

Hydraulic 4-roll plate rolling machine UZMA UHSS-4 20280





Machine description

Hydraulic 4-roll plate rolling machine UZMA UHSS-4 20280

Industrial 4-roll plate rolling machine for medium and thick plates



KARTA PRODUKTOWA

UZMA UHSS-4 20280 is a hydraulic 4-roll plate rolling machine designed for efficient bending, pre-bending and rolling of plates with a working length of **2050 mm**.

The machine enables **pre-bending of plates up to 16 mm** oraz **full rolling up to 20 mm**. The four-roll arrangement provides good control over the sheet and reduces the flat section at the material ends.

The UHSS-4 model is suitable for producing cylinders, tank shells, pipes, structural components, steel segments and parts for heavy industry.



Working length

2050 mm



Pre-bending

16 mm



Full rolling

20 mm



Motor power

16,5 kW

UHSS-4 20280 is a heavy-duty rolling machine for precision work with thick plate.

The 4-roll system, hydraulic drive and heavy-duty construction ensure stable operation in demanding production tasks.

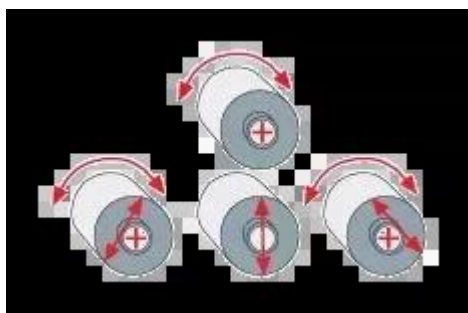
Photo gallery

Machine photos

KARTA PRODUKTOWA



Machine view



Roll arrangement

KARTA PRODUKTOWA



Control panel

KARTA PRODUKTOWA



Construction details

Why choose the UZMA UHSS-4 rolling machine?

4R



KARTA PRODUKTOWA

4-roll configuration

Better sheet guidance, precise pre-bending and a smaller flat section at the plate ends.

16

16 mm pre-bending

The machine enables pre-bending of the material before the main rolling process begins.

20

20 mm full rolling

The rolling machine is designed for forming plates up to 20 mm thick.

280

280 mm upper roll

The large upper roll diameter increases rigidity and stability during operation.

16.5

16.5 kW power

High power provides adequate torque and smooth operation of the hydraulic system.

8.5T

Weight 8550 kg

The heavy-duty construction reduces vibration and increases stability when bending thick plates.

Operating principle

How does a hydraulic 4-roll plate rolling machine work?

In a 4-roll rolling machine, the material is clamped between the upper and lower rolls, while the side rolls shape the radius. This arrangement enables convenient pre-bending and main rolling of the sheet in one controlled process.

1



KARTA PRODUKTOWA

Clamping and positioning the plate

The sheet is stabilised between the rolls, making it easier to control the material position.

2

Edge pre-bending

The side rolls enable the ends of the sheet to be pre-bent, so the finished part has a smaller flat section.

3

Main rolling

The material is guided through the roll system until a cylinder, arc or structural segment is achieved.

What can you use the UZMA UHSS-4 20280 rolling machine for?

A 4-roll rolling machine is ideal wherever precise plate rolling is required, including the production of cylinders, shells, pipes, tanks and components for heavy industry.

☒

Cylinder and pipe production

Full rings and segments

- Forming pipes and sleeves from steel plates.
- Production of cylindrical structural components.
- Work with a repeatable bending radius.

☒

Shipbuilding and structural industry

Heavy steel components

- Bending components for steel structures.
- Processing medium and thick plate sheets.
- Producing arcs and structural sections.

☒



KARTA PRODUKTOWA

Tanks and steel shells

Industrial production

- Tank shells and rolled segments.
- Components for the pipeline industry.
- Single-unit and series production.

Full technical specification

Model **UHSS-4 20280**

Machine type **Hydraulic 4-roll plate rolling machine**

Working length **2050 mm**

Pre-bending capacity **16 mm**

Main rolling capacity **20 mm**

Upper roll diameter **280 mm**

Side roll diameter **220 mm**

Motor power **16,5 kW**

Working speed **1,5–5 m/min**

Overall dimensions **4850 × 1700 × 1850 mm**

Total weight **8550 kg**

Rolling system **4-roll**

Drive **Hydraulic**

Intended use **Bending, pre-bending and rolling of medium and thick plates**