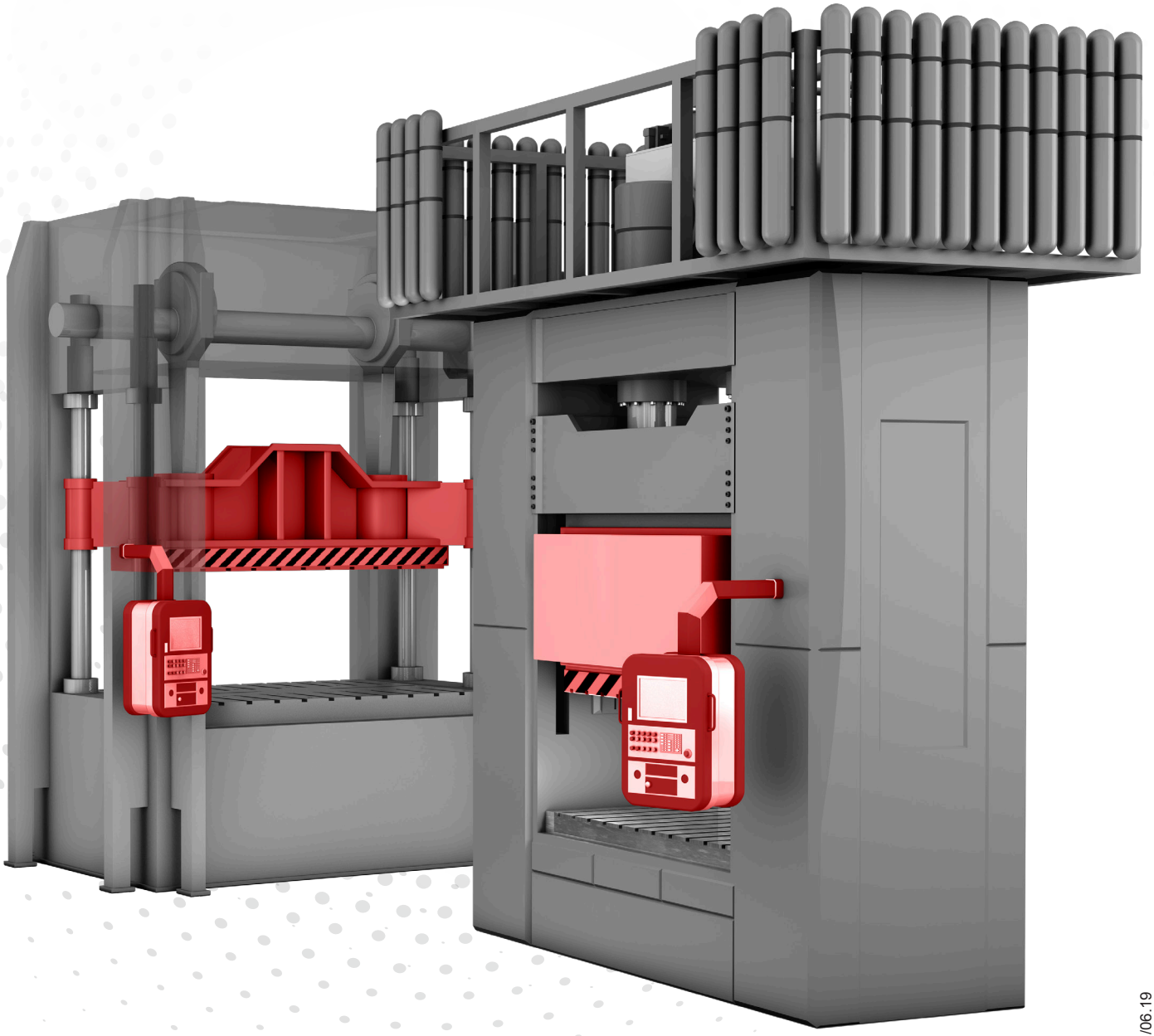
HYDAC INTERNATIONAL

Components, Systems and Service for Presses and Forming Machines



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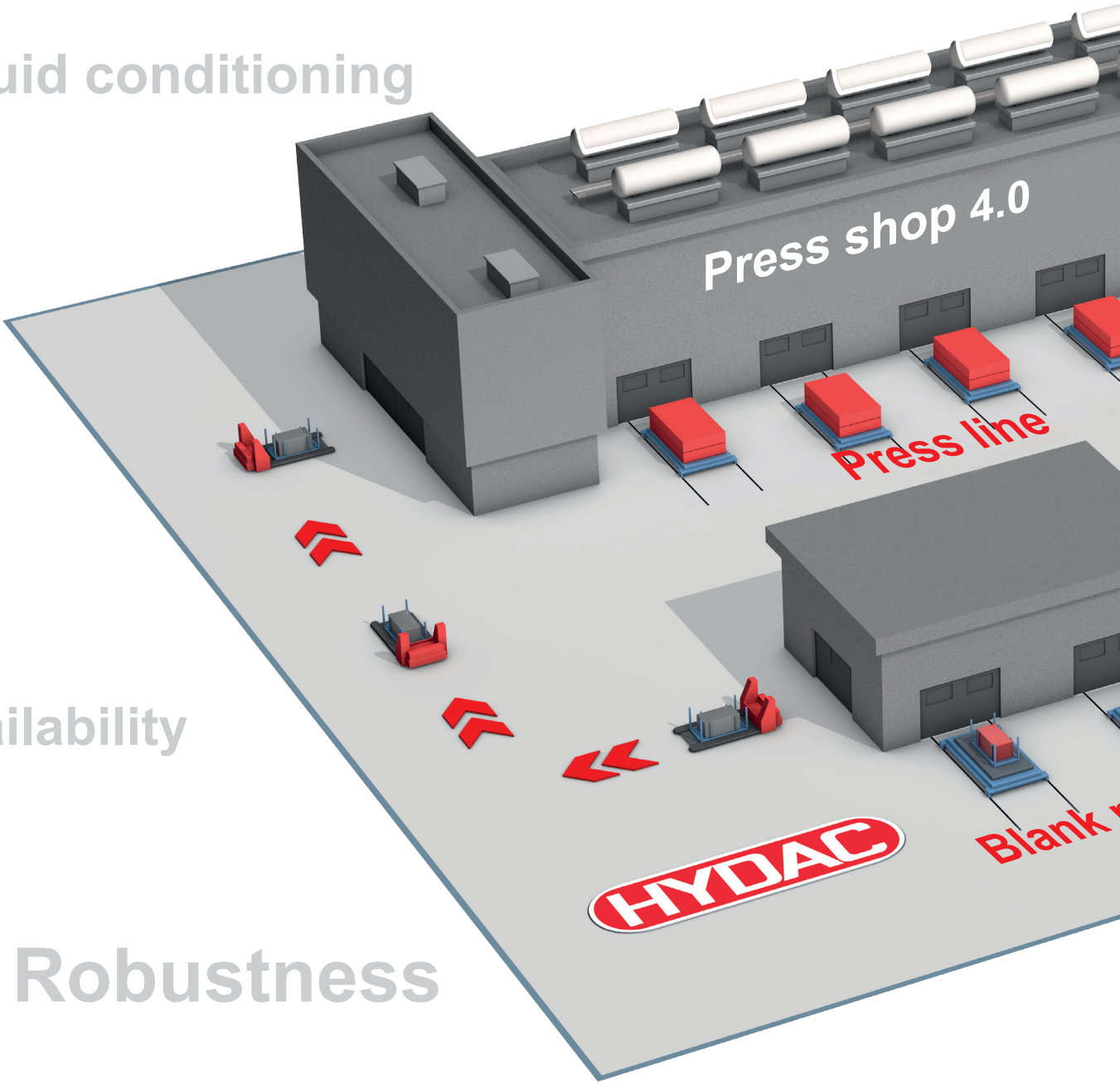
Pressing and

Digital press plant

Fluid conditioning



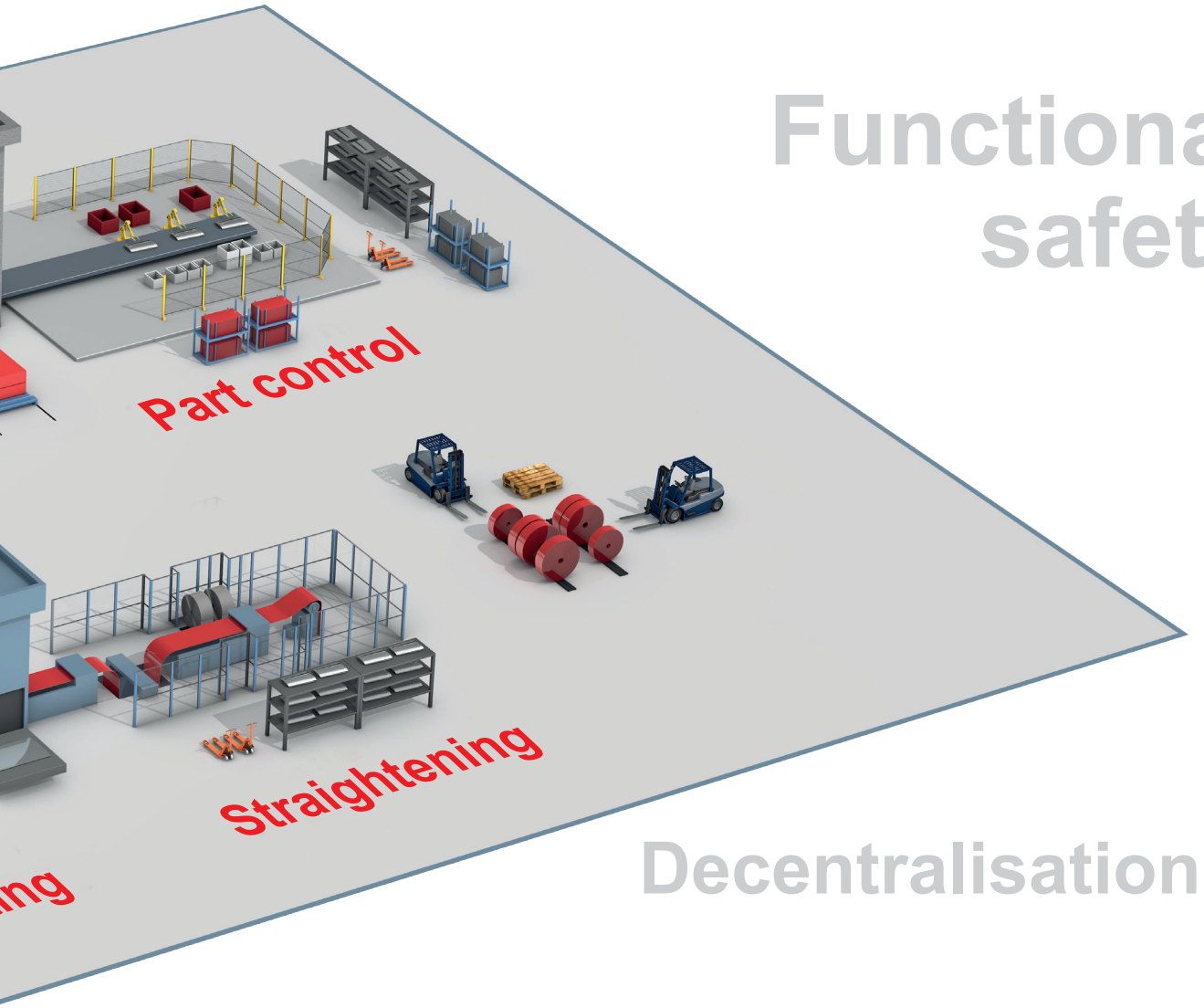
Availability

Robustness

Globalisation

forming technology

Energy efficiency



Functional safety

Decentralisation

Technical cleanliness

HYDAC has solutions for a wide range of tasks in pressing and forming technology. The components, systems and subsystems in our product divisions generate unique possibilities for you.

Products for Mechanical Presses

Hydraulic and lubrication power units

YOUR ADVANTAGE

- Self-monitoring hydraulic power units
- Final installation in close proximity to your international customers
- Quality assurance
- Flexible reaction to customer demands

Overload protection

- Rapid switch-off when defined, adjustable pressing force is reached
- Hydraulic and/or electro-hydraulic switch-off in combination with pressing force measuring systems for detecting eccentric loads
- Industry 4.0 ready: Optional intelligent analysis of pressure point operating characteristics

Clutching and braking

- Compact control unit with modular design for soft braking/clutching and type-tested press safety valve
- Compact power units for decentralised fluid power supply and intelligent monitoring of combined clutch/brake unit
- Optional intelligent analysis of clutch operation

Tank optimisation

- Air-X return line filter: reduction of tank size thanks to integrated degassing window in filter
- Reduction in tank size due to comprehensive numerical optimisation
- OxiStop: tank size can be drastically reduced (up to a factor of 10)

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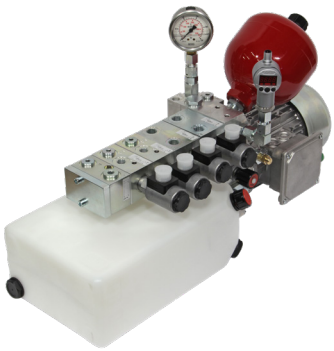
MECHANICAL PRESSES

IO-Link

Machine operating characteristics

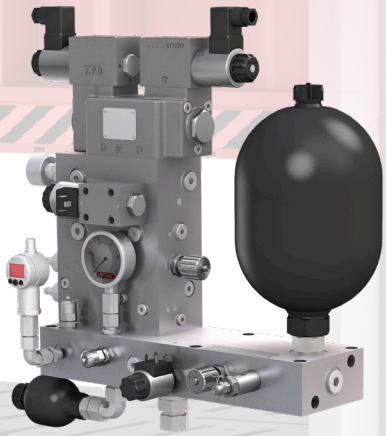
Electro-cylinders for additional axes



Braking of servo presses

Overload protection and tool protection

Intelligent lubrication and hydraulic power units



Soft clutching and braking

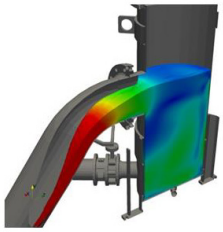
Die cushion systems:

From the component to the system! We provide innovative die cushion technology solutions for hydraulic and
Please contact us for more information.

Condition monitoring:

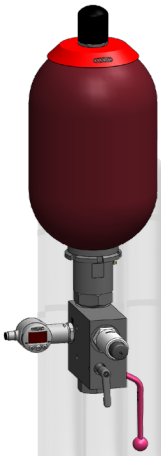
The HYDAC CM-Expert software is suitable for a clear depiction of process monitoring, condition monitoring a
In this way, we are significantly contributing towards a transparent forming machine of the future.

HYDRAULIC PRESSES



Numerical optimisation

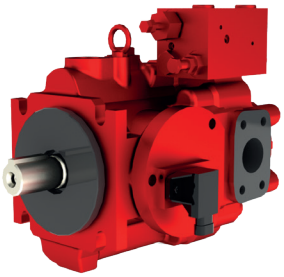
Monitoring of the pre-charge pressure



Intelligent filters

Edge computing for decentralised intelligence

Intelligent pumps



Functionally integrated cylinders

Tank reduction

Intelligent tank concepts

Accumulators and accumulator stations

mechanical presses. We also provide optimised intermediate tank solutions.

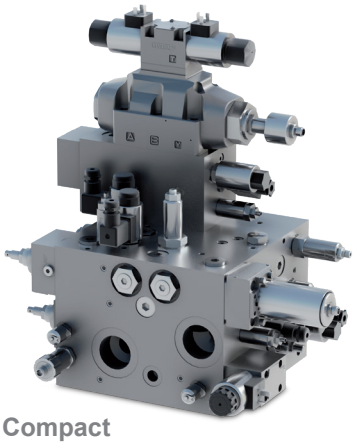
and predictive maintenance in presses and forming machines.

Products for Hydraulic Presses

Press control blocks

FUNCTIONAL FEATURES

- Speed control
- Pressure control
- Compact design
- Safe set-up operation
- Fewer monitored valves
- Proportional system pressure adjustment
- Proportional decompression
- Die setting up/down
- Fast advance by gravity, with cylinder(s), or in regenerative mode
- Pressure holding
- Load-sensing
- Leakage-free rod side



Compact
press control blocks

Cooling systems

- Cooling capacity up to 155 kW
- Very high temperature accuracy up to 0.2 K
- Increased performance efficiency and incorporation into the machine's digitalisation strategy

AIR COOLERS

COMPRESSOR COOLERS

WATER COOLERS

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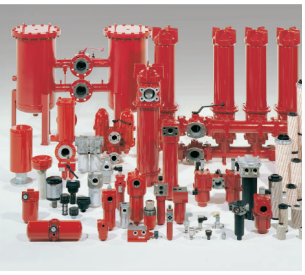
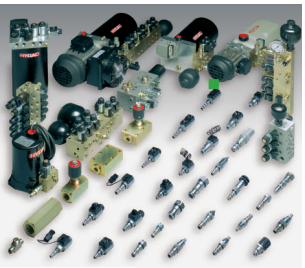
Accumulators 30.000



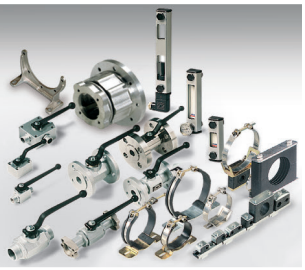
Fluid Filters 70.000

Control Technology 18.500

Filter Systems 79.000



Compact Hydraulics 53.000



Accessories 61.000

Electronics 180.000

Systems 57.000

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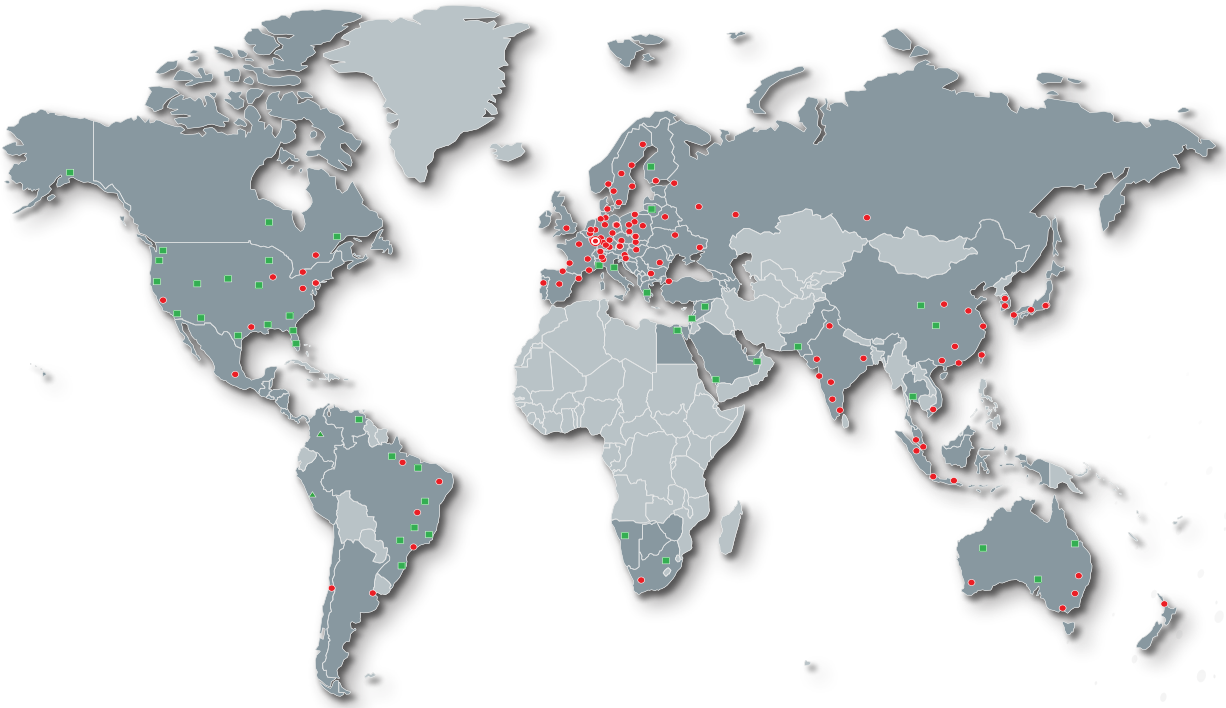

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