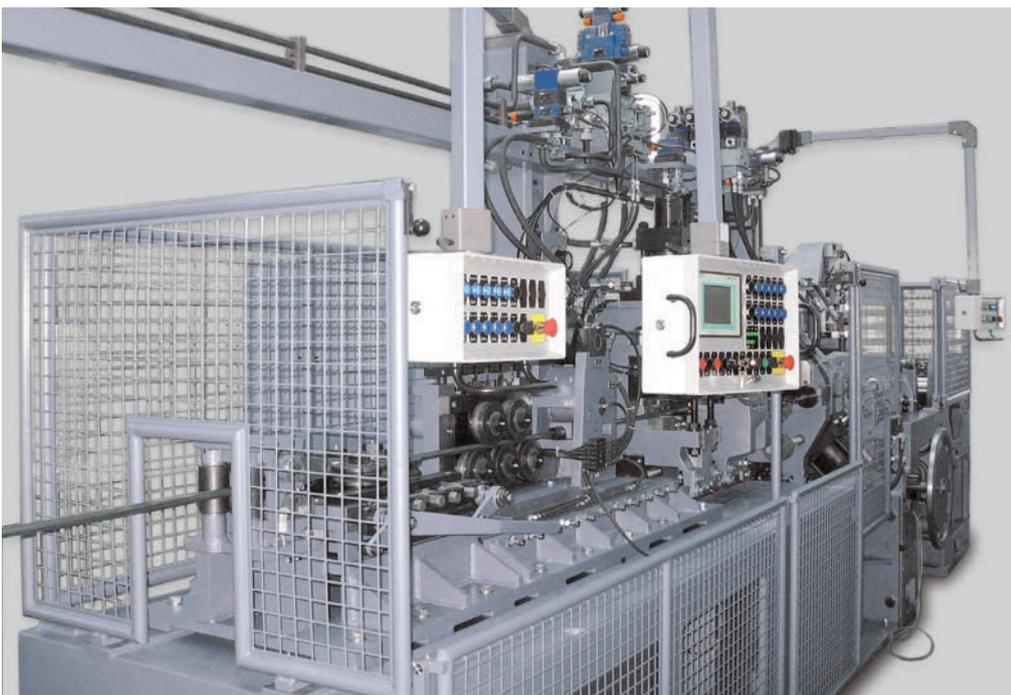


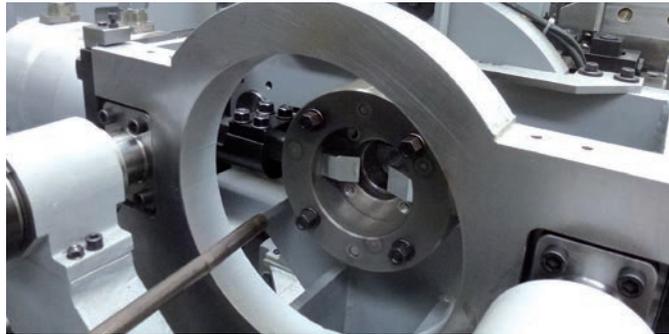
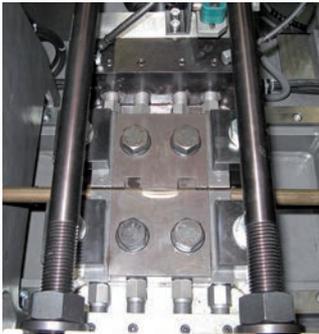
Chain Bending Machine for Cold Bending of Round Steel Chains



KER 8

KER 8

▼ Die forming device (left) und Notching device (right)



▼ Bending tools



Our Accomplishments for your Benefit

- Robust machine design for the production of high-strength chains over a long period of time
- Uniformly bent chain in continuous operation with the strictest bending tolerances
- No damage to the wire surface, i.e. high chain surface finish

Design Features

- Smooth machine running
- Safety devices to protect tools and machine parts
- All main movements are carried out by the positive mechanical control of double-acting curves
- Auxiliary feeder and slug machine are hydraulically driven

▼ Auxiliary feeder



Mode of Operation

The chain wire drawn off the pay-off unit is straightened on two levels and passed to a pre-bending/notching station that can be displaced in the wire direction. There, the wire receives a waved bend which later becomes the back curvature of the bent chain link. Moreover, the wire is notched from both sides at intervals of one slug length.

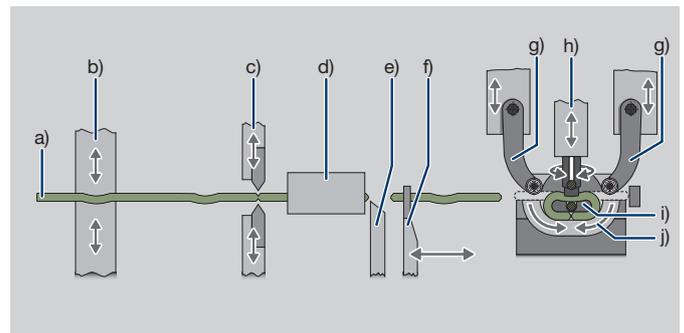
In a second station which is offset by several pitches, one each slug length is fixed by a gripper, cut-off and transported to the bending station.

There, the separated slug is inserted into a previously bent, vertically standing chain link that is held by turning tongs. In this bending station, the chain link is finish bent around a mandrel by two swivel-mounted bending levers whose rollers are positively guided in a cam plate that corresponds to the chain link shape. Wire surface damage is avoided with this bending method.

Quality, Reliability, and Cost-Efficiency – WAFIOS KER 8-Chain Bending Machine

Machine application

The KER 8 Chain Bending Machine is used for the cold bending of round steel chains. Wire material discharge from the wire coil. The bent chain can subsequently be immediately electrically welded on a separate machine.



▲ Tool design of the KER roller bending procedure

- | | | |
|--------------------|--|--------------------|
| a) Chain material | e) Counter cutting tool | h) Tilting tongs |
| b) Dies | f) Transport gripper | i) Bending mandrel |
| c) Notching tool | g) Bending levers with bending rollers | j) Cam segment |
| d) Cutting bushing | | |

▼ Bending levers with bending rollers



Quality

For more than 125 years, the name of WAFIOS has been synonymous with highest quality, safety standards, and technical innovations in the German machine manufacturing industry.

Reliability

Strict quality controls, state-of-the-art production systems, and many years of experience guarantee that your investment is safe in our hands. Our global service network ensures high availability of WAFIOS machinery.

Cost efficiency

High production output and a long service life will save money and shorten the amortization time of your investment.

Technical Data	
Wire diameter:	Tensile strength up to 750 N/mm ²
Drahteinzugslänge:	
Bent chain link:	Pitch / inside length of chain link
Output:	Tensile strength up to 750 N/mm ² Tensile strength up to 500 N/mm ²
Power installed:	
Compressed air consumption:	(at 6 bar)
Cooling water consumption:	(at 15 °C and at 3 bar)
Hydraulic system tank contents:	
Space required:	(l×w)
Weight:	

KER 8	
	13.0–20.00 mm
	135.0–360.00 mm
	min. 3 x d / 40 max. 5 x d / 126
	26–15 links/min 26–15 links/min
	22.0 + 37.0 kW
	10 l/link
	20 l/min
	1,000 l
	abt. 11,000 x 5,000 mm
	abt. 27.000 kg (including hydraulics and Switch cabinet)



Our product range includes a wide variety of high-quality chain machines.

- Chain bending machines, KEB x.1 and KEB x.2 series
- Chain bending machines, KER x.2 and KER 8 series
- KBA 601 chain bending machine with conduction (WED 601) heating or with induction (IEW 601) heating of chain link blanks
- Chain bending machine KBF 60 with induction heating (IEW 60) of chain link blanks
- Chain (resistance butt) welding machines, KEH x.2 and KEH 8 series
- Chain (flash butt) welding machines, KSH and KSF 60 series
- Chain calibrating machines, KPH series

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Precision Machinery for Wire and Tube