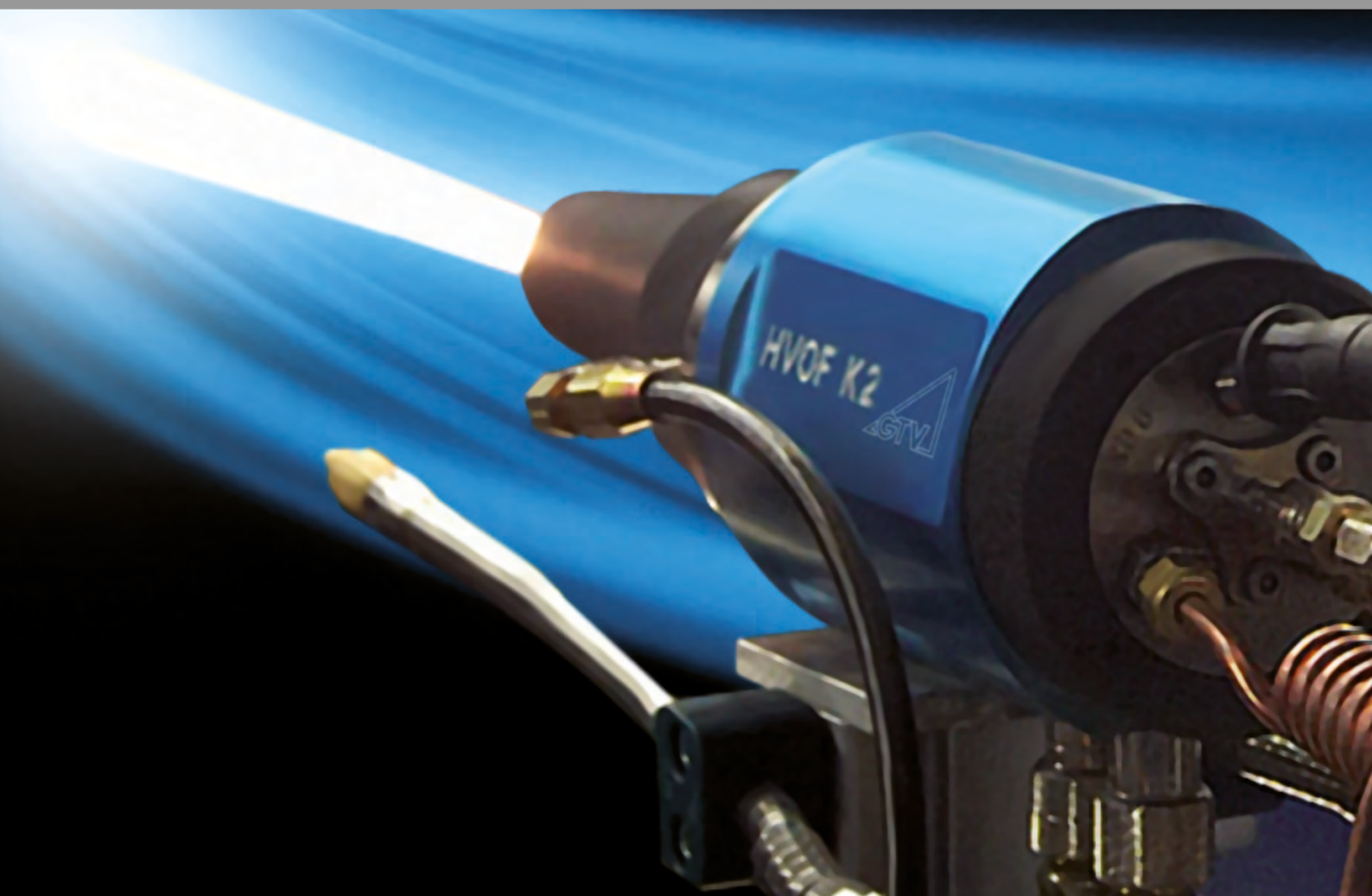
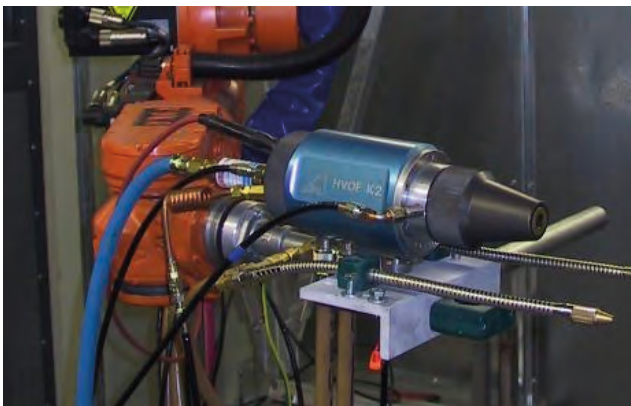
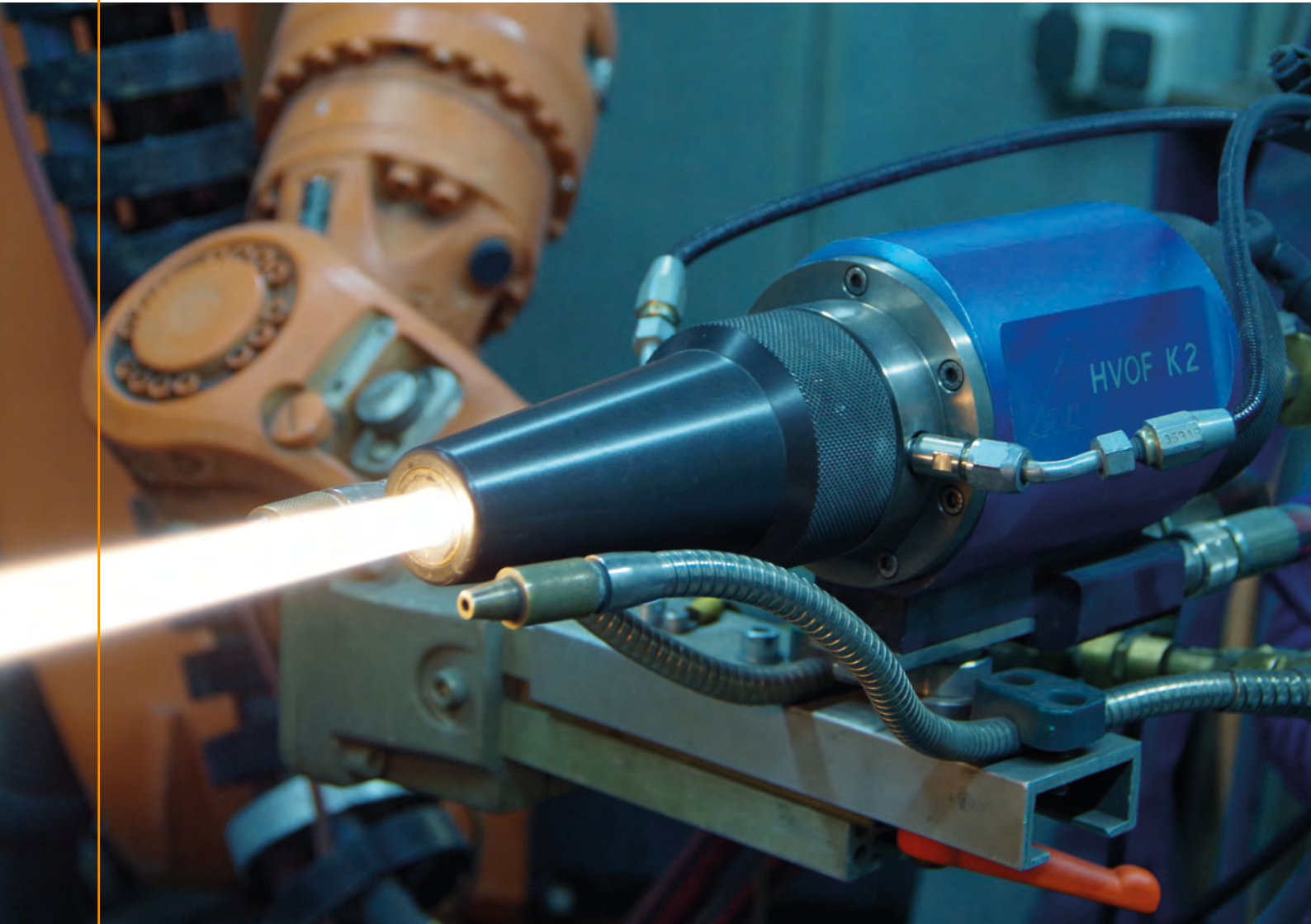


GTV K2

HIGH VELOCITY OXYFUEL FLAMESPRAYING



GTV K2



Description

- 3. Generation, Liquid Fuel HVOF Burner
- Gas Velocity > 2000 m/s
- Coatings with Compressive Stresses
- Coating Thickness (20 - 2000 μm)
- Coatings with high Bond Strength, 100 MPa
- Low Porosity (< 1%)
- Low Heat Input
- Smooth Asprayed Surfaces ($R_a < 2 \mu\text{m}$)
- Near Net Shape Spraying
- Processing of fine-grained Powders (+5 -15 μm)
- No Decarburisation of Cermets (Tribology)
- VPS-like Oxid Content of MCrAlY Coatings

All Gases Massflow Controlled combined with Siemens-S7-SPS

- Highest Control Accuracy
- Highest Reproducibility

Display of Chamber, Pressure, BAR, Cooling Capacity, KW

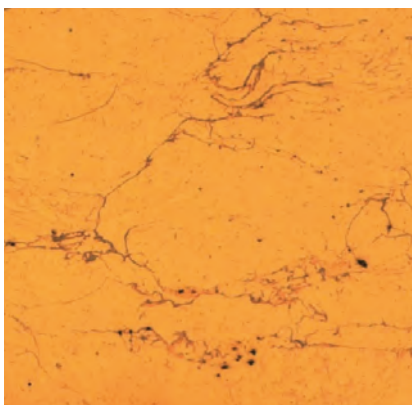
Data Logging of Parameter Recipes

Display of set/actual value

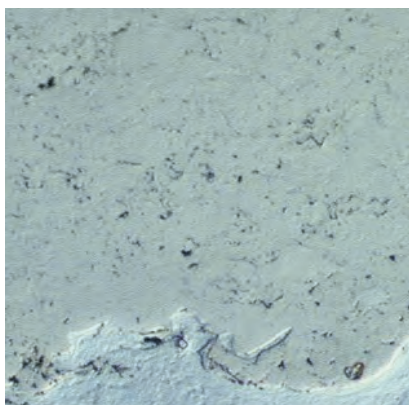
Visualisation of all Media

λ - Controlling, Fuel Ratio

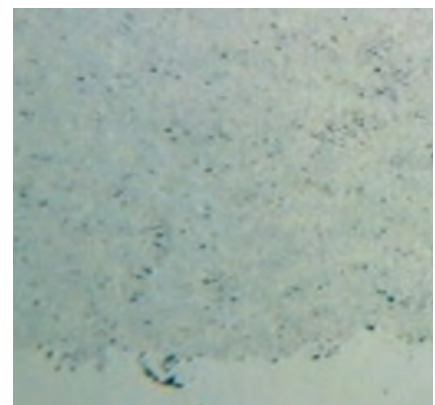
Parameter-Monitoring and Recording



Cu 99%, contrasted

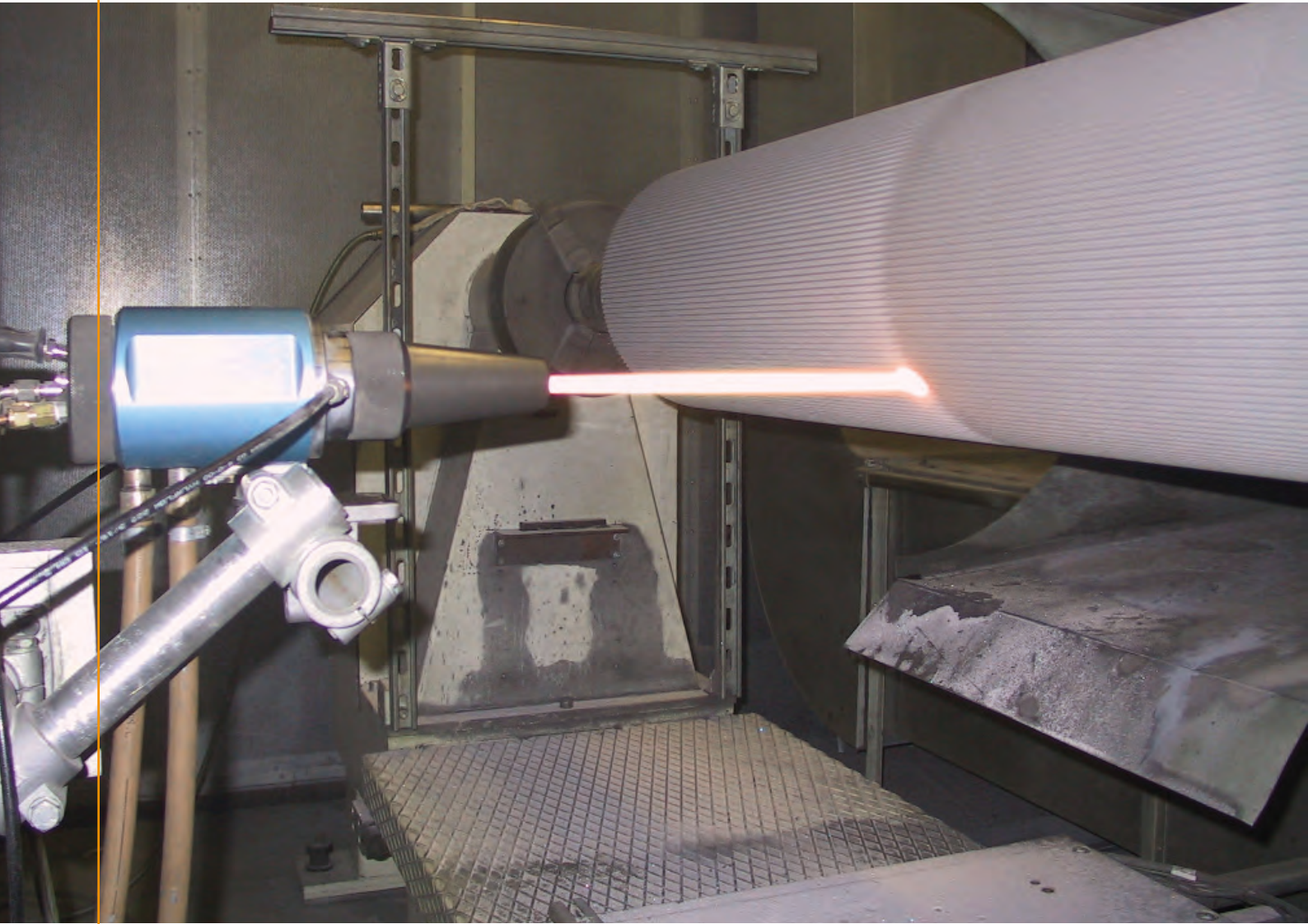


MCrAlY,
O-Content: 0,25% at DE: 49%



WC/Co 88/12

GTV K2



Rugged Design, few Wear Parts

Pure Kerosene/Oxygen Flame

- No Ignition Gas required
- No additional Gas (Supporting Flame) required

Patented Fuel-Injection-System for finest Kerosene Atomization

Complete Combustion inside the Combustion Chamber

Option for Water Injection serially

- 30% increase in Chamber Pressure
- 25% decrease in Cooling Capacity
- Processing of "Nano-" Powders
- Avoiding of Particle Oxidation



Approx. 150 GTV K2 Systems worldwide

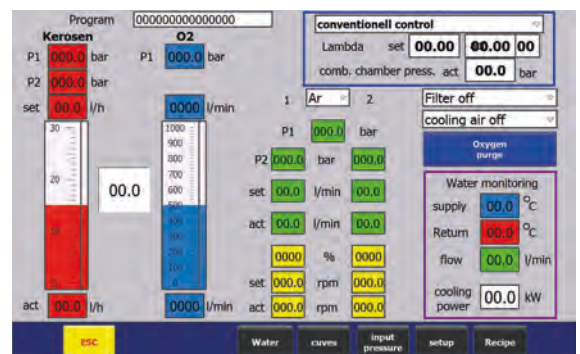
- Europe
- USA
- Russia
- Asia
- Australia

Used in the following areas

- Aviation
- Automotive Industry
- Print and Paper
- Ship Building
- Job-Shop
- Research and Development

Applications

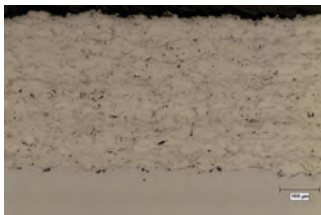
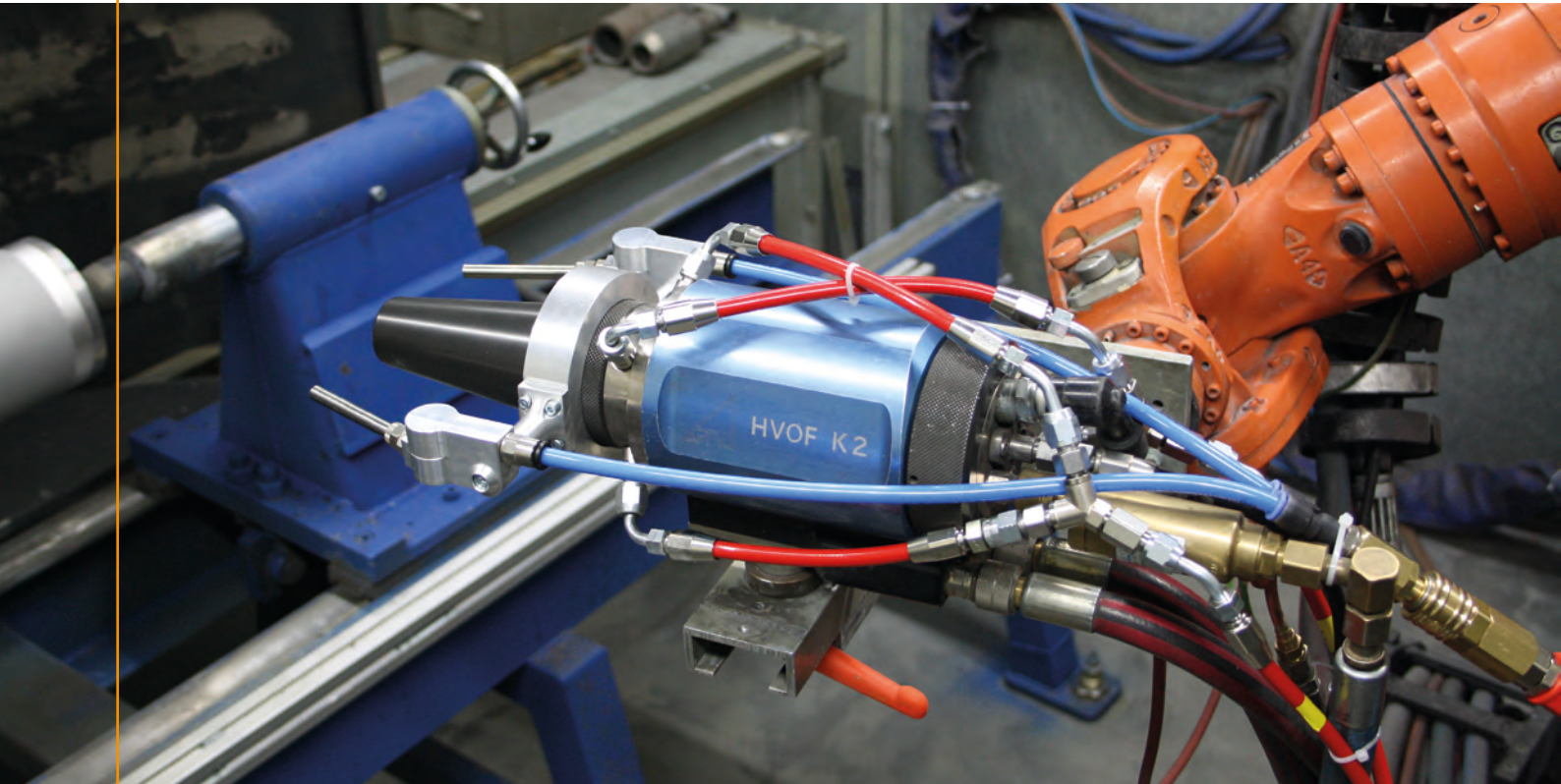
- Drivetrain Components for Submarines and Ships
- Gas Turbine Components
- Hydraulic Cylinders
- Corrugated Rollers
- Print Rollers
- Brake Discs



GTV K2 QUATTRO

NEW

Ensuring approved K2 coating for higher deposition rate



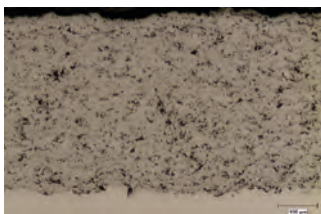
GTV 80.20.8
Ni20Cr

Feedrate: 400 g/min
DE: 57 %
Hardness: 420 HV o,3



GTV 80.15.1/GTV 80.81.1
**NiCrBSi 60 HRC/Cr3C2/
NiCr 75/25**

Feedrate: 600 g/min
DE: 52 %
Hardness: 800 HV o,3



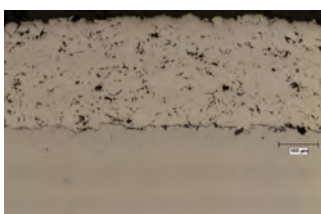
GTV 80.75.1
WC/Cr3C2/Ni70/23/7

Feedrate: 500 g/min
DE: 49 %
Hardness: 1200 HV o,3



GTV 80.46.1
316L

Feedrate: 600 g/min
DE: 73 %
Hardness: 350 HV o,3



GTV 81.43.1
FECrNiMoSi

Feedrate: 400 g/min
DE: 66 %
Hardness: 600 HV o,3

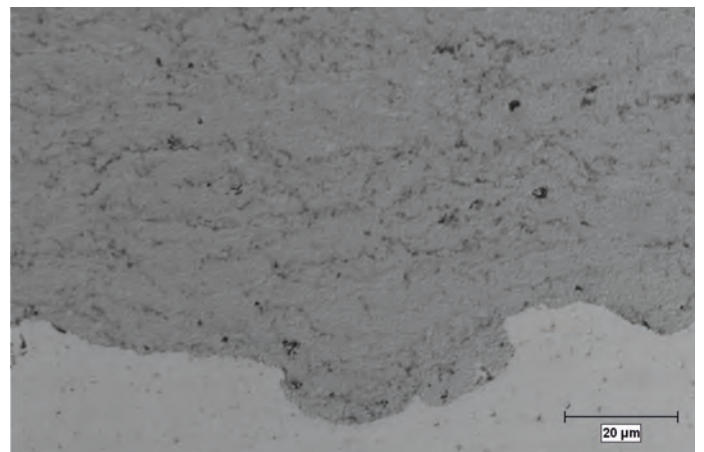
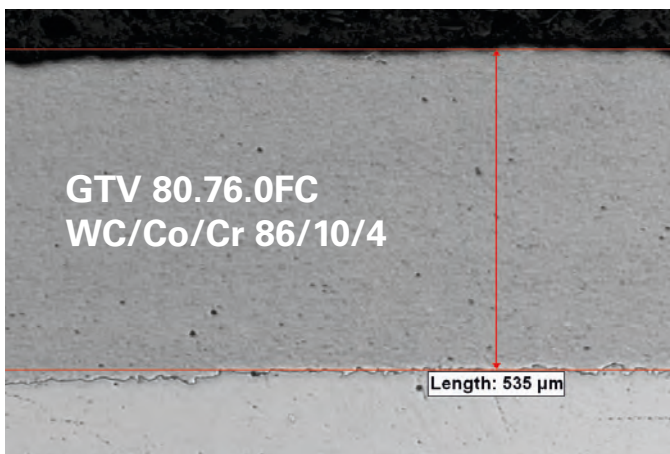
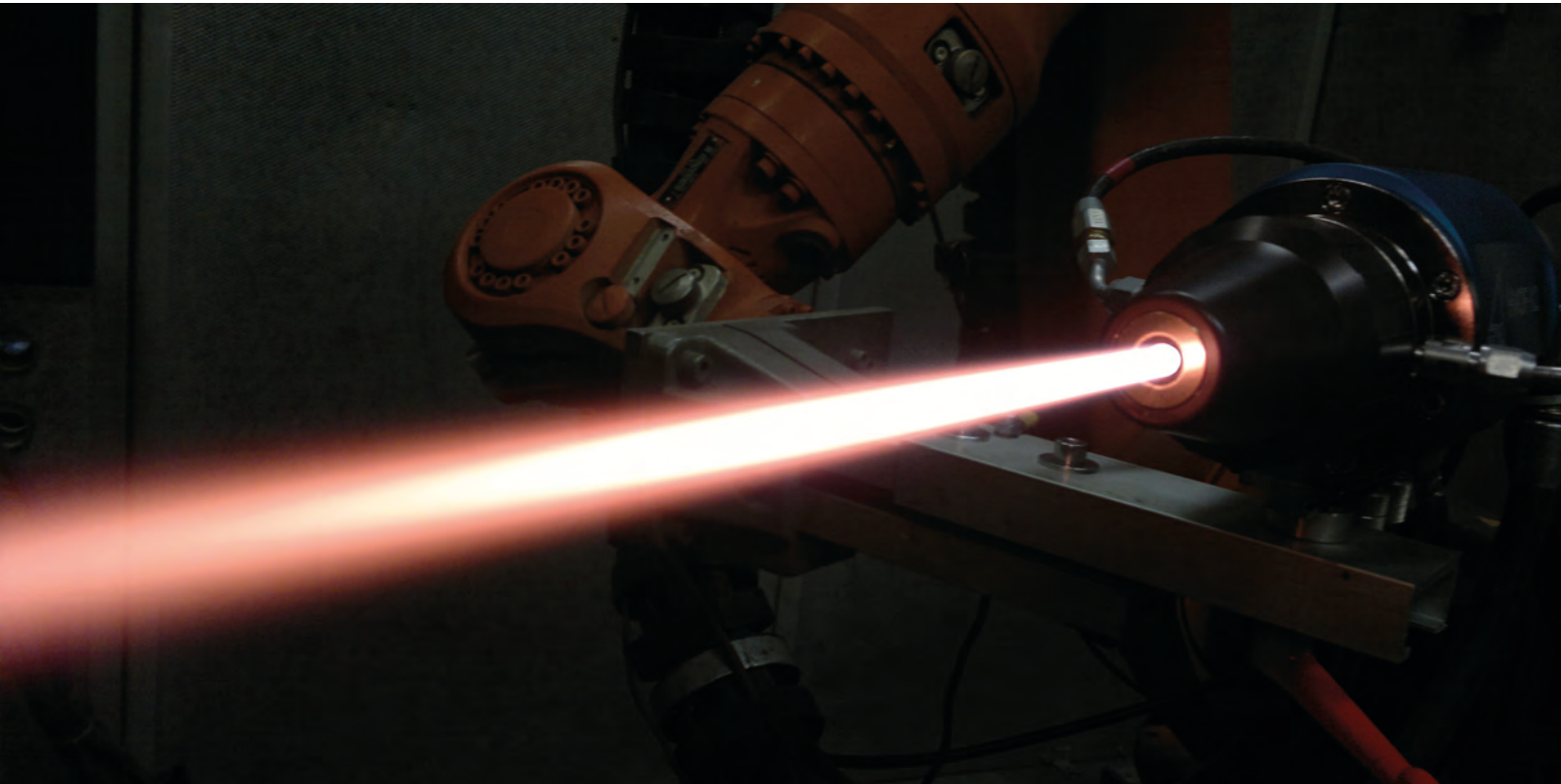
*Measurement accordingly
ISO-Standard 17836

GTV K2 UHVOF SETUP

NEW



K2 modification kit for new and existing systems available



- Ultra fine powders, nano crystalline
- Elevated chamber pressure up to 18 bar
- < 0,5 % porosity
- Hardness ~ 1450 HV 0,3 + 5



Ever since the company was established in 1982, the name GTV has stood for top quality and a high level of delivery reliability for all types of thermal spray products.

GTV provides its customers with many years of experience in all aspects of the high-technology field of thermal spray technology, enabling them to make use of the effective and efficient GTV system solutions in order to gain a substantial competitive advantage in the market.



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