

# Franke Industrie AG



The supplier of hot gas path parts,  
components and sub-assemblies in:

- stainless steel
- high-grade alloys
- heat resistant materials

In partnership with market leaders.

Franke Industrie AG  
CH-4663 Aarburg  
Switzerland  
Phone +41 62 787 34 13  
Fax +41 62 787 30 20  
[www.Industech.ch](http://www.Industech.ch)

**FRANKE**





# Forming



**SQS**  
 The Swiss Association  
 for Quality and Management Systems  
SQS hereby certifies that the company named below has a management system which meets the requirements of the normative basis specified below and issues the certificate.

**Franke Industrie AG**  
 CH-4663 Aarburg

Certified area  
**Whole Company**

Field of activity  
**Machining heat-resistant steel alloys using modern machining technologies**

on the basis of the audit result the  
**SQS Certificate**  
**ISO 9001:2000 / ISO 14001:1996 / EN 729-2:1994**

CH-3052 Zollikofen, June 6, 2003  
 This SQS Certificate is valid up to and including May 7, 2004  
 Scope number 17  
 Registration number 10406-07

President SQS: *V. Schürmann*  
 Managing Director SQS: *T. Zoller*

X. Eichenmann  
 T. Zoller  
 IQNet

- MAN TURBO**
- ALSTOM**
- RUAG Aerospace**
- PILATUS**
- Contraves | Space
- VOLVO**

**Rolls-Royce**  
 Rolls-Royce Deutschland Ltd & Co KG

Certificate of Approval  
 No. 96830

This is to certify that  
**Franke Industrie AG**  
 CH-4663 Aarburg, Dorfbachstrasse 2  
 Vendor Code: 214022

is approved for the following scope

- Silver Metal
- Pressing
- Welding
- Permanent Inspection to Customer Specification
- PPS104 Fusion Welding
- PPS051 Cleaning and Degreasing Using Aggressive Media

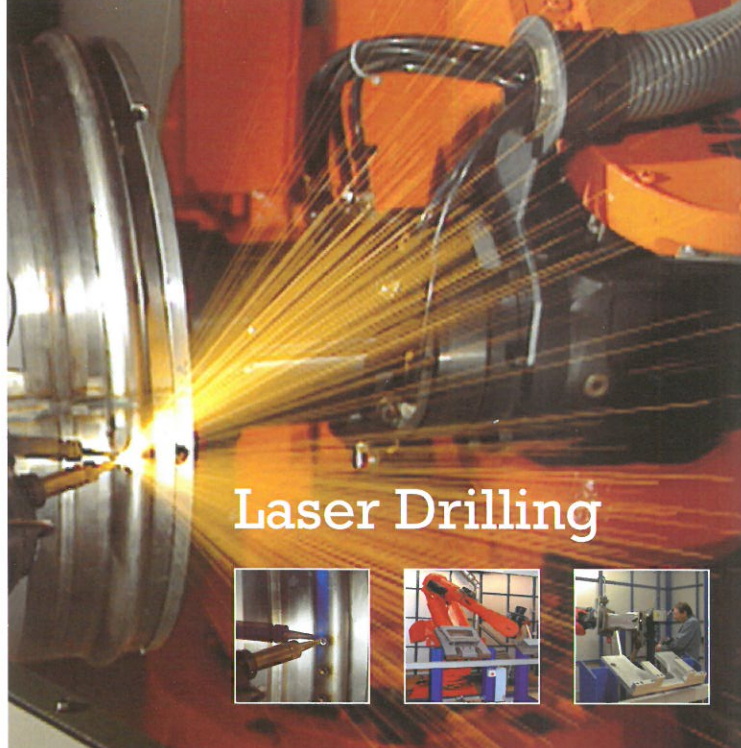
continued...

Projects: Tornado G119/T312, T117 and CF M56  
 Issue date: 27 Nov 2003 Expiry date: 31 July 2005

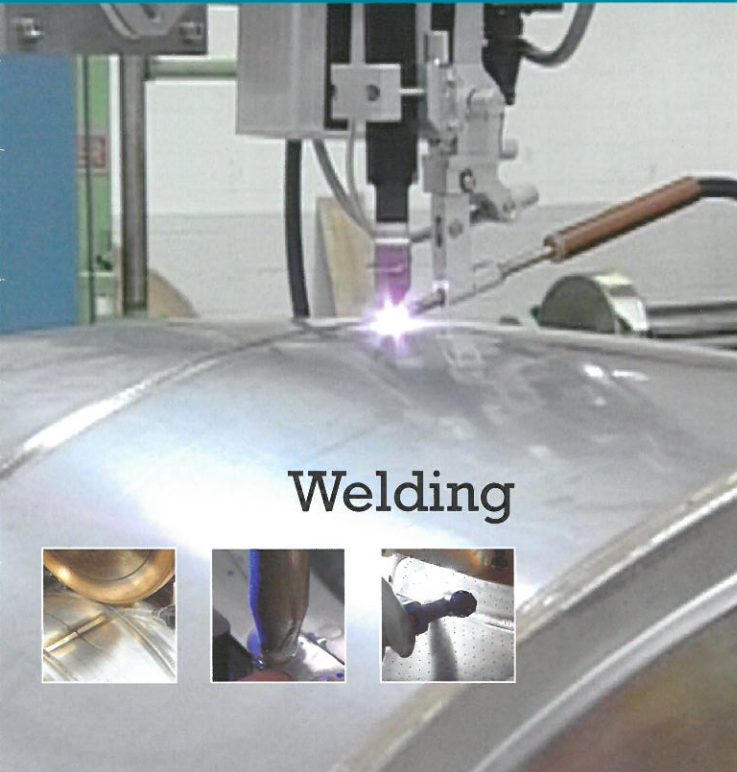
*V. Schürmann* *J. Weig*  
 V. Schürmann, Director U.S. Affairs  
 Department Manager, Rolls-Royce Deutschland Ltd. & Co. KG  
 J. Weig, Director Quality  
 Rolls-Royce Deutschland Ltd. & Co. KG

This certificate supersedes all previous approval letters / certificates 1 of 2

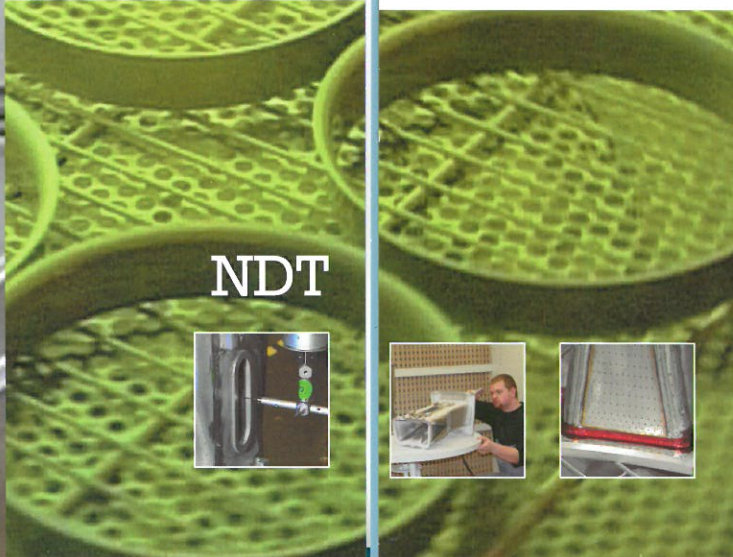
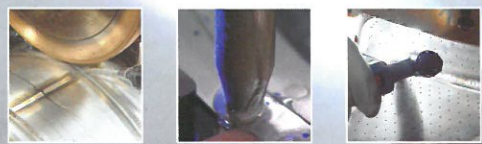
- DRESSER-RAND TURBO PRODUCTS DIVISION**
- Rolls-Royce**
- Techspace Aero**  
sneema group
- EADS + **MAN TECHNOLOGIE**
- IR**



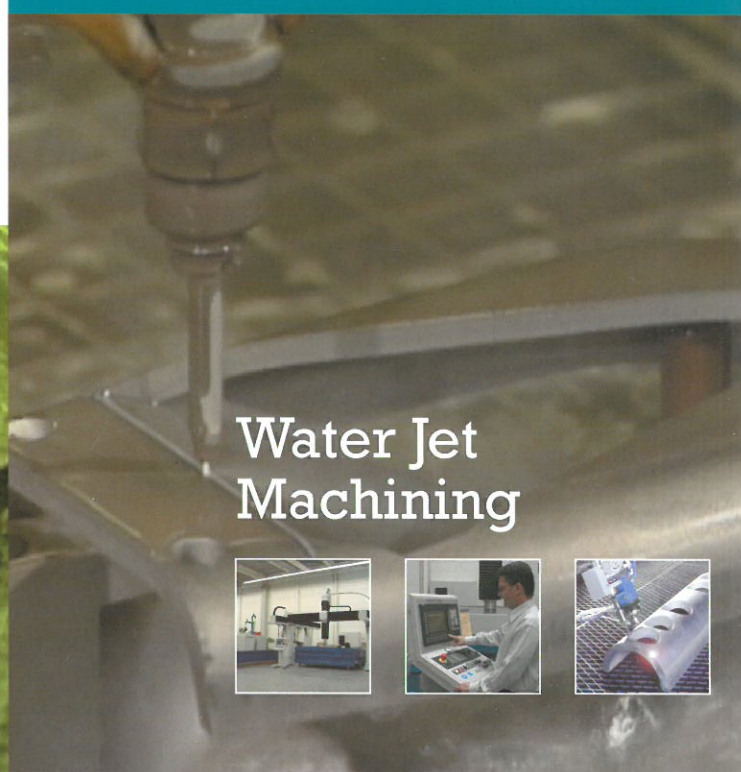
# Laser Drilling



# Welding



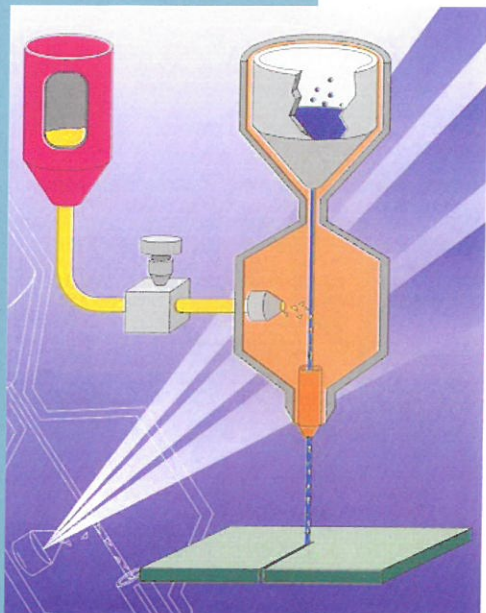
# NDT



# Water Jet Machining







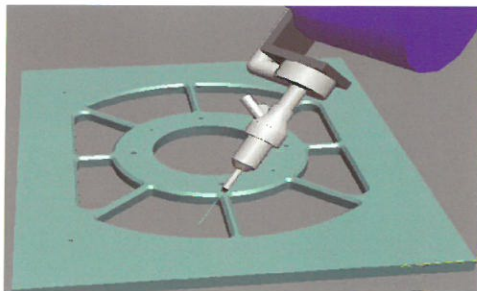
The actual cutting process\* takes place using a high-pressure water jet and a sharp-edged abrasive.

The water jet and the abrasive are forced through a hard-metal nozzle at a pressure of up to 4'000 bar.

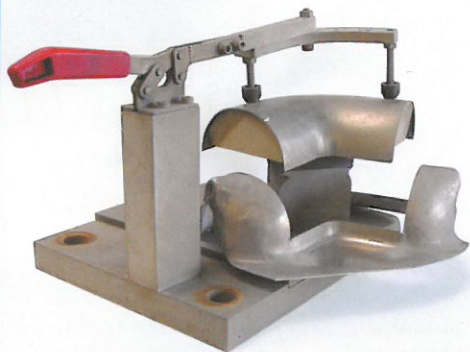
\* Cold-cutting process without burning or edge cracking!



CNC Sinumerik 840D



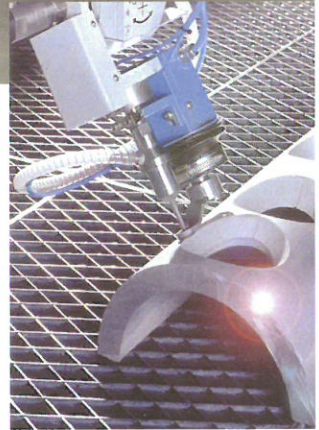
Toplas-3D



# 3D-Abrasive Water Jet Machining

Technical data:

X-axis 3050 mm, Y-axis 3050 mm, Z-axis 800 mm



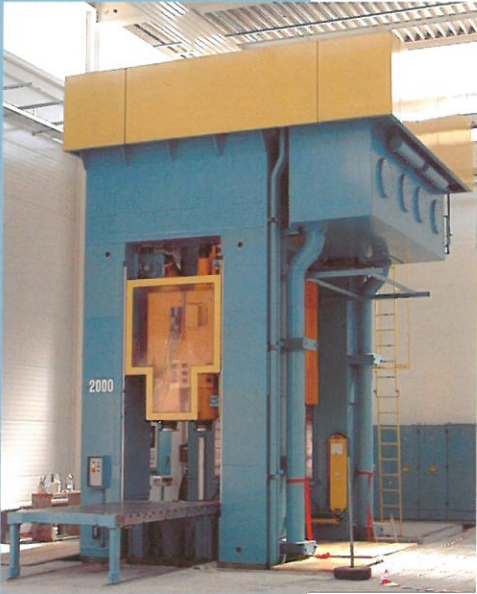
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**FRANKE**

- **Axis of rotation** for handling of tubing:  
D = 350 mm and L=2500 mm
- Infinitely variable gumption jerk  
adjustment 500–4000 bar
- Infinitely variable dosage program and pressure control
- 3D-programming and **simulator routine Toplas-3D**
- **CNC Sinumerik 840D**
- Data import over DXF, IGES and step file



# Deep draw press SMG 2000 tonnes



## Technical data:

Pressing power: 20'000 kN

Drive: 1'200 mm

Die cushion drive: 250 mm

Table size:

2'500 x 2'000 x 800 mm



## Turbine housing

Hastelloy-X, 9.5 mm, D = 810 mm



## Elbow-duct

Inconel 718, 0.6 mm, 200 x 300 mm

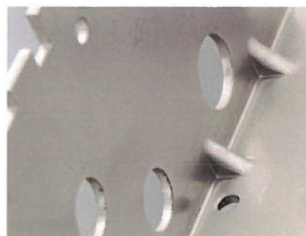
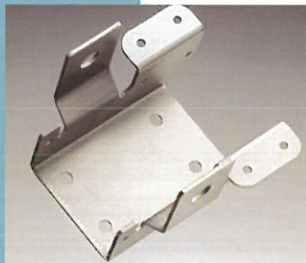
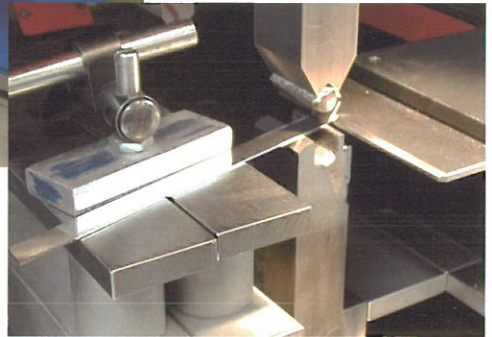
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# Forming centre PWS 640 CNC

## Precision tool system

- 3D-CAM Software Solide Edge
- 2D-CAM FabriWIN software





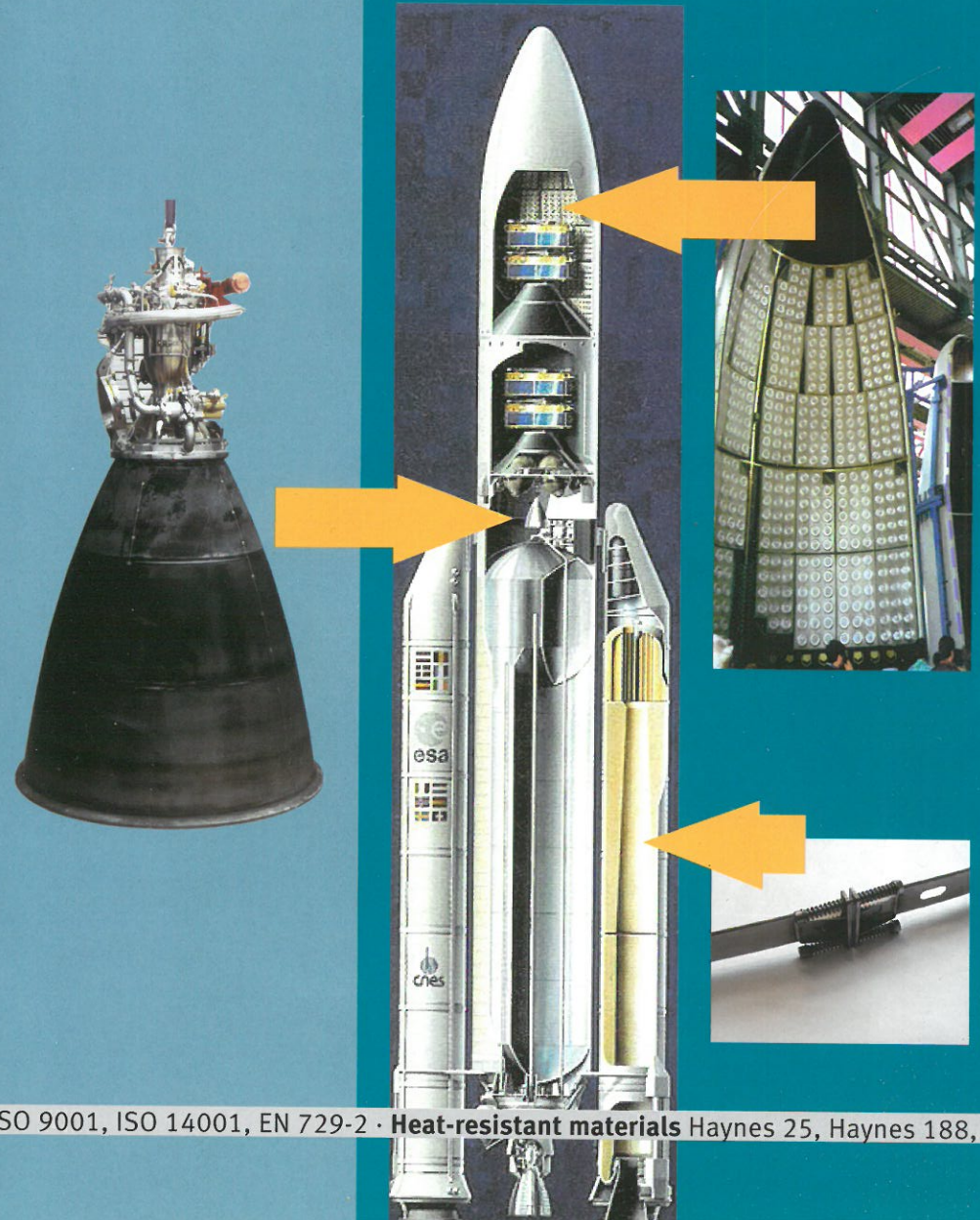
# Gas Turbines

Franke Industrie AG supplies engine ready  
"Hot Gas Path Parts"



# Space

Franke Industrie AG supplies components for  
extreme conditions in space flight





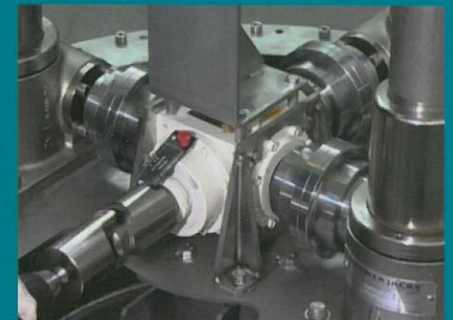
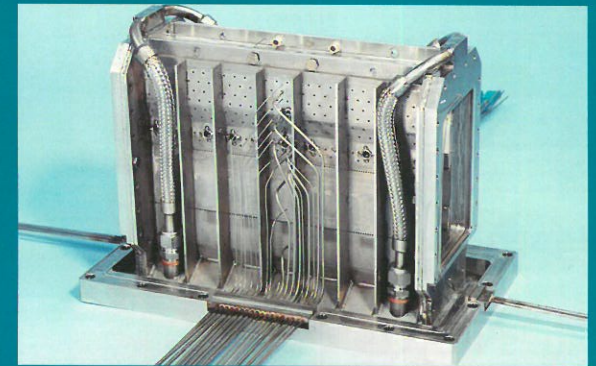
# Aerospace

Franke Industrie AG supplies parts for the aircraft and aeroengine industry



# Prototyping

Franke Industrie AG creates engine ready components in close collaboration with its partners





# Certificate of Approval

No. 0000

This certificate has been issued to:

Frank Ankester (IG)  
CIT-W&F Aulberg, Doylbackswiese 7  
44139 Essen, Germany

It is issued for the following areas:

- Design
- Production
- Performance
- Reliability
- Safety
- Environmental Compliance

Project: Turbine Case for Trent 900, Trent and CRJ900

Issue date: 27 Nov 2007      Expiry date: 26 Aug 2010

*[Signature]*  
 Frank Ankester (IG)  
 CIT-W&F Aulberg, Doylbackswiese 7  
 44139 Essen, Germany

*[Signature]*  
 J. Wöge  
 J. Wöge  
 CIT-W&F Aulberg, Doylbackswiese 7  
 44139 Essen, Germany

This certificate is valid for the following areas only: 1/1

**DRESSER-RAND**  
TURBO PRODUCTS DIVISION

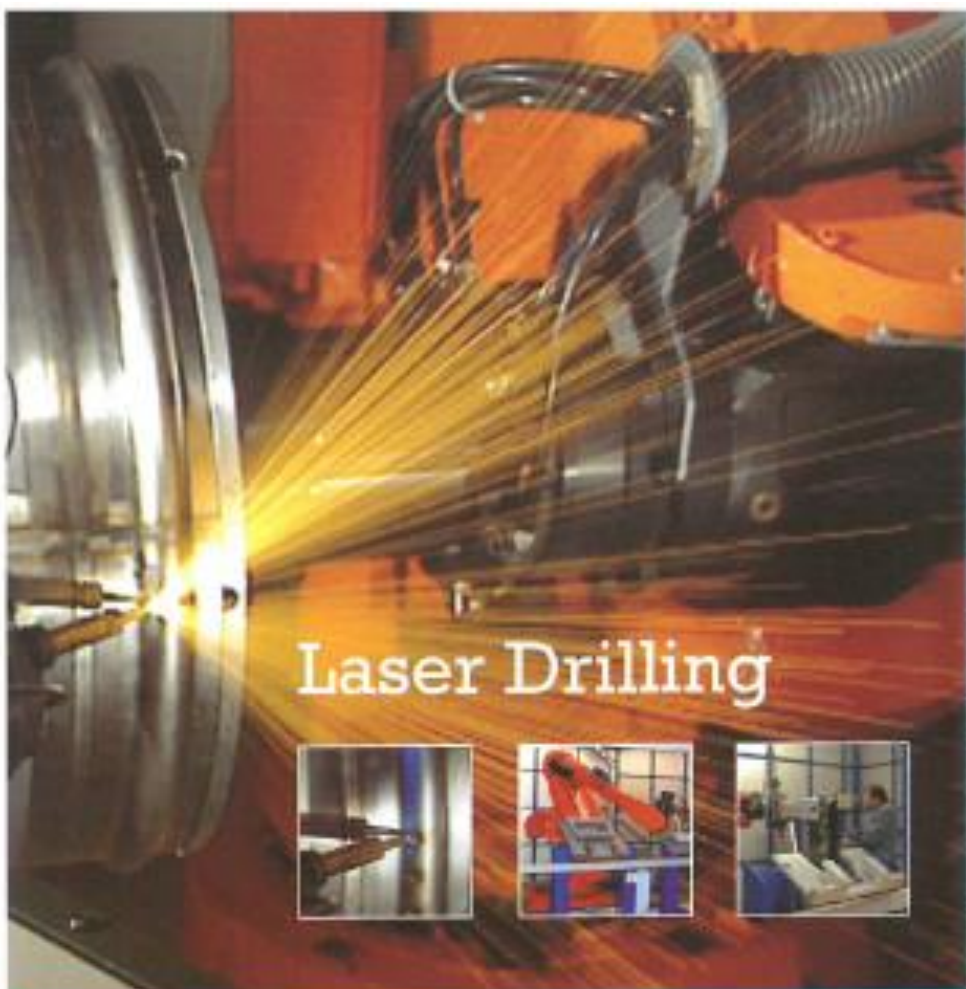


Rolls-Royce



Techspace Aero  
snecma group

EADS



## Laser Drilling



## Water Jet Machining

