

HAEUSLER

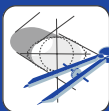
the forming factory



PLATE BENDING



PROFILE BENDING



SPECIAL FORMING



ASSEMBLING EQUIPMENT



PRODUCTION LINES

OVERVIEW



HAEUSLER headquarter in Duggingen, Switzerland

We at HAEUSLER

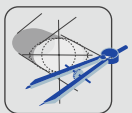
As a global operating company, HAEUSLER is constantly setting new standards in the metal forming industry. Our innovative culture has been developing for over 70 years, and goes back to a long family tradition. This experience enables us to constantly exceed technological limits for our customers throughout the world. We have grown from a small locksmith's shop to world market leader in the forming sector and the associated welding technology.

Product range – Overview



PLATE BENDING

- 4-roll plate bending machine VRM
- 3-roll plate bending machine HDR
- Large pipe plate bending machine RMS
- Ship plate bending machine SPBM
- Wing edge roll bending machine FKB



SPECIAL FORMING

- Calibration machine pipe CMR
- Post-bending machine NABM
- Dishing press HKP
- Flanging machine HBM
- Straightening machine RI
- Calibrating machine CM
- Shrinking machine SM



PROFILE BENDING

- Universal profile bending machine HPR and BB
- 4-roll profile bending machine VPR
- Tube bending machine RBM
- Winding machine RWM



ASSEMBLING EQUIPMENT

- Clamping and welding device "Crocodile"
- Clamping ring AB and ABU
- Long-seam tack welding machine CRWM



PRODUCTION LINES

- Large pipe production line using RB(E) process
- Production line for wheel rims
- Production line for vessels
- Production line for tunnel arches



PLATE BENDING



4-roll plate bending machine VRM

Plate width
up to 8 000 mm

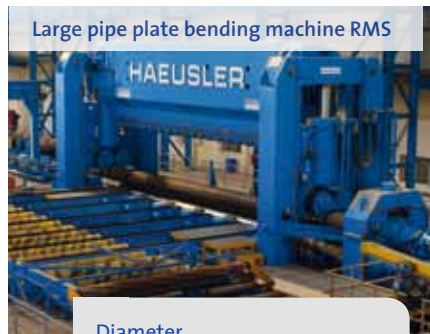
Wall thickness
up to 320 mm (cold)



4-roll bending machine VRM-STR



3-roll plate bending machine HDR



Large pipe plate bending machine RMS

Diameter
406 mm (16") to 1 626 mm (64")

Wall thickness / Pipe length
up to 42 mm / up to 13 000 mm



Ship plate bending machine SPBM

Plate width
up to 21 000 mm

Wall thickness
up to 40 mm



Wing edge roll bending machine FKB

Plate width
up to 12 000 mm

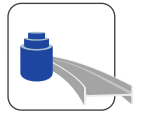
Wall thickness
up to 15 mm

Milestones

- 1947 – Development of the first HAEUSLER plate bending machine
- 1964 – Development of the world's first hydraulic 4-roll plate bending machine
- 1987 – Delivery of an aircraft fuselage and wing edge bending machine for the manufacture of airbus aircraft
- 2001 – Delivery of the world's largest 4-roll plate bending machine for wall thicknesses up to 250 mm (see photo)
- 2007 – Delivery of four ship plate bending machines for plate widths up to 21 000 mm

Other values on request





PROFILE BENDING

Universal profile bending machine HPR



Section modulus
up to 15 000 cm³



Profile bending machine HPR

4-roll profile bending machine VPR



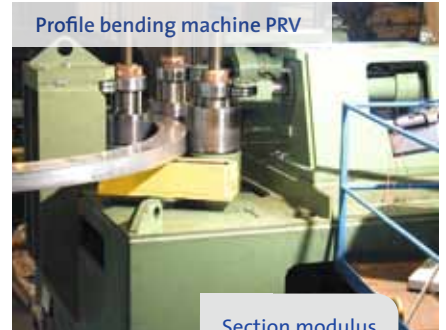
Section modulus
up to 200 cm³

Tube Bending Machine RBM
and winding machine RWM



Pipe diameter
up to 60 mm

Profile bending machine PRV



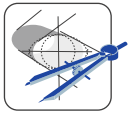
Section modulus
up to 1700 cm³

Milestones

- 1950 – Delivery of the first 3-roll profile bending machine
- 1972 – Development of the first 4-roll profile bending machine
- 1998 – Delivery of a profile bending machine for forming profiles with a section modulus up to 15 000 cm³ (see photo)

Other values on request





SPECIAL FORMING



Diameter
up to 64"/1626 mm
Wall thickness
up to 60 mm



Plate width
up to 5000 mm
Wall thickness
up to 80 mm



Expansion force
up to 200 000 kN
Diameter
up to 7500 mm

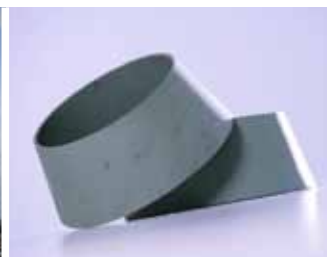


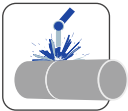
Head diameter
up to 10 000 mm
Wall thickness
up to 100 mm

Milestones

- 1956 – Delivery of the first straightening machine for plates
- 1997 – Delivery of the world's largest expander for the manufacture of components for the Ariane rocket with a calibration force up to 200 000 kN and a calibration diameter up to 7 500 mm
- 2008 – Delivery of the largest flanging machine for boiler heads with a diameter up to 7 000 mm and wall thicknesses up to 45 mm (cold) and 100 mm (hot)

Other values on request



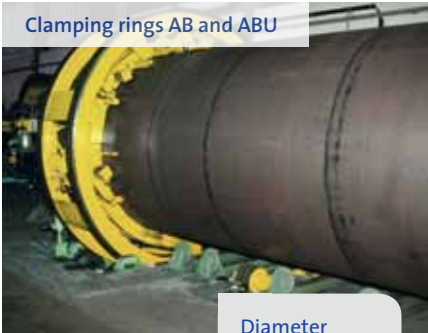


ASSEMBLING EQUIPMENT



Universal clamping and welding device "Crocodile"

Diameter
up to 10 000 mm
Wall thickness
up to 150 mm



Clamping rings AB and ABU

Diameter
from 1000 mm
Wall thickness
up to 40 mm



Long-seam tack welding machine CRWM

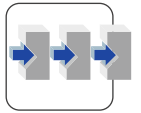
Diameter / Wall thickness
10" up to 100" / up to 70 mm
Productivity
up to 25 pipes / hour with
pipe length of 12 200 mm

Milestones

- 1991 – Delivery of the first clamping ring for vessel assembly
- 1992 – Delivery of the first automatic continuous beam welding line
- 1996 – Delivery of the first "crocodile" universal clamping and welding device for the assembly of LPG tanks

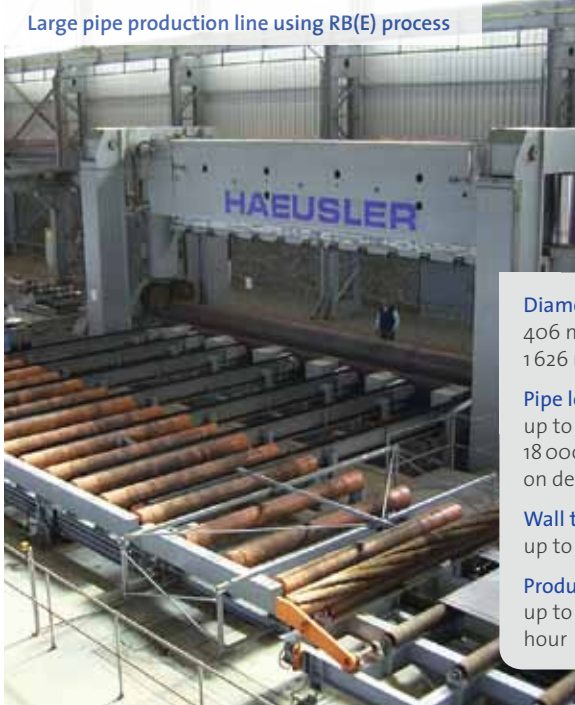
Other values on request





PRODUCTION LINES

Large pipe production line using RB(E) process



Diameter
406 mm (16") to 1626 mm (64")

Pipe length
up to 13 000 mm
18 000 mm on demand

Wall thickness
up to 42 mm

Productivity
up to 20 pipes/hour



Diameter
up to 1625 mm

Pipe length
up to 18 500 mm

Wall thickness
up to 70 mm

Productivity
up to 8 pipes/hour



Large pipe production line using JCO process

Production line for wheel rims



Diameter
from 6,00" up to 57,00"

Wheel rim width
from 1,50" up to 40,00"

Production line for vessels



Diameter
from 1000 mm

Wall thickness
up to 40 mm

Production line for wind tower segments



Wall thickness
up to 150 mm

Total length of tower section
up to 60 000 mm

Milestones

- 1972 – Delivery of the first production plant for tractor wheel rims
- 1990 – With the delivery of two complete pipe production lines, HAEUSLER enters the 12-meter pipe sector
- 1994 – The first production line for railway tank car is built
- 1999 – With the construction of a plate bending machine and a "crocodile" clamping and welding device for the manufacture of wind towers, HAEUSLER enters the wind energy sector
- 2004 – Delivery of the fastest large pipe plate bending machine with a productivity of 20 pipes per hour

Other values on request



HAEUSLER

the forming factory

North America

- General Electric, US
- Trinity Industries, US
- McDermott, US
- Berg Steel Pipe, US
- Caterpillar, US
- John Deere, US
- Aker Solutions, US
- Huntington Ingalls I., US
- Exterran Energy S., US
- Kiewit Offshore S., US
- Swecomex (Carso), MX
- Edmonton Exchanger, CA

Western Europe

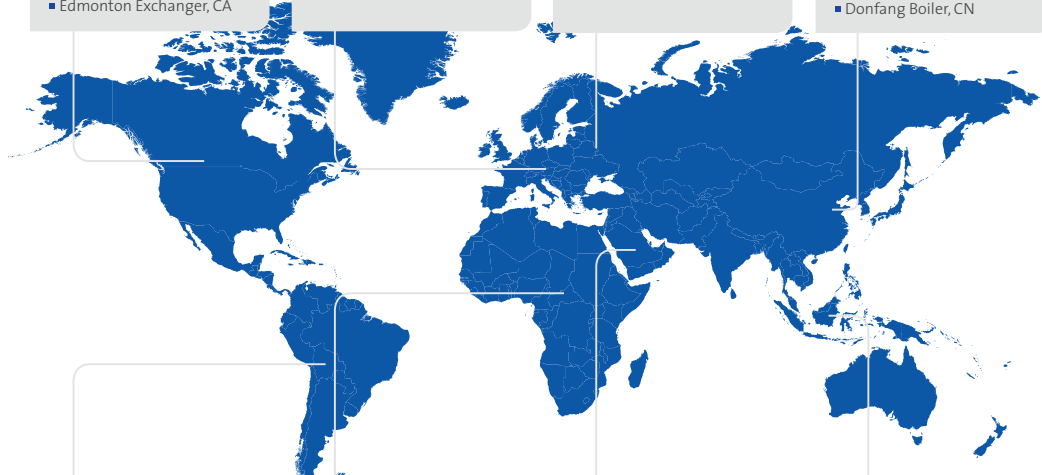
- Daimler, DE
- EADS (ehem. MBB), DE
- Liebherr, DE
- Dillinger Hütte GTS, DE
- Viessmann Werke, DE
- Alstom, FR
- Michelin, FR
- DAF Trucks, NL
- Corus (Tata Steel), GB
- Navantia, ES
- Felguera Caldereria Pesada, ES

Eastern Europe/CIS

- TMK (Volzhsky Pipe Plant), RU
- Uralmash, RU
- KAMAZ, RU
- Energomash, RU
- Khronichev Space Center, RU
- GAZ, RU
- Gagarinsky Machine Building Plant, RU
- Khartsyzsk Tube Works, UA
- Minsk Tractor Works, BY
- Rafako, PL

Far East

- Sumitomo Corporation, JP
- Hokkai Steel Works, JP
- CSIC - China Shipbuilding & Offshore International, CN
- Otis Elevator Investment, CN
- Hyundai Heavy Industries, KR
- Seah, KR
- Doosan Heavy Industries & Construction, KR
- Samsung, KR
- Formosa Plastics, TW
- Donfang Boiler, CN



South America

- IMPSA, AR
- TenarisSiat, AR
- Estaleiro Atlântico Sul, BR
- Voith Paper, BR
- Atlas Schindler, BR
- Alstom, BR
- TenarisConfab, BR
- Engebasa Mecânica e Usinagem Ltda., BR

Africa

- Dorbyl Heavy Engineering, ZA
- Steinmüller, ZA
- Atlantic Diesel Engines, ZA
- Petrojet, EG
- Helwan Engineering Industries, EG
- Westcom Technologies & Energy, NG
- SMT – Sudan Master Technology, SD

Middle East

- Ahvaz Pipe Mills, IR
- Safa Rolling And Pipe Mills, IR
- McDermott Middle East, AE
- NPCC – National Petroleum Construction Com, AE
- APC – Arabian Pipes Com, SA
- NPC – National Pipe Com, SA
- Gulf Engineering Com, SA
- KPIOS (M. A. Kharafi & Sons), KW

Southeast Asia/Australia

- L&T – Larsen & Toubro, IN
- Cochin Shipyard, IN
- Bharat Heavy Electricals, IN
- Thermax, IN
- Godrei & Boyce, IN
- Mazagon Dock, IN
- Canadoil Group, TH
- Vietsovpetro, VN
- Rollco, AU
- Australian Submarine, AU

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