Load Diagrams
Program 0170 Rubber Buffers
Calculation Example

1. Calculation of energy per buffer: \( W = \frac{1}{2} m \times v^2 \)
2. Readout compression length from the diagram
3. Readout final load of the buffer from the table
4. Result and verification
   - \( s < 0.5 \times h \)
   - \( F < F_{\text{max}} \) of the crane structure
   - \( a = v^2/2s < a_{\text{max}} \)

\( W = \) Energy Absorption [J]
\( s = \) Travel [mm]
\( F = \) Force [kN]
\( v = \) Velocity [m/s]
\( m = \) Mass [kg]
\( h = \) Buffer height
\( a = \) deceleration

• Max. deflection = 50%
• Valid for solid-rubber buffers with \( h = 0.8 \times d_1 \)
Energy-Travel Ø 125

Force-Travel Ø 125
Energy-Travel Ø 200

Force-Travel Ø 200
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