

Mechanical Descaling by Waterjet



The High-Pressure Waterjet is completing the Lämnea Bruk mechanical descaling portfolio.

Key Features:

- ✓ The water jet is a high-quality and compact descaling system without the use of any chemicals
- ✓ Only water is used in the cleaning process
- ✓ Small environmental footprint
- ✓ No wearing while cleaning the wire for very consistent high-quality results

Explore customized machine solutions and contact our expert sales team!



Scan here for details!

Cleaning and Lubricant Coating Machine



The Cleaning and Lubricant Coating Machine effectively removes residual scales for optimal wire drawing results.

Effective three-step process:

1. Hot water jet to remove loose particles
2. Wet coating application of lubricant carrier
3. Drying

Key Features:

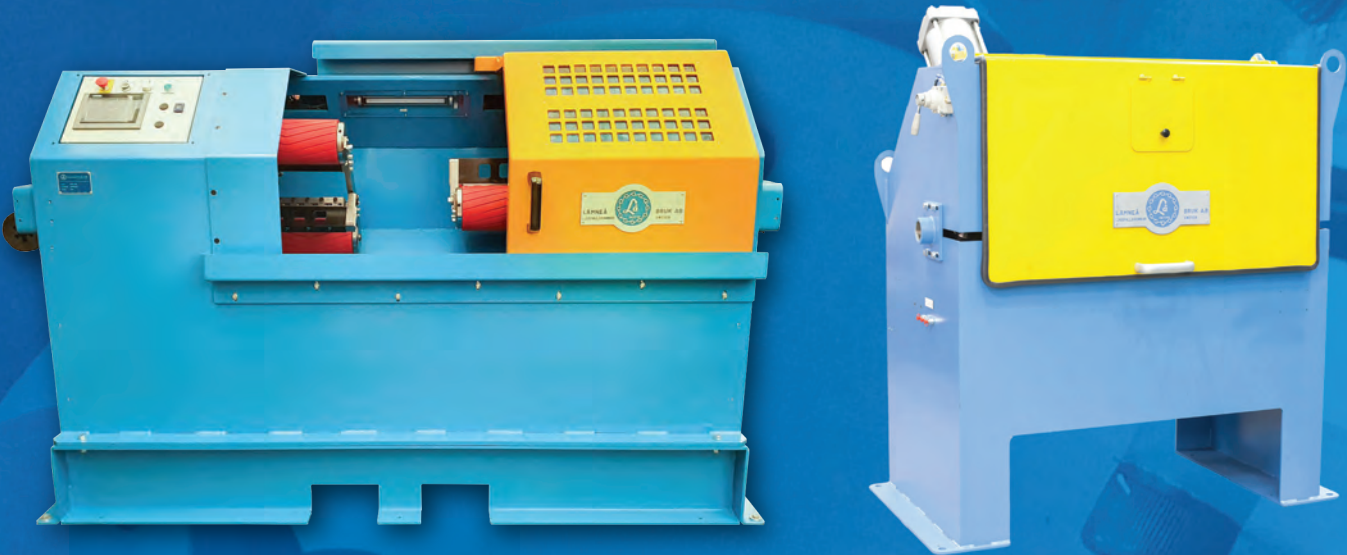
- ✓ In-line lubricant carrier coating unit enhances lubrication for optimal dry wire drawing
- ✓ Continuous oxide removal with paper belt filter for consistent quality
- ✓ Reliable lubricant circulation with the maintenance-free Archimedes screw pump
- ✓ Consistent temperatures from durable electrical heaters ensure optimal performance
- ✓ High-pressure hot water cleans the wire surface effectively
- ✓ Seamlessly handles modern and common lubricant carriers

TECHNICAL DATA:

Wire type:	Carbon Steel + Stainless
Power:	24 kW
Wire diameter:	5,5 – 12 mm
Speed:	2-4m/s

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Rod Preparation Solutions

Effective wire cleaning for high-quality outputs



 Made in Sweden

Lämneå Bruk has been a full supplier of customized, **high-quality** machine solutions for the ferrous wire industry for over **200 years**. All parts and components are designed, developed, and manufactured in-house, reflecting our consistent commitment to transparency and quality at every stage of the process.

 Visit our website www.lamnea.com for more information

ROD PREPARATION PORTFOLIO

Mechanical Descaling

Lämneå Bruk's rod cleaning system is suitable for continuous, in-line descaling of wire rod. The descaling system consists of a 4 or 6-sheave scale breaker, a 4-pair brushing unit, a Sandpaper Descaling Machine, the Waterjet and the Candocoat. Mechanical descaling prepares the wire before entering the drawing machine by removing the undesirable scale from the wire surface.

Mechanical Descaling is considered a more environmentally-friendly alternative to chemical descaling. The machines have a minimal environmental footprint.

Lämneå Bruk's Mechanical Descaling Machines enable efficient, space-saving inline rod cleaning for high-quality and cost-effective results.

The result: Clean and smooth wire, perfectly prepared for wire drawing!



All our machines are **CE marked**. On-going and thorough risk analysis and testing ensures highest safety according to European standards.

Reversed Bending Descaler (MD 75/4 and MD 90/6)



Key Features:

- ✓ The MD series offers two sizes for efficient low – high carbon rod preparation: The **MD 75/4** for wire sizes from 5,5 – 8mm and the **MD 90/6** for wire sizes from 5,5 – 12mm
- ✓ Bending rollers with solid carbide steel inserted at the centre eliminate the need to change the entire roll since only the central part can be replaced
- ✓ Shields and labyrinth seals ensure double protection of the roller bearings utilized in the assembly

TECHNICAL DATA:

	MD 75/4	MD 90/6
Line Speed:	Up to 4m/s	
Wire diameter:	5,5 – 8mm	5,5 – 12mm
Number of rolls:	4 off	6 off
Roll diameter:	75mm	90mm
Optional roll diameter:	90mm	110mm
Inlet wire height:	950mm (Customized upon request)	
Length:	1200mm	1350mm
Width:	625mm	1100mm
Height:	1550mm	1650mm

Mechanical Descaling by Brushing (MDB)



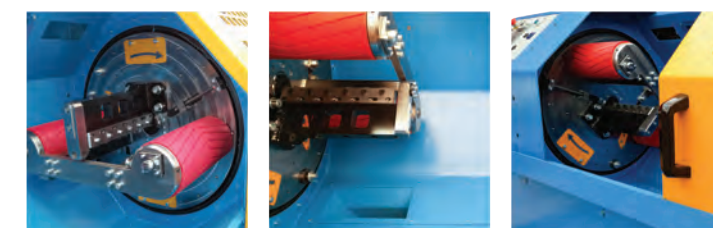
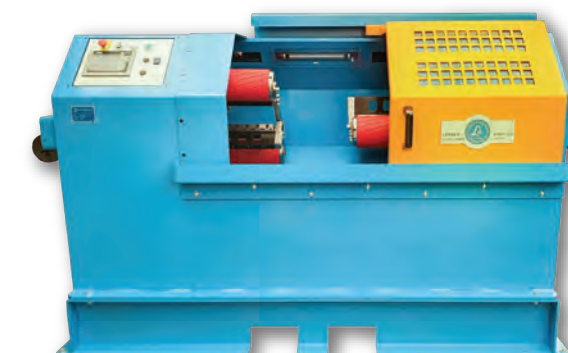
Key Features:

- ✓ Suitable for low to high carbon wire sizes
- ✓ Intelligent Brush Pressure Detection System for optimal cleaning results and extended brush lifetime
- ✓ User-friendly plug-in installation

TECHNICAL DATA:

Line speed:	Up to 4m/s
Number of brushes:	8 off
Brush diameter:	250mm
Wire diameter:	5,5 – 12 mm
Tensile	Low Carbon-High Carbon wire
Inlet wire height:	Customized
Length:	1500 mm
Width:	1325 mm
Height:	2430 mm

Sandpaper Descaling Machine



Lämneå Bruk's 2nd generation sandpaper machine.

Key Features:

- ✓ Rod wire guide rollers through the machine
- ✓ Integrated line speed control, no risk of sanding if line is stopped
- ✓ Belt tracking control
- ✓ Individual drive each flyer and sand belt, full rpm flexibility
- ✓ Synchronized to line speed
- ✓ Sound insulated
- ✓ Dust proof bearing house assembly

TECHNICAL DATA:

Line speed:	Up to 4 m/s
Number of belts:	1 or 2 (double or single head machine)
Belt width:	300 mm
Wire diameter:	4-12 mm
Quality:	Low & High Carbon- Stainless Steel wire
Inlet wire height:	Customized