

Cutting machines

Semi- or fully-automatic



You will be cut above the rest with us.

Chipless, burr-free cutting
No loss of material
High cutting performance
Environmentally friendly, coolant-free technology
Long tool service life



AMH cutting machines

Hydraulic cutting machines for economical, burr-free and environmentally friendly cutting of steel bars up to 30 mm in diameter.

The AMH cutting machines cut round and profiled steel rods and NE metals free of burr with the highest possible length tolerance ($\pm 0,1$ mm) and without material loss. The separating points are most level, because the material is moved safely through both shearing dies. Bright drawn round rods can be processed further into collets after cutting.

The different types of machines in the AMH series are characterised by each model's respective shearing speed. With the AMH 2 cuts pieces with a diameter of 16 mm and with the AMH 4 – of up to 30 mm. Depending on the requirements, either 1500 pieces with up to 30 mm diameter or up to 1650 pieces with a diameter of 16 mm can be cut per hour.

Semi-automatic

The semi-automatic AMH cutting machines are suitable for smaller serial production. The cutting technology is the same as with the manually operated bar shears but it is operated with the help of an electrohydraulic system. This allows for the rational cutting of all kinds of profiled rod with a diameter of up to 30 mm. The cutting process is triggered by a cutting switch. Precise analogue or digital stop systems ensure even length tolerances and a smooth production process as well as a high maintainability.

Technical Data – semi-automatic cutting machines

| | | AMH 2 | AMH 3 | AMH 4 |
|---------------------------|-------------------|-------------------------|-------------------------|-------------------------|
| diameter range | mm | $\leq \varnothing 16,0$ | $\leq \varnothing 24,0$ | $\leq \varnothing 30,0$ |
| tensile strength Rm | N/mm ² | 700 | 700 | 700 |
| drive power | kW | 3,0 | 4,0 | 7,5 |
| max. shearing performance | pcs./h | 1.500 | 1.500 | 1.500 |

For semi-automatic operation, the system delivery could include the following additional components:

- Material support stand
- Motor pulley feed up to $\varnothing 16$ mm
- Length stop with a digital length read out
- High-speed cutting device for better cut-off quality
- Digital length read out

Fully-automatic

An environmentally friendly fully automatic machine for mass production. The fully automated cutting machines AMH 4 can be fed with bars with a profile thickness of 30 mm or coil material with a diameter of 12 mm. An electronic unit controls the entire loading, feed and shearing process for an almost operator-free production process with a high output.

Shearing speed – fully automated cutting machines

| Speed per hour at a cutting length of 100 mm | | | | | |
|--|------|-----------------|-----------------|-----------------|--------------------|
| | | single shearing | souble shearing | triple Shearing | quadruple shearing |
| AMH2 | mm | ≤ Ø 16,0 | ≤ Ø 11,0 | ≤ Ø 6,0 | ≤ Ø 5,0 |
| | pcs. | 1.500 | 3.000 | 4.500 | 6.000 |
| AMH3 | mm | ≤ Ø 24,0 | ≤ Ø 16,0 | ≤ Ø 14,0 | ≤ Ø 12,0 |
| | pcs. | 1.500 | 2.900 | 4.300 | 5.600 |
| AMH4 | mm | ≤ Ø 30,0 | ≤ Ø 22,0 | ≤ Ø 17,0 | ≤ Ø 15,0 |
| | pcs. | 1.500 | 2.900 | 4.300 | 5.600 |

For fully automated operation, the system delivery could include the following additional components:

- Bundle loader $\geq \varnothing 12$ mm
- Bar loading magazine
- De-coiler
- Feed unit for material up to $\varnothing 30$ mm
- First-cut and remainder sorter



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Semi-automatic AMH 4 - hydraulic cutting machine for material with a diameter of up to 30 mm. The length is adjusted via a handwheel.