

**KONRAD  
TOOLS**

**TMC**  
Group

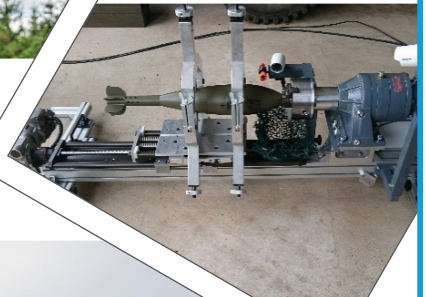
**DRONE  
TECHNOLOGY**



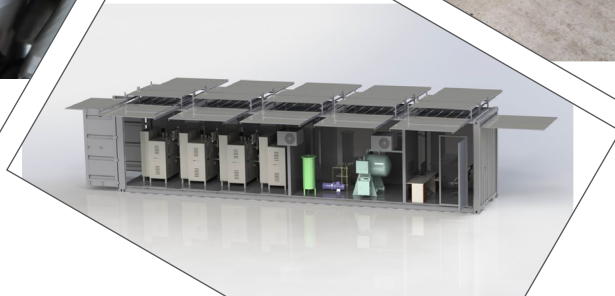
**GUN BARREL  
PRODUCTION**



**AMMUNITION  
DELABORATION**



**WATER  
TREATMENT**



**PRODUCTS BROCHURE**

## GUN BARREL PRODUCTION LINE



- 6 spindle machine
- Reaming of six barrels at the same time
- Achieving of required surface quality and geometrical tolerances

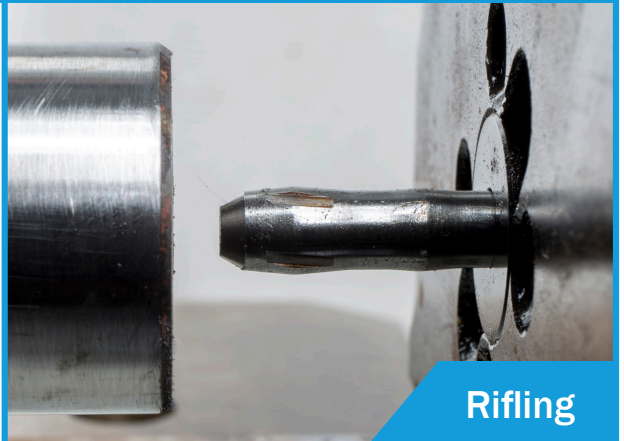




- 1 spindle machine
- Unique honing tool design

Honing

- Cold forming process production of the groove
- Unique tool geometry ground in our production
- Excellent productivity and groove properties



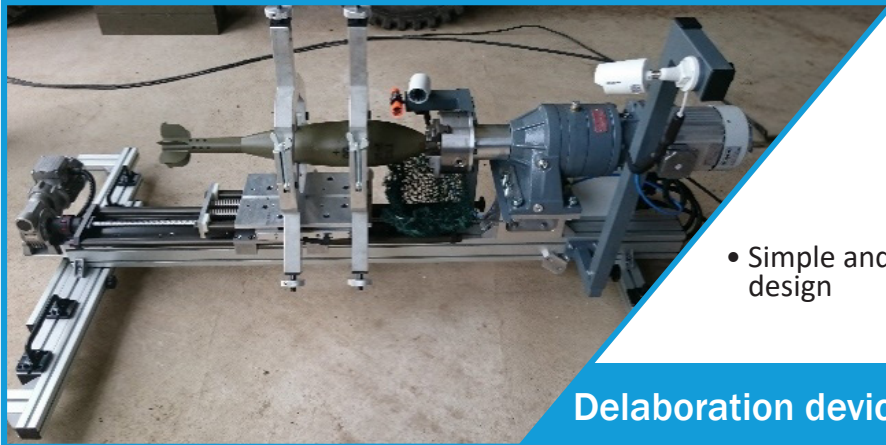
Rifling



- up to 630 psc / week
- Diameter 4,5 to 20 mm

Gun barrels

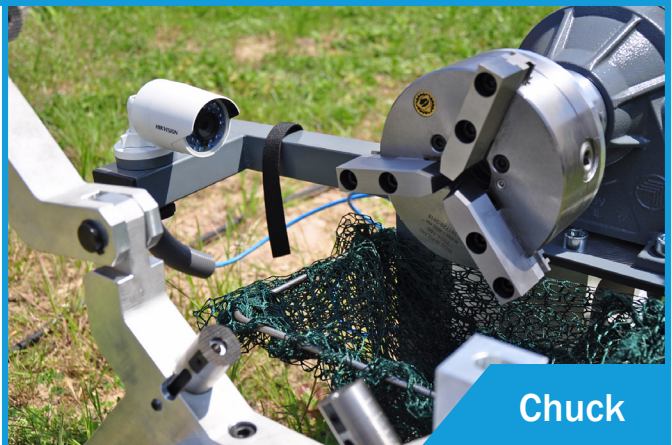
# AMMUNITION DELABORATION



- Simple and solid design

**Delaboration device**

- Remote removal of unexploded dangerous ammunition fuzes
- Dimensions L 2100 x W 1200 x H 800 mm
- Ammunition diameter  $\varnothing$  10–220 mm
- Ammunition length 100–900 mm

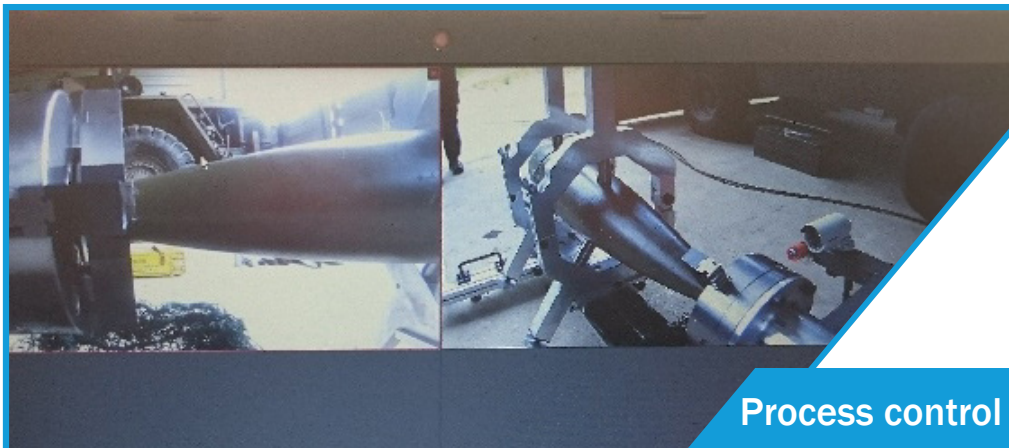


**Chuck**



- Rotational movement of the spindle and linear movement of the sliding mechanism
- Adjustable clamping system for various types of the ammunition

**Ammunition clamping**



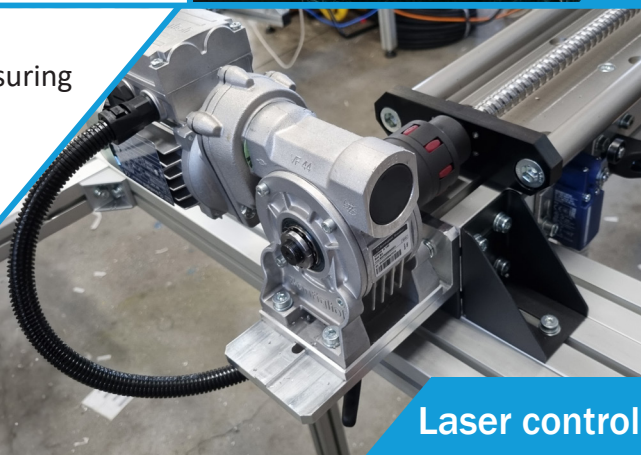
Process control

- Remote control by regular and thermal camera
- No need of operator control during of process of delaboration



Camera

- Position ensuring
- Centering



Laser control

## DRONE TECHNOLOGIES



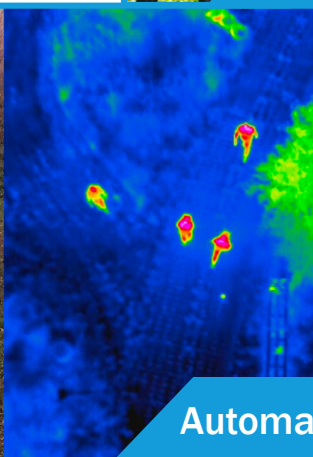
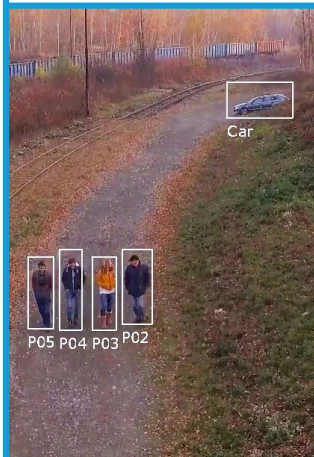
- Ammunition drop and reconnaissance

**Ammunition drop system**

- Robust localization and navigation system
- Improved resilience against electronic warfare systems
- Rugged design for harsh conditions
- Transport of supplies and medical equipment

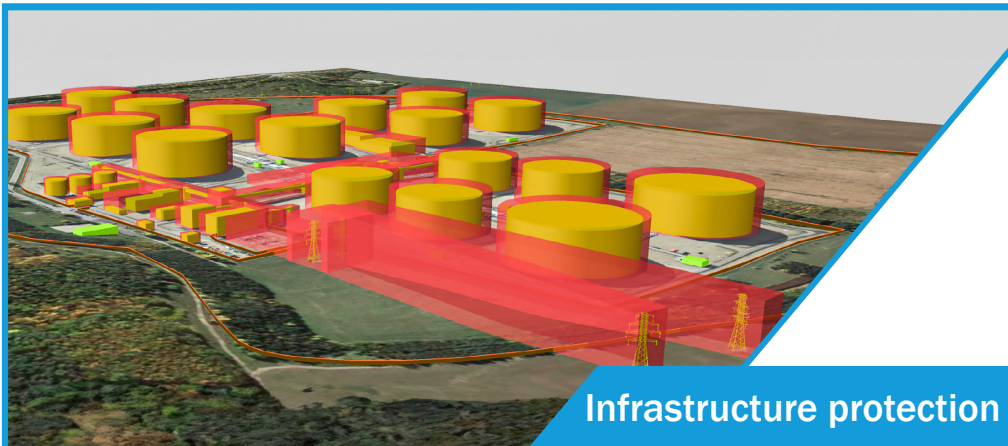


**Ammunition drop system**



- Security of critical infrastructure, military objects, borderlines
- Data collection, fusion, and evaluation
- Operation automation, situational awareness, and decision-making process.

**Automated image recognition**



Infrastructure protection

- Fully automated drone operation system
- Robotic battery replacement
- Surveillance of remote and inaccessible areas



Drone dock



Drone dock

# WATER TREATMENT



- Easy to transport
- Mobile, autonomous source of water

**Water treatment unit**



**Container unit**



- Vacuum distillation technology
- Environmentally friendly technology - usage of the waste heat or solar panels
- Whole technology in one container
- Reduced water boiling point thanks to the reduced pressure

**Container unit example**

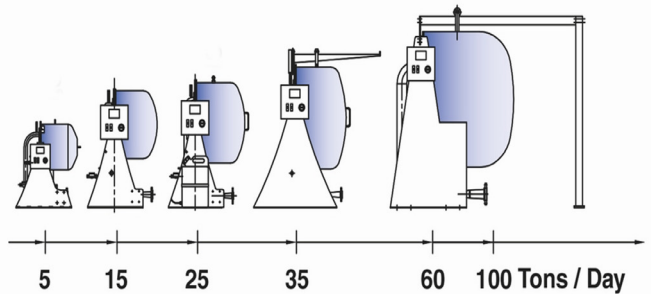




- Suitable for agriculture
- Without soil degradation by salt

## Soil salinization

- Modular system
- Capacity depending on the type of the device varies from 0,5 m<sup>3</sup> to 200 m<sup>3</sup>.



## Production size



- Usage:
  - natural disasters
  - military operations
  - water supply failures
  - desert areas
  - boats, etc.

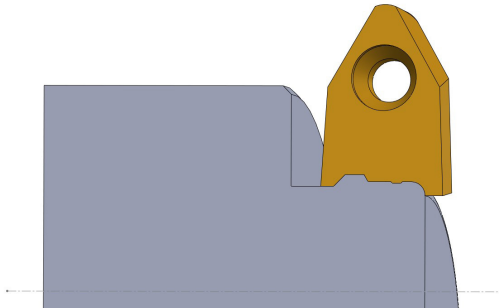
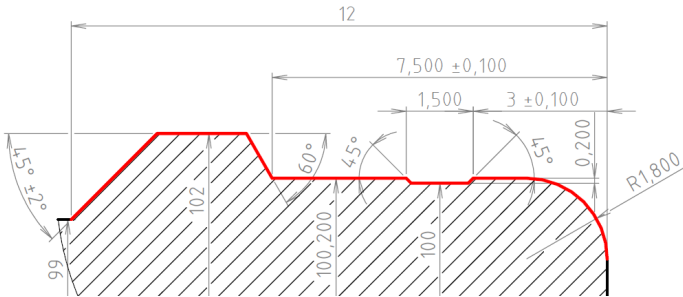
## Autonomous desalination unit

## CUSTOM MACHINE TOOLS

Do you manufacture high volumes of rotating parts?

We have a solution for you that can significantly reduce your production time and costs.

We will produce an insert precisely according to your drawing.



Examples of insert from our production:



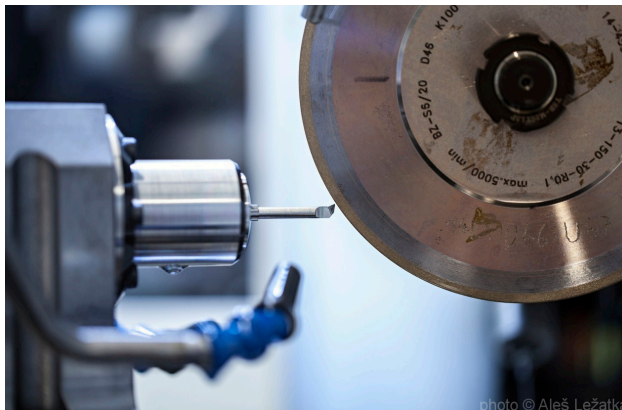


photo © Aleš Ležatnik

## Reasons to choose Konrad Tools?

- Precision manufacturing
- Highly professional technical support
- European quality standards
- Prompt production of small (5 pieces) as well as large series of special tools (100 +)

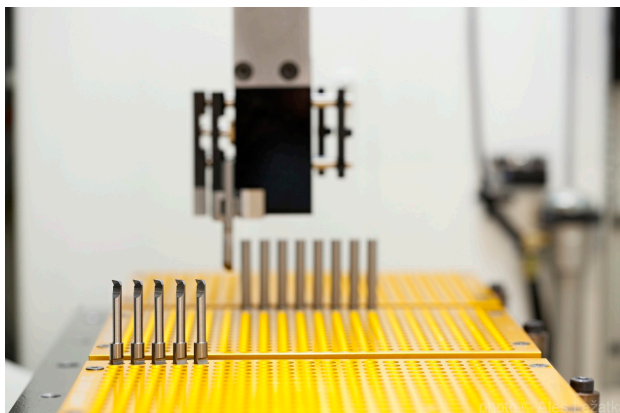


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**TMC CR, s.r.o.**

Jan Konrad

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IF YOU WOULD LIKE TO FIND OUT MORE ABOUT OUR PRODUCTS OR HAVE ANY GENERAL INQUIRIES, PLEASE DON'T HESITATE TO CONTACT US.

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