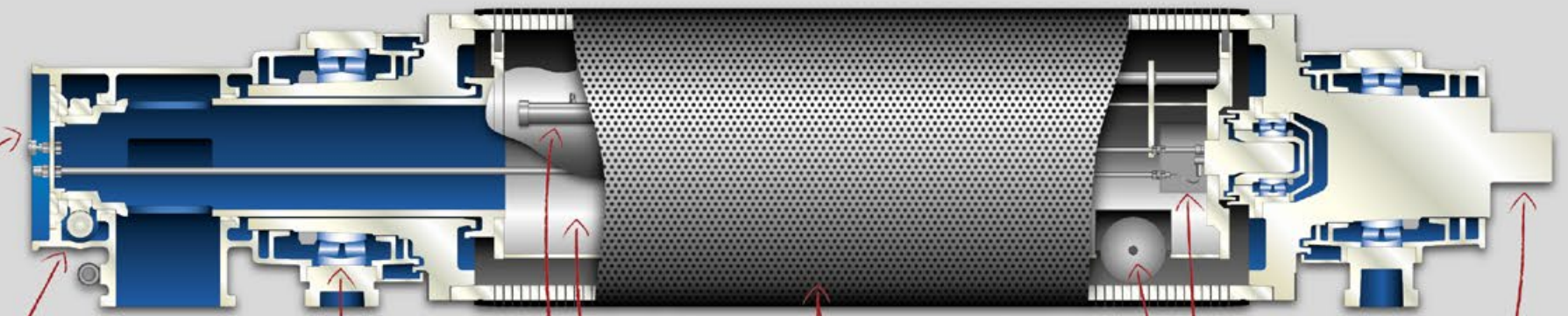
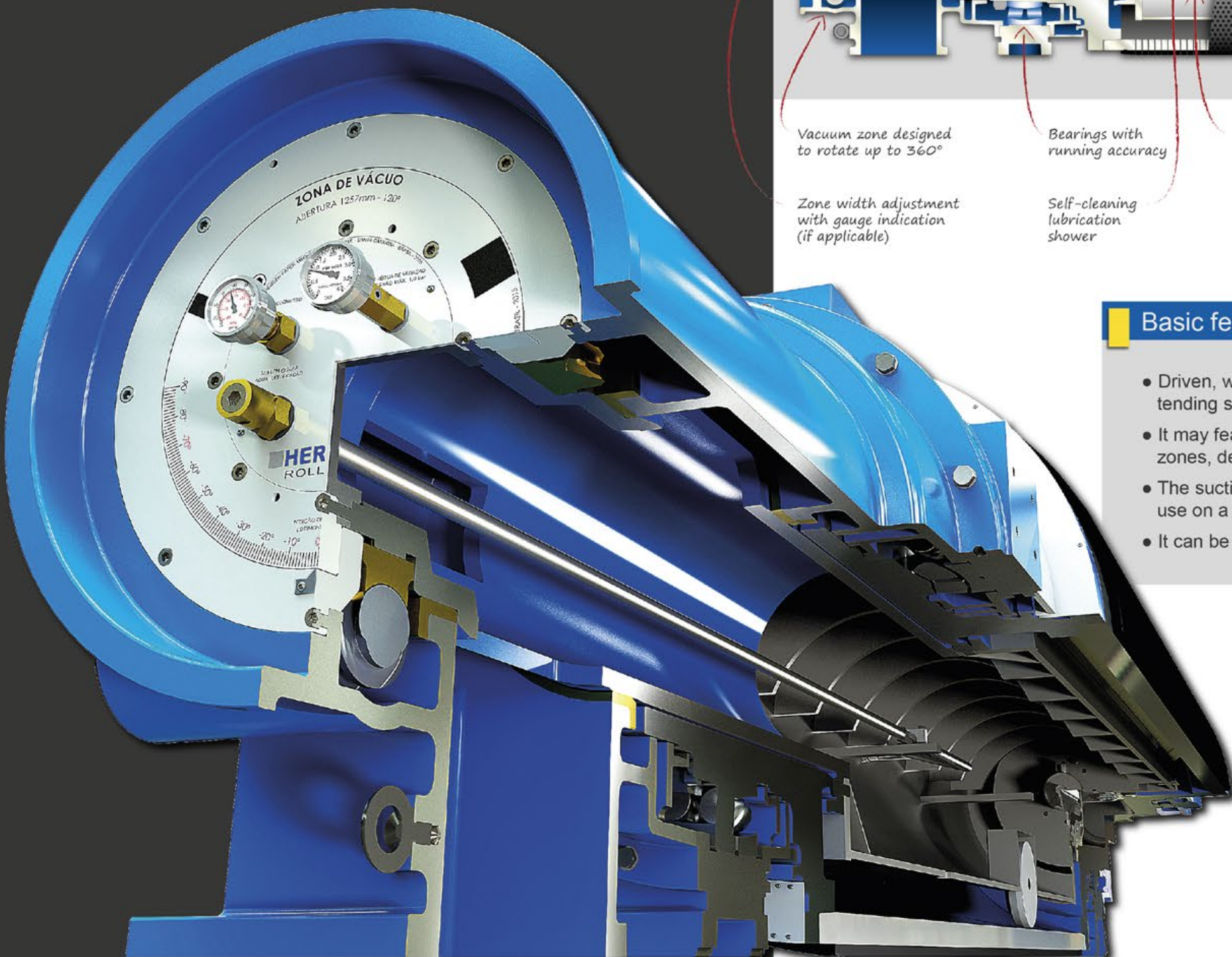


SUCTION PRESS/PICK UP/COUCH ROLL



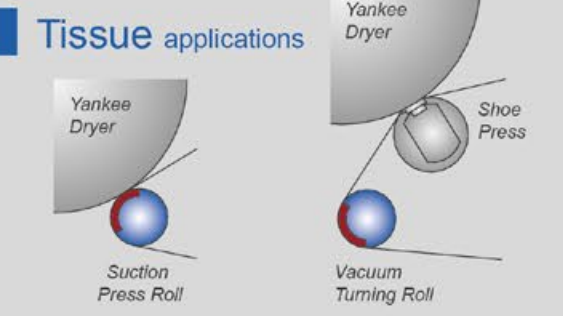
- Vacuum zone designed to rotate up to 360°
- Bearings with running accuracy
- Stainless Steel vacuum chamber
- Shell built in Duplex Stainless Steel
- Journals built in nodular Cast Iron
- Zone width adjustment with gauge indication (if applicable)
- Self-cleaning lubrication shower
- The shell drilling is done using gun-drilling process
- The vacuum chamber features a roller for easy maintenance
- Vibration level and roller bearing temperature monitoring



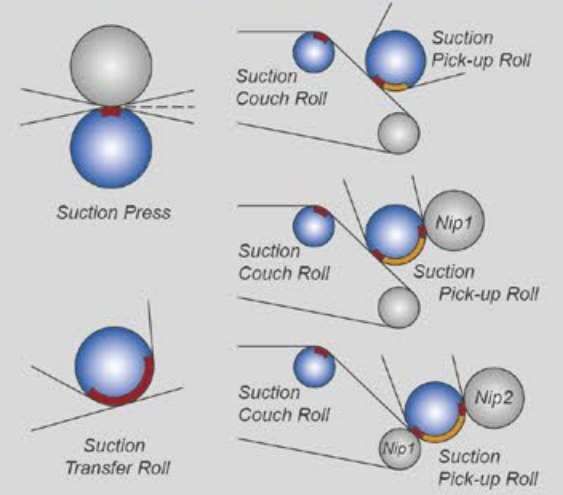
Basic features

- Driven, with vacuum outlet at tending side
- It may feature one or more vacuum zones, depending on its application
- The suction roll design enables its use on a wide range of applications
- It can be grease or oil lubricated

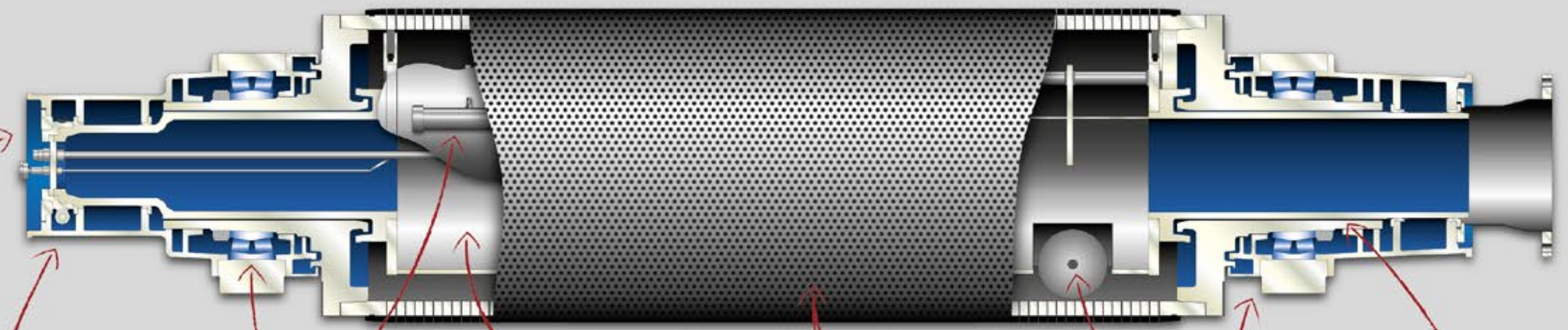
Applications



Packaging, Carton, Writing & Printing and Special grades applications



SUCTION PRESS/PICK UP ROLL



Vacuum zone designed to rotate up to 360°

Zone width adjustment with gauge indication (if applicable)

Self-cleaning lubrication shower

Bearings with running accuracy

Stainless Steel vacuum chamber

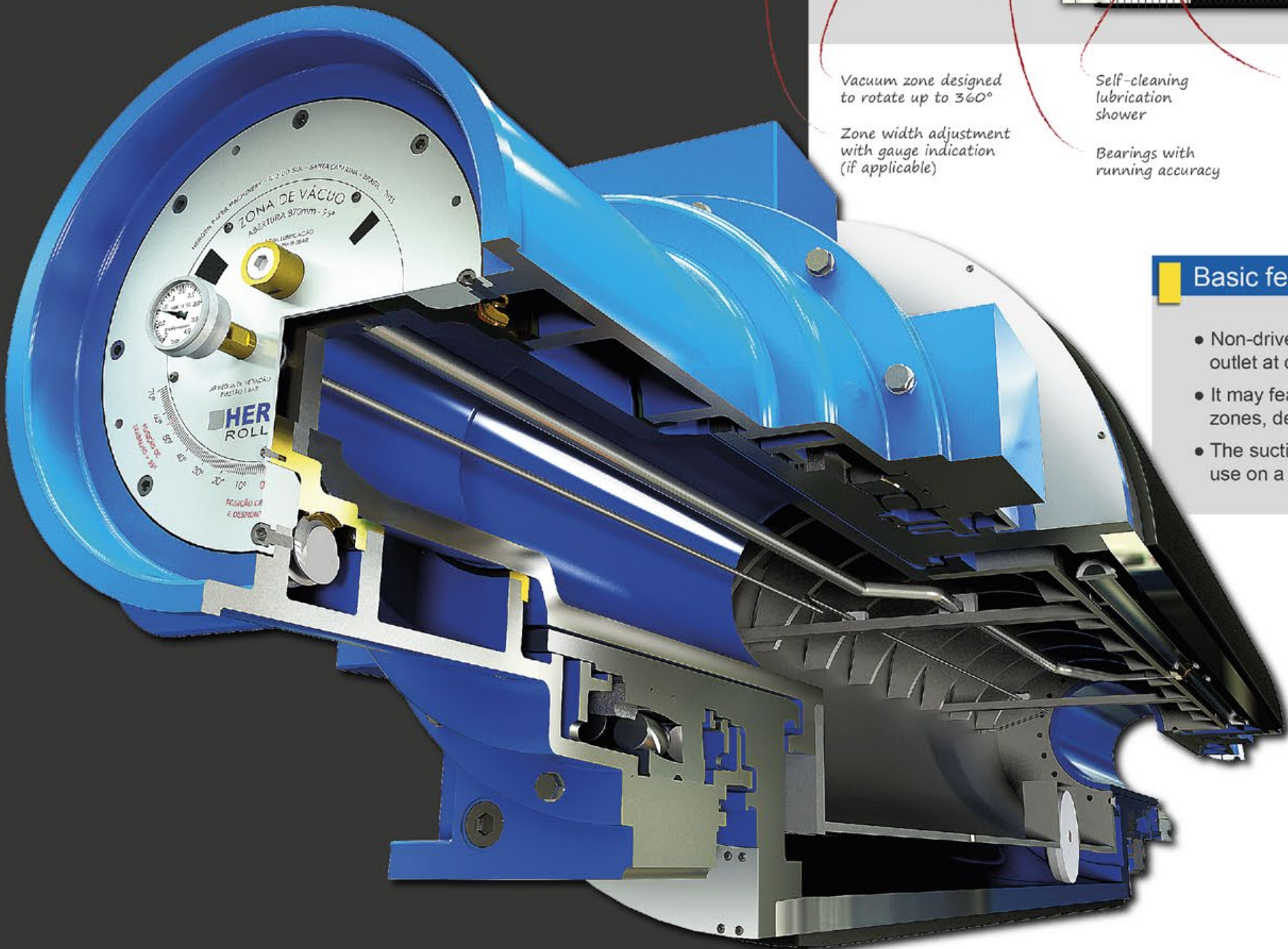
The shell drilling is done using gun-drilling process

Shell built in Duplex Stainless Steel

The vacuum chamber features a roller for easy maintenance

Journals built in nodular Cast Iron

Vibration level and roller bearing temperature monitoring

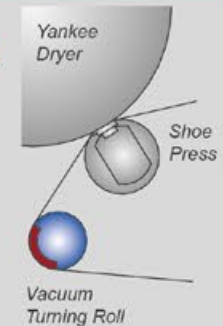
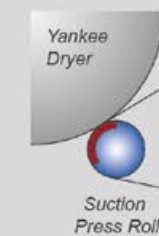


Basic features

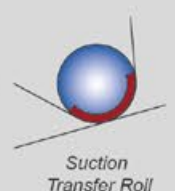
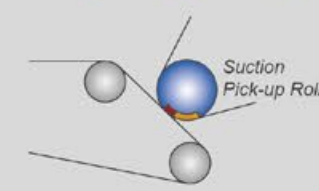
- Non-driven application with vacuum outlet at drive side
- It may feature one or more vacuum zones, depending on its application
- The suction roll design enables its use on a wide range of applications

Applications

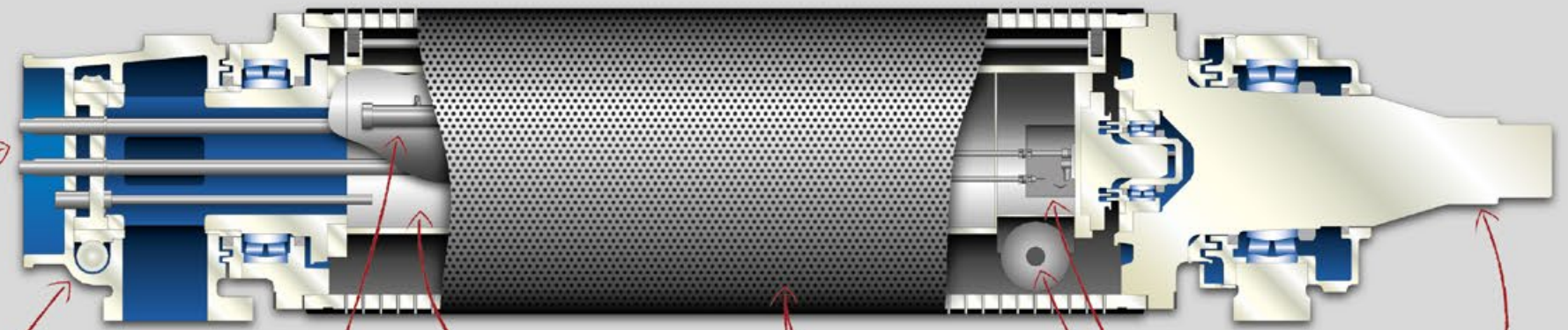
Tissue applications



Packaging, Carton, Writing & Printing and Special grades applications



SUCTION COUCH ROLL



Vacuum zone designed to rotate up to 360°

Zone width adjustment with gauge indication (if applicable)

Self-cleaning lubrication shower

Stainless Steel vacuum chamber

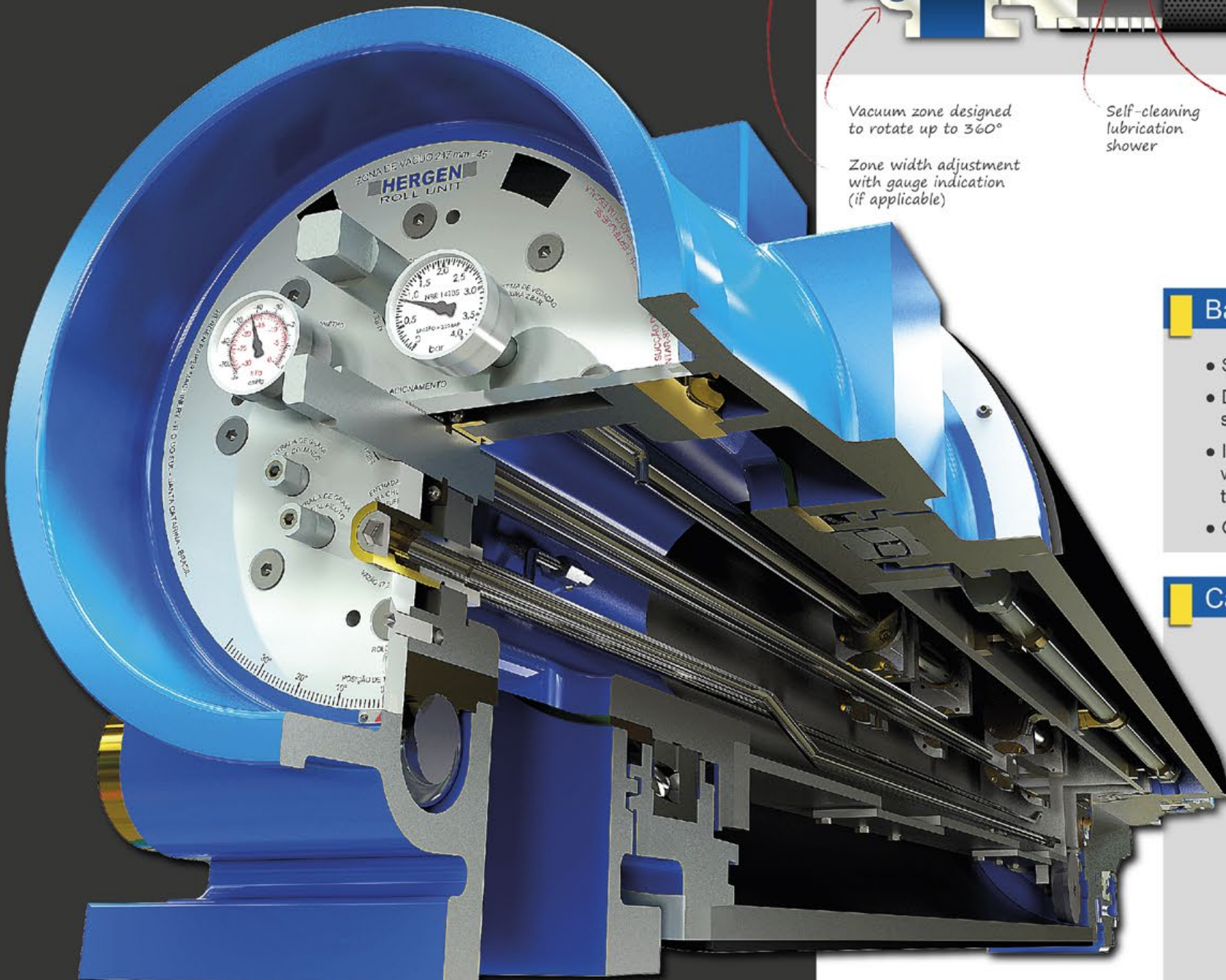
The shell drilling is done using gun-drilling process

Shell built in Duplex Stainless Steel

The vacuum chamber features a roller for easy maintenance

Journals built in nodular Cast Iron

Vibration level and roller bearing temperature monitoring

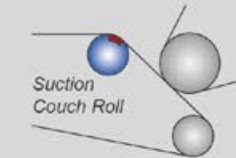


Basic features

- Specific design for Suction Couch Rolls
- Driven, with vacuum outlet at tending side
- It features a simple yet efficient design with shell running over outer ring of tending side roller bearing
- Grease lubrication

Application

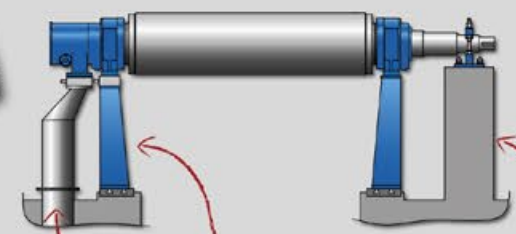
Packaging, Carton, Writing & Printing and Special grades applications



Cantilever system

OPTION 1

Conventional system



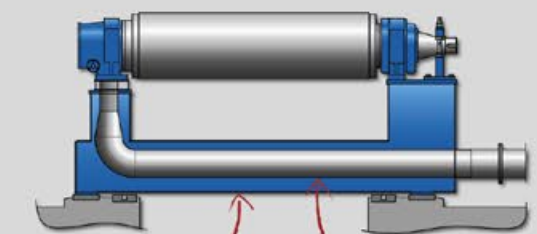
Vacuum piping

Metallic columns (included in our scope of supply)

Civil works

OPTION 2

New concept – designed to replace existing suction Couch Rolls



Steel support beam (included in our scope of supply)

Vacuum piping integrated to support beam

SUCTION ROLL SHELL

Built in Duplex Stainless Steel

What is Duplex Stainless Steel?

It is a steel grade with high chromium and nitrogen content, and often also molybdenum. Due to this combination it features good resistance to localized and uniform corrosion.

The duplex microstructure contributes to a high resistance to cracking that can be caused by corrosion under stress. The high yield strength of duplex steels also implies high fatigue resistance.

World class quality

Hergen uses shells provided by Outokumpu, a company located in Avesta, Sweden, that since 1973 has produced more than 2,500 calendered pipes used for Suction Rolls manufacturing.

Among the available alloys, we offer: **3RE60 SRG**, **LDX 2101®** and **2304 SRG**. The characteristics of each one of them are described in the table below. Other materials can be supplied on request.

Material	Yield strength Rp0.2 (Mpa)	Tensile strength Rm (Mpa)	Corrosion fatigue strength (Mpa)	PRE
3RE60 SRG	450	710	200	29
LDX 2101®	460	680	200	26
2304 SRG	450	670	200	25

Data provided by Outokumpu

What is PRE?

PRE - Pitting Resistance Equivalent - it is the measure of the corrosion resistance of Stainless Steel grades. For a certain Stainless Steel grade the higher the PRE value, the greater the corrosion resistance.



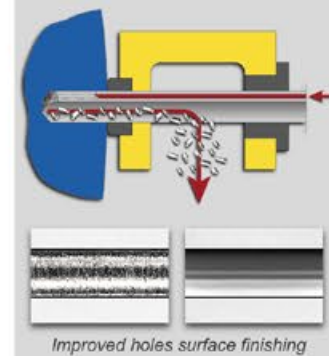
Images licensed by Outokumpu

The gun drilling process

The Suction Roll shells are drilled using the gun drilling process, which results on a higher hole surface finishing when compared to the conventional process.

Benefits:

- decreases the adhesion of paper fibers on the inner surface of the holes
- it reduces the incidence of microcracks, thereby enhancing the fatigue strength

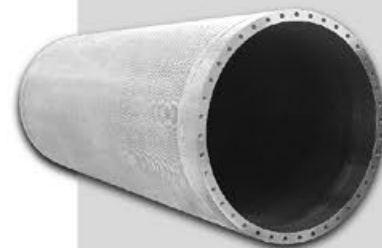


Improved holes surface finishing

Manufacturing capacity

Diameter	Shell length	Shell wall thickness
500 - 2.000 mm	up to 12.000 mm	30 - 105 mm

Working speed: up to 2.200 m/min.



Shell cover options

Rubber or polyurethane

Rubber

The shell cover may feature:

- through drilling

Suction Couch Roll
Suction Pick-up Roll
Suction Press Roll

The shell cover may feature:

- through drilling
- blind drilling

Suction Press Roll

The shell cover may feature:

- through drilling
- grooves

Suction Press Roll

The shell cover may feature:

- through drilling
- blind drilling
- grooves

Suction Press Roll

The shell cover may feature:

- through drilling
- chamfers

Suction Couch Roll
Transfer Roller

Non-covered Shell:

- through drilling

Suction Couch Roll
Suction Pick-up Roll

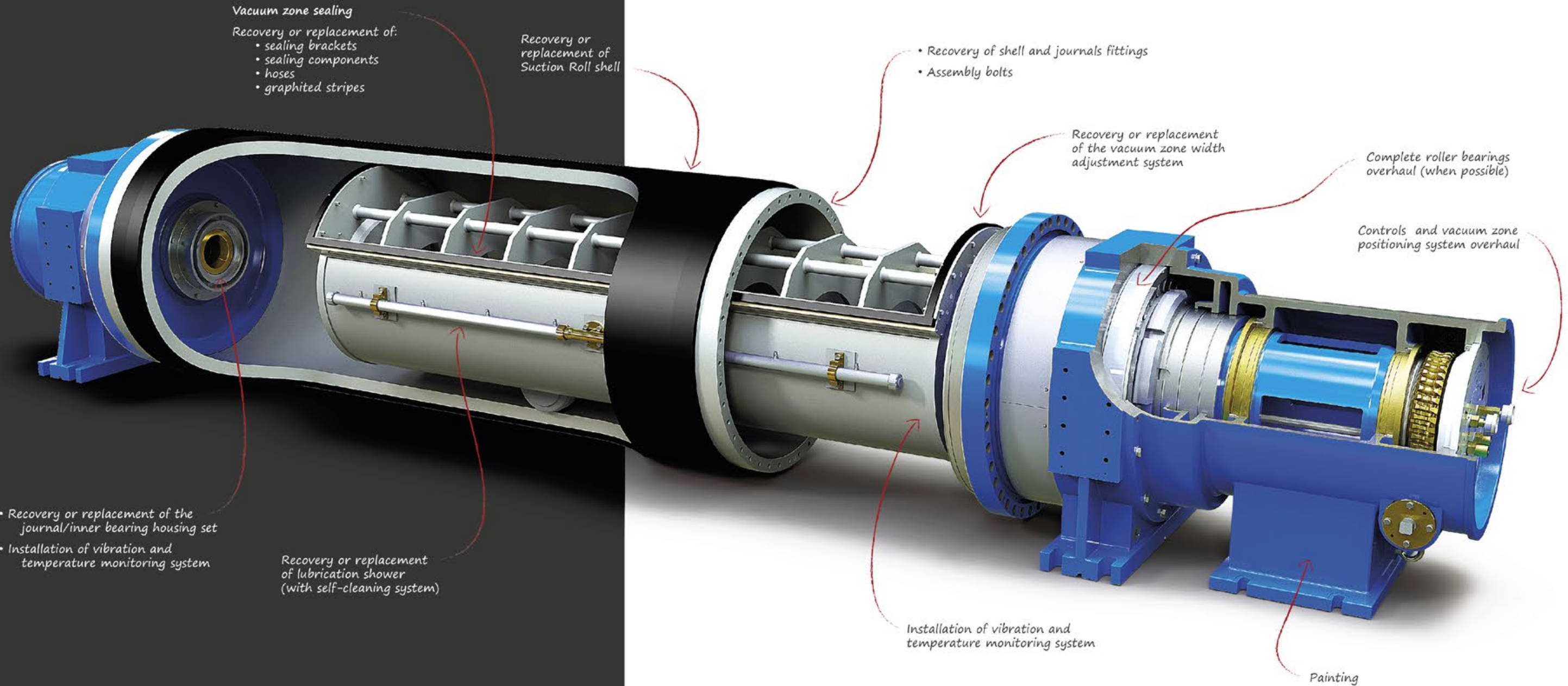
Non-covered Shell:

- through drilling
- chamfers

Suction Couch Roll
Transfer Roller

SERVICES FOR SUCTION ROLLS

Hergen overhauls and modernizes Suction Rolls of any brand and model. On a Suction Roll overhaul we use the following services are performed:



The information on this catalog is subject to change without previous notice.



Other services that can be performed:

- Journal grinding or bandage with Stainless Steel straps
- Overhaul or replacement of cap screws
- Overhaul or replacement of Suction Roll front panel
- Visual and dimensional inspection before and after overhauling
- Non-destructive essays with penetrating liquid, ultrasound and magnetic particle of all components subject to mechanical loads
- Dynamic balancing according to ISO 1940 Class 2.5
- Issuance of a technical report



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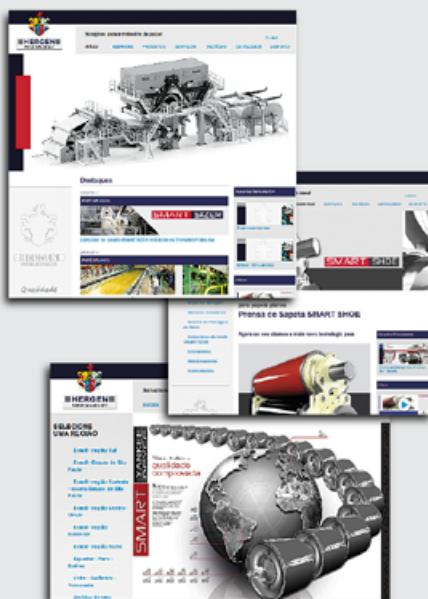
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Porto Alegre - RS	✈ 0h50	Joinville - SC	🚗 230 km	



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