

**SILVIO FOSSA S.p.A.**

LEADING  
MANUFACTURER  
OF HYDRAULIC  
AND PNEUMATIC  
CYLINDERS



# COMPANY PROFILE



Do you ever think  
of always challenging your limit?

**We do it every day.**

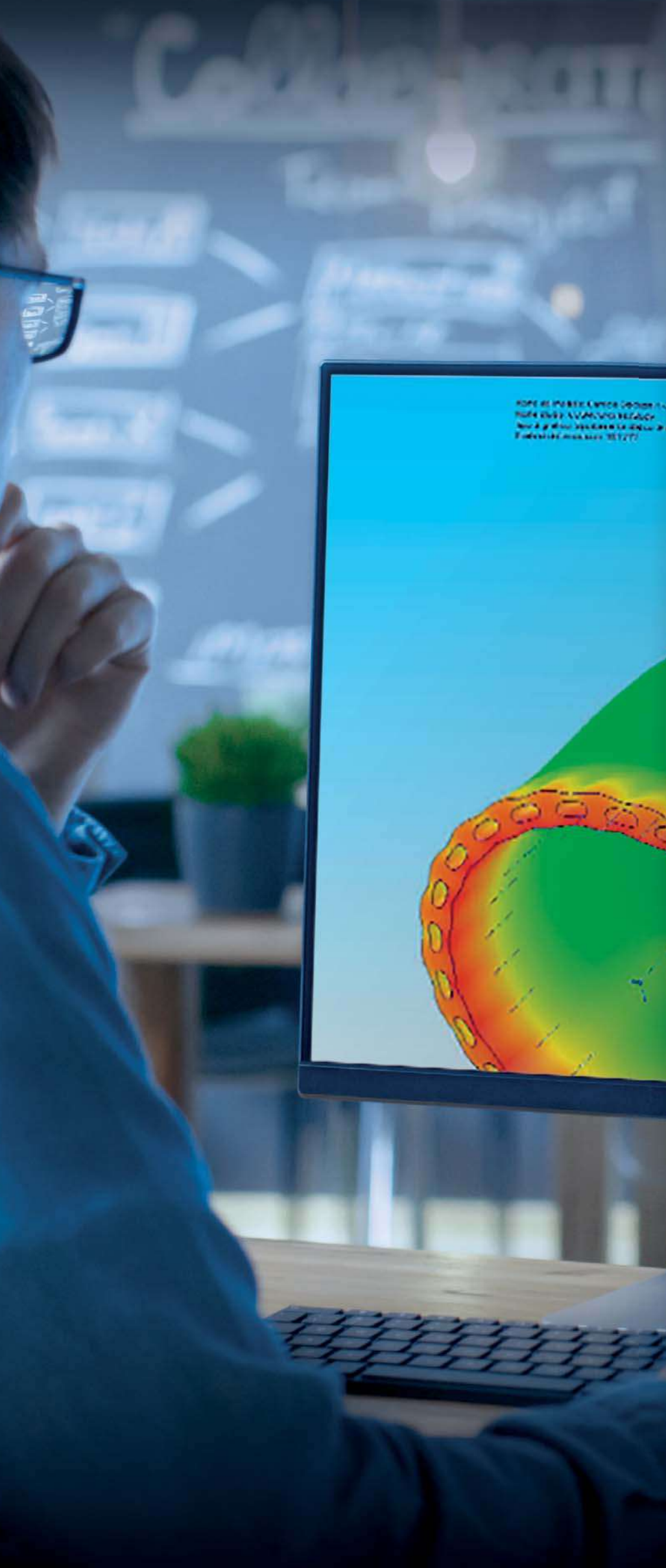


AN ADVANCED  
PARTNER  
**TO CONCEIVE  
NEW  
POSSIBILITIES**









**SILVIO FOSSA S.p.A.**

**DEDICATED  
ENGINEERING  
FOR CYLINDER  
APPLICATION**



The background of the entire page is a high-contrast, industrial photograph. It shows a complex arrangement of machinery, pipes, and structural elements. A prominent feature is a bright, glowing orange-red light source, likely molten metal being processed, which casts a strong, warm glow across the scene. The lighting creates deep shadows and bright highlights, emphasizing the textures of the metal and the complexity of the industrial environment. The overall color palette is dominated by dark greys, blacks, and the intense oranges and reds of the heat.

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## FOSSA GROUP IDENTITY





## © ABOUT US

### We are much more than what we produce.

Our history goes back **over 60 years** when Silvio Fossa opened a small mechanical workshop and began working with some of the Italian industrial leaders at the time such as Innocenti and Breda.

The company continuously grew under his leadership and that of the following generations but always maintained **its focus on research for quality** and a **strong bond with the local area** where most of its suppliers and partners continue to be from.

Over the last 20 years, Giorgio Fossa kept these core objectives his grandfather set but together with his sons Nicolò and Tommaso developed the company to become a **key partner** of the world's iron and steel industry leaders such as Danieli or SMS Group and it has now expanded into other sectors collaborating today with the **main OEM and End-User** (EPS) in Europe and around the world.

The company has maintained for more than 25 years the ISO 9001 quality certification and for 15 years the ISO 14001 environmental certification.

Torque cylinder →

## © STRATEGY AND CORE STRENGTHS

During its entire history, Silvio Fossa SpA has distinguished itself for its ability in combining experience, and innovation and adapting its skills to the clients' needs.

Our strategy is based on **developing long-term partnerships**, offering maximum quality and reliability levels, as well as a technical and production flexibility that only a company highly focused in **providing specialized and customised solutions** is able to offer.

The production is allocated in three large areas in Northern Italy where we work with extreme-precision mechanical components with **dimensions up to 2'500 mm diameter and 20'000 mm length**.

We are able to assemble cylinders and components that weigh up to **100 Tons** and our four testing units allow to perform static and dynamic tests up to **1.500 bar pressure**, simulating the final application through modular testing structures.

The **engineering** of our products is entirely developed in-house by our technical team using state of the art design standards such as solid design, parametric configuration, **FEM and fatigue analysis**.









## © INNOVATION, RESEARCH & DEVELOPMENT

The company has always maintained the objective to continuously research technologically dynamic and advanced solutions and it is our philosophy to constantly challenge our limits which makes it natural for us to always meet new requirements that the market demands from us and our clients.

To support this effort, we have created an **inner design team completely devoted to R&D**, as well as a **network of important partnerships and collaborations** such as with Politecnico University of Milan and with different partners that are leaders in design and production of complementary products.

The synergy resulting from this consolidated network allows us to provide high engineering levels and to constantly update the technical characteristics of our product. This is the core of our philosophy and the source for competitive ideas for quality, performance and efficiency level.







**OUR  
PRODUCTS**



## © SECTORS & MARKETS

Over time the company, drawing from its vast experience, always took on challenges expanding into new sectors and markets producing hydraulic and pneumatic cylinders for various Italian and International companies.

As a result, **there is a Fossa cylinder suitable for any industry:** metals, steel, test machines, petrochemical, naval/off shore, energetic, cement and drilling industry.

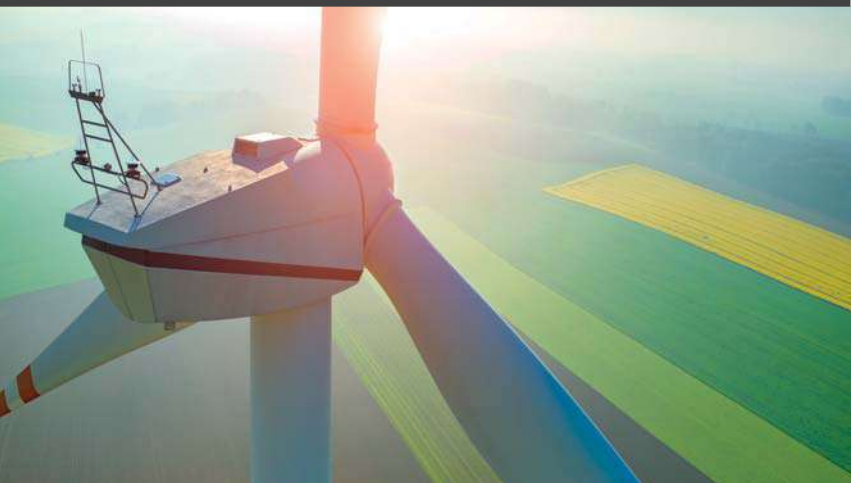
### PRESSES



### NAVAL and OFF-SHORE



### SPECIAL APPLICATION



### METALLURGY



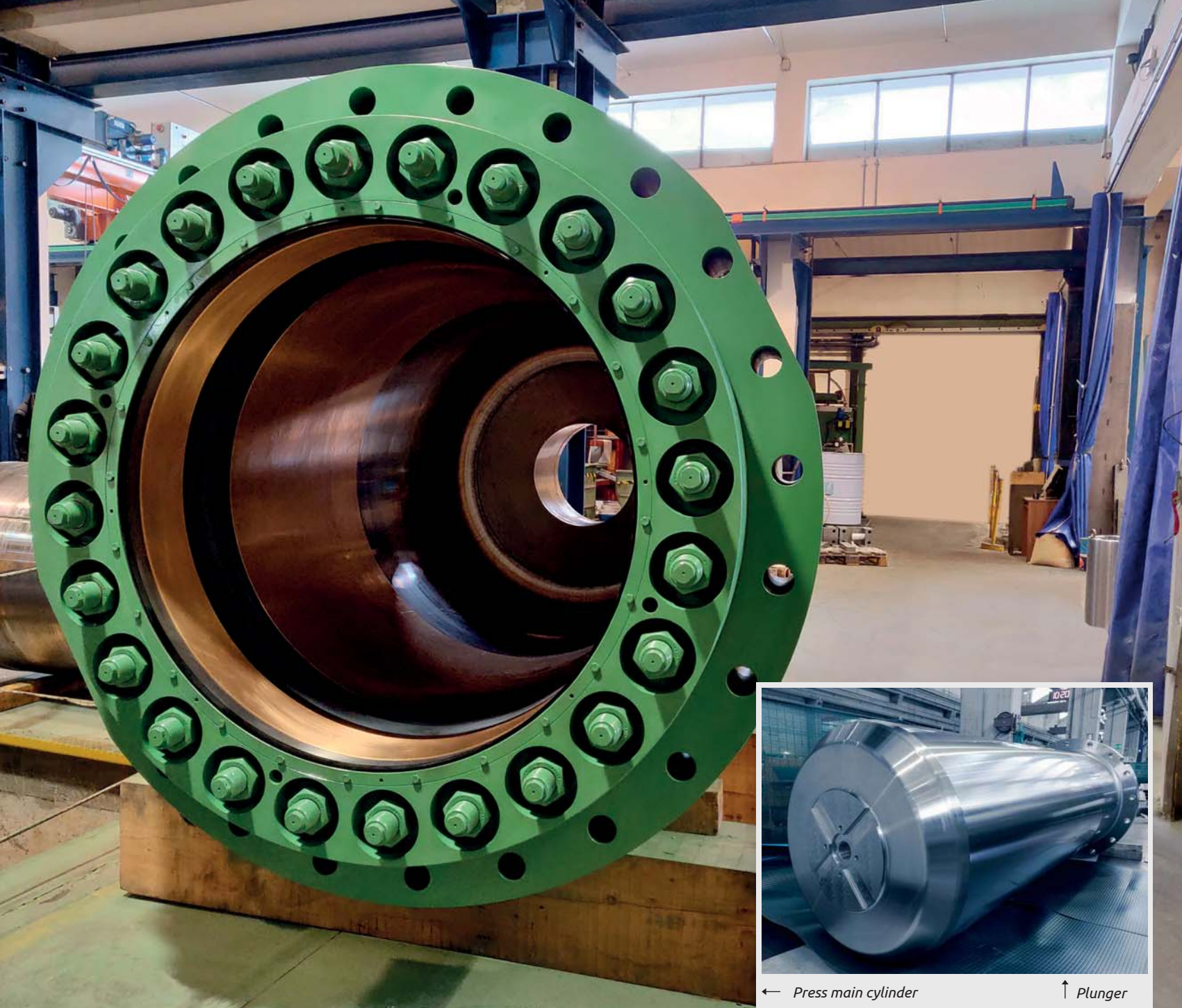
### OIL & GAS and PETROCHEMICAL



### ENERGY and CIVIL ENGINEERING







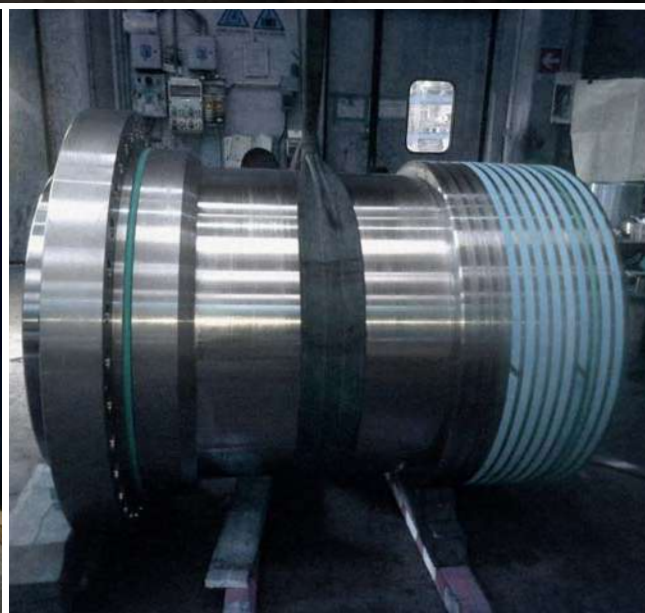
## CUSTOMISED PRODUCTS

### SINGLE ACTING AND PLUNGER CYLINDERS





# DOUBLE ACTING CYLINDERS



↑  
RRM cylinders  
(complete set)

← 900 mm bore  
cylinders

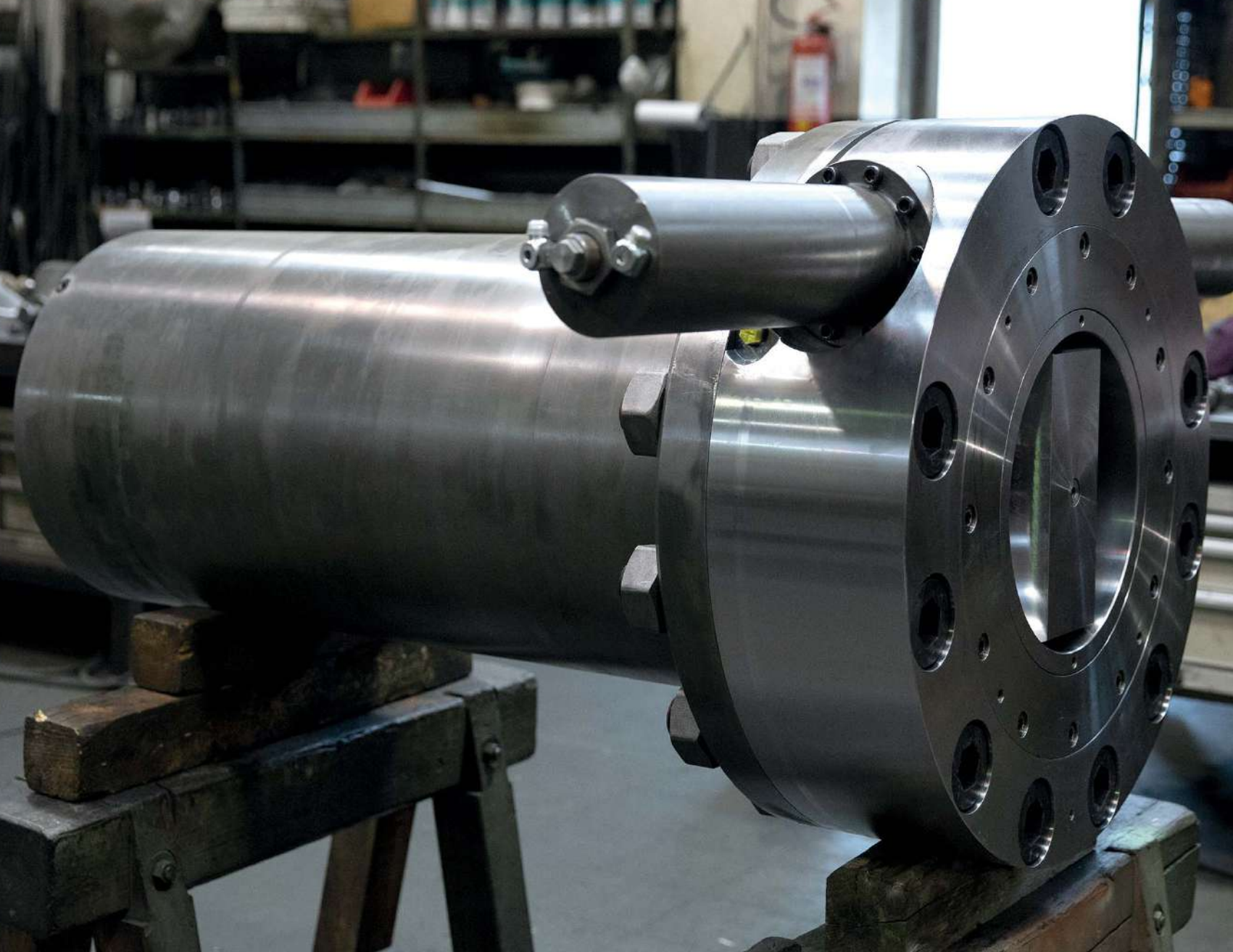
← Piston rod  
complete with  
guide bands



← High temperature  
application

← External position  
measurement  
device





## TELESCOPIC CYLINDERS

*Offshore cylinder*



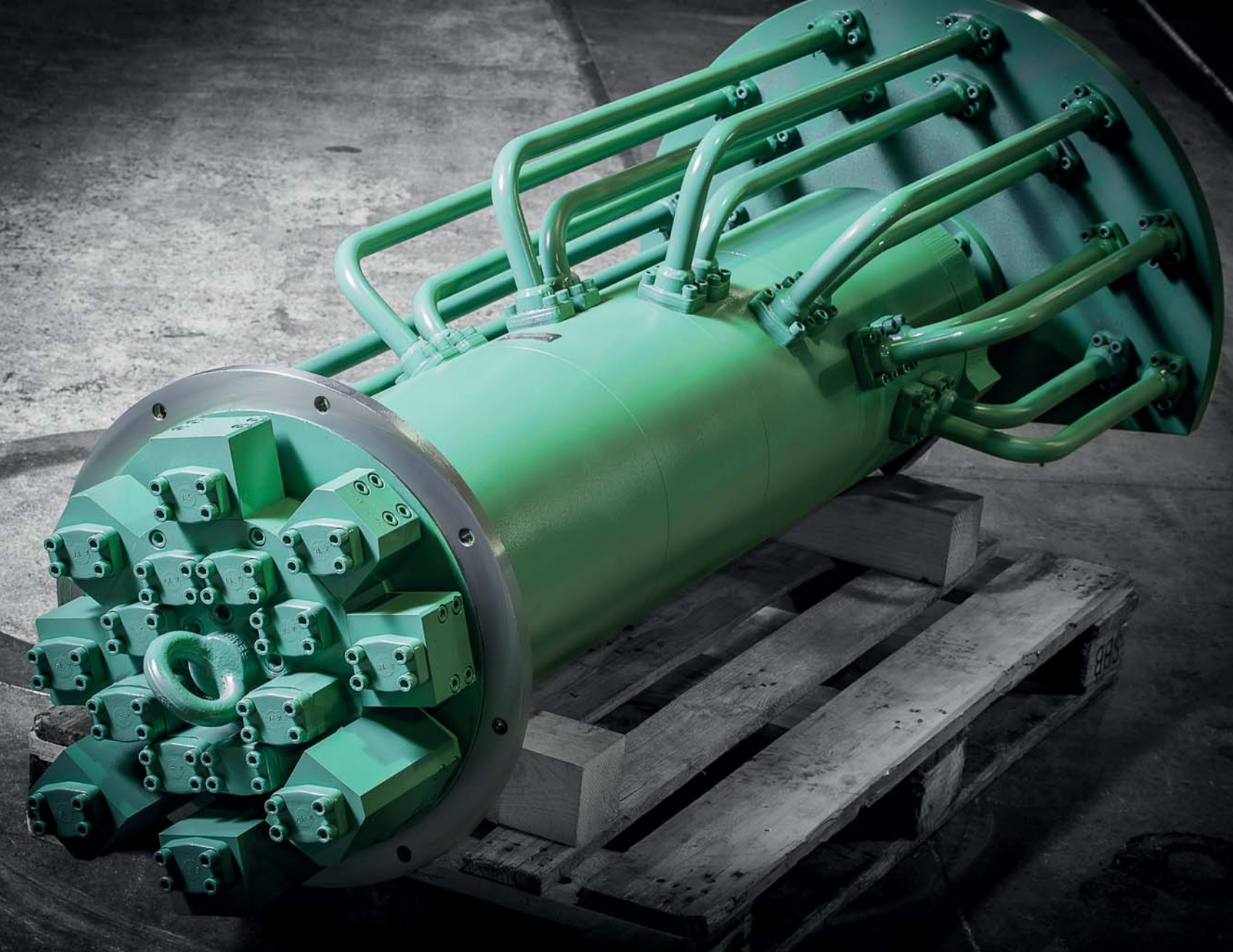
*Clamping device with actuator*



*Mobile drilling application*







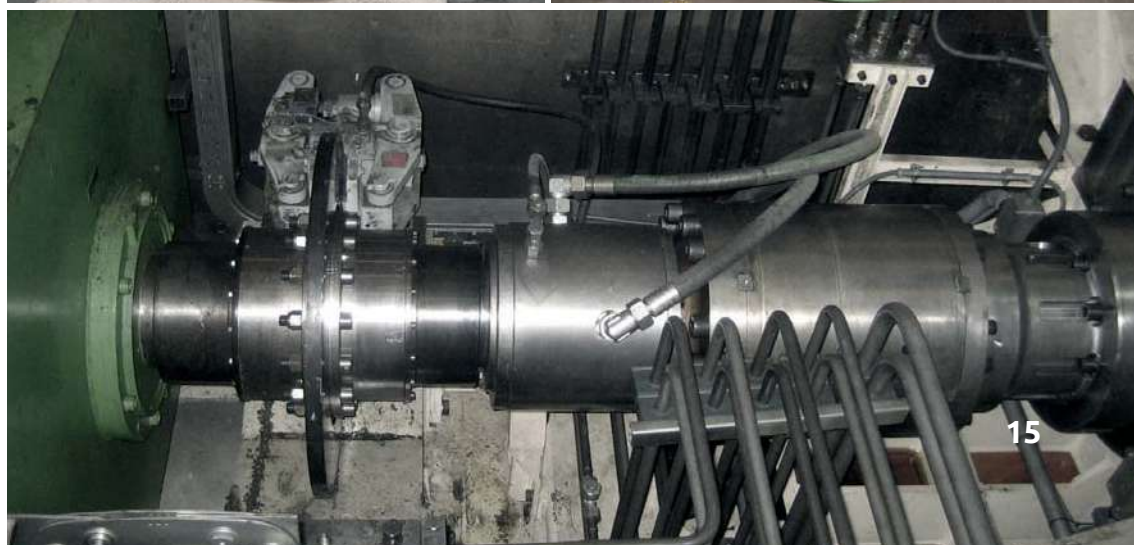
↑  
*Different medium rotating distributor*

→  
*Tungsten coated shaft*

→  
*Multi ways joint*

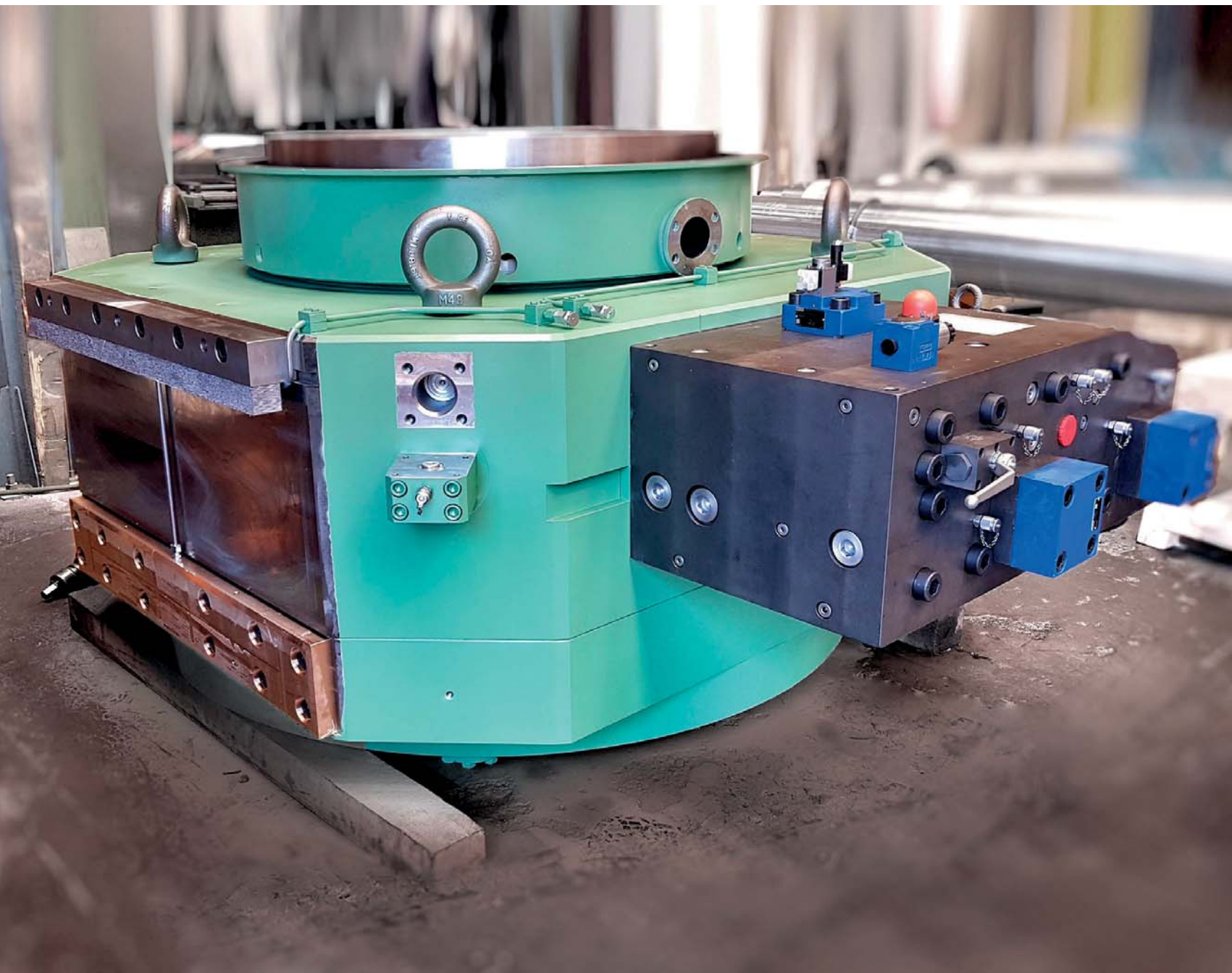
## ROTATING JOINTS AND CYLINDERS

→  
*Mandrel rotating system*





# ⦿ HAGC (Hydraulic Automatic Gauge Control) & AWC (Automatic Width Control)

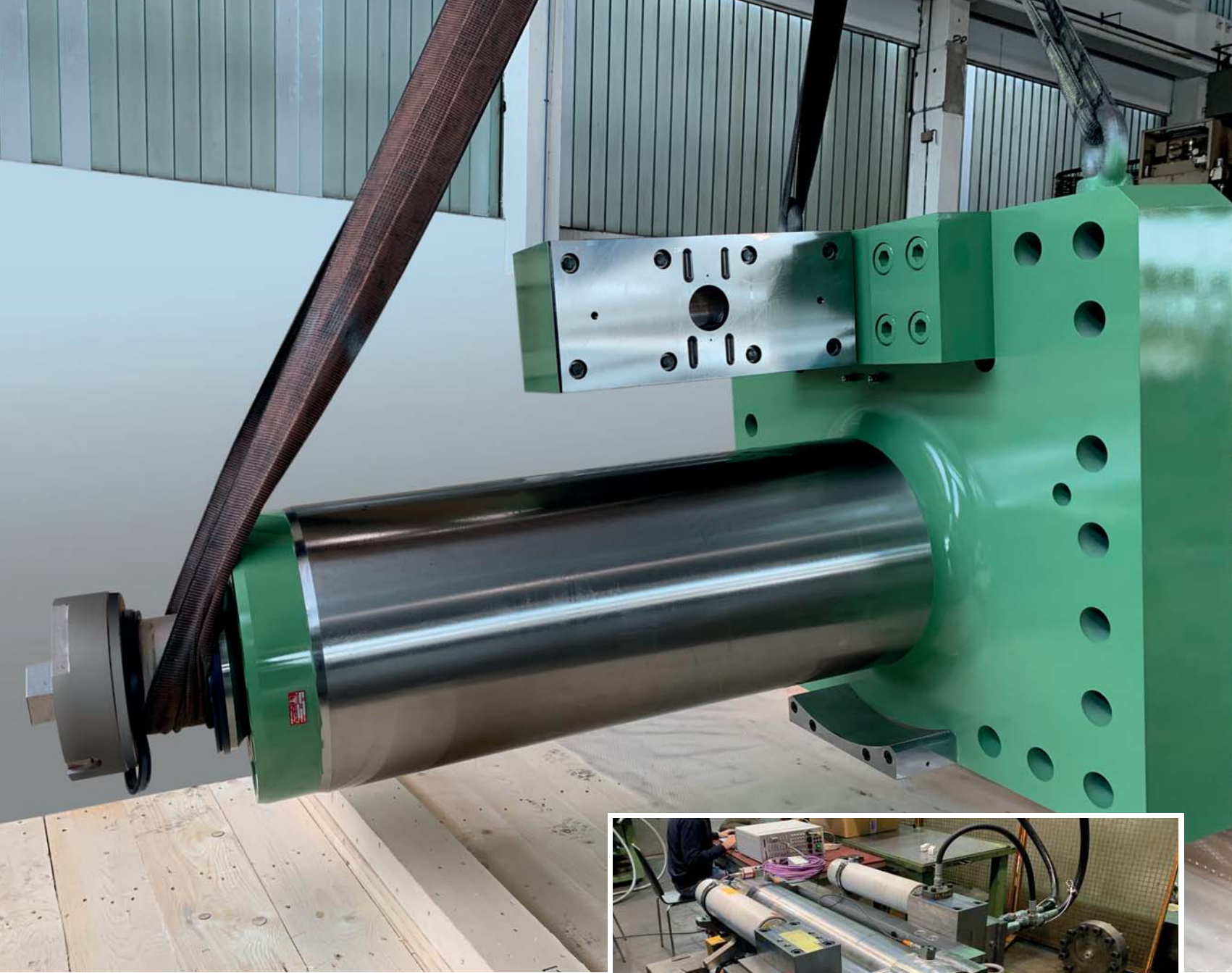


↑  
Cold rolling mill  
1.350 mm bore with hydraulic drive unit

↑  
Hot rolling mill

↑  
Plate mill





↑  
*Fixed block*

*High frequency servo cylinder for testing bench*  
→

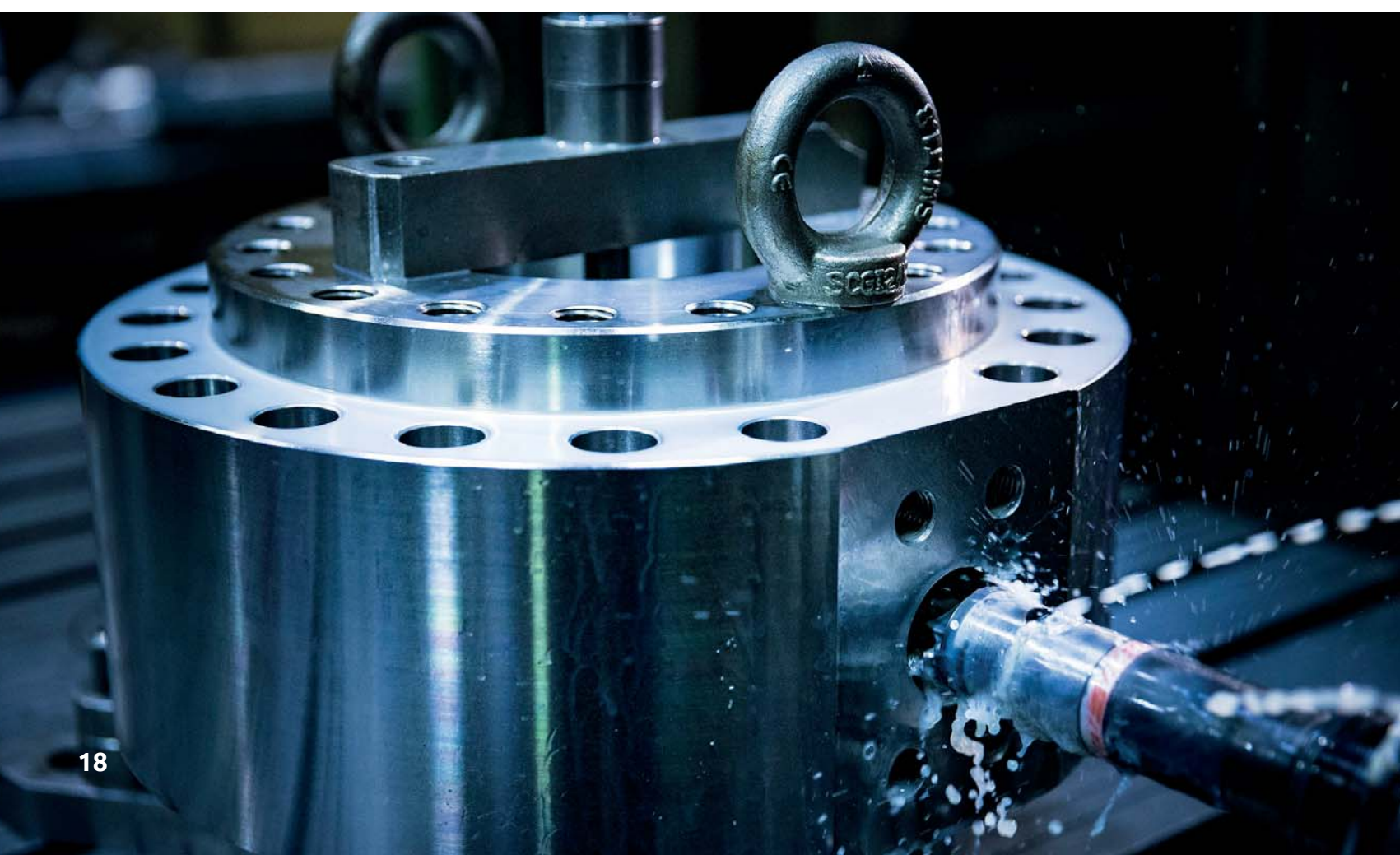
# **SPECIAL APPLICATIONS**

*High pressure hydraulic feeding pannel*  
→



# STANDARD PRODUCTS

CAT. 70-6	AIR CYLINDERS SERIES MILL	CILINDRI PNEUMATICI SERIE MILL
CAT. 70-7/70-8	HYDRAULIC CYLINDERS SERIES MILL	CILINDRI IDRAULICI SERIE MILL
CAT. 70-11	HYDRAULIC ROTATING CYLINDERS	CILINDRI IDRAULICI ROTANTI
CAT. 71-12	HYDRAULIC PLUNGE CYLINDERS	CILINDRI IDRAULICI TUFFANTI
CAT. 71-13	AIR CYLINDERS SERIES HEAVY DUTY	CILINDRI PNEUMATICI SERIE PESANTE
CAT. 71-14	HYDRAULIC CYLINDERS SERIES HEAVY DUTY	CILINDRI IDRAULICI SERIE PESANTE
CAT. 75-15	HYDRAULIC CYLINDERS SERIES LIGHT DUTY 70 ATM	CILINDRI IDRAULICI SERIE LEGGERA 70 ATM
CAT. 84-16/84-17	HYDRAULIC CYLINDERS SERIES DIN	CILINDRI IDRAULICI SERIE DIN
CAT. 84-18	HYDRAULIC CYLINDERS SERIES ISO 6020/2	CILINDRI IDRAULICI SERIE ISO 6020/2
CAT. 88-19	HYDRAULIC CYLINDERS SERIES LIGHT DUTY 210 ATM	CILINDRI IDRAULICI SERIE LEGGERA 210 ATM
CAT. 06-20	HYDRAULIC CYLINDER SERIES ISO 6022	CILINDRI IDRAULICI SERIE ISO 6022
CAT. 09-21	HYDRAULIC CYLINDER SERIES ISO 6020/1	CILINDRI IDRAULICI SERIE ISO 6020/1





# © REVAMPING & ON-SITE SERVICE

Silvio Fossa S.p.A. offers a complete revamping service for all kinds of cylinders, both those produced by us as well as other manufacturers.

We are able to significantly **increase our cylinders' life** thanks to our production capabilities, modern superficial treatments technologies, as well as innovative materials and sealing solutions.

It was a conscious decision to maintain our production in Northern Italy in order to be able to **carefully control the entire end to end production process** and as such guarantee our clients the **highest qualitative standards**.

In addition, we have created a **service team completely dedicated to our clients** providing on-site assistance both during commissioning and maintenance phase who is also able to cooperate with local partners to serve our clients best.

*Before revamping*



→  
*After complete  
revamping activity*







**OUR FUTURE  
PROJECTS**

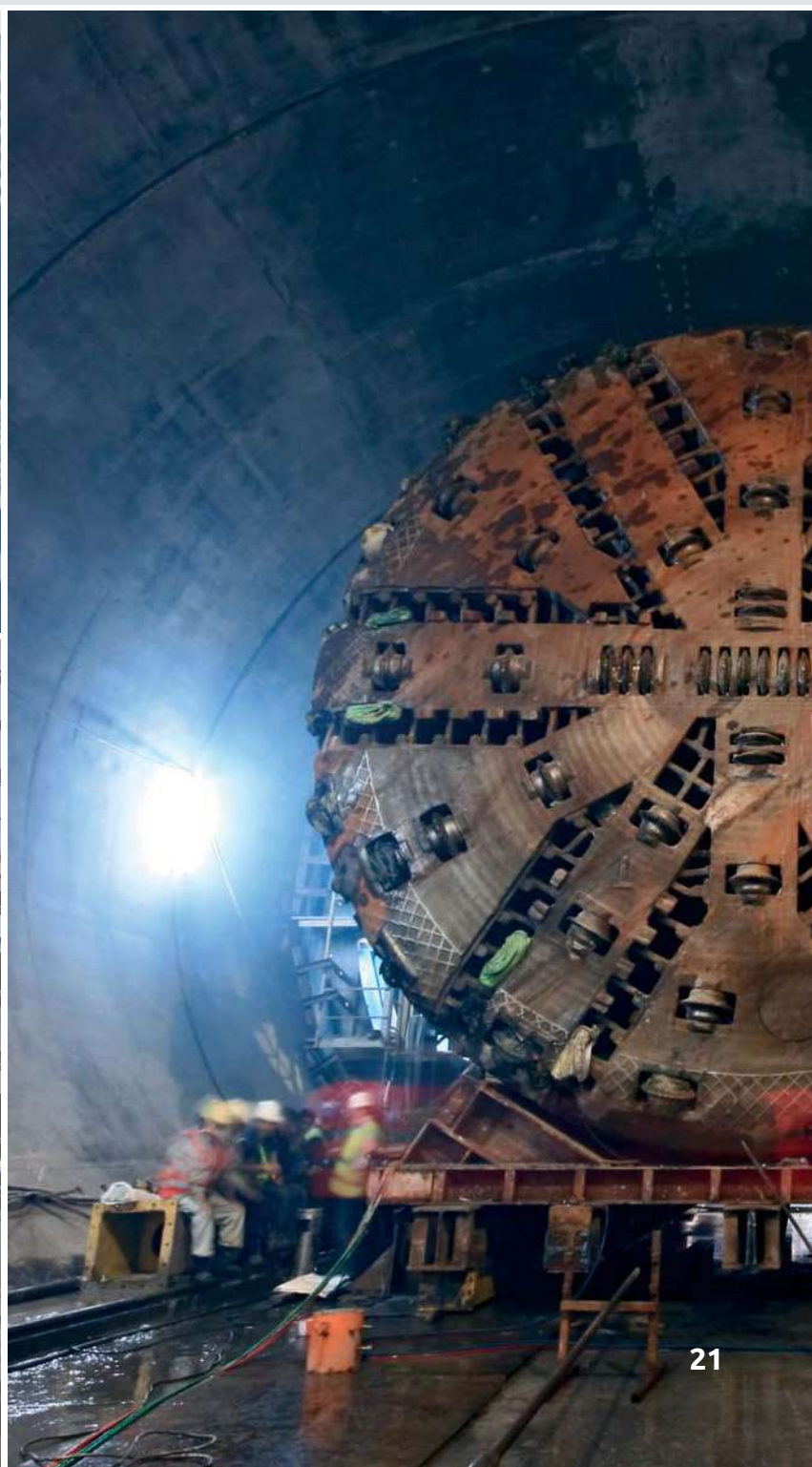
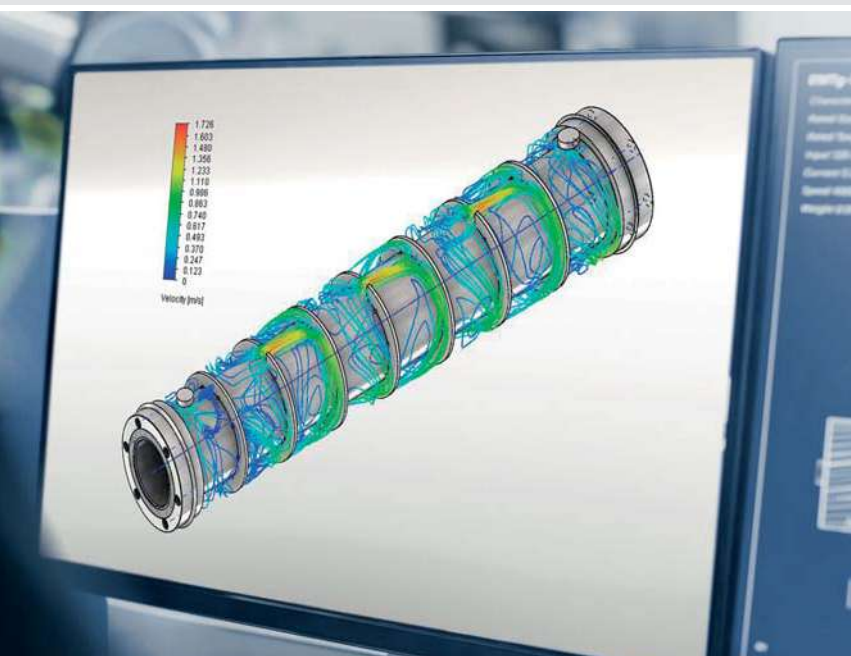


# NEW PERSPECTIVES

**Our mission is to meet any new challenge that the market sets for our clients.**

Silvio Fossa keeps reinventing itself by engaging in new projects, developing different technologies and extending its suite of solutions.

It is our goal to always remain competitive and significant for our clients delivering state of the art solutions and helping them in strengthening their position as leader in their respective market and sector.







INNOVATIVE SOLUTIONS  
FOR DIFFERENT MARKETS & NEEDS  
AROUND THE WORLD



## Contacts

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Use the QR code to get our  
position on google maps:











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