

Facts

BRUDERER+

PRECISION – SWISS MADE

Your added value with BRUDERER.

Long life.

**Perfect
interaction.**

**Highest stamped
component part
accuracy.**

**Ultimate user
friendliness.**

**Longest possible
tool life.**

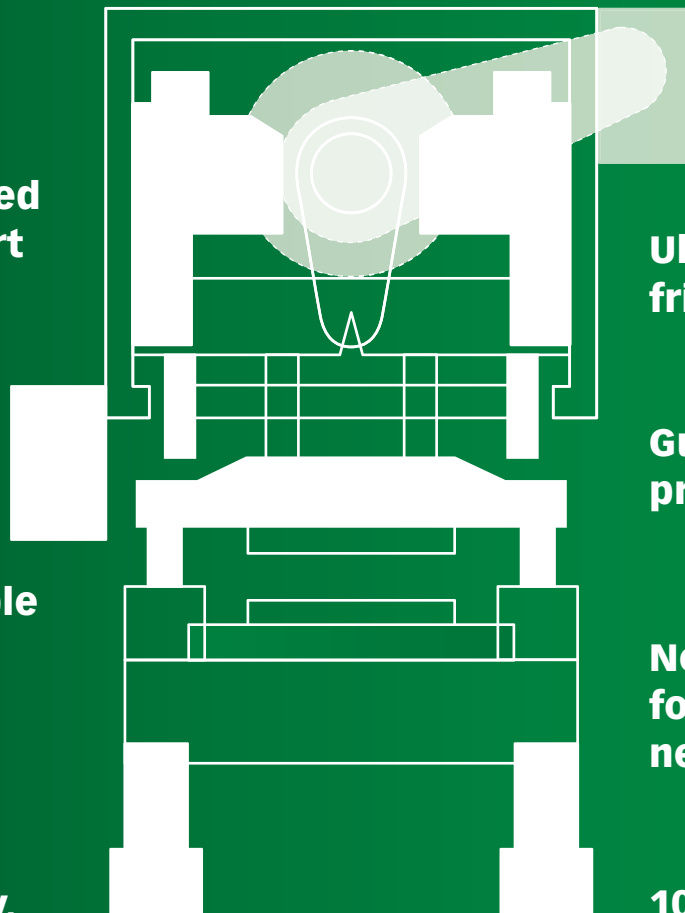
**Guaranteed
process stability.**

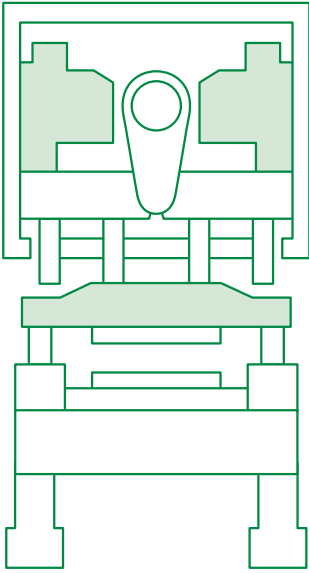
More flexibility.

**No special
foundation
necessary.**

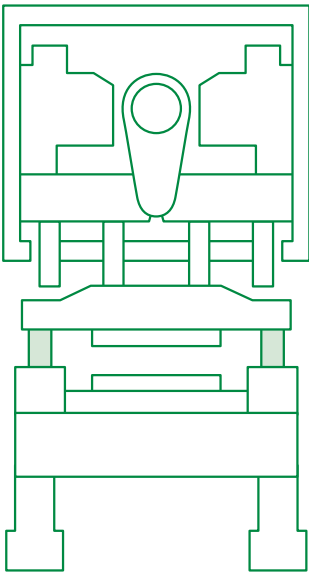
100% reliability.

**First class reliability
and productivity.**

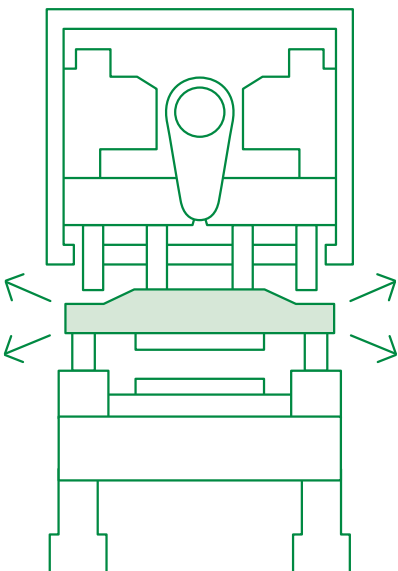




Full dynamic mass balancing system.



Ram guidance exclusively at strip inlet level.



Mechanical compensation system for thermal expansion.

- Less stress and wear on crankshaft bearing.
- Harmonic motion profiles allow highest speeds.
- Adjustable stroke as standard, for high flexibility and process stability.

Your benefit

- Long life for the press.
- Reduced tool wear.
- Less tool breakage.
- Lower investment costs in direct comparison.
- Low in vibrations.

- Ram guiding concept eliminates displacement between punch and lower die – even when under off-centre load.

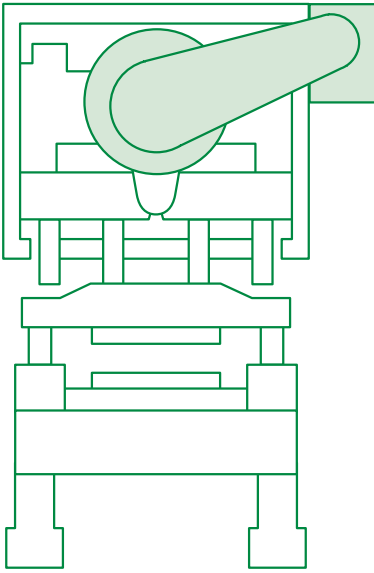
Your benefit

- Longest possible tool life, even with the smallest of cutting clearances.
- Increased productivity.
- More flexibility in tool design.

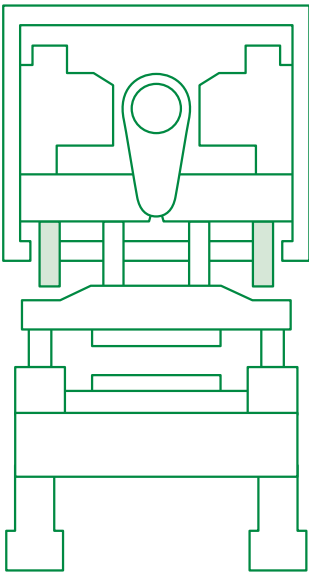
- No additional loads in ram guides induced by thermal expansion.

Your benefit

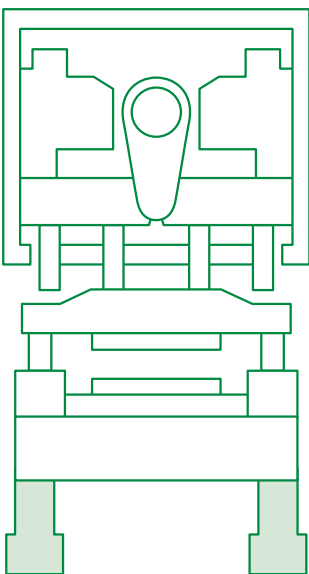
- Guaranteed process stability throughout the production run.



**Extremely powerful
clutch and brake
mechanism.**



**Dynamic ram
adjustment.**



**Dynamic damping
system.**

- High speeds with longer stroke lengths.
- High clutch torque: extremely high initial stroke speed at full tonnage of the machine.
- High brake torque: excellent last stroke accuracy and short stopping angles.
- Full stamping power of the press.
- Nominal load equals guaranteed load in continuous operation.

Your benefit

- **Good parts from first to last stroke.**
- **Good parts over the entire speed range – through acceleration and deceleration of the stamping process.**
- **Utilization of the full capacity of the press.**
- **More flexibility in progression press tool design and component specifications.**

- Shut height control by means of known, selectable dynamic curves or teach-in capabilities for flexibility during operation and under full load.
- Shut height regulation via measuring system (absolute encoder data from within the tool) or vision system.
- Option: Infinite adjustment of the shut height with steps down to one micron.
- Reduced press load when working with fixed stop blocks at bottom dead centre.
- Thermal compensation and control during operation.

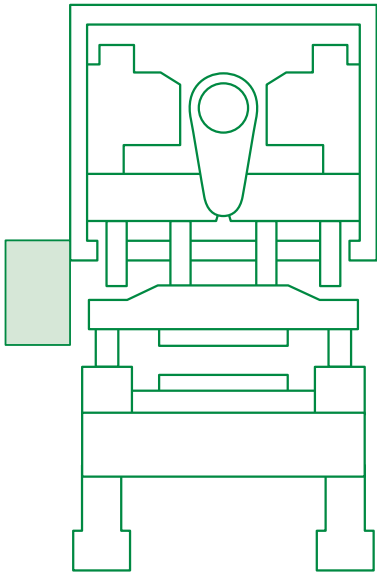
Your benefit

- **Good parts over the entire speed range – also during ramping up and ramping down.**
- **Less wear and damage for press and tool.**
- **Less disturbing 'process noise'.**

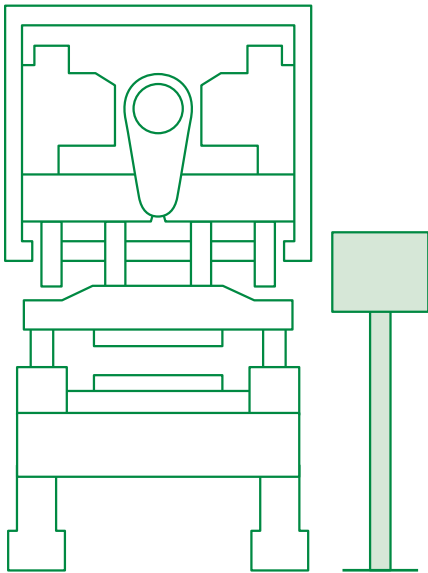
- No vibrations transmitted into foundation.
- No vibrations transmitted into the press and stamping process.
- Minimum impact of machine weight on floor.

Your benefit

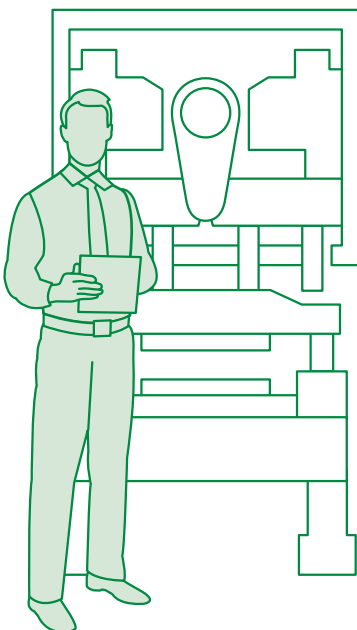
- **No special machine positioning or foundation necessary.**
- **Increased protection to precious / sensitive in-process measuring equipment and laser welding equipment.**
- **Increased protection for complex stamping component processes.**
- **No consideration for building construction necessary.**



**Comprehensive line
of fully interchangeable
precision feeding
systems.**



**PC based control with
BRUDERER software.**



**Worldwide service
network with trained
specialists.**

- Seamless integration of feeders into press portfolio.
- Only one control system.
- Servo technology with programmable feed angle thus increasing the working stroke and thus reduces the ram speed.
- Energy recovery.
- Fully integrated emergency stop operation for the whole machine.

Your benefit

- **'All in one' – comprehensive single point of contact for feeder and press.**
- **Only one control – everything operates from one central control unit.**
- **Seamless 'handshake' between press and feed unit for tool data storage.**

- Control for press, feeder and selected peripherals.
- Solid state technology.
- 'Interconnectable' with other qualified peripherals.
- Integratable into data systems.

Your benefit

- **No wear parts in control.**
- **Less susceptible to environmental interference.**
- **User-friendly – 15 years of stamping experience 'embedded'.**
- **Full flexibility and integratability with manufacturing control systems.**
- **Remote service and maintenance capabilities.**

- High availability of spare parts.
- Telephone support.
- Maintenance contracts.
- Customer-specific training.
- Stamping tests in-house at BRUDERER.

Your benefit

- **Increased machine availability and productivity.**

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