DPE-02
Dynamic Pressure Exciter

Advantages
- Realization of all automatic calibrations according to own test regime (up to 1 shock/s)
- User-friendly and efficient
- Upgradeable to a shock acceleration calibration device

Application
- Generates pressure shock impulses with low pulse duration (<2 ms)

Range of use
- **Dynamic calibration** of pressure sensors
- **Dynamic tests** of pressure sensors

Features
- Pressure amplitudes from **22 MPa to 420 Mpa** with pulse duration less than 2 ms
- Create test descriptions in which a calibration run is performed fully automated using the SPEKTRA CS18 Software
Dynamic Pressure Exciter

### Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>SPEKTRA Shock pressure device</th>
</tr>
</thead>
<tbody>
<tr>
<td>amplitude</td>
<td>22 ... 420 MPa</td>
</tr>
<tr>
<td>pulse duration</td>
<td>&lt;2 ms (depends on projectile mass)</td>
</tr>
<tr>
<td>operation</td>
<td>pneumatic, fully automated</td>
</tr>
<tr>
<td>Impulse form</td>
<td>half sine</td>
</tr>
<tr>
<td>pressure transmission</td>
<td>hydraulic (Oil)</td>
</tr>
<tr>
<td>upgradeable</td>
<td>shock acceleration</td>
</tr>
</tbody>
</table>

### Schematic

- Pressure chamber
- DUT
- Piston
- Projectile
- Barrel
- Linear Stage
- Pressurised air
- Reference

### Pulse form

![Pressure vs Time Chart](image)

- Pressure (MPa) vs Time (ms)

Subject to change without notice

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