![ACE - A STABILUS COMPANY]

ACE CONTROLS PIGGYBACK SHOCK ABSORBER

CUSTOM DESIGNS AVAILABLE

MAINTENANCE FRIENDLY DESIGN

PISTON ROD POSITION SENSOR

R&D SUPPORT/CALCULATIONS

SIMULATION SOFTWARE:

We use SimulationX software to model, simulate, and analyze various technical systems, encompassing mechanics, hydraulics, pneumatics, electronics, controls, and physical behaviors such as thermal and magnetic effects, to support our customers.

BENEFITS OF SIMULATION SOFTWARE:

• Accelerate development by employing models for rapid testing of design change impacts.
• Reduce expenses by opting for virtual prototypes over physical ones.
• Develop and test control software and hardware
• Conduct thorough simulation experiments to detect design issues early, when changes are cost-effective.
• Establish a digital twin to monitor system status and detect faults alongside the real system.
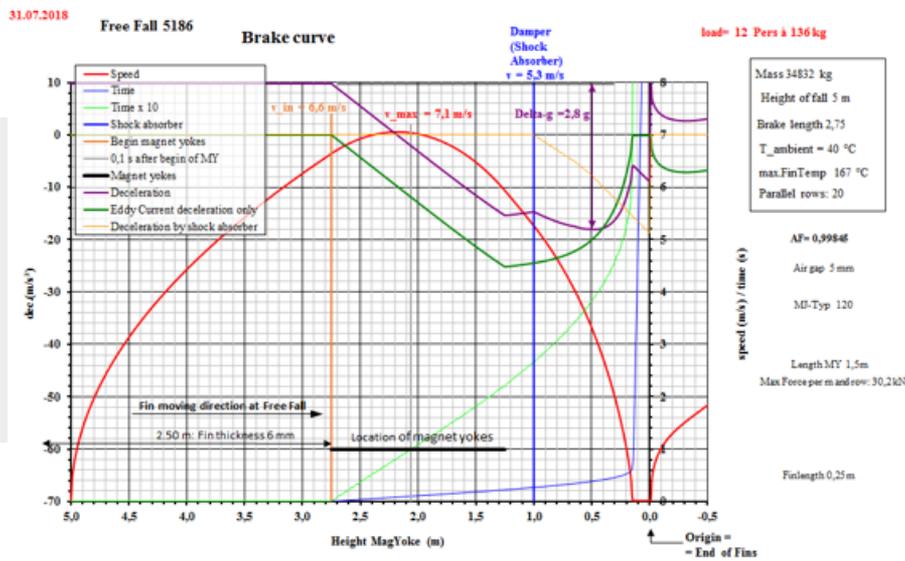
Simulation of a free fall decelerated by a combination of shock absorber and magnetic brake

External Nitrogen Accumulator

Pressure Gauge to control the nitrogen pressure
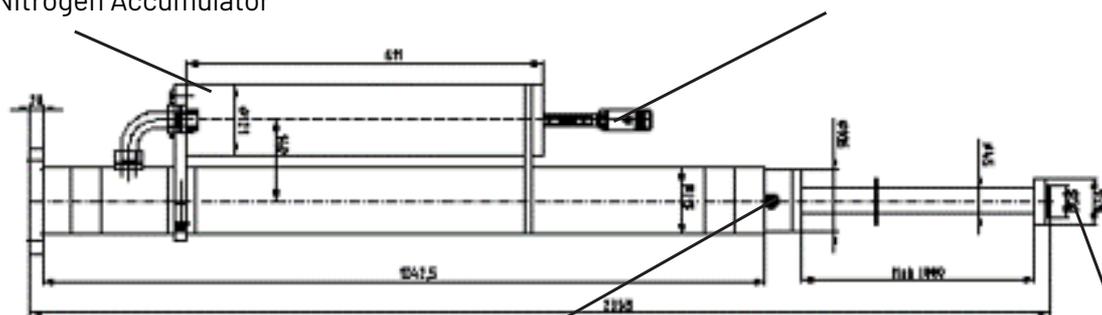
Soft Impact Cap

Sensor to control the extended rod position

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