

# PORTFOLIO FOR TIRE PRODUCERS





# SCREWS AND BARRELS

Datria specializes in providing high-quality screws and barrels for rubber extruders used in tire manufacturing. We supply compatible components for machine brands like Berstorff, Troester, Konštrukta, ensuring optimal performance and durability.

*Ø45 mm, Ø90 mm, Ø120 mm, Ø150 mm, Ø200 mm, Ø250 mm and others*







# MATERIALS

## Nitrided Screws & Barrels

**Nitriding hardness:** HV  $\geq 950$   
**Depth:** 0.5–0.6 mm  
**Surface finish Ra:** Ra 0.4  $\mu\text{m}$   
**Straightness:** 0.015 mm

## Bimetal Screws & Barrels

**Thickness of barrel bimetallic layer:** 1.5–2.0 mm  
**Hardness of bimetallic layer:** HRC 58–64  
**Types of PTA welding:** Deloro 60, Colmonoy 56, Colmonoy 83, Stellite 12, Stellite 20 and others

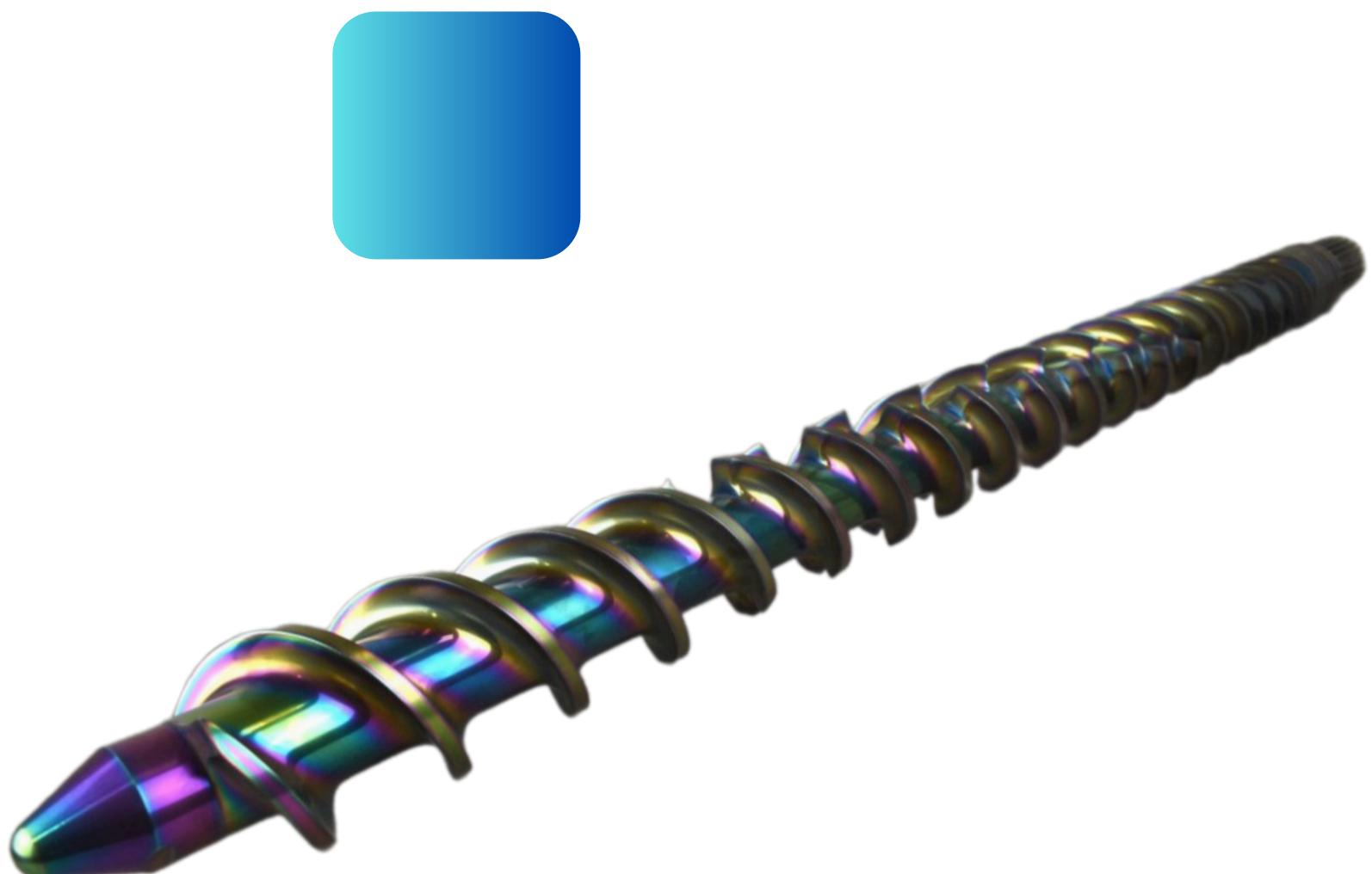
# PVD COATING

Screws with PVD surface treatment stand out especially for their high surface hardness, increased chemical resistance and reduced material adhesion. Thanks to increased life of the screws (tools) = reduced costs for new parts and downtime due to replacement. Main advantage is **higher extrusion output by up to 15–20 %.**

Coating composition: CrN+OX

Hardness: 2500 Hv

Coating thickness: 4–10 µm

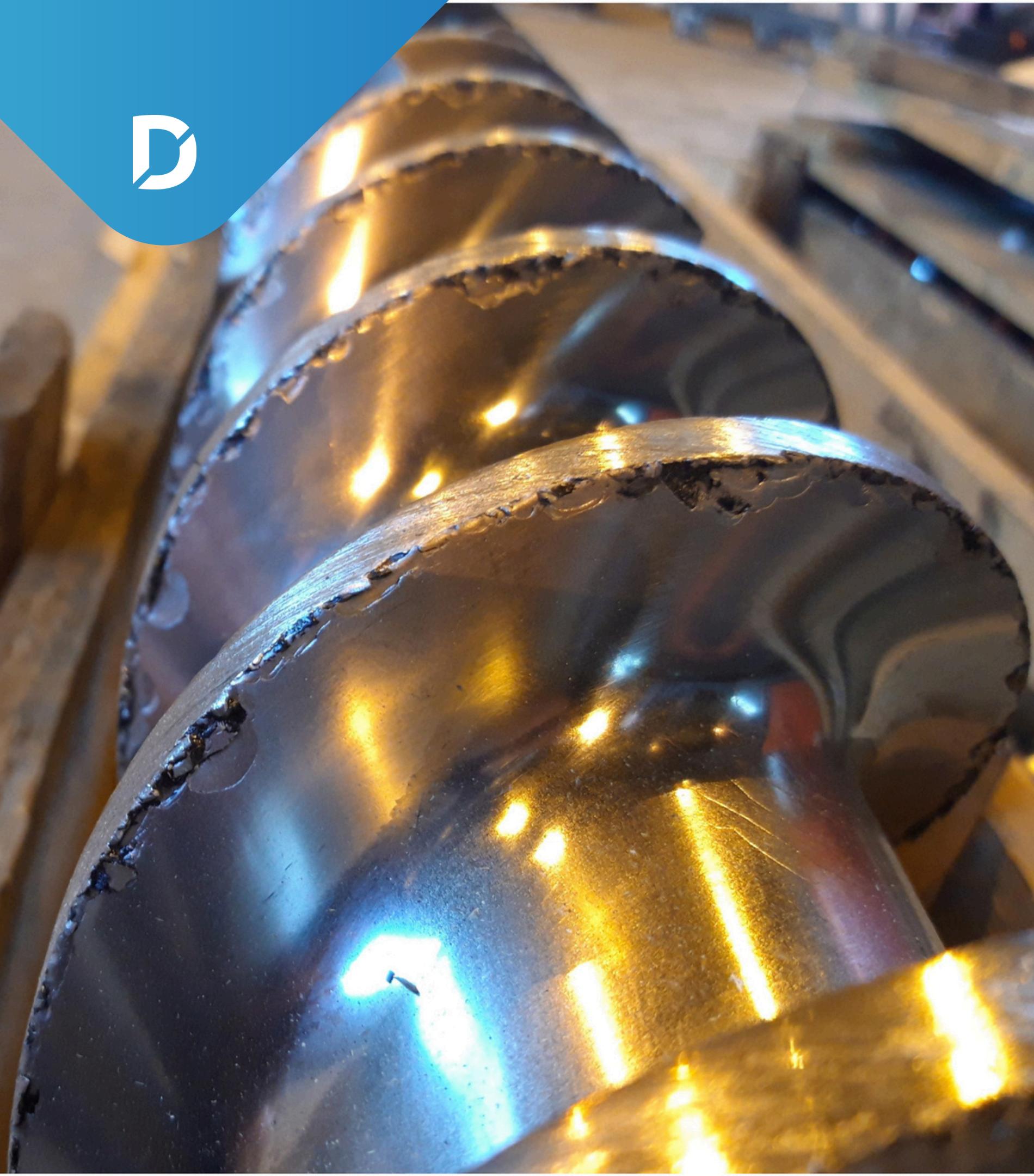




# RENOVATION OF SCREWS

Datria also offers professional screw refurbishment services to extend the lifespan of your equipment and optimize performance. Our renovation process includes precision machining and applying advanced coatings to restore screws to their original specifications or better. This cost-effective solution minimizes downtime, reduces the need for new investments, and ensures consistent production quality.







# REPAIR OF BARREL PARTS

Our services also cover barrel and feeding section refurbishments. We are able to remove the old insert, press in a new one, change sealings, clean the entire part, and repaint it in the required color to ensure a like-new result.

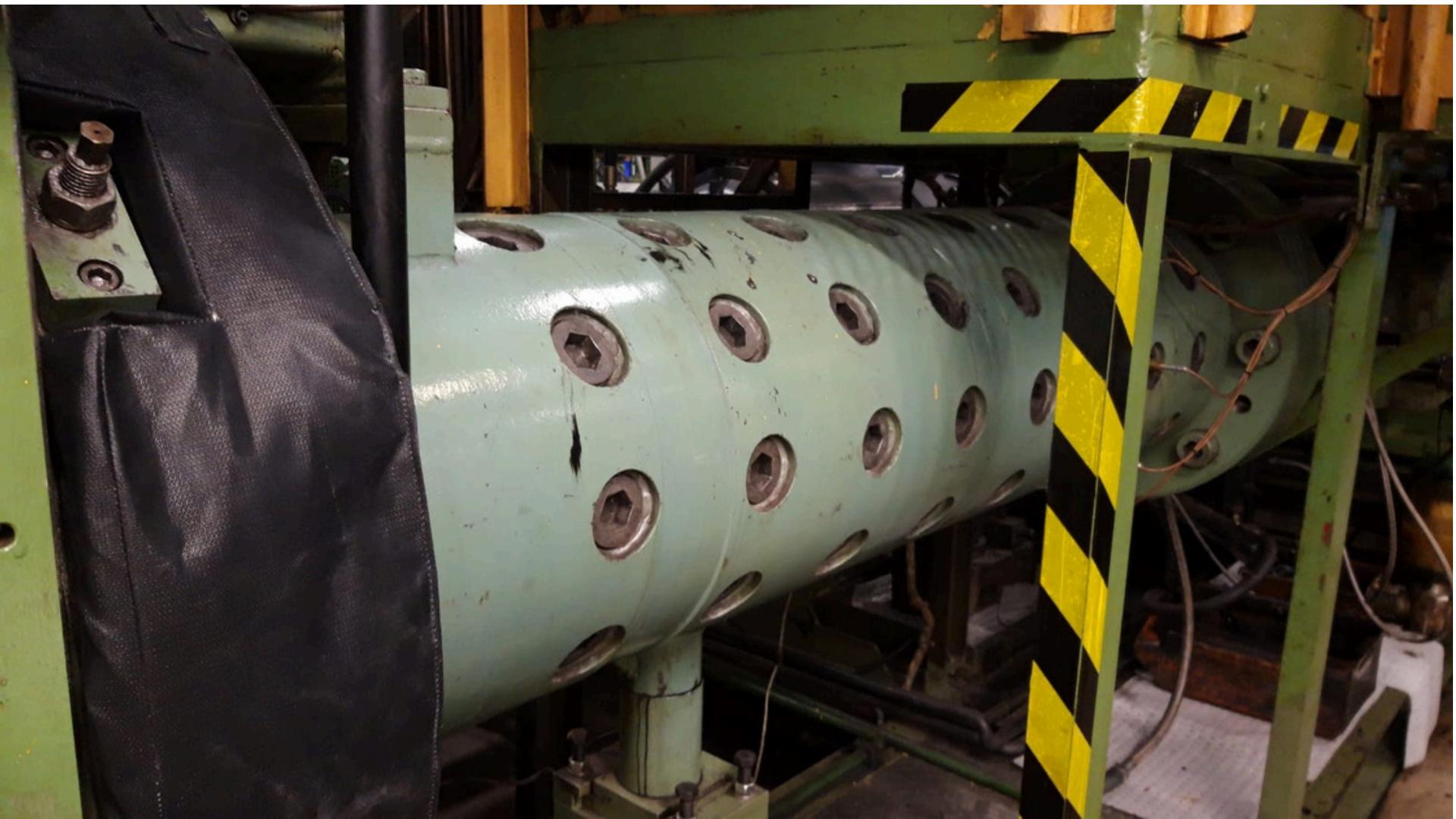


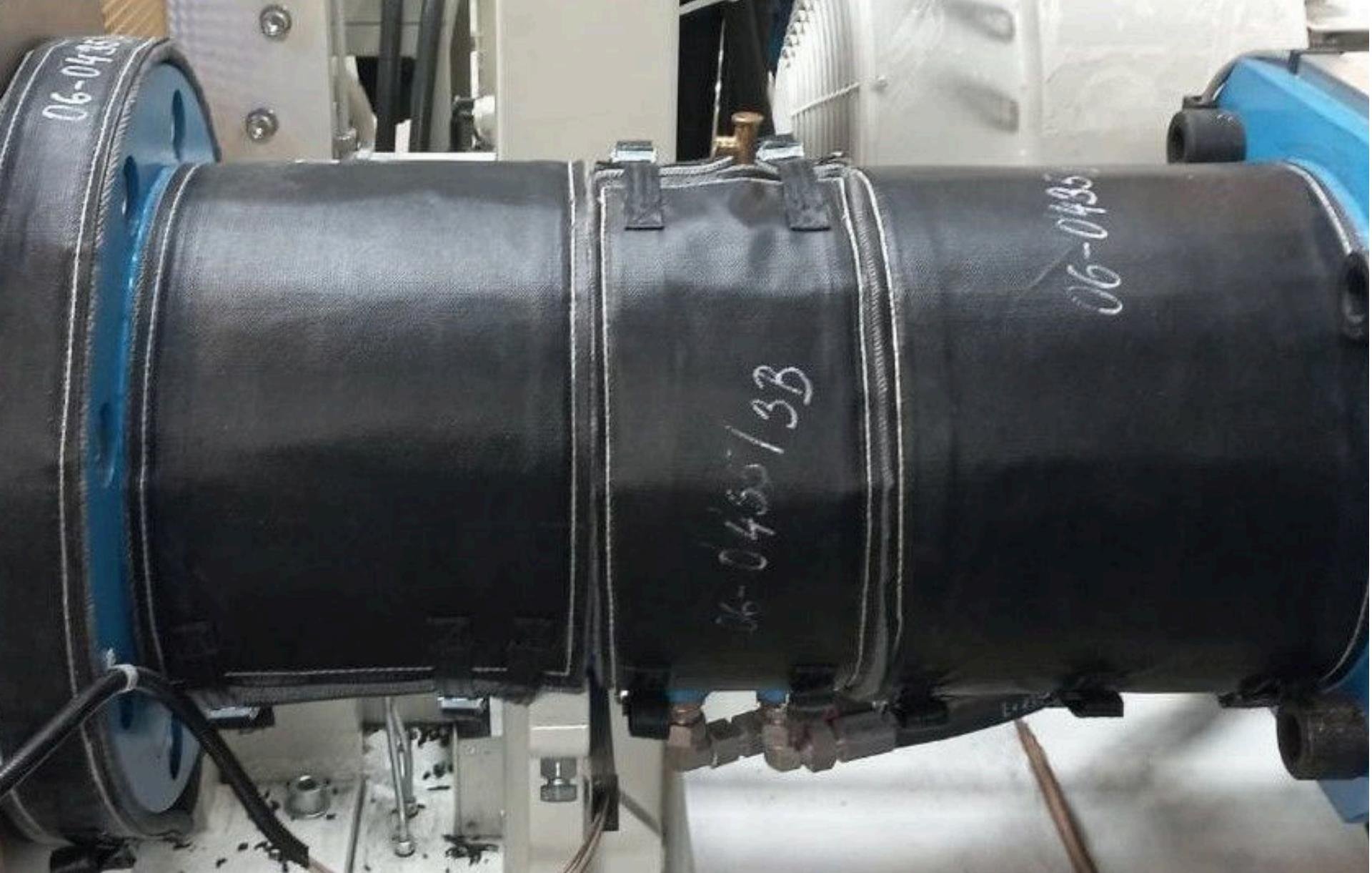


# THERMAL INSULATION COVERS

Datria produces thermal insulation covers designed to improve energy efficiency and safety in rubber extruder operations. These covers minimize heat loss, **reduce energy consumption**, and help maintain stable process temperatures. They are easy to install, durable, and custom-made to fit your equipment perfectly. By using thermal insulation covers, you can lower operational costs, enhance workplace safety, and contribute to a more sustainable production process.









# CONTACT US

for more information, technical support or quote

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