

# SMART

# STEEL DRYER

STEEL DRYING CYLINDERS



- ✓ *drying capacity increase*
- ✓ *steam savings*
- ✓ *safety increase*



**HERGEN**  
PAPER MACHINERY

*40 years*

Dryer Cylinders with  
proven quality



**More than 200**  
Drying Cylinders  
supplied to Latin American market

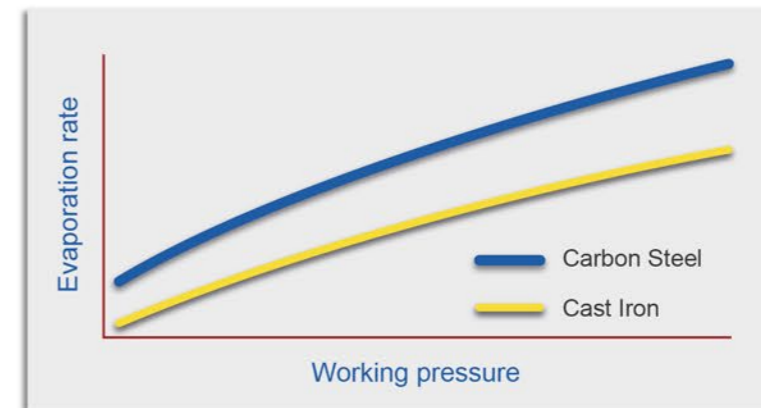
With more than 30 years of experience on the Drying Cylinders fabrication, Hergen has become one of the main suppliers in Latin America.

We design and built Carbon Steel Dryers for a wide range of machine sizes. The Dryers are built through a modern and rigorous process, in order to meet the highest quality standards required by world market.

There are many advantages of Carbon Steel construction as

✓ **Drying capacity increase and steam savings**

The Carbon Steel with its ductile nature, allows the use of thinner Cylinder shell, which results on a higher heat transfer rate for the paper web



✓ **Safety increase**

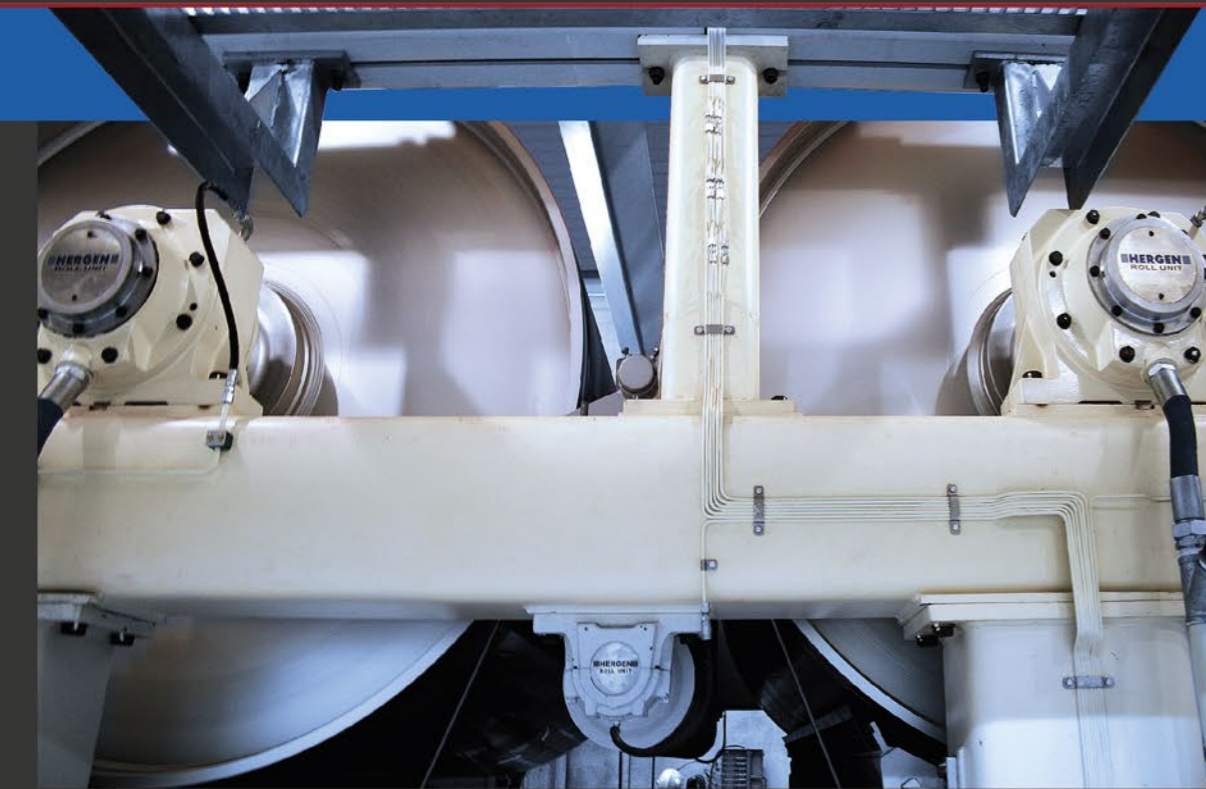
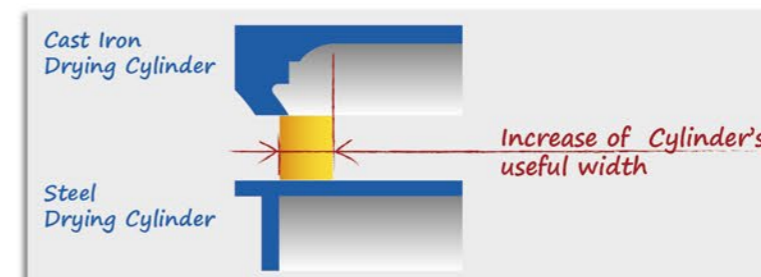
The Carbon Steel construction eliminates the risk of explosion

✓ **Low maintenance**

The heads are welded to shell, which eliminates any possibility of leakage

✓ **Increase of usable width**

The more compact construction of the Steel Cylinders increases its usable width, this feature may solve drying problems as wet edges

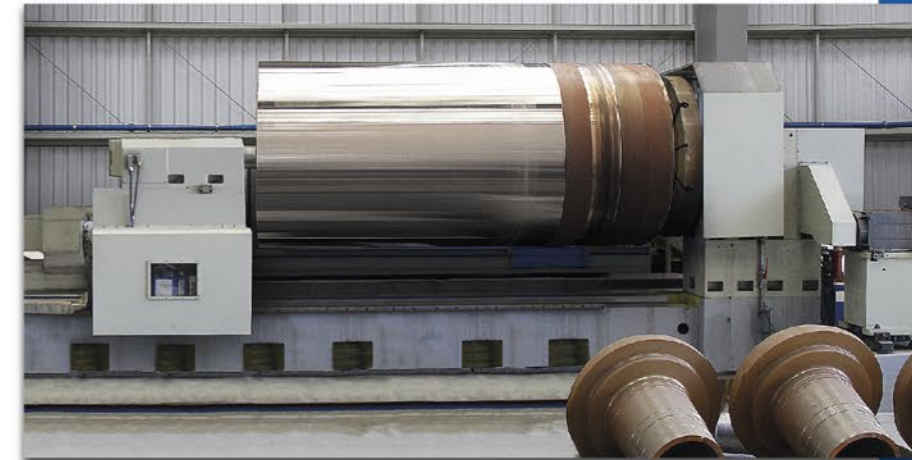


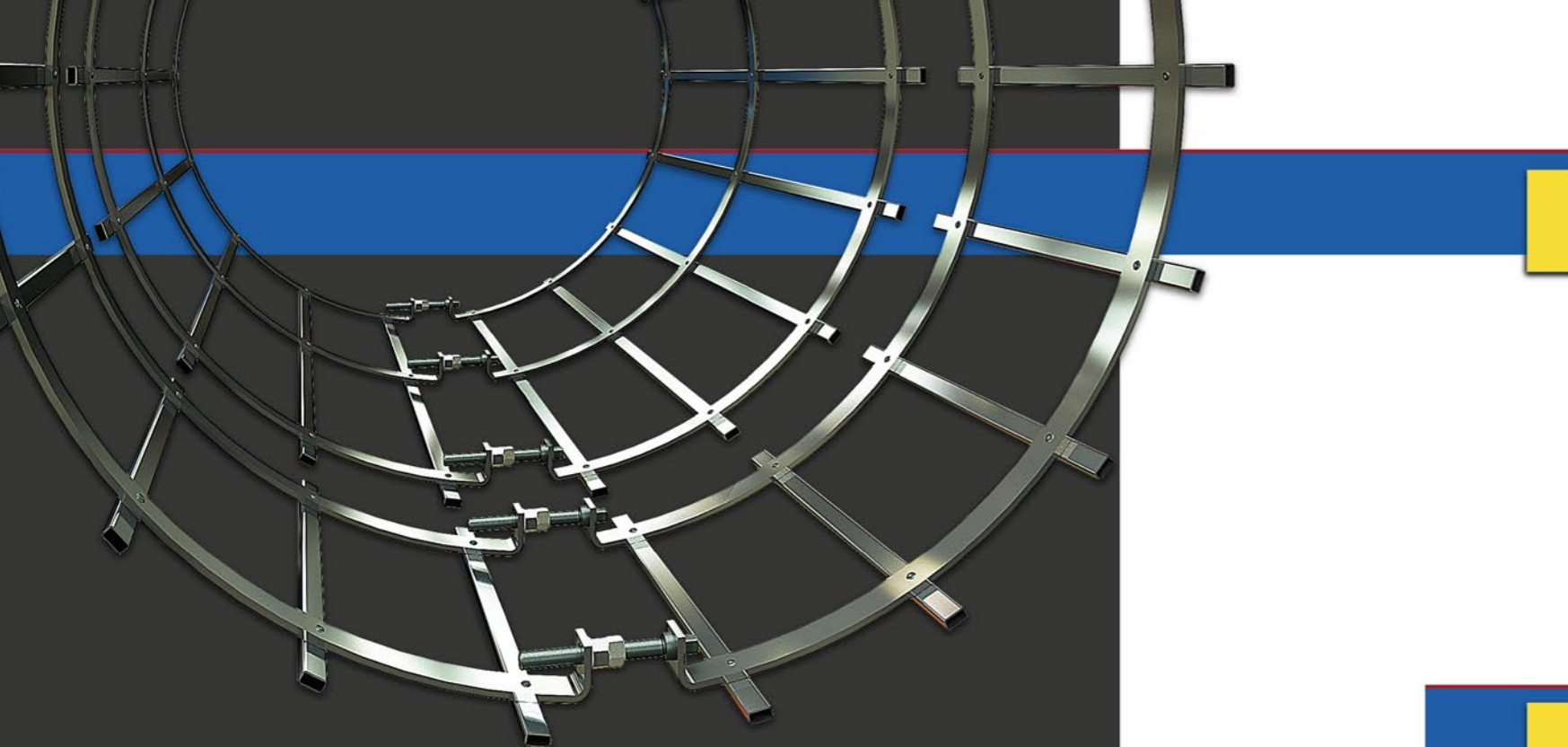
## Hergen's Drying Cylinder - Manufacturing

We have a long experience in the manufacture of Drying Cylinders for paper industry, supplying Cylinders for Brazilian and international market for over 30 years.

We manufacture Drying Cylinders for a wide range of applications for packaging, writing and printing, tissue and specialty paper grades.

Our facilities include a modern manufacturing line dedicated to high capacity equipment and a strict quality control at every manufacturing stage.



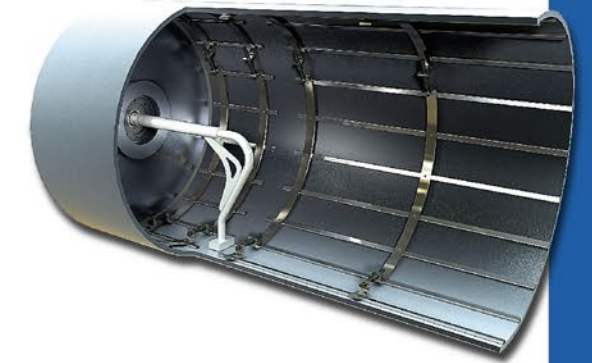


## Turbulence bars

The main function turbulence bars is to break the condensate film on cylinder's inner surface, which results on an increased convection between cylinder and the condensate layers, that means higher heat exchanger.

**Benefits:**

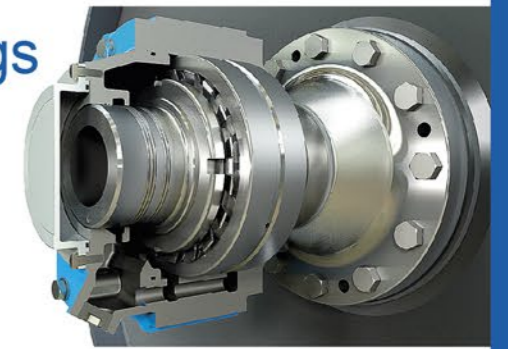
- ✓ *Drying capacity increase*
- ✓ *Improved drying/moisture profile*
- ✓ *Increased the drying rate of Cylinders that are already working at their evaporation limit*
- ✓ *Low cost*



## Oil lubricated bearing housings

**Benefits:**

- ✓ *Increase of roller bearing lifespan*
- ✓ *Low maintenance*
- ✓ *Excellent cost/benefit ratio*

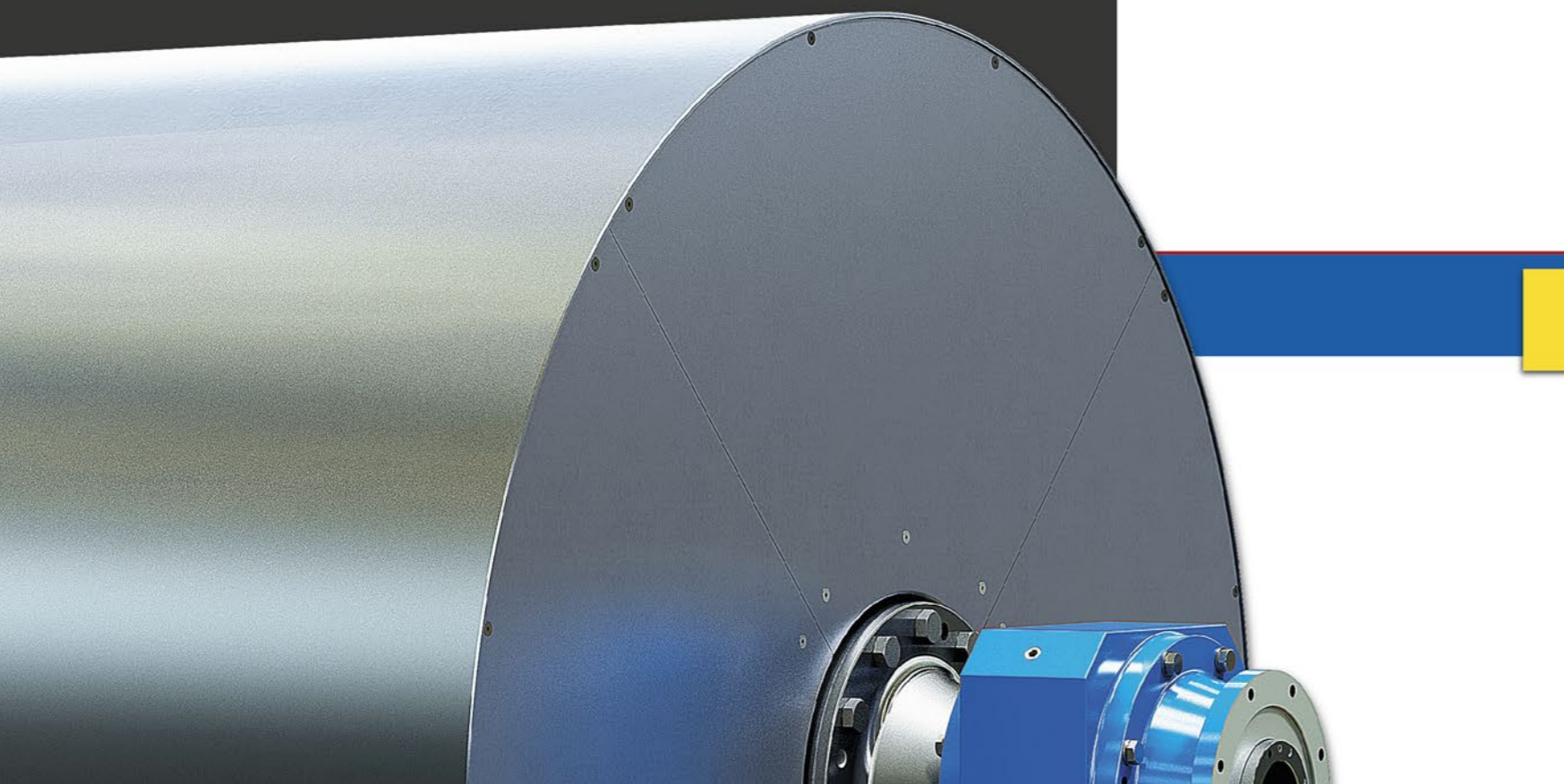


## Flanged assembly of rotary joints

This system allows precise alignment between rotary joint and Drying Cylinder journal, reducing wear of the rotary joint's sealing

**Benefits:**

- ✓ *Increase sealing's lifespan*
- ✓ *Low maintenance*

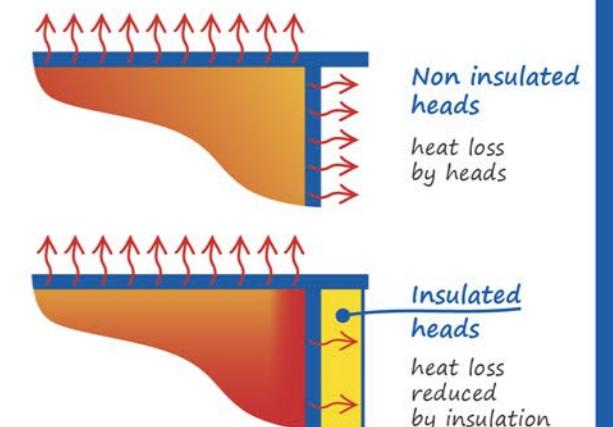


## Head Insulation

The Drying Cylinder loses heat by its heads, which means constant loss of energy. The use of head insulation reduces these losses, resulting in considerable energy savings.

**Benefits:**

- ✓ *Steam savings in the order of 3-5%*
- ✓ *Operators safety*
- ✓ *Low cost*

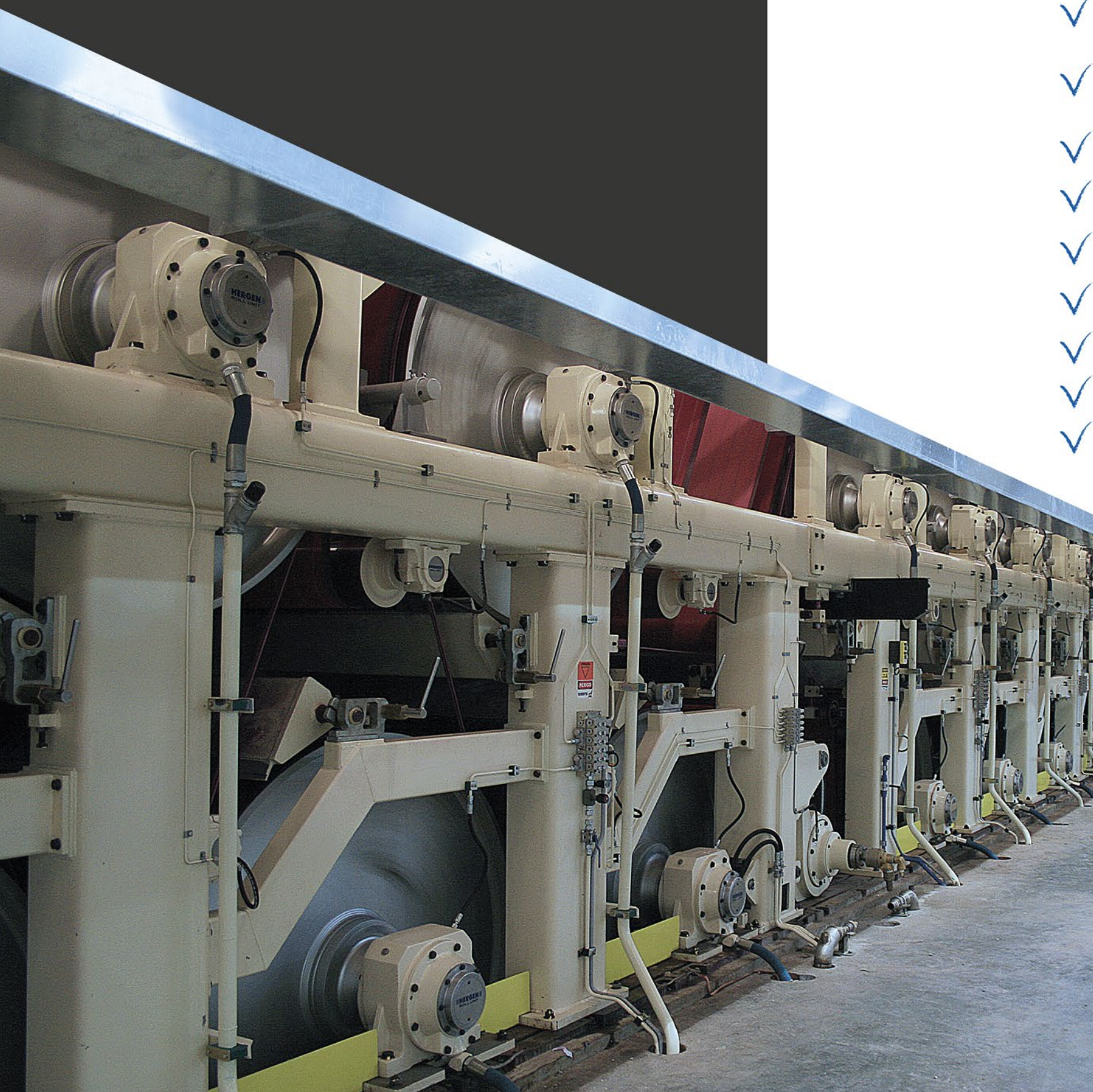


## Quality control

- ✓ Quality certificate of all steel plates used during manufacturing process – featuring mechanical properties and chemical composition
- ✓ Quality certificate of all casted items – featuring mechanical properties, chemical composition and metallographic structure
- ✓ Manufacturing process in accordance to the most strict standards (ASME, PED or any other according to purchaser's country requirements)
- ✓ Ultrasonic inspection of the whole steel plate (shell and heads)
- ✓ Dimensional inspection after shell fabrication
- ✓ Ultrasound inspection of all welding seams
- ✓ Heat treatment for stress relief
- ✓ Hydrostatic test according to ASME or PED standards
- ✓ Dynamic balancing in accordance to ISO 1940 Class G 2.5
- ✓ Strict dimensional control through all manufacturing process

## Manufacturing capacity

Model	Diameter (mm)	Max. face length (mm)	Working pressure (bar)	Manufacturing Standard
SSD 1000	1000	10.300	10	ASME ou PED
SSD 1200	1200	10.300	10	ASME ou PED
SSD 1300	1300	10.300	10	ASME ou PED
SSD 1500	1500	10.300	10	ASME ou PED
SSD 1800	1828	10.300	10	ASME ou PED
SSD 2000	2000	10.300	10	ASME ou PED



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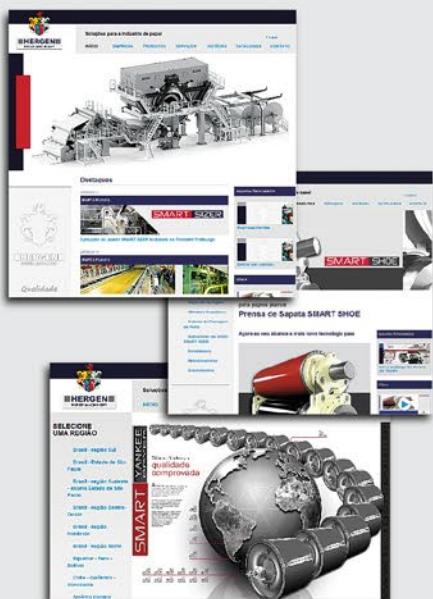
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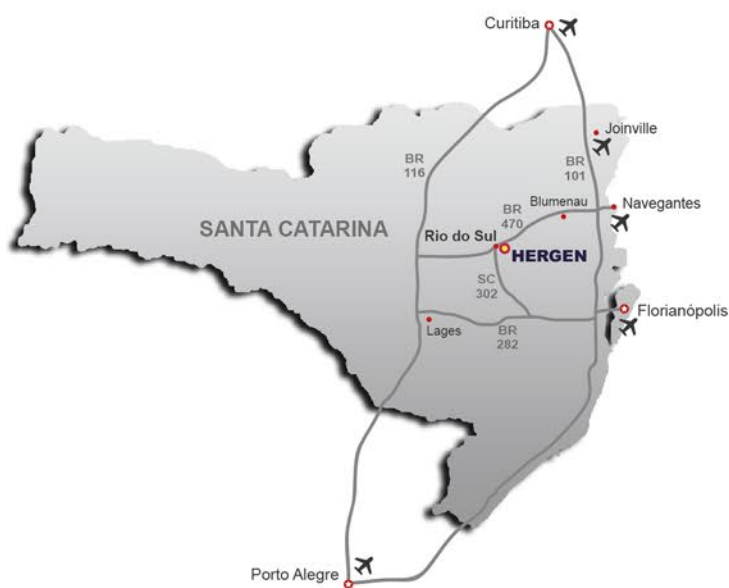
### News

Read about our latest star-up's and learn more about our work on national and international market



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