



SE series



Flexible, Reliable & Universal in Application



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SE Series

Flexible, Reliable & Universal in Application







SE Series

The New Concept of Universal Machines

Jonwai successfully established a classic model –SD series for general purpose molding in 2001.SD unique combination of flexible, reliable & universal in application already set a perfect paradigm in molding machine industry.

Over the years the global molding industry condition have changed, precise speed & lower illrate are highly demanded. Jonwai deeply recognized t these changes and now presenting the next generation of high performance universal application model--- SE Series.

The update SE model inherited the advantage of SD model & further enhanced functions to make it more suitable for nowadays plastic moulding industry. The flexible design of SE series make it easier toexpand to SE2 model & SE3 model to meet customers' precise and complicated molding requirements.



Houseware

Cosmetics Package

Medical Parts

Closure & Caps

Precise Engineering Parts

SE Series

The New Concept of Universal Machines

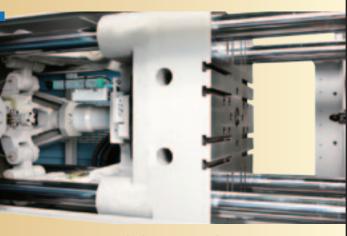


Speed

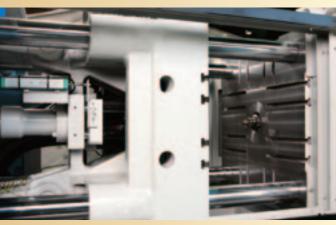
Fast Movement due to the 5-Point internal clamping system High injection speed and capacity High response of computer & hydraulic Fast Material Charging

Precision & User Friendly

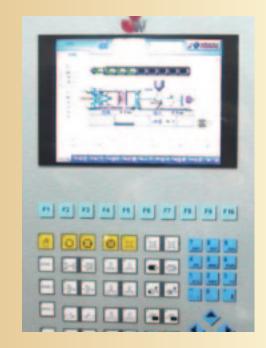
High Repeatability Sequences Unique & Intelligent control of process Window Based simple operation panel Easy Programming & Clear Overview



Fast Movement & Short Dry Cycle Fast Movement due to 5-Point internal clamping system.



Solid Mould Closing Unit Solid Box-Like structure mould closing unit, rigidity & strength improved with F.E Analysis.



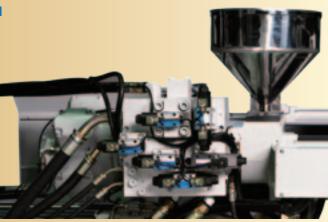
User Friendly Control

Window based operation panel with clear overview monitoring page & integrated sequence display

SE Series

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Quick Response Hydraulic System

Quick response hydraulic system coordinate with Jonwai unique servo power unit, response time only at 50 ms.



High Plasticizing & Capacities Injection Unit 4 Cylinders design injection system allow high-pressure/low-speed or low-pressure/high-speed Injection choice.

Nozzle Center on Line & Linear injection movement

2 cylinders sliding guide bar ensure nozzle center on line. Injection position with twin-end support enhance the linear Injection movement.

Flexible & High Expandablity

The flexible design of SE series make it easier to expand to SE2 model & SE3 model to meet customers' precise and complicated molding requirements.

Reliability

Reinforce Machine Base Stable Mechanical Sequence Solid IQC system before machine assembly and delivery

SES Series: with AC Synchronous Servo Power System

AC Synchronous Servo Power System

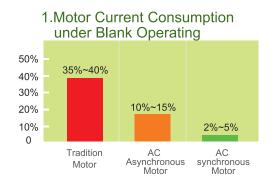
Unlike other companies outsourcing the servo system then equipped to machine, Jonwai integrate the entire system in house.

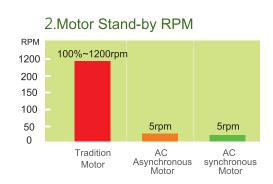
We fully grasp the key technologies of the servo power system & perfectly matching the mechanical, hydraulic system, PLC system & servo power system.

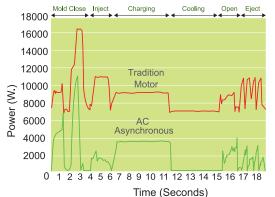
Advantages

• Water Saving - The servo system only delivers hydraulic oil as it is needed. This prevents unnecessary conditions, compared with conventional motor machines, machine cooling water savings 85% can be achieved.

- Electricity savings Under normal operating conditions, compared with conventional motor machines, energy savings from 60%-85% can be achieved.
- Hydraulic Oil Saving The servo system only delivers hydraulic oil as it is needed. This prevents unnecessary oil operation. Under normal operating conditions, compared with conventional motor machines,
- Quick response Featuring a dynamic servo motor with a response time of only 50ms.
- Moulding stability Due to the quick response of the servo motor and the closed-loop control. Compared with conventional motor machines, repeatability is greatly improved
- Quiet operation The machine runs at much lower noise levels, particularly in low speed applications.
- Reliable holding pressure Compared with traditional motor machine the holding pressure is more stable.
- Unique Motor Control Design More Precise to command the motor pause & continue.
- Flow Speed transmitted by Resolver PID logic and push-pull signal ,The close loop corresponding flow and pressure adjustment ensures the highest quality and precision of the plastic parts produced.



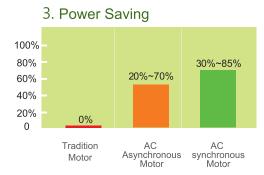


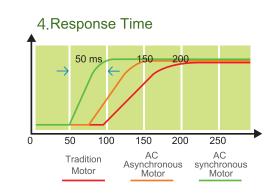


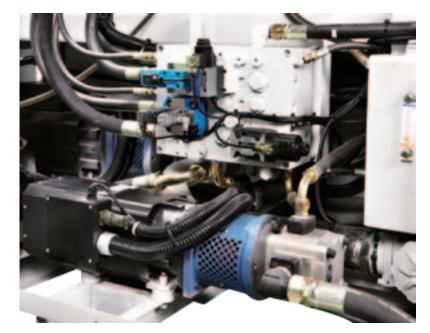
Test Product Total Cycle time: 18 sec. Cooling time: 5 sec. Chargin time: 5.3 sec.

The power consumption of AC Asynchronous Motor is 78% less than traditional motor.

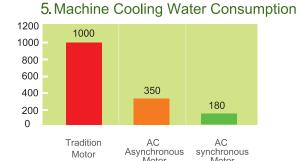
In Case of thick wall products or longer holding time or longer time products, power consumption could reach 80%~85%.

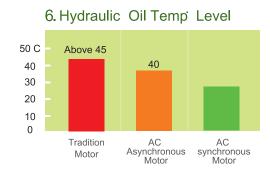












SE & SES Specification

| MODELS | | | W-60SE W-60SE | | JW-100SE JW-100SES | | | JW-120SE JW-120SES | | | JW-150SE JW-150SES | | | JW-180SE JW-180SES | | | JW-220SE JW-220SES | | | JW-250SE JW-250SES | | | JW-300SE JW-300SES | | | | JW-400SE JW-400SES | | | JW-500SE JW-500SES | | |
|------------------------------|---------|-------------|------------------|-------------------------|-----------------------|-----------|----------------|-----------------------|-------|----------------|-----------------------|-------|----------------|-----------------------|-------|---------------|-----------------------|-------|----------------|-----------------------|-------|--------------|-----------------------|---------|------|---------------|-----------------------|-----------|---------------|-----------------------|------|--|
| INJECTION UNIT | | i6e | | | i10e | | | i12e | | | i15e | | | i18e | | | i22e | | | i25e | | | i30e | | | i40e | | | i50e | | | |
| SCREW DIAMETER | mm | 32 | 35 | 38 | 35 | 38 | 42 | 38 | 42 | 45 | 42 | 45 | 50 | 50 | 55 | 60 | 55 | 60 | 65 | 60 | 65 | 70 | 65 | 70 | 75 | 70 | 75 | 80 | 75 | 85 | 95 | |
| INJECTION CAPACITY | cm3 | 120 | 144 | 170 | 153 | 181 | 221 | 192 | 235 | 270 | 277 | 318 | 392 | 471 | 570 | 678 | 617 | 735 | 862 | 791 | 929 | 1077 | 1028 | 1193 | 1369 | 1385 | 1590 | 1809 | 1811 | 2326 | 2906 | |
| SHOT SIZE(PS) | gr | 106 | 127 | 150 | 136 | 160 | 195 | 170 | 208 | 238 | 244 | 281 | 347 | 416 | 503 | 599 | 546 | 649 | 730 | 699 | 821 | 952 | 908 | 1054 | 1210 | 1224 | 1405 | 1599 | 1601 | 2056 | 2569 | |
| PLASTICIZING CAPACITY | kg/hr | 36 | 47 | 58 | 55 | 68 | 91 | 62 | 83 | 104 | 67 | 84 | 111 | 111 | 131 | 150 | 131 | 150 | 196 | 126 | 157 | 190 | 157 | 190 | 222 | 190 | 222 | 255 | 196 | 263 | 338 | |
| INJECTION RATE | cm3/sec | 67 | 80 | 95 | 95 | 112 | 137 | 112 | 137 | 157 | 144 | 166 | 204 | 185 | 223 | 266 | 223 | 265 | 311 | 237 | 278 | 323 | 311 | 361 | 415 | 307 | 353 | 402 | 357 | 459 | 573 | |
| INJECTION PRESSURE(MAX) | kg/cm2 | 2490 | 2082 | 1766 | 2280 | 1935 | 1584 | 2402 | 1966 | 1713 | 2318 | 2019 | 1635 | 2394 | 1978 | 1662 | 2428 | 2040 | 1738 | 2288 | 1949 | 1681 | 2173 | 1873 | 1632 | 2213 | 1928 | 1695 | 2321 | 1807 | 1447 | |
| SCREW SPEED RANGE | rpm | 0~236 0~253 | | | 3 | 0~237 | | | 0~196 | | | 0~195 | | | 0~192 | | | 0~153 | | | 0-160 | | | 0-160 | | | 0-140 | | | | | |
| SCREW TORQUE | kg-m | 55 | | 66 | | | 89 | | | 133 | | | 178 | | | 222 | | | 278 | | | 334 | | | 334 | | | 467 | | | | |
| NOZZLE STROKE | mm | 275 | | | 305 | | | 325 | | | 345 | | | 365 | | | 395 | | | 425 | | | 485 | | | | 525 | | 575 | | | |
| NOZZLE CONTACT FORCE | tons | 3.5 | | | 3.5 | | | 4.6 | | | 4.6 | | | 5.9 | | | 5.9 | | | 8 | | | 8 | | | | 8 | | 8 | | | |
| CLAM PING UNIT | | | | | • | | | | | | | | · | | | | | | | | | | | | | | | | | | | |
| CLAM PING FORCE | ton | 60 | | 100 | | | 120 | | | 150 | | | 180 | | | 220 | | | 250 | | | 300 | | | | 400 | | 500 | | | | |
| CLAM P STROKE(M AX) | mm | 270 | | 310 | | | 360 | | | 400 | | | 450 | | | 500 | | | 550 | | | 600 | | 700 | | 800 | | | | | | |
| MOLD HEIGHT(MIN-MAX) | mm | 100~320 | | 150~350 | | | 150~400 | | | 150~450 | | | 150~550 | | | 150~550 | | | 220~650 | | | 220-700 | | 280-760 | | 300-900 | | | | | | |
| OPEN DAYLIGHT | mm | 370~590 | | | 460~660 | | | 510~760 | | | 550~850 | | | 600~1000 | | | 650~1050 | | | 770~1200 | | | 820-1300 | | | 980-1460 | | 1100-1700 | | | | |
| PLATEN SIZE(H*V) | mm | 470×470 | | | 560×560 | | | 610×610 | | | 650×650 | | | 720×720 | | | 780×780 | | | 860×860 | | | 940×940 | | | 1060×1060 | | 1190×1190 | | | | |
| DISTANCE BETWEEN TIE-RODS | mm | 310×310 | | 370×370 | | | 410×410 | | | 430×430 | | | 480×480 | | | 520×520 | | | 580×580 | | | 630×630 | | | 7 | 720×720 | | 820×820 | | 0 | | |
| HYDRAULIC EJECTOR FORCE | ton | 3.3 | | 3.3 | | | 3.9 | | | 4.6 | | | 5.3 | | | 5.3 | | | 7 | | | 7 | | | | 11 | | 11 | | | | |
| HYDRAULIC EJECTOR STROKE | mm | 75 | | 90 | | | | 100 | | | 110 | | | 130 | | | 150 | | | 160 | | | 180 | | | 210 | | | 210 | | | |
| HYDRAULICS | | | | | • | | | • | | | • | | - | | | | • | | | | | | | | | | | | | | | |
| OIL RESERVOIR CAPACITY | us.gal | 45 | | 57.5 | | | 75 | | | 92.5 | | | 127.5 | | | 135 | | | 167.5 | | | 165 | | | 185 | | | 222 | | | | |
| ELECTRICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| POWER SUPPLY(STANDARD) | volt | 220 | | | 220 | | | 220 | | | 220 | | | 220 | | | 220 | | | 220 | | | 220 | | | 220 | | | 220 | | | |
| M OTOR RATED | HP | 15 | | 20 | | | 25 | | | 30 | | | 40 | | | 50 | | | 50 | | | 60 | | | 60 | | | 75 | | | | |
| NUMBER OF HEAT CONTROL ZONES | set | | 4 | | | 4 | | | 4 | | | 4 | | | 4 | | | 5 | | | 5 | | | 5 | | | 5 | | | 6 | | |
| HEATING WATTAGE | kw | 5.67 | | | 6.61 | | | 8.29 | | | 9.68 | | | 14.59 | | | 16.42 | | | 18.02 | | | 20.8 | | | 24.1 | | | 31 | | | |
| GENERAL | | | | | • | | | • | | | • | | ' | | | | • | | | | | | | | | | | | | | | |
| WATER REQUIREMENTS(MAX) | gpm | 11.2 | | 11.2 | | | 11.2 | | | 16.2 | | | 18.7 | | | 18.7 | | | 18.7 | | | 21.2 | | | | 21.2 | | | 26.2 | | | |
| MACHINE DIMENSIONS(L*W*H) | M | 3.9 | 5* 1.13* | 1.13*1.6 4.22×1.23×1.67 | | | 4.62×1.28×1.73 | | | 5.08×1.32×1.79 | | | 5.67×1.42×1.86 | | | 6.07×1.5×1.93 | | | 6.57×1.58×2.06 | | | 7.48×2.1×2.1 | | | 8.2 | 8.24×2.12×2.3 | | | 9.17×2.21×2.5 | | | |
| M ACHINE WEIGHT | kg | 3000 | | | | 3800 4500 | | | | 5600 | | | 6700 | | | 7600 | | | 11000 | | | | 12000 | | | 16500 | | | 21000 | | | |
| HOPPER CAPACITY | kg | 25 | | | 25 | | | | 50 | | | 50 | | | 50 | | | 50 | | | 100 | | | 100 | | | 100 | | | 100 | | |