

FORMING THE FUTURE



COIL PROCESSING WITH POWER FEED

POWER FEED. MORE POWER FOR YOUR PRODUCTION.

Thanks to Schuler's new Power Feed, coil processing automation times just got even shorter – especially for high-speed presses.



Coil feeding line-in long-space design with roll feed and zig-zag option for optimized use of material.

Servo direct drives and maintenance-free planetary gearing with minimal play provide more speed and system accuracy. Even over the long term, this unit can help you achieve a system accuracy of ± 0.05 mm. Precisely designed surface coating on the rollers also ensures that high acceleration rates are reliably transmitted to the material.

Various weight categories. The Schuler Power Feed is available in different weight categories according to the mass of the material to be moved: "L" (light) for up to 100 kg movable mass, "M" (medium) for up to 180 kg movable mass or "H" (heavy) for up to 300 kg movable mass.

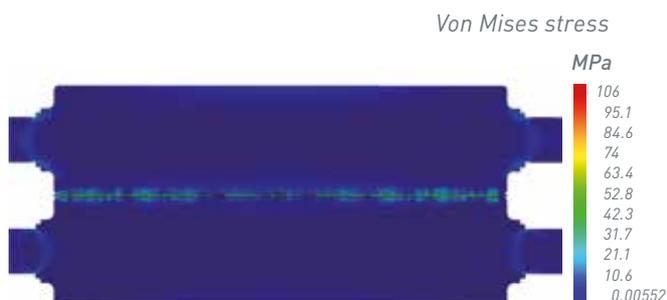
Various performance categories. The performance of the roll feed is also flexible. Customers who choose the "SP" (Standard Performance with up to 15 m/s²) based on

their current needs can later upgrade to a more powerful performance pack. These packs include the "BP" (Basic Performance with up to 25 m/s²), the "HP" (High Performance with up to 35 m/s²) and the "EHP" (Extra High Performance with up to 45 m/s²). This allows customers to remain flexible and react swiftly to changing demands with just a modest investment.

The advantages:

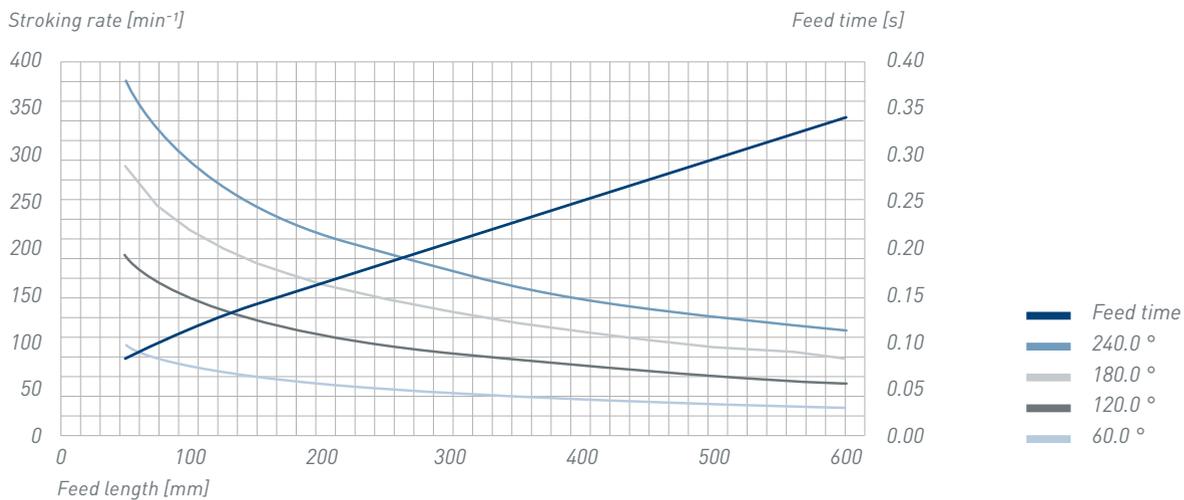
- Can be connected to all press types
- Ideal for use in high-speed processes
- Servo direct drive
- System accuracy of ± 0.05 mm
- Various weight and performance categories
- Short delivery times
- Low maintenance
- Retrofits/upgrades possible at any time

FEM SIMULATION OF FORCE DISTRIBUTION IN CONTACT AREA OF FEED ROLLERS



By optimizing the roller profile and geometry, force is spread evenly over the strip – with low Hertzian contact stress. The result: an extremely dynamic system with high acceleration potential.

FEED PERFORMANCE DIAGRAM FOR THE POWER FEED (EXAMPLE)



BASIC MODELS

- Press attachment fixture
- Dual servo direct drive
- Quick lift feature
- Height adjustable
- Coil side guiding
- TOPOCROM® feed rollers fitted as standard
- Space and interface for a standard strip lubrication device
- Roller cage with burr-free support rollers including steadying roller
- Preparation for press coupling
- Mobile operating device
- Preparation for retrofit

OPTIONS

- For steel, stainless steel, non-ferrous metals
- For materials with sensitive surfaces (e.g. acc. to DIN EN 10088-2 from 2D)
- Metering wheel
- Automatic coil side guiding
- Off-center adjustment of coil side guiding
- Hold-back interlock
- Strip lubrication unit
- Infeed height adjustment
- Safety cut-off
- Performance packs – BP, SP, HP and EHP
- Zig-zag
- Monitoring of material movement
- Finish processing of the coil
- Production shears

MODEL VARIANTS

| TECHNICAL DATA | | | | | | | | |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| POWER FEED | L-BP 0300 | L-BP 0450 | L-BP 0650 | L-BP 0800 | L-BP 1050 | L-BP 1300 | L-BP 1600 | |
| Strip width min. [mm] | 40 | 40 | 40 | 40 | 40 | 80 | 80 | |
| Strip width max. [mm] | 300 | 450 | 650 | 800 | 1,050 | 1,300 | 1,600 | |
| Strip thickness min. [mm] | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| Strip thickness max. [mm] | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | |
| Strip cross section max. [mm] | 750 | 1,125 | 1,300 | 1,600 | 2,100 | 2,600 | 3,200 | |
| Loop radius [mm] | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | |
| POWER FEED | M-BP 0300 | M-BP 0450 | M-BP 0650 | M-BP 0800 | M-BP 1050 | M-BP 1300 | M-BP 1600 | M-BP 1850 |
| Strip width min. [mm] | 40 | 40 | 40 | 40 | 40 | 80 | 80 | 80 |
| Strip width max. [mm] | 300 | 450 | 650 | 800 | 1,050 | 1,300 | 1,600 | 1,850 |
| Strip thickness min. [mm] | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Strip thickness max. [mm] | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Strip cross section max. [mm] | 1,350 | 2,025 | 2,600 | 2,800 | 3,150 | 3,900 | 4,800 | 7,200 |
| Loop radius [mm] | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 |
| POWER FEED | | | H-BP 0650 | H-BP 0800 | H-BP 1050 | H-BP 1300 | H-BP 1600 | |
| Strip width min. [mm] | | | 40 | 40 | 40 | 80 | 80 | |
| Strip width max. [mm] | | | 650 | 800 | 1,050 | 1,300 | 1,600 | |
| Strip thickness min. [mm] | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| Strip thickness max. [mm] | | | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | |
| Strip cross section max. [mm] | | | 3,250 | 4,000 | 5,250 | 6,500 | 6,400 | |
| Loop radius [mm] | | | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | |

SCHULER SERVICE – STATE-OF-THE-ART SERVICE FOR MORE PERFORMANCE

Schuler Service offers a tailored portfolio of services covering the entire life cycle of your equipment. Over 900 service employees worldwide provide expert support 24/7 in close cooperation with you – our partners. Our main priority is always to ensure the maximum productivity and safety of your production equipment in order to secure your company's continued success.



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Schuler offers customized first-rate technology in all areas of forming – from the networked press to press shop planning. In addition to press, our product includes automation and software solutions, dies, process know-how and service for the entire metalworking industry. Our customers include automotive manufacturers and suppliers, as well as companies in the forging, household appliance and electronics industries. Presses from the Schuler Group mint coins for more than 180 countries. When it comes to the digital transformation of the forming technology, we support our customers worldwide as a supplier of innovative system solutions. Founded in 1839 with headquarters in Göppingen, Germany, Schuler AG has about 6,600 employees at production sites in Europe, China and America, as well as service companies in more than 40 countries. The company is majority-owned by the Austrian ANDRITZ Group.

Schuler Pressen GmbH

Louis-Schuler-Straße 1

91093 Heßdorf

Germany

Phone Sales +49 9135 715-267

Fax +49 9135 715-44210

Phone Service +49 9135 715-358

Fax Service +49 9135 715-249

info.automation@schulergroup.com

www.schulergroup.com



[www.schulergroup.com/
automation](http://www.schulergroup.com/automation)

