

UN2400D1 Specifications

FEATURES

- European, oil-cooled, two-headed motor-driven servo drive delivers fast response and maximise energy efficiency
- Austrian KEBA control with dual CPU is stable, fast & accurate with 12" TFT colour touch screen display
- Based on European design technology
- High rigidity clamping unit delivers stability & accuracy, combined with uniform stress distribution on the tie bars
- Rexroth highly responsive dual proportional valves on clamping unit offers accurate repeatability
- L-shape guide rails deliver platen movement accuracy up to 0.05mm
- Mould open position accurate to $\pm 0.2\text{mm}$
- Tie bars independent of moving platen offers precision & speed
- Dry cycle times up to 55% faster than toggle lock machines
- Small footprint compared to traditional three platen design
- Low pressure & highly sensitive mould protection
- Integrated linear guide rails on injection unit offer low resistance and accuracy
- Repeatability of part weight $\leq 3\%$
- Durable ceramic heater bands
- Time, position or pressure switchover for holding phase start
- Ultrasonic displacement sensor
- Central lubrication for injection unit
- European oil seals & guide rings
- Double core pull
- Double air blast circuit
- Euromap robot interface & Euromap mounting
- Hydraulic ejector
- T-Slot platen
- Auto mould height adjustment
- Oil pre-heating
- IP54 electrical enclosure
- Precise filtration and independent cooling system
- Service, warranty & parts supported by our in-house engineers



| INJECTION UNIT | | 14500 | | | 18500 | | | 37500 | 50000 |
|------------------------------|--------------------|------------------|------|-------|------------------|-------|-------|----------------|----------------|
| | | A | B | C | A | B | C | A | A |
| Screw diameter | mm | 125 | 135 | 145 | 135 | 145 | 165 | 185 | 200 |
| Shot volume | cm ³ | 7977 | 9304 | 10733 | 10020 | 11559 | 14968 | 26343 | 35186 |
| Shot weight | g | 7339 | 8560 | 9875 | 9218 | 10634 | 13770 | 24235 | 32371 |
| Injection pressure | MPa | 181 | 156 | 135 | 184 | 160 | 123 | 142 | 141 |
| Screw L:D ratio | | 23.6 | 22 | 20 | 23.6 | 22 | 20 | 20 | 20 |
| Injection rate | cm ³ /s | 1316 | 1536 | 1772 | 1295 | 1494 | 1936 | 1884 | 1902 |
| Max. injection speed | mm/s | 107 | | | 91 | | | 70 | 60 |
| Screw stroke | mm | 650 | | | 700 | | | 980 | 1120 |
| Max. screw speed | r/min | 120 | | | 120 | | | 74 | 52 |
| Barrel heating zone no. | PCS | 8 | | | 8 | | | 10 | 10 |
| CLAMPING UNIT | | | | | | | | | |
| Clamping force | kN | 24000 | | | | | | | |
| Opening force | kN | 1640 | | | | | | | |
| Platen size | mm | 2682 x 2482 | | | | | | | |
| Distance between tie-bars | mm | 1900 x 1700 | | | | | | | |
| Mould thickness (min-max) | mm | 800 - 1800 | | | | | | | |
| Opening stroke | mm | 3000 / 2000 | | | | | | | |
| Max. daylight | mm | 3800 | | | | | | | |
| Ejector force | kN | 460 | | | | | | | |
| Ejector stroke | mm | 430 | | | | | | | |
| Ejector number | PCS | 25 | | | | | | | |
| ELECTRICAL & HYDRAULIC UNITS | | | | | | | | | |
| System pressure | MPa | 17.5 / 30 | | | 17.5 / 30 | | | 17.5 / 30 | 17.5 / 30 |
| Pump motor | kW | 89 + 66 + 11 | | | 89 + 66 + 11 | | | 110 + 66 + 11 | 110 + 66 + 11 |
| Total power | kW | 253.7 | | | 261 | | | 309.6 | 372.5 |
| Heater power | kW | 87.7 | | | 95 | | | 126.1 | 189 |
| GENERAL | | | | | | | | | |
| Oil tank capacity | L | 2100 | | | 2100 | | | 2400 | 2400 |
| Machine dimensions (LxWxH) | m | 13.6 x 4.3 x 3.9 | | | 13.6 x 4.3 x 3.9 | | | 14.8 x 4.3 x 4 | 15 x 4.3 x 4.2 |
| Machine weight | T | 79 + 16.5 | | | 79 + 18.5 | | | 79 + 23 | 79 + 26 |
| Max mould weight | T | 59 | | | 59 | | | 59 | 59 |

