



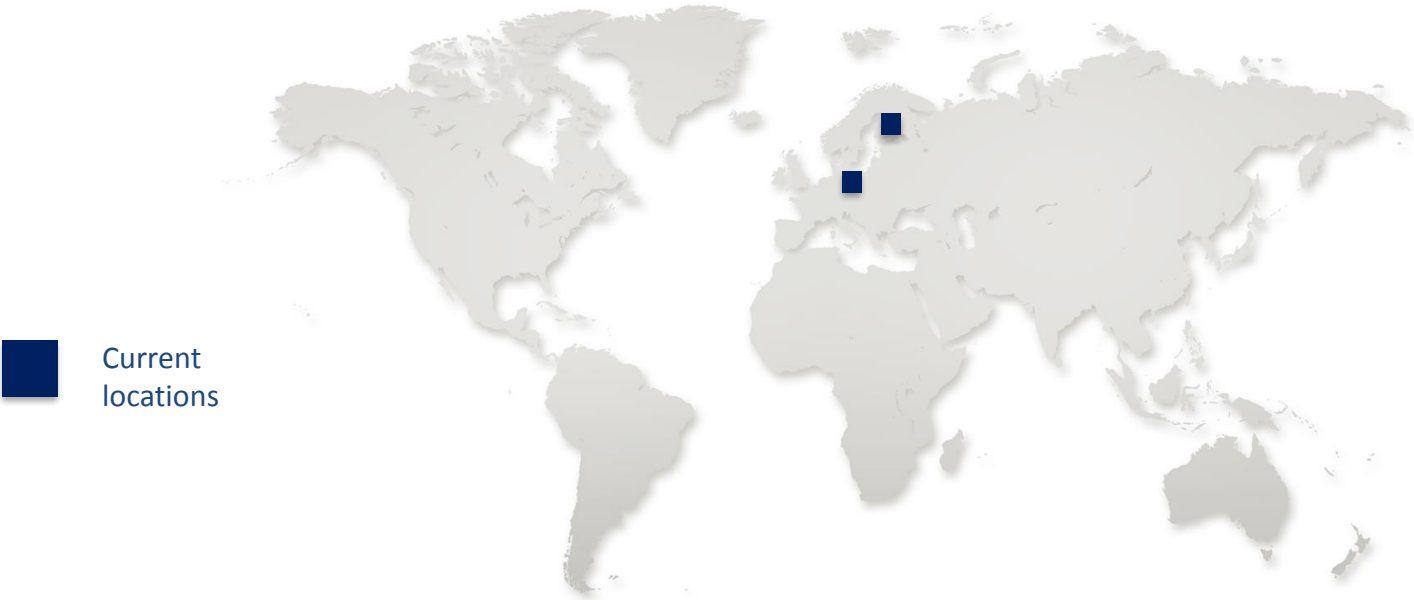
HYDROLINE



SETTING THE PACE IN HYDRAULICS WORLDWIDE

- Expert in the design and manufacture of durable, heavy-duty hydraulic cylinders with over 50 years of experience.
- Pioneer in the hydraulics industry and well known for its state-of-the-art production facility.
- Over 1500 product modes in yearly production which are tailored to customer's needs
- Industry leader in Finland and one of the most advanced operators in the world.
- About 230 people in staff
- Turnover 33 Meur (2015)

LOCATIONS



■ Current locations

CUSTOM HYDRAULIC CYLINDERS, TAILORED TO CUSTOMER'S NEEDS, OVER 1500 PRODUCT MODELS IN PRODUCTION.

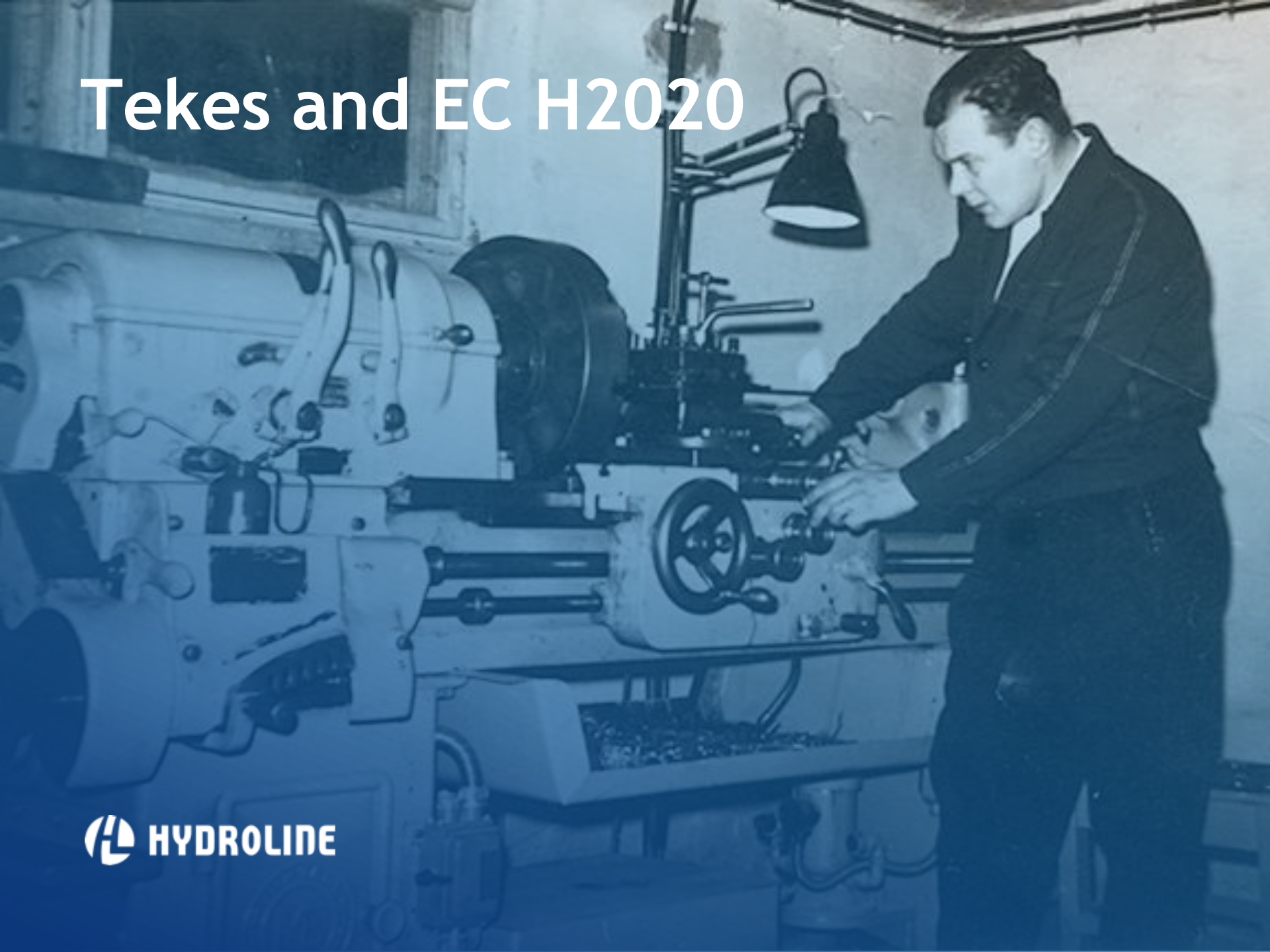
Product range

- Dimensions: Bore up to 300mm and length minimum up to 12 000mm.
- Pressure levels: Standard, up to 420 bar and special, up to 700bar.

Variations available on our cylinders:

- Various seals
- Integrated valves and linear sensors
- Hardened or stainless steel rods
- Special surface treatments
- Fully stainless steel cylinders
- Integrated piston accumulators
- Integrated electronics
- Arctic structures

Tekes and EC H2020



Strong support for R&D

Tekes

Tekes

- Long-term and productive cooperation, locally and nationally
- Strong local network



European Commission

- Significant funding from EC under SME instrument

Coating technology in Hydroline products

TECHNOLOGIES

Technologies in use through suppliers

- Traditional hard chromium
- Nickel coatings
- Various nitrocarburizing processes
- HVOF

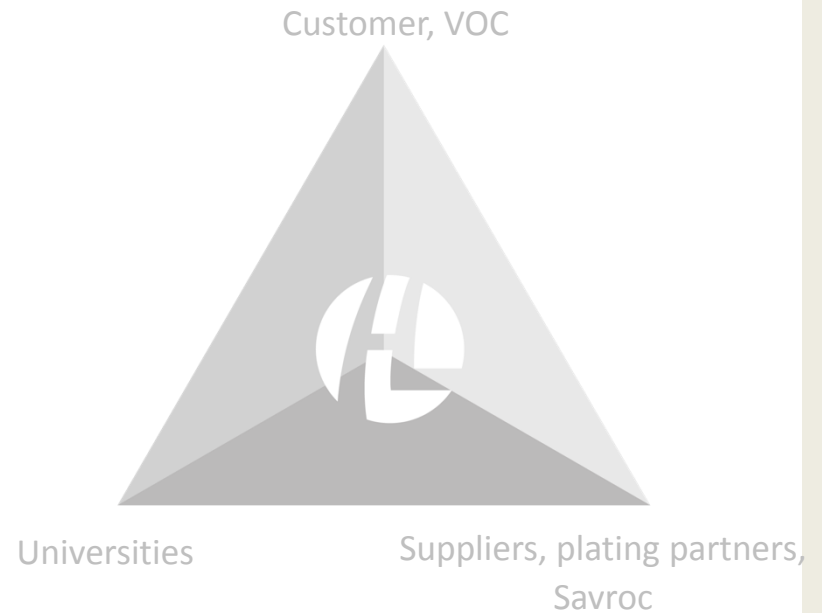
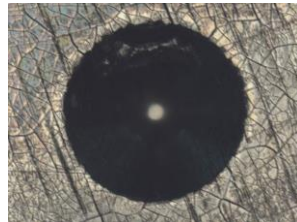
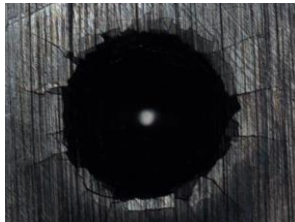
Main targets

- Corrosion and wear resistance
- Tribology and friction
- Environmental issues
- Economically sustainable



Technologies under testing

- Savroc TripleHard
- History behind 2008->



THANK YOU

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