Product Information
Zwick DWT20 / DWT30 / DWT40 drop weight testers

Range of application
Testing steel steel specimens from 10 to 50 mm as per ASTM E436-71T, API-RP 5 L3 and EN 10274: drop weight test

Advantages and features
• Modular “building block” system with six sizes and two drop-heights.
• Pneumatic specimen feed and fixture loading outside the test area guarantees fast, reliable feeding within the time required by the standard.
• Quick-change system for anvils.
• Flexure table with integrated centering unit. Different specimen thicknesses can be set quickly and easily.
• Electrical and mechanical test-area safeguards with safety circuit - the test does not begin until all safety switch contacts have been interrogated.
• Electronically monitored, pneumatically operated safety interlocking to guard the test area against accidents.
• Touchscreen operation with electronic display of drop height, drop energy, drop weight and impact velocity.
• The steplessly adjustable drop height is automatically achieved after input of drop weight and drop energy.
• The drop weight is divided into individual weights to allow adjustment of drop energy. The weight is measured electronically, eliminating input errors.
• Four high-performance reservoir-type shock absorbers for safe, reliable drop-weight arrest.
• Controlled low-temperature cooler for accurately maintained specimen temperature.
• Plan view of foundation included in delivery.
• The connecting plate, anchor bolts and grout included in delivery can be supplied in advance if required.
## Product Information

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<table>
<thead>
<tr>
<th>Model DWT</th>
<th>20-2.5</th>
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<th>30-2.5</th>
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<th>40-2.5</th>
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</thead>
<tbody>
<tr>
<td>Energy</td>
<td>20000 J</td>
<td>20000 J</td>
<td>30000 J</td>
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<td>Item No.</td>
<td>640064</td>
<td>640070</td>
<td>640071</td>
<td>640072</td>
<td>640073</td>
<td>640074</td>
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### Load frame
- **Max. drop height**: 2.5, 5, 2.5, 5, 2.5, 5 m
- **Dimensions**
  - **A - overall height**: 5900, 8000, 5750, 8000, 5900, 7960 mm
  - **B - width**: 3100, 3060, 3210, 3060, 3210, 3060 mm
  - **C - width**: 1140, 1140, 1140, 1140, 1140, 1140 mm
- **Foundation dimensions**
  - 2150 x 2150 x 2150 x 2150 x 2150 x 2150 mm
- **Max. specimen dimensions**
  - **Length**: 305, 305, 305, 305, 305, 305 mm
  - **Width**: 50, 50, 50, 50, 50, 50 mm
  - **Height**: 76, 76, 76, 76, 76, 76 mm
- **Drop weight**: 820, 410, 1225, 612, 1630, 820 kg
- **Min. drop weight**: 460, 410, 457, 457, 480, 456 kg
- **Additional single weights**
  - 6.0 kg: - , - , 8, 6, 2, - pcs.
  - 15.0 kg: 2, - , 15, 8, 76, 15 pcs.
- **Total weight**: 6100, 6350, 6850, 7050, 7150, 7050 kg
- **Impact velocity**: 7, 9.9, 7, 9.9, 7, 9.9 m/s
- **Lift-unit speeds**
  - fast: 18, 18, 18, 18, 18, 18 m/min
  - slow: 3, 3, 3, 3, 3, 3 m/min

### Low-temperature cooling unit
- **Temperature**: -80, -80, -80, -80, -80, -80 °C
- **Max. temperature variation**: ±1, ±1, ±1, ±1, ±1, ±1 °C
- **Number of specimens**: 3, 3, 3, 3, 3, 3 pcs.
- **Specimen dimensions**
  - 50 x 76 x 305, 50 x 76 x 305, 50 x 76 x 305, 50 x 76 x 305, 50 x 76 x 305, 50 x 76 x 305 mm

### Electrical supply data
- **Electrical supply**: 3x 400, 3x 400, 3x 400, 3x 400, 3x 400, 3x 400 V, N/PE
- **Power consumption**: 11, 7, 11, 5, 11, 5 kVA
- **Power supply frequency**: 50, 50, 50, 50, 50, 50 Hz
- **Compressed air**: 8, 8, 8, 8, 8, 8 bar
- **Air consumption**: 600, 600, 600, 600, 600, 600 l/min
- **Ambient temperature**: +10 ... +35 °C
- **Humidity**: 20 ... 90 %

All data at ambient temperature. We reserve the right to make technical changes in the course of ongoing development.