**X-Pump** Equipped Ultra-Large Hybrid Injection Molding Machine

### NUX2500

#### Performance specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th><strong>NUX2500</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Injection</strong></td>
<td></td>
</tr>
<tr>
<td>Specification item</td>
<td>Unit</td>
</tr>
<tr>
<td>Screw diameter</td>
<td>inch (mm)</td>
</tr>
<tr>
<td>Injection capacity</td>
<td>inch³ (cm³) (gal)</td>
</tr>
<tr>
<td>Plastification capacity (PS)</td>
<td>lbs (kg)</td>
</tr>
<tr>
<td>Max. Injection pressure</td>
<td>psi (kPa/ton)</td>
</tr>
<tr>
<td>Injection rate</td>
<td>inch³/s (cm³/s)</td>
</tr>
<tr>
<td>Injection velocity</td>
<td>inch/s (mm/s)</td>
</tr>
<tr>
<td>Screw speed</td>
<td>rpm</td>
</tr>
<tr>
<td>Hopper capacity (Optional)</td>
<td>Gal (L)</td>
</tr>
<tr>
<td><strong>Clamping</strong></td>
<td></td>
</tr>
<tr>
<td>Clamping force</td>
<td>US ton (kN)</td>
</tr>
<tr>
<td>Clamping stroke</td>
<td>inch (mm)</td>
</tr>
<tr>
<td>Mold thickness</td>
<td>inch (mm)</td>
</tr>
<tr>
<td>Max. daylight opening</td>
<td>inch (mm)</td>
</tr>
<tr>
<td>Max. mold weight</td>
<td>lbs (kg)</td>
</tr>
<tr>
<td>Tie bar clearance (HxV)</td>
<td>inch (mm)</td>
</tr>
<tr>
<td>Die plate dimensions (LxWxH)</td>
<td>inch (mm)</td>
</tr>
<tr>
<td>Ejector stroke</td>
<td>inch (mm)</td>
</tr>
<tr>
<td><strong>Others</strong></td>
<td></td>
</tr>
<tr>
<td>Pump motor</td>
<td>kW</td>
</tr>
<tr>
<td>Heater band capacity</td>
<td>kW</td>
</tr>
<tr>
<td>Machine dimensions (LxWxH)</td>
<td>inch (mm)</td>
</tr>
<tr>
<td>Floor dimensions (LxW)</td>
<td>inch (mm)</td>
</tr>
<tr>
<td>Machine weight</td>
<td>lbs (kg)</td>
</tr>
<tr>
<td>Hydraulic oil quantity</td>
<td>Gal (L)</td>
</tr>
</tbody>
</table>

- Actual plasticizing capacity may vary, depending on the molding conditions and materials used.
- The specifications are subject to change without notice due to performance upgrades.
- MPa=10.2kgf/cm²=1tf/cm². 1N=0.102kg=0.1tf.

### NUX2500 | Standard equipment

- Fully hydraulic clamping system (With clamp area except movable plate)
- 3 Automatic controlled clamping system (for movable plate)
- 3 Manual controlled clamping system (for injection unit)

#### Clamping unit/mold
1. Locating ring assembly (Fixed type / S)
2. Mold protection (Low pressure-clamping time monitor)
3. 4-speed mold closing velocity: three-stage high-speed mold closing and low-speed/low-pressure mold-closing
4. 4-speed mold opening velocity: initial mold opening, two-stage high-speed mold opening, and final mold opening
5. Mold clamping time
6. Clamping compression molding
7. High pressure clamping force setting unit: psi
8. Multi-functional ejector (Injection start timer, pause, 2-speed forward velocity, half-way change of forward velocity, and variable forward/backward stroke)
9. Ejector plate return confirmation (for circuit only)
10. Mold inside process: MP (sequential operation)
11. Ejection during mold open (Simultaneous motion)
12. Clamping pressure full controlled clasp
13. Capture of mold position setting

#### Injection unit
1. Injection process control: 6-speed, 3-pressure, and 3-limit pressure
2. V-P changer: 4 modes
3. 3-speed heat retention response changer (Fast / middle / Slow)
4. Over packing prevention circuit
5. Decompression / decompression before metering
6. Injection pressure full controlled clasp
7. Back pressure and metering velocity: 3-stage
8. Injection start timer / metering start timer / nozzle backward timer
9. Injection position setting unit: inch or mm
10. Injection velocity setting unit: inch/s or mm/s
11. Injection pressure and back pressure setting unit: psi or MPa
12. Metering velocity setting unit: rpm
13. Temperature setting unit: Fahrenheit
14. Automatic purge circuit (3 modes: full stroke, number, and flexible)
15. Pneumatic system (with interlock)
16. Screw cold start prevention (All zone sequential type)
17. Nozzle and barrel temperature upper / lower limit alarm
18. Nozzle and barrel temperature RD control
19. Nozzle and barrel simultaneous heating

#### Cooling
- Cooling water manifold 6 channels on stationary side and 6 channels on movable side
- Hydraulic oil heat-up

#### Clamping
- Oil temperature stabilizer
- Hydraulic oil upper / lower limit alarm
- Low oil level alarm
- Hydraulic oil purifier

#### Operation safety
- Alarm lamp (Flat type) / bell
- Emergency stop button (operator side / non-operator side)
- Mold clamping safety device (mechanical, electrical, and hydraulic types) /
- Clamping daylight lower part safety footboard
- Inverter type automatic open/close safety door with a touch switch

#### Maintenance, installation, and miscellaneous
- 1 Automatic centralized greasing unit (for clamp area except movable plate)
- 2 Manual centralized greasing unit (for movable plate)
- 3 Automatic centralized lubrication unit (for injection unit)

#### Grip assembly
- 1 ANSI/SP2007 US standard + NFPA and ANSI Z51.1 compliance
- 2 High voltage symbol
- 3 Manual English x1 and simple instruction manual x1
- 4 Ejector specifications: SP pattern and SP type ejector rod
- 5 Jointed ejector rod specification
- 6 Nozzle tip R12.7 (1/2")
- 7 Hopper throat temperature control
- 8 Barrel cover (all standard compliant)
- 9 Hopper base
- 10 4 hydraulic core pullout unit (stationary x2 and movable x2) and speed adjuster x1
- 11 Gate position detection
- 12 Cooling water circuit ball valve (all point)
- 13 Seat valve installation
- 14 Clamping pressure rise lamp
- 15 Control panel power interlock
- 16 Voltage specifications: primary side AC480V (AC1380-480V capable) 60Hz with grounding
- 17 Operation power AC110V/DC24V
- 18 Barrel heater power: 460V
- 19 US spec main power breaker
- 20 Tools
- 22 Spare parts (for export)