NP-RD30 rotary tablet press

DESIGNED FOR R&D AND PILOT PRODUCTION

natoli.com
The multi-functional NP-RD30 comes equipped with features that can take you all the way from R&D through production. Outperforming any other tablet press in its class, the NP-RD30 replicates the design and functionality of a full-scale production press with the analytical capabilities of an R&D machine. Whether you’re manufacturing small clinical batches or working with a new product, the NP-RD30 rotary press is built for ultimate efficiency and the dependability you need to reach your goals.

**MULTI-FUNCTIONAL ROTARY TABLET PRESS**

**HIGHLIGHTS**

- **Gravity Feed Frame and Hopper Options**—use as much or as little product as you need with these different fill options
- **Standard Hopper**: 318 cubic inches
- **Expanded Hopper**: 1127 cubic inches
- **Gravity Feed Frame Spout (pictured)**: 20.35 cubic inches
- **NATOLI EXCLUSIVE FEATURE!**
  - **Push-button, Self-adjusting Lower Punch Retainers** (patent pending)
  - **Combination caster/levelers** for easy mobility and setup—capable of rolling through a standard 36" door frame.
- **Separate mechanical and compression zones** for product containment.
- **Continuous Magnesium Stearate Spray** (patent pending)
  - Prevents adhesion to the surface of the punches—with less stearate consumption—leaving your formulation unaffected.
- **Single-tablet mode**
  - Lets you run only the number of stations you need.
- **SAVES TIME**
  - Doesn’t stall on start-up; keeps consistent forces even at high RPMs!
- **HEAVY-DUTY**
  - Compresses heavy tablets effortlessly with the push of a button!

**Gravity Feed Frame and Hopper Options**

- **Gravity Feed Frame and Spout** (pictured)
- **Gravity or Dual-Paddle Force** Feeder w/Angled Plow Design
  - Ensures consistent filling of dies—145.6 mm feeder fill window!
- **Optimized Fill Cam Design**
  - Creates a vacuum to assist in die filling for more consistent tablet weights
- **Standard Hopper**: 318 cubic inches
- **Expanded Hopper**: 1127 cubic inches
- **Gravity Feed Frame Spout (pictured)**: 20.35 cubic inches

*Optional feature*
SOFTWARE OPTIONS to fit your needs:

**Natoli AIM™Plus** for R&D
- Measures and reports data for tabletability, compactibility, compressibility, strain rate profiles, and dwell time studies
- Provides tablet press scalability parameters
- Minimizes trial and error during tablet development

**Natoli AIM™ProPlus** for Production
- Fast press setup with intuitive menu-driven software
- Easily generates performance, product and variation, error code, and alarm reports (RSD)
- Enhanced station-to-station force monitoring
- Track changes made during batch production

<table>
<thead>
<tr>
<th>ATTRIBUTES</th>
<th>4+4 STATION</th>
<th>8 STATION</th>
<th>10 STATION</th>
<th>15 STATION</th>
<th>19 STATION</th>
<th>22 STATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Punch Type</td>
<td>EU 19, EU D/TSM B, D</td>
<td>EU D/TSM D</td>
<td>EU 19/TSM B</td>
<td>EU D/TSM D</td>
<td>EU 19/TSM B</td>
<td>EU 19/TSM B</td>
</tr>
<tr>
<td>Die Type</td>
<td>D/B</td>
<td>D</td>
<td>B</td>
<td>D</td>
<td>B</td>
<td>BB</td>
</tr>
<tr>
<td>Maximum Depth of Fill</td>
<td>20—22mm (.787—.866&quot;)</td>
<td>22mm (.866&quot;)</td>
<td>20mm (.787&quot;)</td>
<td>22mm (.866&quot;)</td>
<td>20mm (.787&quot;)</td>
<td>20mm (.787&quot;)</td>
</tr>
<tr>
<td>Maximum Round Diameter</td>
<td>17.5—23.8mm (.687—.937&quot;)</td>
<td>23.8mm (.937&quot;)</td>
<td>17.5mm (.687&quot;)</td>
<td>23.8mm (.937&quot;)</td>
<td>17.5mm (.687&quot;)</td>
<td>12.7mm (.500&quot;)</td>
</tr>
<tr>
<td>Shaped Major Dimension</td>
<td>19.0—25.4mm (.750—1.00&quot;)</td>
<td>25.4mm (1.00&quot;)</td>
<td>19.0mm (.750&quot;)</td>
<td>25.4mm (1.00&quot;)</td>
<td>19.0mm (.750&quot;)</td>
<td>19.0mm (.750&quot;)</td>
</tr>
<tr>
<td>Pre-Compression Force</td>
<td>10kN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main Compression Force</td>
<td>60kN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre- and Main Upper Punch Penetration</td>
<td>0—6mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compression Data Collection</td>
<td>10kN strain gauge sensors to accurately collect compression data</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vertical Pressure Roller Movement</td>
<td>Proper upper and lower punch alignment allowing longer simultaneous dwell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pitch Circle Diameter</td>
<td>200mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dwell Time Range</td>
<td>9.1—91ms</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tangential Velocity Range</td>
<td>105—1047mm/sec</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turret Speed</td>
<td>10-100 RPM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine Total Weight</td>
<td>2,835 lbs (3,235 lbs Shipping Weight)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tablets Per Hour</td>
<td>2,400—24,000</td>
<td>4,800—48,000</td>
<td>6,000—60,000</td>
<td>9,000—90,000</td>
<td>11,400—114,000</td>
<td>13,200—132,000</td>
</tr>
</tbody>
</table>

Learn more about Natoli’s NP-RD30 rotary tablet press at [www.natoli.com/tablet-presses](http://www.natoli.com/tablet-presses) or contact your Natoli representative today!