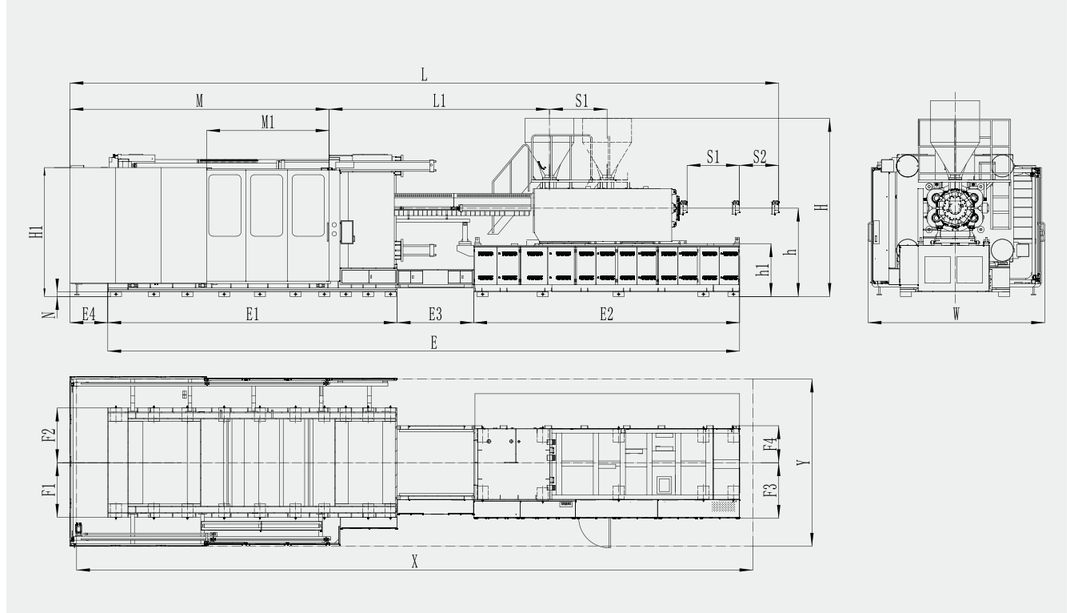
## TH1000-2800 Appearance size chart




| Model | TH1000 | TH1200 | TH1400 | TH1800 | TH2200 | TH2800 |
|---|---|---|---|---|---|---|
| L | 10326 | 10796 | 11550 | 13805 | 14923 | 16533 |
| L1 | 2819 | 2819 | 3047 | 3571 | 3799 | 4376 |
| H | 3445 | 3445 | 3680 | 4099 | 4130 | 4260 |
| W | 3146 | 3346 | 3536 | 3826 | 4006 | 4246 |
| E | 8835 | 9335 | 10125 | 12050 | 12505 | 14480 |
| E1 | 4035 | 4535 | 4935 | 5635 | 6090 | 6615 |
| E2 | 4035 | 4035 | 4425 | 5510 | 5510 | 6960 |
| E3 | 765 | 765 | 765 | 905 | 905 | 905 |
| E4 | 1027 | 1044 | 1075 | 1418 | 1460 | 1608 |
| H1 | 2300 | 2300 | 2375 | 2375 | 2375 | 2375 |
| h | 1649 | 1728 | 1817 | 2074 | 2074 | 2074 |
| h1 | 1033 | 1160 | 1167 | 1275 | 1275 | 1275 |

| Model | TH1000 | TH1200 | TH1400 | TH1800 | TH2200 | TH2800 |
|---|---|---|---|---|---|---|
| M | 4667 | 5084 | 5465 | 6363 | 6760 | 7773 |
| M1 | 2278 | 2473 | 2473 | 3033 | 3033 | 3298 |
| S1 | 750 | 800 | 820 | 990 | 1100 | 1200 |
| S2 | 530 | 530 | 575 | 770 | 825 | 960 |
| F1 | 830 | 960 | 1085 | 1165 | 1255 | 1365 |
| F2 | 830 | 960 | 1085 | 1165 | 1255 | 1365 |
| F3 | 978 | 978 | 978 | 1040 | 1040 | 1040 |
| F4 | 1385 | 1385 | 1385 | 1440 | 1440 | 1440 |
| X | 9800 | 10300 | 11100 | 13650 | 14105 | 16080 |
| Y | 3150 | 3280 | 3400 | 3760 | 4110 | 4330 |
| N | 100 | 100 | 100 | 100 | 100 | 100 |

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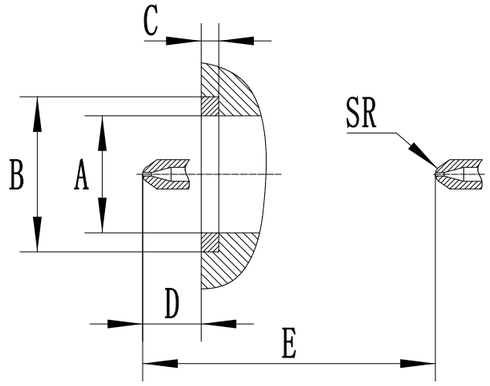
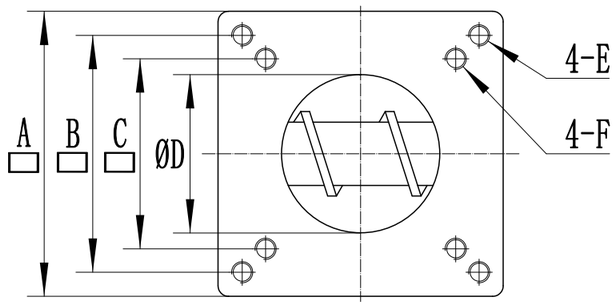
## Locating ring & nozzle position size




| Model | TH550 | TH650 | TH800 | TH1000 | TH1200 | TH1400 | TH1800 | TH2200 | TH2800 |
|---|---|---|---|---|---|---|---|---|---|
| A | Ø160 | Ø160 | Ø200 | Ø200 | Ø200 | Ø200 | Ø250 | Ø250 | Ø250 |
| B | — | — | Ø250 | Ø250 | Ø250 | Ø250 | Ø315 | Ø315 | Ø315 |
| C | — | — | 20 | 20 | 20 | 20 | 30 | 30 | 30 |
| D | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| E | 575 | 610 | 650 | 750 | 800 | 820 | 990 | 1100 | 1200 |
| SR | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

## Material feeding gate size




| Model | TH550 | TH650 | TH800 | TH1000 | TH1200 | TH1400 | TH1800 | TH2200 | TH2800 |
|---|---|---|---|---|---|---|---|---|---|
| A | 180 | 180 | 180 | 180 | 180 | 232 | 270 | 270 | 270 |
| B | 140 | 140 | 140 | 140 | 140 | 200 | 200 | 200 | 200 |
| C | 115 | 115 | 115 | 115 | 115 | 140 | 160 | 160 | 160 |
| D | 114 | 114 | 114 | 125 | 125 | 160 | 175 | 175 | 175 |
| E | M12 | M12 | M12 | M12 | M12 | M12 | M16 | M16 | M16 |
| F | M10 | M10 | M10 | M10 | M10 | M10 | M10 | M10 | M10 |

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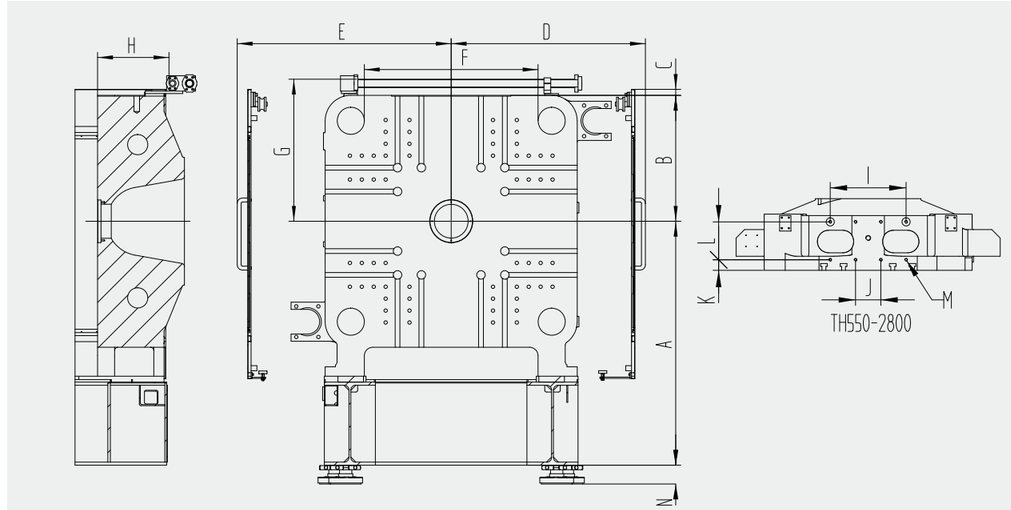
# Installation Dimensions

## TH1000-2800 Appearance size chart




## Robot assemble connecting size

( N is the reference size of the shock foot, subject to the height of the installed machine debugging on site )

| 机型 Model | TH550 | TH650 | TH800 | TH1000 | TH1200 | TH1400 | TH1800 | TH2200 | TH2800 |
|---|---|---|---|---|---|---|---|---|---|
| A | 1340 | 1338 | 1433 | 1549 | 1628 | 1717 | 1974 | 1974 | 1974 |
| B | 630 | 665 | 735 | 855 | 905 | 1000 | 1105 | 1175 | 1255 |
| C | -15 | -15 | -30 | -204 | -333 | -517 | -879 | -949 | -1029 |
| D | 1040 | 1016 | 1080 | 1428 | 1528 | 1623 | 1768 | 1858 | 1990 |
| E | 1160 | 1154 | 1195 | 1718 | 1818 | 1913 | 2058 | 2148 | 2268 |
| F | 860 | 920 | 1020 | 1160 | 1300 | 1470 | 1670 | 1820 | 2020 |
| G | - | 766 | 835 | 966 | 1025 | 1120 | - | - | - |
| H | - | 341 | 419 | 499 | 539 | 589 | - | - | - |
| I | 540 | 540 | 540 | 540 | 660 | 660 | 900 | 900 | 900 |
| J | 180 | 180 | 180 | 180 | 220 | 220 | 300 | 300 | 300 |
| K | 75 | 75 | 75 | 75 | 75 | 75 | 100 | 100 | 100 |
| L | 200 | 200 | 270 | 290 | 320 | 360 | 480 | 480 | 600 |
| M | 8-M20×40 | 8-M20×40 | 8-M20×40 | 8-M24×48 | 8-M24×48 | 8-M24×48 | 8-M30×60 | 8-M30×60 | 8-M30×60 |
| N | 94 | 94 | 94 | 100 | 100 | 100 | 100 | 100 | 100 |

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# Configuration table of Standard Series

| Mold Clamping | TH550 | TH650 | TH800 | TH1000 | TH1200 | TH1400 | TH1800 | TH2200 | TH2800 |
|---|---|---|---|---|---|---|---|---|---|
| Mounting hole of special mold | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Oiled bushes for tie bars | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Automatic lubricate for clamping | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Increase jacking force | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Increased ejector stroke | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Installation of forced reset device for mold | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Installation of heat insulation board for mold | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Bowed mold clamp | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Installation of steel belt for mold locking guide rail | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Enlarge the center hole of head plate | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Fixed Platen Locating Ring | ○ | ○ | ● | ● | ● | ● | ● | ● | ● |
| Manipulator mounting base (with interface) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Magnetic template | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Add T-groove+code mould hole for the template | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Automatic tir bar extraction device | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Increase mold capacity by | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Ejector backward in position protect | ● | ● | ● | ● | ● | ● | ● | ● | ● |

| Glue Injectiont | TH550 | TH650 | TH800 | TH1000 | TH1200 | TH1400 | TH1800 | TH2200 | TH2800 |
|---|---|---|---|---|---|---|---|---|---|
| Lengthen nozzle | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Injection nozzle assembly of filter screen | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Self-locking injection nozzle of spring (made in China) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Chromed screw&barrel set | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Specialized screw&barrel set | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Upgrade glue melting motor by a grade | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Degrade glue injection mechanism by a grade | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Degrade glue injection mechanism by two grades | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Upgrade one stage injection unit | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Increase injection stroke | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Install manual lubrication pump for injection platform | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Automatic lubrication pump for injection unit | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Tenperature detector in material feeding hole | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Double-injection shift cylinder | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Totally enclosed heat insulation cover | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Installation of air cooling device | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Nozzle shield | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| With Hopper | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Hopper slider | ○ | ○ | — | — | — | — | — | — | — |
| Enlarged hopper | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Embedded probe nozzle | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Add solenoid water valve for cold water ring | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Infrared heating band | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Ceramic heating band | ○ | ○ | ● | ● | ● | ● | ● | ● | ● |



| Hydraulic Part | TH550 | TH650 | TH800 | TH1000 | TH1200 | TH1400 | TH1800 | TH2200 | TH2800 |
|---|---|---|---|---|---|---|---|---|---|
| Two sets hydraulic core pulling on moving platen | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Two sets hydraulic core pulling on fix platen | ○ | ○ | ○ | ● | ● | ● | ● | ● | ● |
| Add a set of hydraulic core pulling system | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Add two sets of hydraulic core pulling system | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Add three sets of hydraulic core pulling system | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| One set of hydraulic core pulling system with quick coupling | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Two sets of hydraulic core pulling system with quick coupling | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Three sets of hydraulic core pulling system with quick coupling | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| One set of pneumatic core pulling system | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| One set of aeration system | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Two sets of aeration system | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Three sets of aeration system | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Hydraulic rotary demoulding (without hydraulic motor) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Hydraulic rotary demoulding (with hydraulic motor) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Core pulling system with stacked check valve | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Thimble with stacked check valve | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Synchronous thimble for mould opening | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Hydraulic synchronous glue melting circuit | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Hydraulic synchronous core pulling circuit | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| CNC back pressure | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Hydraulic safety valve device | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Nitrogen injection device | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| High-speed proportional valve control injection | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| High-speed proportional valve control clamping | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Upgrade the oil pump motor by a grade | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Upgrade the oil pump motor by two grades | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Oil temperature alarm device | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Oil level alarm device | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Oil temperature preheating function | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Upgrade oil cooler | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Installation of cooling water control valve | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Installation of shooting and movement check valve | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Bypass oil return filtration device | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Installation of high pressure hose explosion-proof chain | ● | ● | ● | ● | ● | ● | ● | ● | ● |

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# Configuration table of Standard Series

| Electrical Part | TH550 | TH650 | TH800 | TH1000 | TH1200 | TH1400 | TH1800 | TH2200 | TH2800 |
|---|---|---|---|---|---|---|---|---|---|
| KEBA high performance controller | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| OPC port access to MES system | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Electric rotary demoulding (excluding motor) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Low pressure mold protectfunction | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Unscrew device | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Secondary clamping function | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Voltage changed to 220V/3PH/60HZ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Voltage changed to 440V/3PH/50HZ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Installation of three-color alarm light | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| One set of two-phase 220V/10A socket | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ |
| Two sets of two-phase 220V/10A sockets | ○ | ○ | ○ | ● | ● | ● | ● | ● | ● |
| Four sets of three-phase five-hole 32A sockets | ● | ● | ● | — | — | — | — | — | — |
| Five sets of three-phase five-hole 32A sockets | — | — | — | ● | ● | ● | ● | ● | ● |
| Adding three-phase five-hole 16A socket | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Adding three-phase five-hole 32A socket | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Add mould for return confirmation | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Independent nozzle control | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Emergency stop button of rear door | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Speed test device for glue melting | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Equip 8.4” display screen | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Equip 10” display screen | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 12" color touch screen panel operation | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Installation of watt hour meter | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Solid state relay for heating | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Hot runner interface (connected to computer) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Interface of gas assisted injection device | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Add two sets of mould for temperature control | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Clamping force detection and display | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Data lock installation for computer operation panel | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Sequential glue injection interface | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Sequential injection (with sequence valve) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| European standard 67 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| European standard 12 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Support two languages, Chinese and English, other languages can be extended | ● | ● | ● | ● | ● | ● | ● | ● | ● |

| Metal Plate | TH550 | TH650 | TH800 | TH1000 | TH1200 | TH1400 | TH1800 | TH2200 | TH2800 |
|---|---|---|---|---|---|---|---|---|---|
| Reduce the height of safety door | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Electric door | ○ | ○ | ○ | ● | ● | ● | ● | ● | ● |
| Adding cooling flow meter | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Manifold 8 in 8 out with D12 Adapter | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Manifold 12 in 12 out with D12 Adapter | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ |
| 2 Sets of Manifolds 8 in 8 out with D12 Adapter | ○ | ○ | ○ | ● | ● | ● | ○ | ○ | ○ |
| 2 Sets of Manifolds 12 in 12 out with D12 Adapter | – | – | – | ○ | ○ | ○ | ● | ● | ● |

| Other Part | TH550 | TH650 | TH800 | TH1000 | TH1200 | TH1400 | TH1800 | TH2200 | TH2800 |
|---|---|---|---|---|---|---|---|---|---|
| Change metal plate color (color other than A/A2) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Change the color of the injection platform(color other than A/A2) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Change mould clamping color (color other than A/A2) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Change rack color (color other than A/A2) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Remark:Standard “● Optional “○”

Due to the continuous development of technology, improvement and update of design, the above specifications are subject to change without prior notice.

# After-Sale Service

## Fast Response

Quickly respond to customer needs, collect customer site information and record the failure, give reasonable maintenance Suggestions;

## Fast Arrival

Quickly arrive at customer site for equipment maintenance;

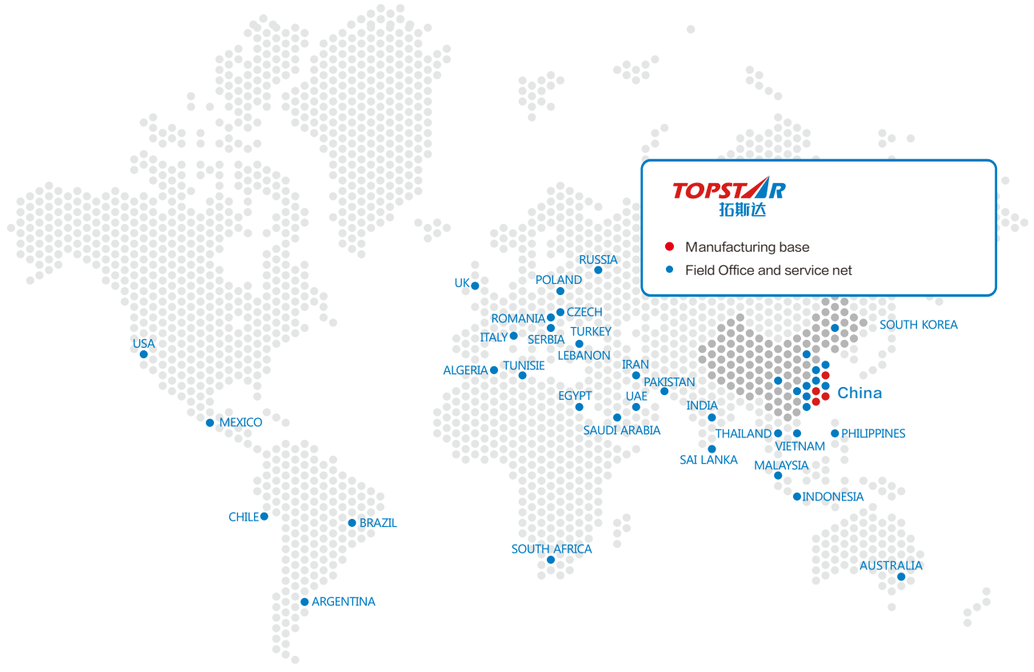
## Fast Processing

Quickly processing to help customers adjust the equipment to the best state in the first time;


## Fast Acceptance

Quickly complete the service project acceptance.

# Global Service Net




# Sincerely Appreciate

Over 15000 customer have witnessed TOPSTAR growth and long supports