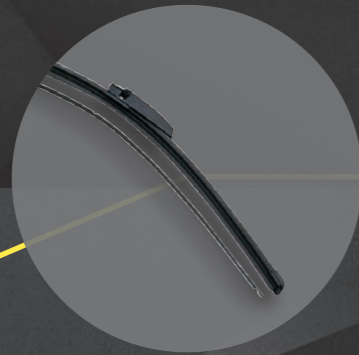


FELSS

The smarter way of forming.

EXCERPT OF POSSIBLE PRODUCTS



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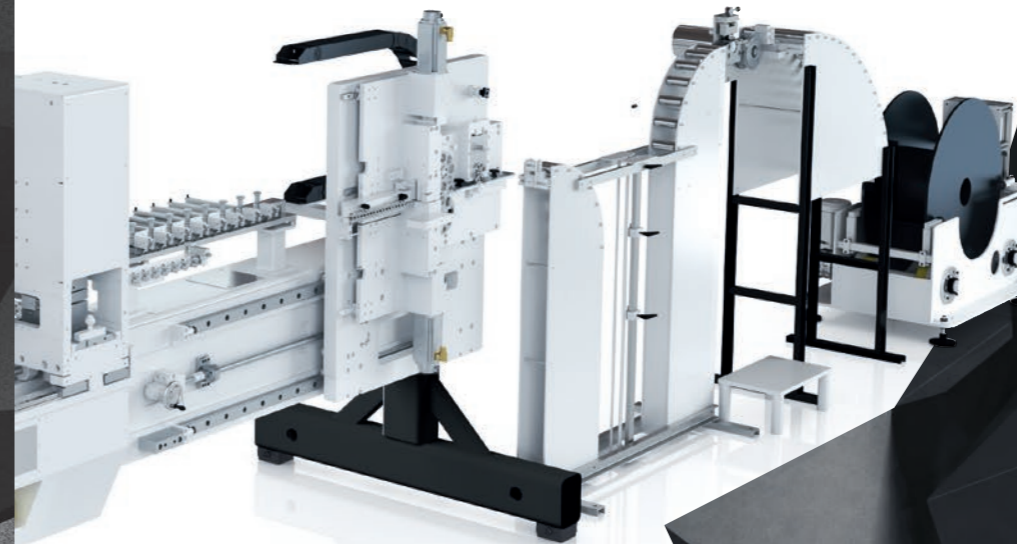
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FLAT BLADE BENDING

THE FELSS FBC MACHINE



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MODULAR DESIGN AND MAXIMUM SPEED

The Felss FBC machines enable high-precision processing of strip material for the production of spring rails.

THE FLAT BLADE BENDING MACHINE FBC

ABOUT THE MACHINE

The Flat Blade Bending Centre FBC is a bending and punching machine for the production of spring rails or flat wiper blades. In the FBC, these are produced from strip material from the coil by means of a roll bending process and a subsequent punching operation. An additional punching operation, part marking, part cleaning, interlinking with other processes, such as heat treatment, and an additional material straightening process are also possible with extensions to the basic machine. The patented bending process achieves the highest bending quality and dimensional stability for the spring rails.

Furthermore, a large number of spring rail variants with different lengths and bending radii can be produced with the use of NC axes without a great deal of set-up work and the use of tools. This ensures a high level of efficiency and quality in the production of different spring rail variants. The FBC is available in different categories, depending on the output and degree of automation, and offers remote diagnostics and optional machine data acquisition in addition to the machining processes.

PROFILE

Possible component sizes

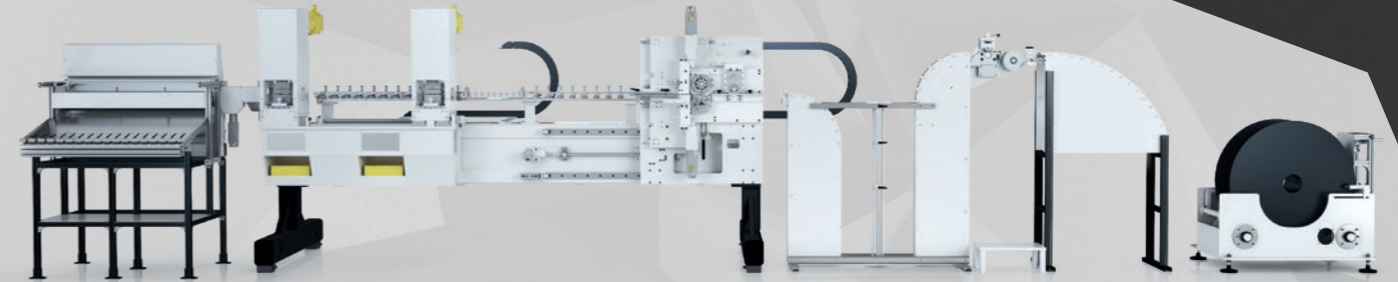
- Length: 170-1,000 mm
- Width: 4-16 mm
- Strip thickness: 0.8-1.3 mm

Areas of application

- Spring rails for windscreen wipers

Advantages

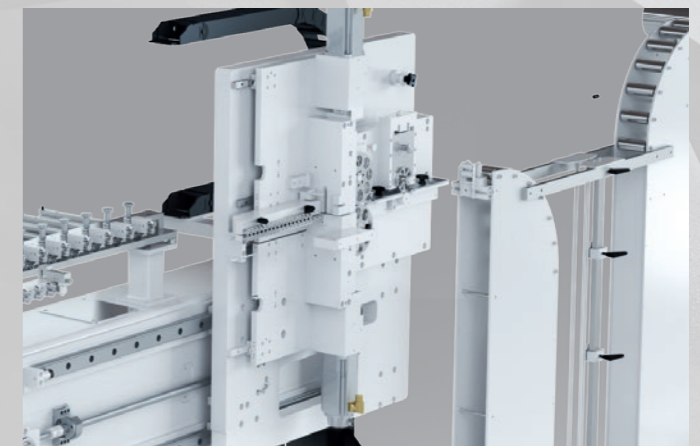
- Outstanding bending quality and dimensional stability thanks to patented bending process
- Customised design of the bending contour
- Short set-up times
- Minimal use of tools



THE PROCESS: FLAT SHEET BENDING

Spring rails are long, curved rails made from strip material, usually spring steel. They form the supporting element of so-called flat wiper blades, especially for motor vehicles. In such flat wiper blades, the support element, which can consist of one or two spring rails, ensures optimum distribution of the contact pressure exerted by the wiper arm on the windscreen to be wiped. Depending on the windscreen, the spring rails must have a precisely defined curvature consisting of different merging radii. They must also fulfil the withstand load and operating stresses.

The bending system of the FBC, a continuous forward and backward bending of the material via rollers, makes it possible to fulfil these criteria.



GET TO KNOW SOME OF THE ADDED VALUES OF OUR FLAT SHEET BENDING MACHINE:



DURABLE

Patented bending system increases the service life of the windscreen wiper.



LIGHTER

Lighter windscreen wipers, as the flat blade eliminates the retaining linkage.



FASTER

Short set-up times thanks to quick-change system



RESOURCE EFFICIENCY

Durable and virtually wear-free operation.