



3-ROLL PLATE BENDING MACHINE

HDR – THE BENDING GENIUS

THE HDR

AS FLEXIBLE AS IT'S VARIABLE GEOMETRY

First-class HAEUSLER quality and expertise paired with durability and low operating costs – this is exactly what you get with the 3-roll plate bending machine HDR from HAEUSLER. The HDR convinces by the individually adjustable bending geometry of the bottom rolls, which enables rolling of very thick plates as well as small diameters. Best bending results can be achieved thanks to the use of the patented top roll adjustment by using only pressure loaded cylinders and thus resulting machine symmetry.

Theund

Jürgen Freund, CEO of HAEUSLER



POWER DEVELOPMENT

WITH SENSITIVITY

The new HDR design, with all its advantages is based on over 35 years of development. It is our firm conviction that the latest design concept, that was invented in 2009, is superior to any other concepts that are available on the market. Based on this fact we protected our model by worldwide patent.

stability of the frame.

In addition to the conceptual advantages of our HDR, numerous other design aspects, such as the rigid construction of the machine frame, the symmetrical load induction, the completely covered guiding plates or the robust spherical roller bearing dimensioning help our HDR to achieve unique quality and a long service lifetime.

synchronization can be reali-

zed with very high accuracy.



stiff design.

Minimum foundation costs

for the customer.

6 | HYBRID DRIVE SYSTEM HHDS® | 7



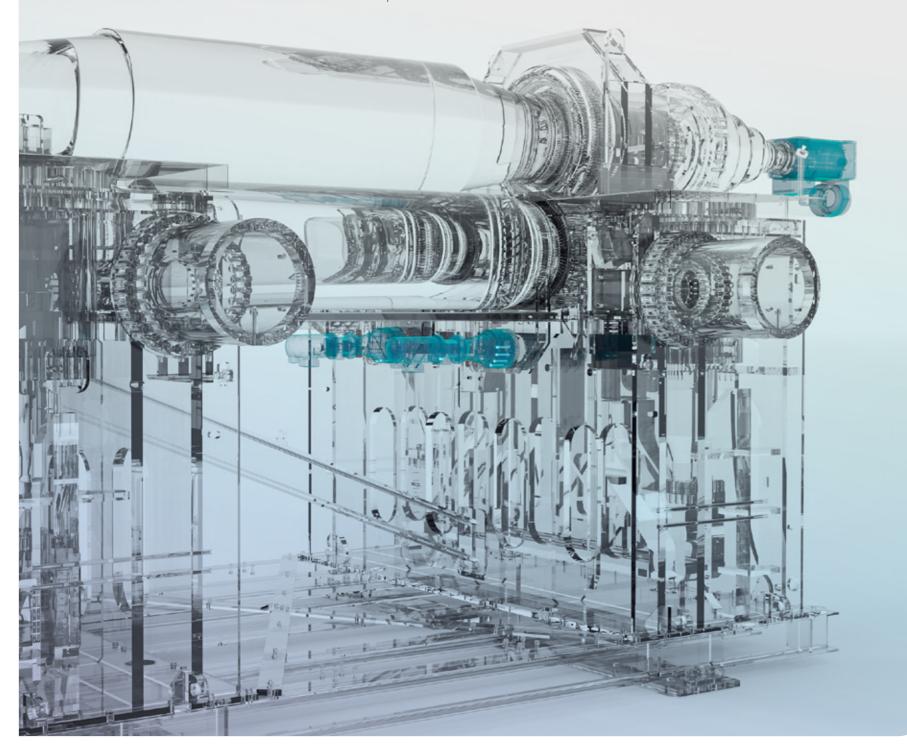
50% COST SAVINGS

Reduced running costs due to usage of electrical motors in combination with planetary gearboxes.



SUPERIOR PRODUCTIVITY

Step-less adjustable rotation speed from 0 - 8 m/min, which is an increase of 60%.



ENERGY EFFICIENT HHDS®

HYBRID DRIVE SYSTEM

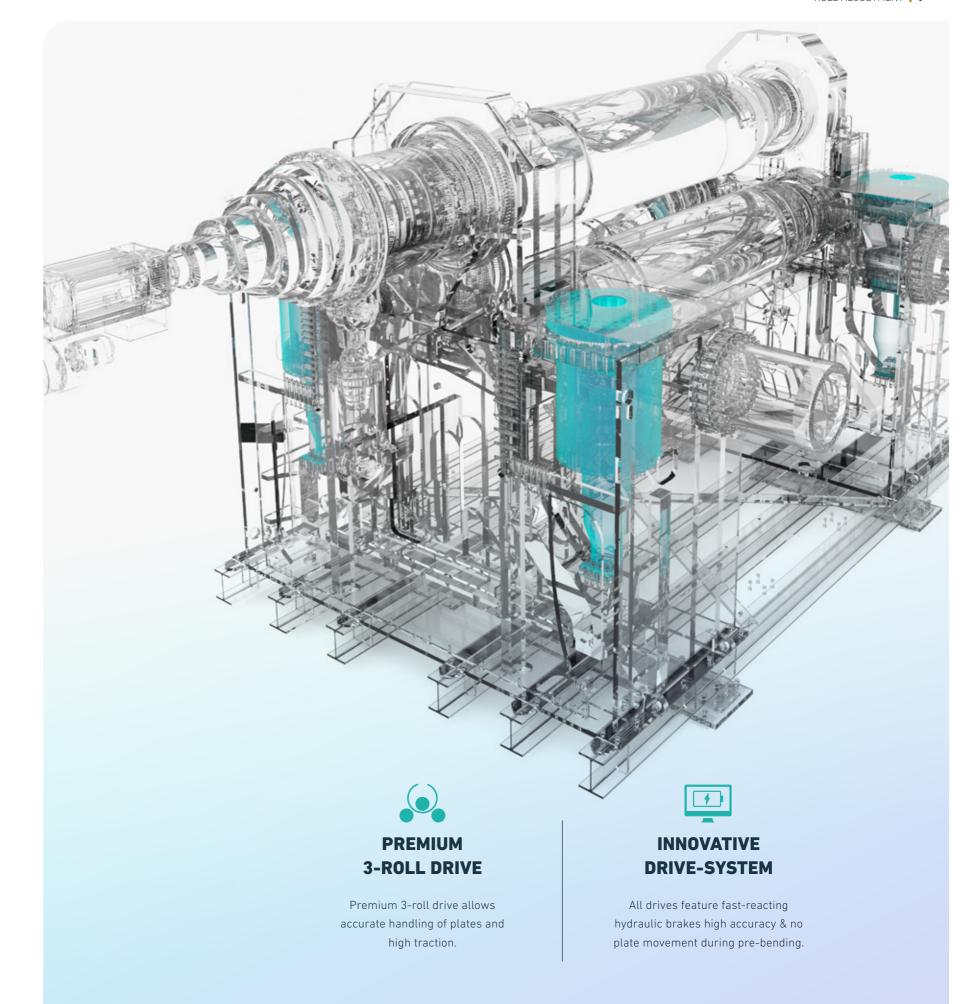
The HAEUSLER Hybrid Drive System HHDS® provides an unmatched efficiency due to the consequent usage of electrical motors in combination with planetary gearboxes. In practice this means savings of up to 50% of the running costs. Additionally the Hybrid Drive System allows a step-less adjustable rotation speed from 0 - 8 m/min. This is, compared to other machines that are available on the market, an increase of 60% and the basis for a high productivity.



ROLL *ADJUSTMENT*

As with all sheet metal bending machines, special attention must be paid to precise and low-wear roll guidance in order to guarantee the highest bending accuracy.

HAEUSLER has developed a patented concept, which allows extremely long guideways and at the same time guarantees the highest possible infeed accuracy. This is achieved by the absolutely symmetrical construction of all roll adjustment cylinders, which are only pressure loaded to adjust the rolls. All cylinders of the HAEUSLER HDR are absolutely identical, both for the bottom and the top roller adjustment. Furthermore, this unique concept ensures very good accessibility to the cylinders, e.g. for maintenance purposes and excellent visibility of the bending process.







10 RIGID MACHINE FRAME DESIGN



RIGID MACHINE

FRAME DESIGN

Our HDR base frame is designed in such a way that the front and rear columns are made of one piece. As a result, the frame does not have to be split horizontally and bolted together, which enables us to achieve a very compact design.

A particular advantage is that no dynamic process forces are induced into the foundation, so that only a minimal machine pit is required. The HDR is thereby particularly compact and achieves maximum stability under bending forces - with maximum cost savings.



12 BEND IT CONTROL SYSTEM 13

BENT IT

PERFECT CONTROL BEND IT CONTROL SYSTEM

The BEND IT control system is the result of a cooperation between HAEUSLER and BECKHOFF. The newly developed and programmed software is state of the art with amazing features, not comparable to any others available on the market.









HAEUSLER HDR

EQUIPMENT

HAEUSLER offers a range of additional equipment for the HDR to equip your plate bending machine according to your needs.

STANDARD EQUIPMENT



AUTOMATIC CENTRAL GREASE LUBRICATION

By using an automatic central grease lubrication system, all relevant points of the machine are automatically lubricated.



| FAST REACTING **OVERRUN BRAKE**

The quick-reacting overrun brakes fitted as standard enable the operators to work very precisely.



| ETHERNET CONNECTION

The online access enables our service engineers to access our customers' machines within the shortest possible time and guarantees an optimal support.

OPTIONAL EQUIPMENT



| CHANGE ROLLS

Exchangeable rolls enable our customers to bend even very small diameters. The HDR is equipped so that the roller used is automatically recognised.



| PLATE STOPS

The optionally available plate stop simplifies the alignment of the plate in the machine, is time saving and helps to achieve best bending results.



| FASTER ROTATION

Especially when bending very large diameters, the speed of rotation of the machine is decisive for productivity.

16 OPTIONAL ACCESSORIES

HAEUSLER HDR

ACCESSORIES

With the optional accessories for the HDR plate bending machine, the bending experience can be optimised even further.



UPPER SUPPORT

By using an automatic central grease lubrication system, all relevant points of the machine are automatically lubricated.



LATERAL SUPPORT

The quick-reacting overrun brakes fitted as standard enable the operators to work very precisely.



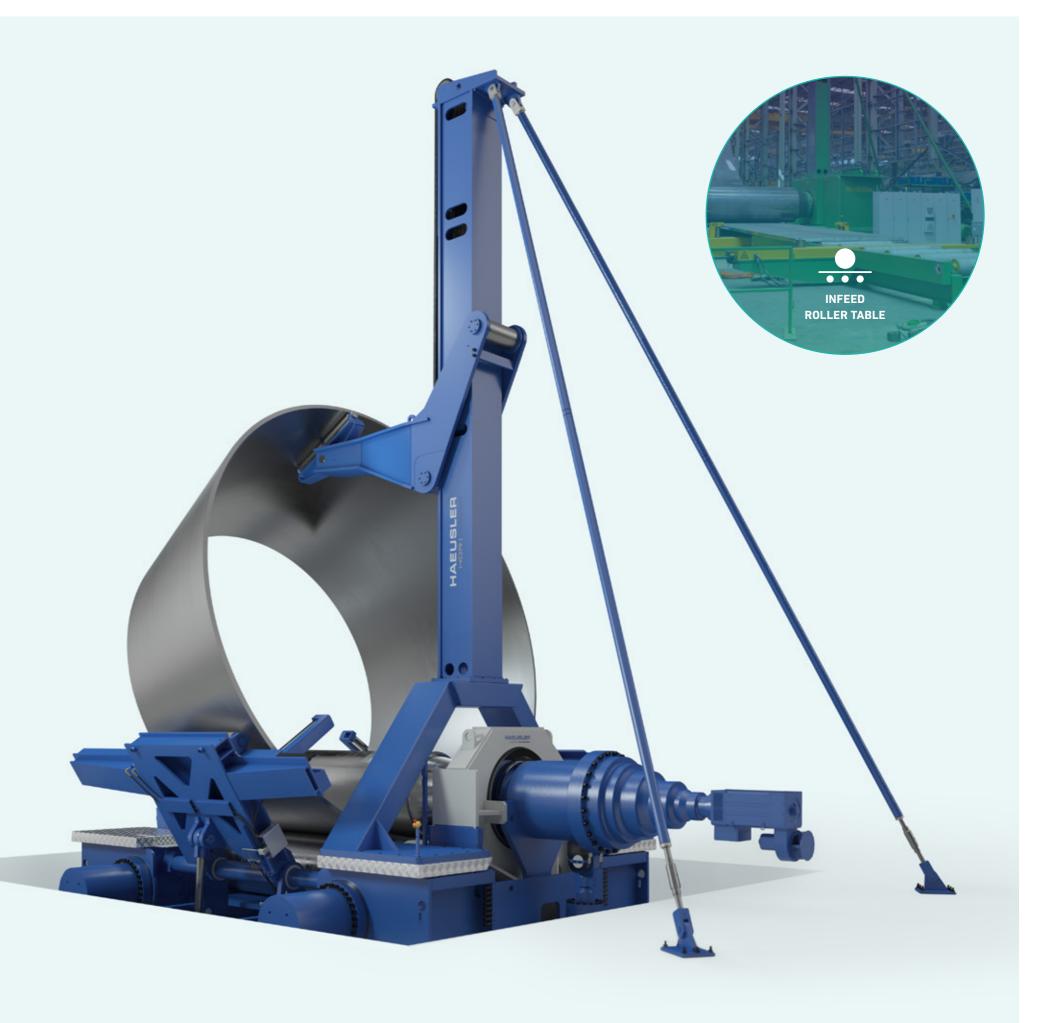
INFEED ROLLER TABLE

Infeed roller table simplify loading the machine. Sheets are placed on the roller table and transported into the machine from there.



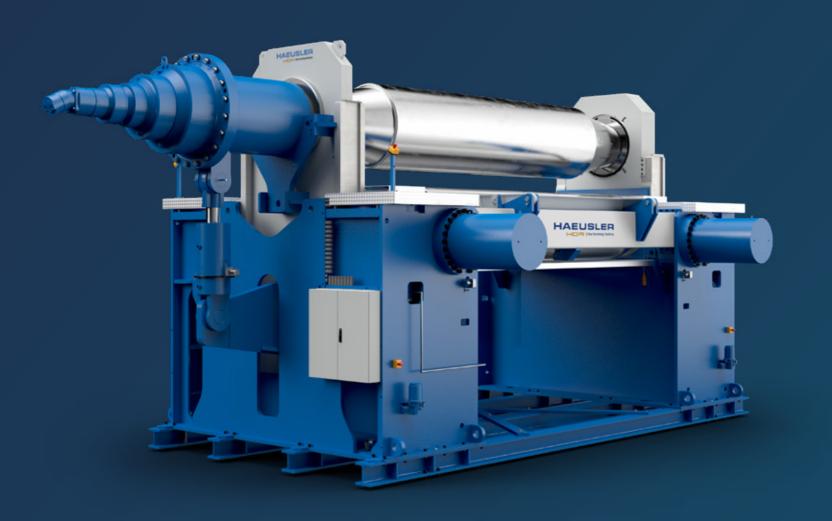
| CALIBRATION OF CONES

By inclining all three rollers, the cone can be brought into a position on the machine where it can be held stably. This allows continuous calibration of cones. Cones can also be calibrated without manipulators. Manipulators and the upper support ensure time saving in positioning the welded cone on the machine



HAEUSLER HDR

FEATURES AT A GLANCE



DESIGN OF MACHINE

Symmetrical design

CYLINDER TYPE

Pressure cylinders for movement of top roll

CYLINDER DIMENSION

Four identical cylinders used for movement of top roll

FOUNDATION

Simple and small with minimal machine pit

GUIDING-WAYS

Very long guiding-ways

UPRIGHT COLUMNS

Made in one piece, even for the largest machine sizes

NUMBER OF DRIVEN ROLLS

Premium 3-roll drive

BRAKES

Fast-reacting hydraulic brakes for stopping fo rolls

INSTALLED TORQUE

Very high torque installed

LUBRICATION

Automatic central lubrication unit installed

ROLL MATERIAL

High alloyed steel. For special applications rolls are hardened

MAINTENANCE

Easy access to all main cylinders HDR supporting dynamic

INTELLIGENT SYSTEMS

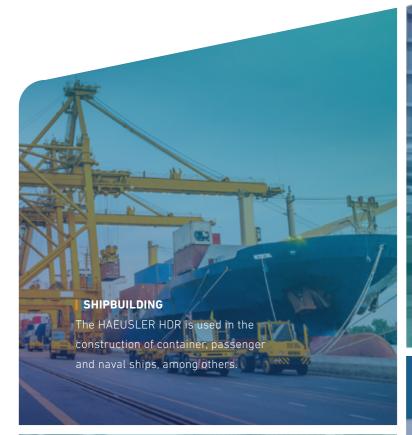
Overload protection system

Absolute measurement system

Automatic central lubrication system

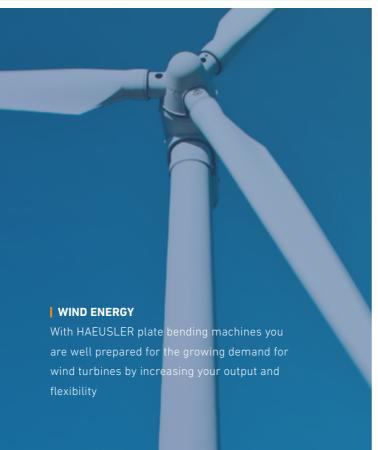
HAEUSER HDR

IN ACTION

















HAEUSLER

SERVICES

The highly professional HAEUSLER TECH service team takes care of your needs immediately: Installation, commissioning, training and preventive maintenance - worldwide.









SERVICE **PACKAGE**



CUSTOMIZED PACKAGE

ASK OUR EXPERTS



HAEUSLER WORLDWIDE

HAEUSLER sees itself as an export oriented company. Our machines are in operation on all continents and in more than 100 countries.



NORTH AMERICA

General Electric, US Trinity Industries, US McDermott, US Berg Steel Pipe, US Caterpillar, US ask for more...



SOUTH AMERICA

IMPSA, AR TenarisSiat, AR Voith Paper, BR Atlas Schindler, BR Alstom, BR ask for more..



| WESTERN EUROPE

Daimler, DE EADS, DE Liebherr, DE Dillinger Hütte GTS, DE Viessmann Werke, DE ask for more...



AFRICA

Steinmüller, ZA Petrojet, EG Helwan Engineering Industries, EG Westcom Technologies & Energy, NG ask for more..



| EASTERN EUROPE / CIS

TMK (Volzhsky Pipe Plant), RU Uralmash, RU KAMAZ, RU Energomash, RU ask for more...



| FAR EAST

Hokkai Steel Works, JP Hyundai Heavy Industries, KR Seah. KR Samsung, KR ask for more..



MIDDLE EAST

Ahvaz Pipe Mills, IR Safa Rolling And Pipe Mills, IR McDermott Middle East, AE NPCC - National Petroleum Construction Com, AE ask for more...



| AUSTRALIA/SEA

Godrei & Boyce, IN Mazagon Dock, IN Canadoil Group, TH Vietsovpetro, VN Rolco, AU ask for more...

We own two HAEUSLER HDRs (4000mm × 150mm and 3000mm × 115mm). Both machines fully meet the promised capacities and performance. The quality of the machines is excellent, as well as the service. After four years of production we are sure that we have made the best choice.

FOLLOW US!

To keep you up to date on current topics, we are also present for you on the social web - follow us on our social media channels and get information about our company, products, career opportunities and trade fair events.









