

*The easy way to make it feel!*



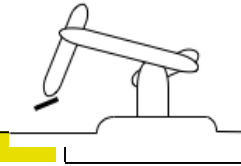
Robots under Pressure

## **SENSITIVE ROBOTICS**

# **Utilizing Sensitive Robotics To Enable Cost-efficient Production of Lightweight Materials**



# Why compliance?

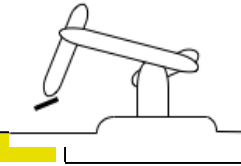


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[video](#)



***Spin-off of the University Linz,  
founded June 2006***

***Founder:***

DI Dr. Ronald Naderer, MBA

***Development and sales of  
lightweight robots***

***85% export quota***

## U S P

- ☑ Soft high-tech devices
- ☑ Force like a hand
- ☑ Human-machine collaboration



### 2008

- ☞ Innovationsprice Upper Austria
- ☞ Automatica MM Award most innovativ Robot
- ☞ Austrian Start Up of the year

### 2009

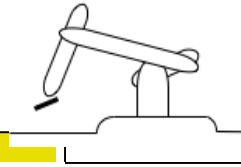
- ☞ Top 5 EURON, Eu Robot association
- ☞ Technology Transfer Award

### 2010

- ☞ Strategic Manufacturing Award Innovation
- ☞ Manufacturer of the Year

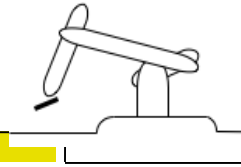
**2011 Top Five Innovator at Hannover trade fair HMI, Top 3 Robotic AWARD, ROBOTATION ACADEMY**

**2012 ECONOVIUS Austria Innovation AWARD KMU , 2013 3. Euron Tech Transfer Award**



- *Cooperative Productdevelopment*
- **Service Robots**
- **Industry**
- **Medicine**

- *Own Products*
- **ROMO**
- **Active Contact Flange**
- **3D/6D Viber: Motion Boards**



## Active Gripper ( Uni- Bremen)



## Active Motion Plattform (FerRobotics)



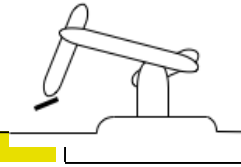
## Simulator (Wheelchair)



## Shoulder Rehabilitation (Otto Bock)



# Human-Robot-Collaboration (Industry)



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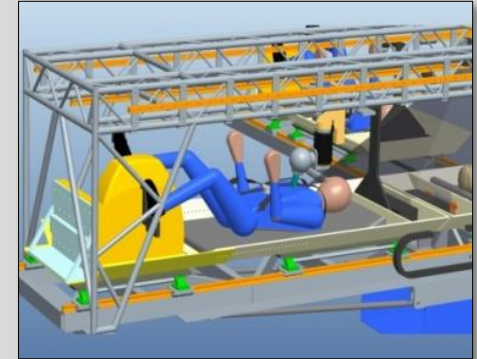
## Mobile Plattform (Audi)



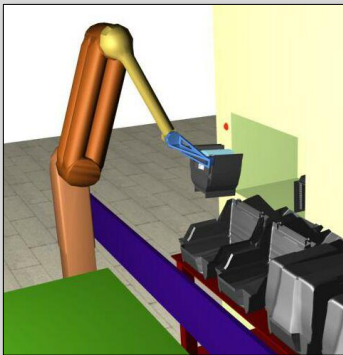
## PackagingTV (Loewe)



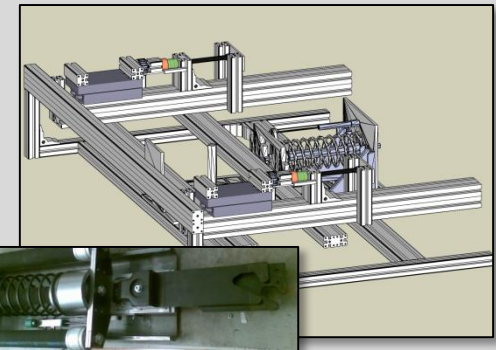
## Ultrasonic scan Centrifuges (AMST)



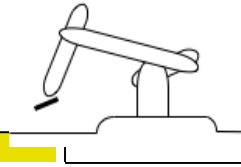
## Clean-room-robot (Infineon)



## Stacking of plastic profiles (SPG)



## Collisionssaver Pressbreak (Trumpf)



*Ideal for:*

## Surface treatment:

Sand, polish, clean, laminate, strip,  
brush, remove burrs, iron

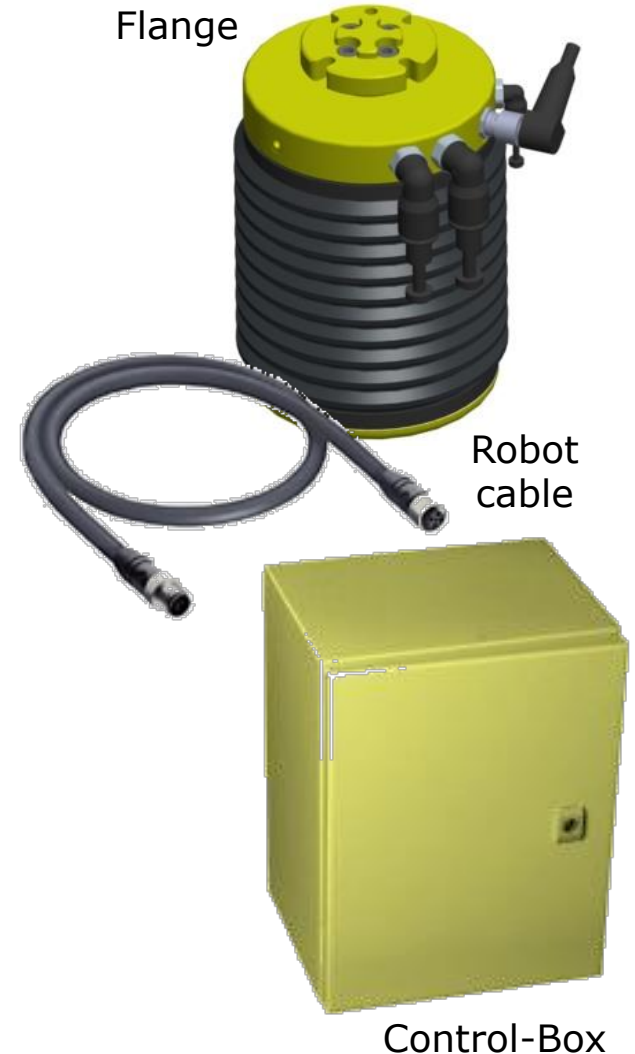
## All materials:

Steel, aluminum, titanium, magnesium,  
carbon, plastic, fiber composite ...

## Contact-sensitive handling:

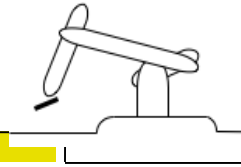
Place, insert, tape, join, pack,  
quality inspection

Flange



Robot cable

Control-Box



## Surface Treatment

**Sand**

**Strip**

**Burrs**

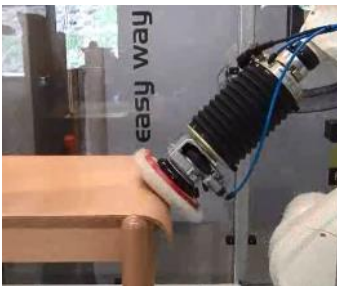
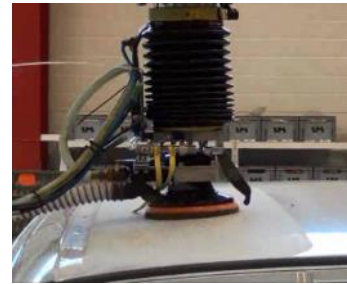
**Polish**

**Brush**

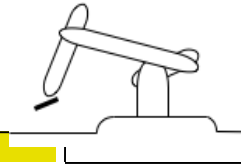
**Clean**

**Laminate**

**Remove**







## *Contact-Sensitive Handling*

***Assemble***

***Tape***

***Pack***

***Insert***

***Stacking***

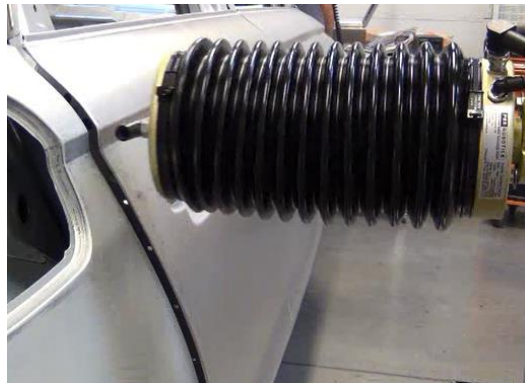
***Join***

***Test***

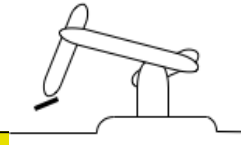
***Handling***

***Gluing***

***... and many more***



# Product Range



## ACF Classification

XS-Extra Small

**ACF 110**

100 N



11.5mm

35mm

100mm

handling  
surface polishing

handling  
surface finishing

**ACF 120**

500 N



50mm

100mm

surface abrasion

**ACF 111**

200 N

**ACF 121/131**

500 N  
800 N

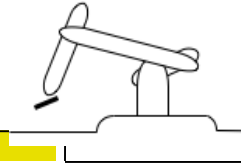
HD - Heavy Duty



35mm

50mm

heavy handling/abrasion

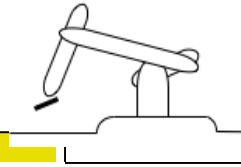


## aluminium-roof joint grinding

Ingolstadt, Nackarsulm / Germany,  
Hungary, Mexico

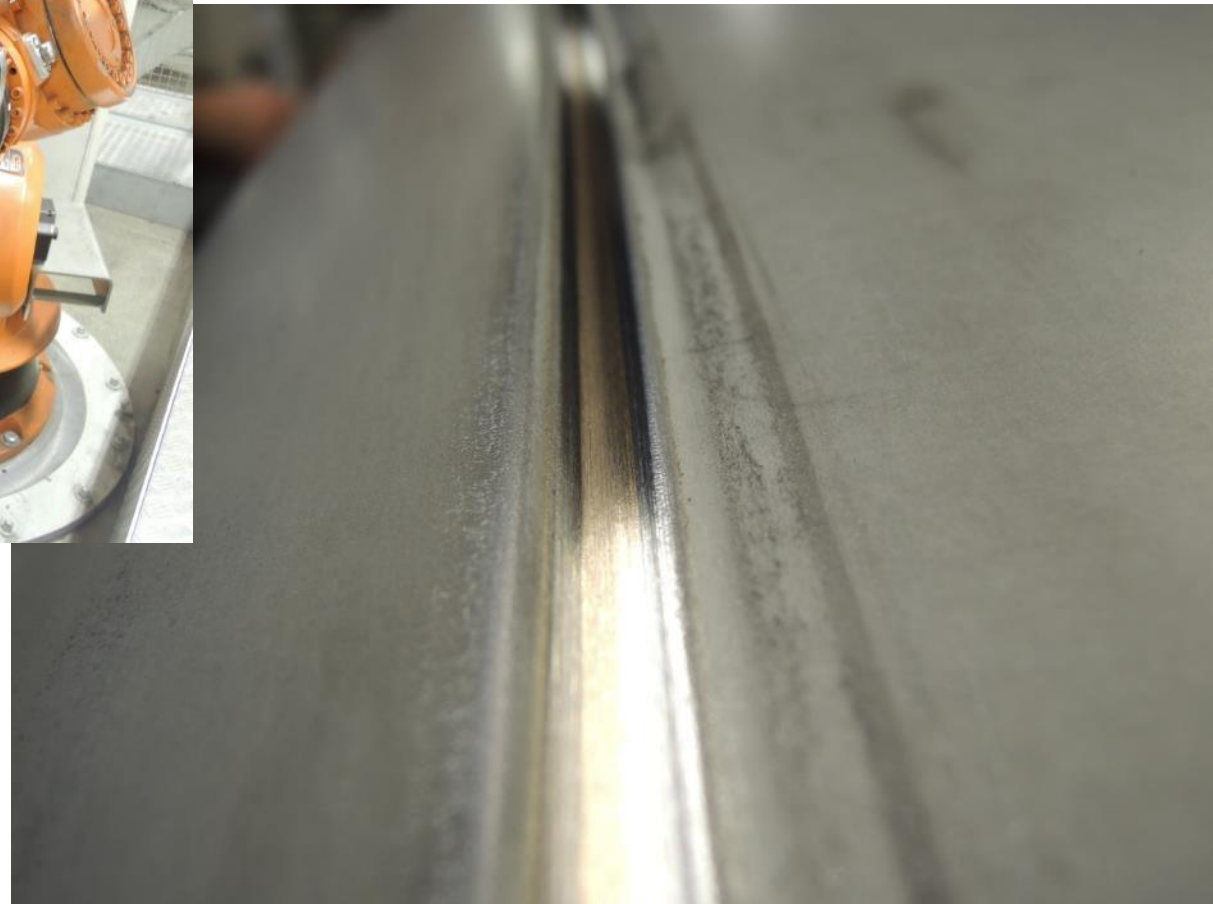
ROI: 1 Month

# Active Sensitive Kit

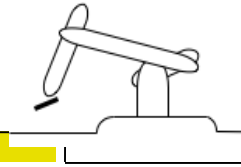


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# VIDEO



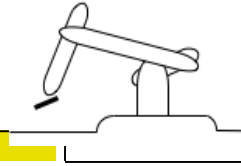
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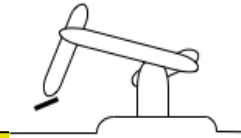


## Primer grinding

Hannover

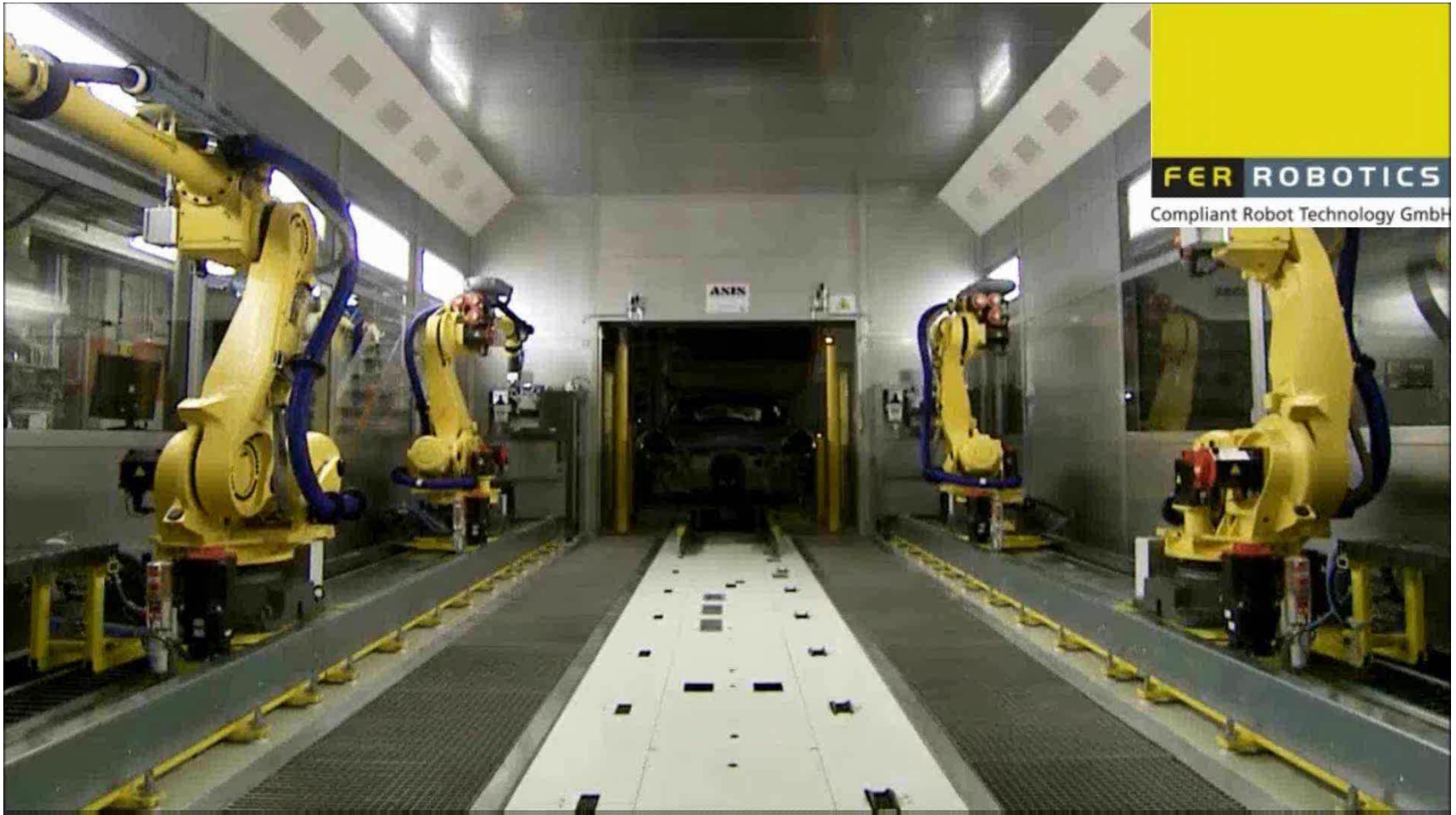
ROI: 12 Month

# VIDEO



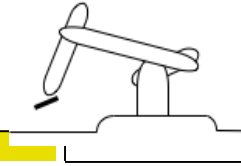
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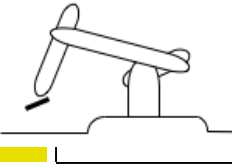
## glue sealing attachment

# Spartanburg

ROI: 4 Month



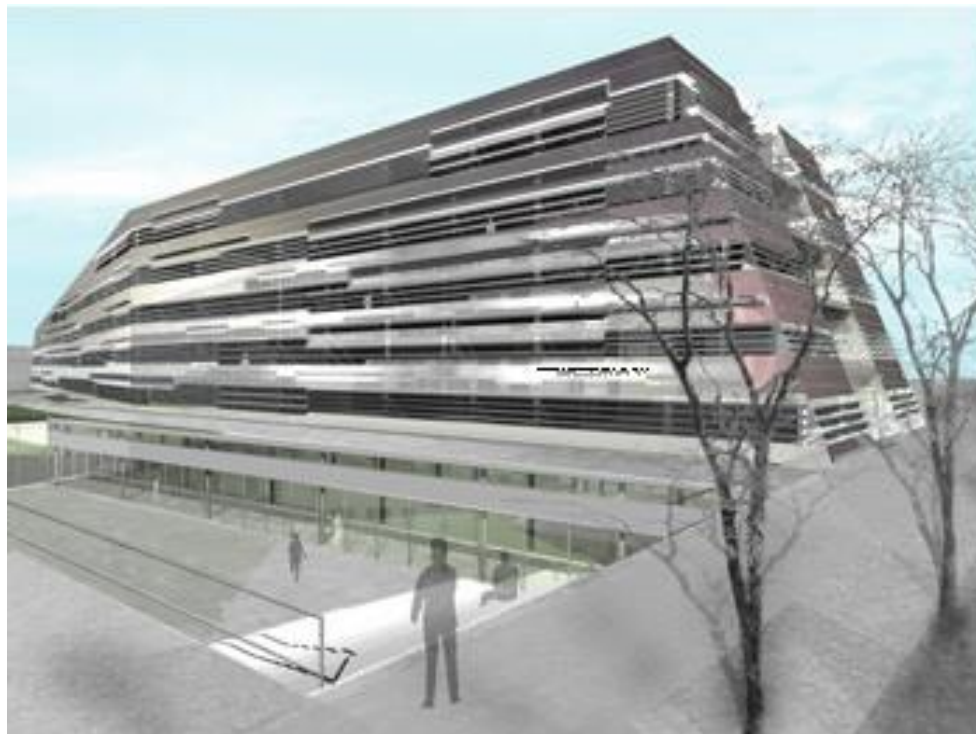
# VIDEO



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