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 JONWAI

## TS-SERIES

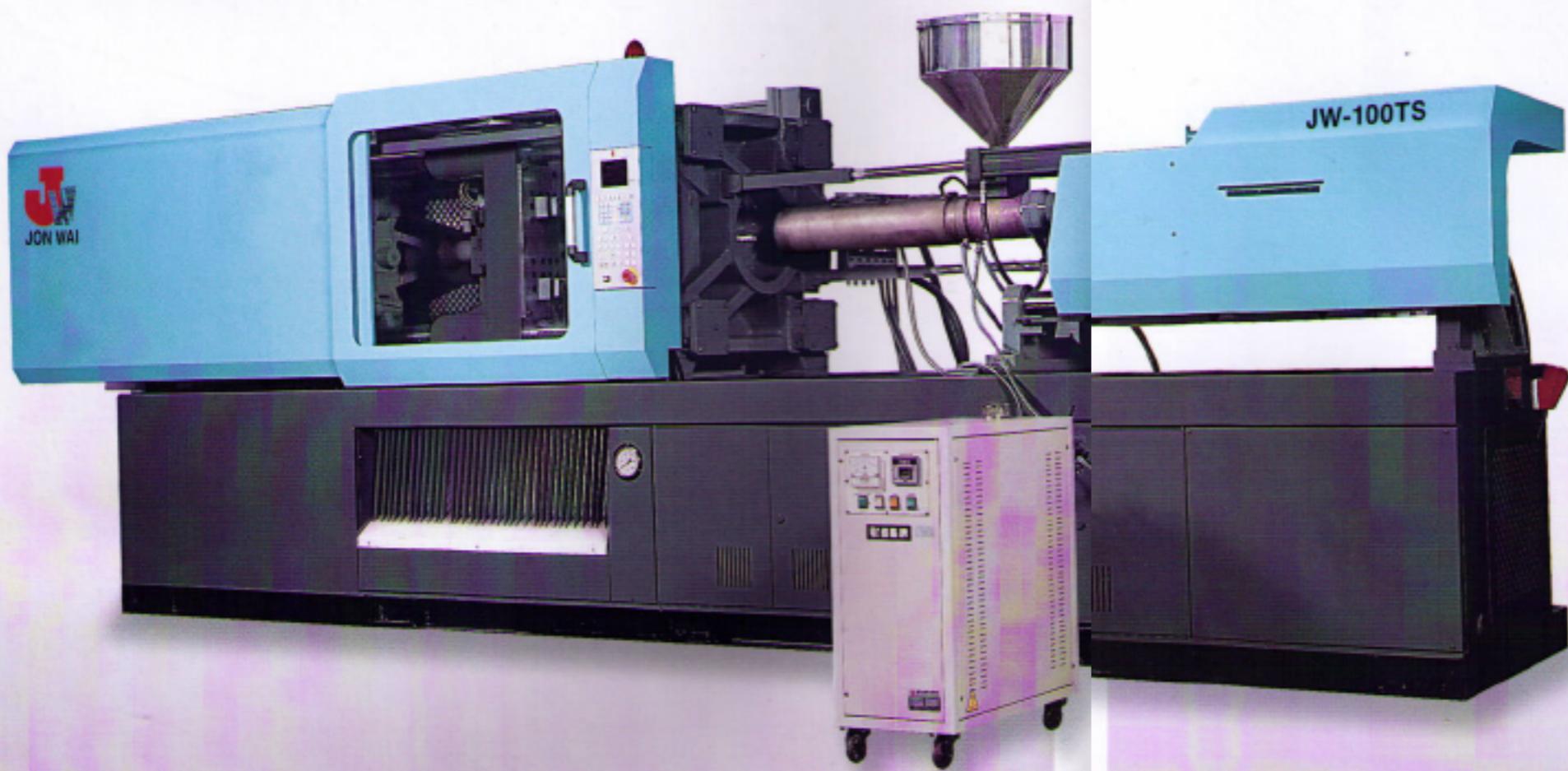
### THERMOSETTING INJECTION MOLDING MACHINE



## JON WAI PRODUCTION SYSTEMS FOR THERMOSETS

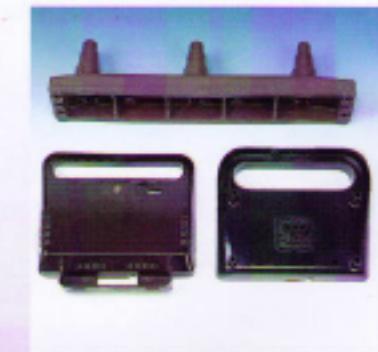
Thermosets-also known as curable or cross-linkable molding compounds-are plastics that are created in a cross-linking reaction by the introduction of pressure and heat in the injection mold. Machine that are designed especially for processing thermosets have many important equipment features installed as series standards.

JON WAI provides machines that are specially equipped for thermoset processing based the TS-series of its standard machines. The TS-series injection molding machine are flexible systems that are ideally suited for a range of special application.



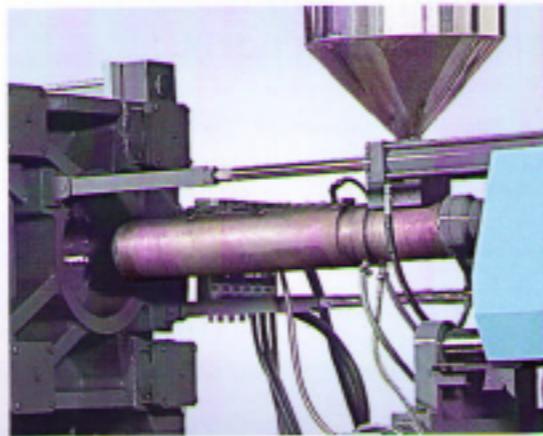
- Uniform clamp force for large-surface parts

The thickened platens of box-like structure and design without bracket on the rear palten will ensure absolutely symmetrical force distribution. This reduces the problem of symmetrical mold stress, especially in special designed such as the flexibility design on the front the rear nuts of tie bars, can avoid the stress centering on the screw, to add the wear resistance. The result is longer mold and machine life, and uniform product quality even with multicavity molds.



### • Matching plasticizer unit

Screw geometry and length are optimized for the material used. Permissible dwell time, shot volume and injection pressure very widely depending on the material. It takes an optimally tuned machine to fully exploit the potential of each material. The TS-series are exclusively designed for thermoset and offer the plasticizer units fitted with zero-compression and without a non-return valve.



### • Control System Fast and Powerful

- Plausibility checks avoid setting errors.
- Any changes to settings are recorded, so that the process can be subsequently reconstructed.
- Immediate information on production and machine events.

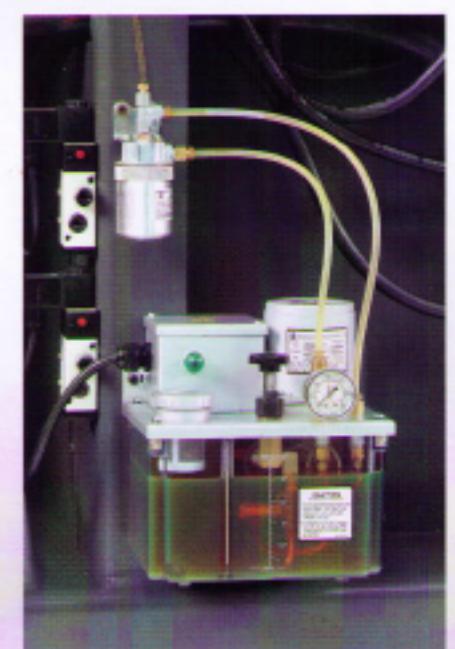
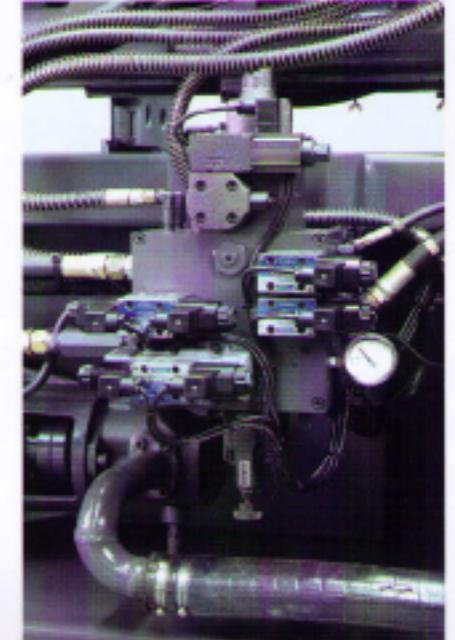
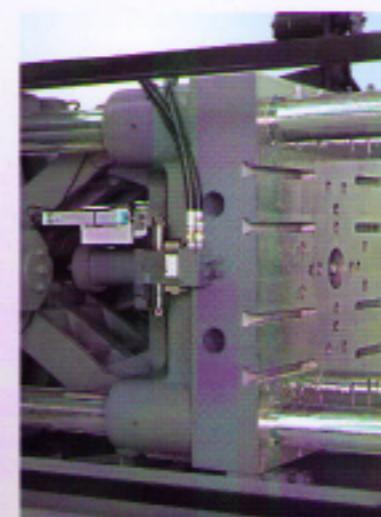
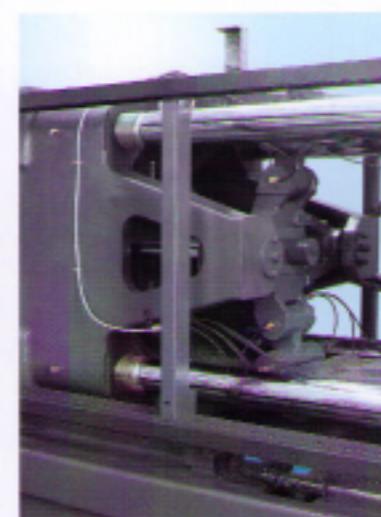


### • SPC Inspection for quality assurance

- Machine stop / non-stop period timing monitoring.
- Fulfill timing inspection.
- Automatic documentation of dependent process parameters.
- Evaluation of parameter variations during processing.

### • High Efficiency Hydraulic System

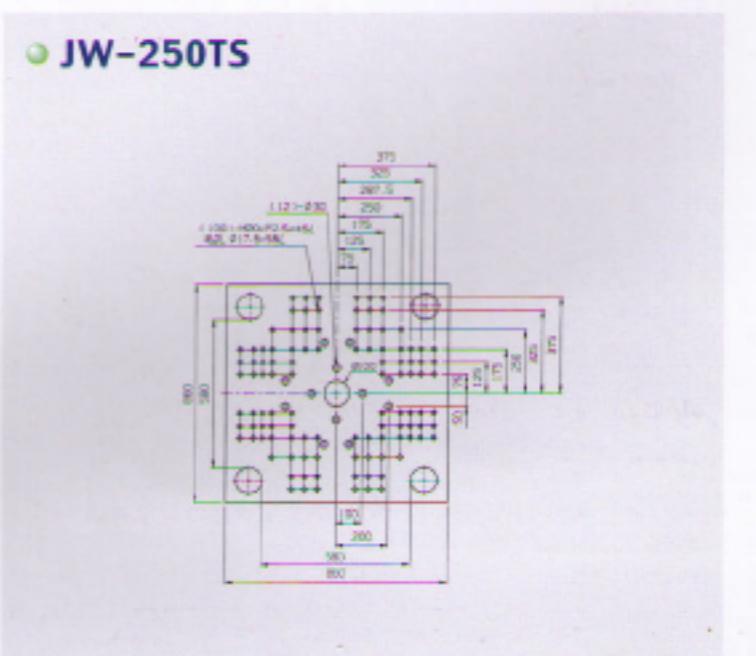
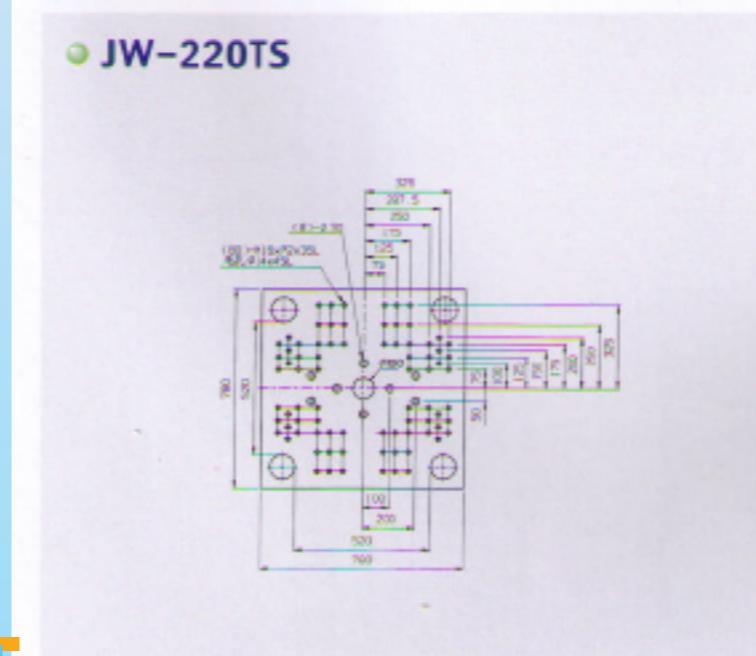
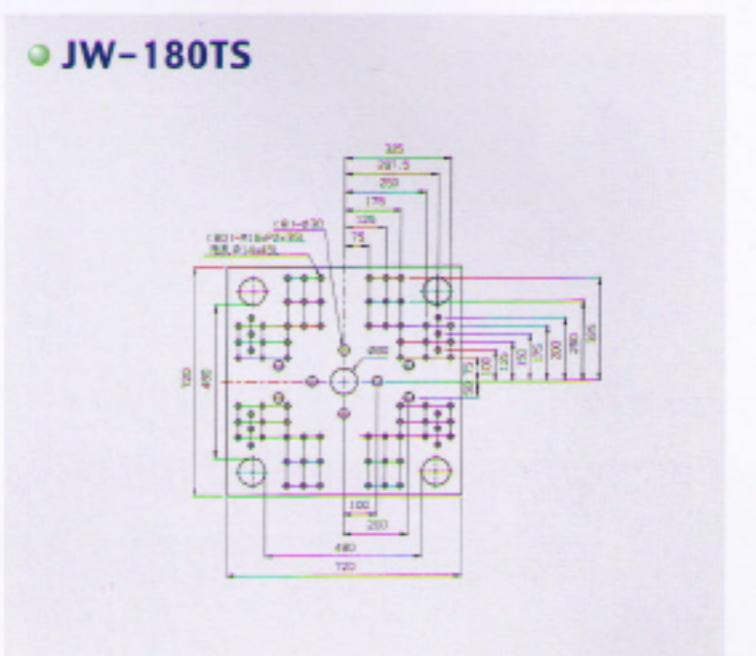
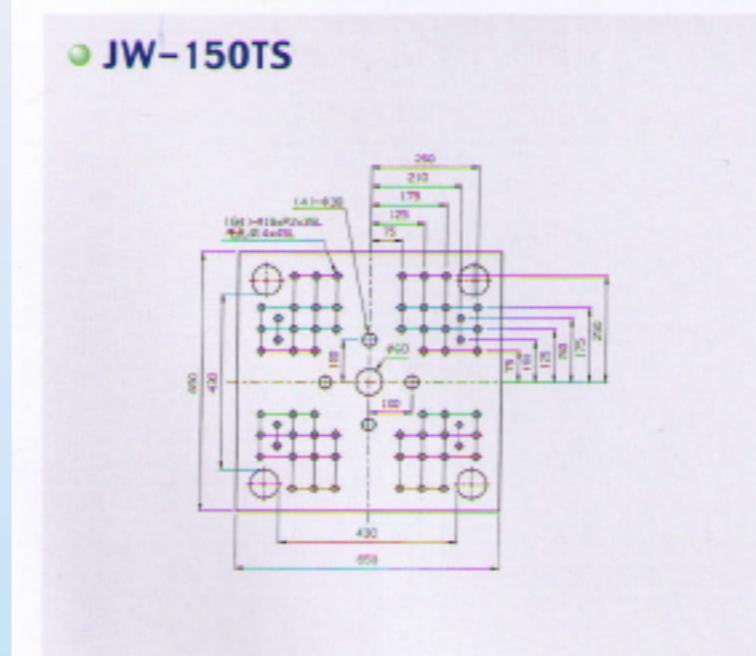
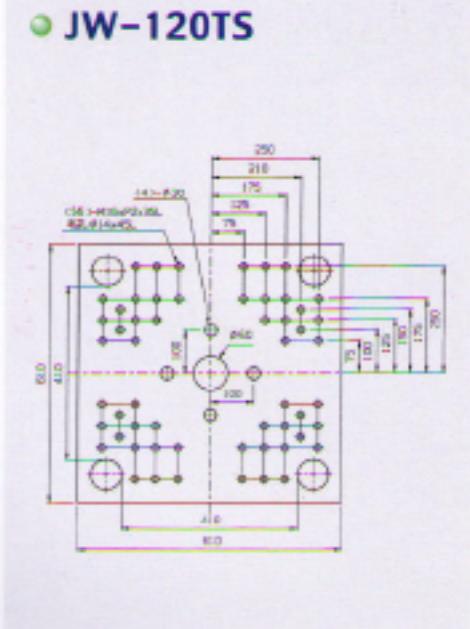
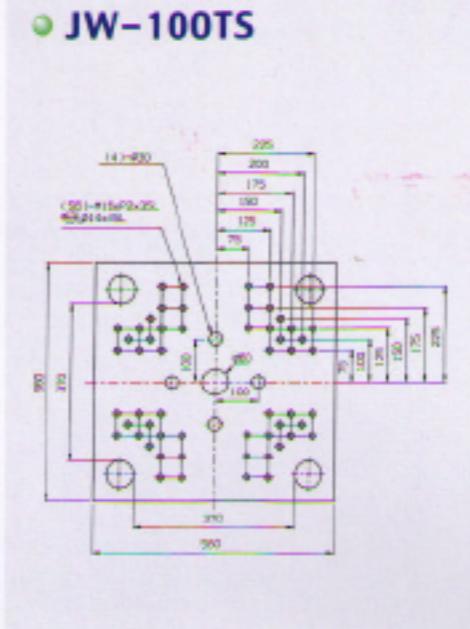
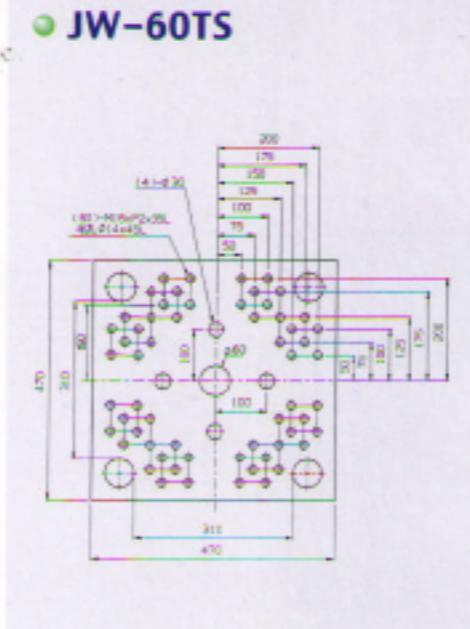
- Differential circuit added into damping and injection action.
- High sensitive low pressure protection circuit design.
- High efficiency cooler stabilize the oil temperature.
- High efficiency energy-saving.
- High torque and excellent performance of hydraulic motor.



TS

| MODELS                    |                    | JW-60TS       |      |      | JW-100TS       |      |      | JW-120TS       |      |      | JW-150TS       |      |      | JW-180TS       |      |      |
|---------------------------|--------------------|---------------|------|------|----------------|------|------|----------------|------|------|----------------|------|------|----------------|------|------|
| SCREW DIMETER             | mm                 | 32            | 35   | 38   | 35             | 38   | 42   | 38             | 42   | 45   | 42             | 45   | 50   | 50             | 55   | 60   |
| SHOT SIZE                 | gr                 | 132           | 158  | 187  | 170            | 200  | 243  | 212            | 260  | 297  | 305            | 351  | 433  | 520            | 628  | 748  |
| INJECTION PRESSURE        | kg/cm <sup>2</sup> | 2624          | 2194 | 1861 | 2379           | 2019 | 1652 | 2443           | 2000 | 1742 | 2321           | 2022 | 1637 | 2499           | 2066 | 1736 |
| CLAMPING FORCE            | ton                | 60            |      |      | 100            |      |      | 120            |      |      | 150            |      |      | 180            |      |      |
| CLAMP STROKE              | mm                 | 270           |      |      | 310            |      |      | 360            |      |      | 400            |      |      | 450            |      |      |
| MOLD HEIGHT               | mm                 | 100~320       |      |      | 150~350        |      |      | 150~400        |      |      | 150~450        |      |      | 150~550        |      |      |
| DISTANCE BETWEEN TIE-RODS | mm                 | 310×310       |      |      | 370×370        |      |      | 410×410        |      |      | 430×430        |      |      | 480×480        |      |      |
| MOTOR RATED               | HP                 | 10            |      |      | 15             |      |      | 20             |      |      | 25             |      |      | 30             |      |      |
| MACHINE DIMENSIONS        | M                  | 3.95x1.13x1.6 |      |      | 4.22x1.23x1.67 |      |      | 4.62x1.28x1.73 |      |      | 5.08x1.32x1.79 |      |      | 5.67x1.42x1.86 |      |      |

| MODELS                    |                    | JW-220TS      |      |      | JW-250TS       |      |      |
|---------------------------|--------------------|---------------|------|------|----------------|------|------|
| SCREW DIMETER             | mm                 | 55            | 60   | 65   | 60             | 65   | 70   |
| SHOT SIZE                 | gr                 | 682           | 811  | 912  | 873            | 1026 | 1190 |
| INJECTION PRESSURE        | kg/cm <sup>2</sup> | 2483          | 2087 | 1778 | 2307           | 1966 | 1695 |
| CLAMPING FORCE            | ton                | 220           |      |      | 250            |      |      |
| CLAMP STROKE              | mm                 | 500           |      |      | 550            |      |      |
| MOLD HEIGHT               | mm                 | 150~550       |      |      | 220~650        |      |      |
| DISTANCE BETWEEN TIE-RODS | mm                 | 520×520       |      |      | 580×580        |      |      |
| MOTOR RATED               | HP                 | 40            |      |      | 40             |      |      |
| MACHINE DIMENSIONS        | M                  | 6.07x1.5x1.93 |      |      | 6.57x1.58x2.06 |      |      |





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