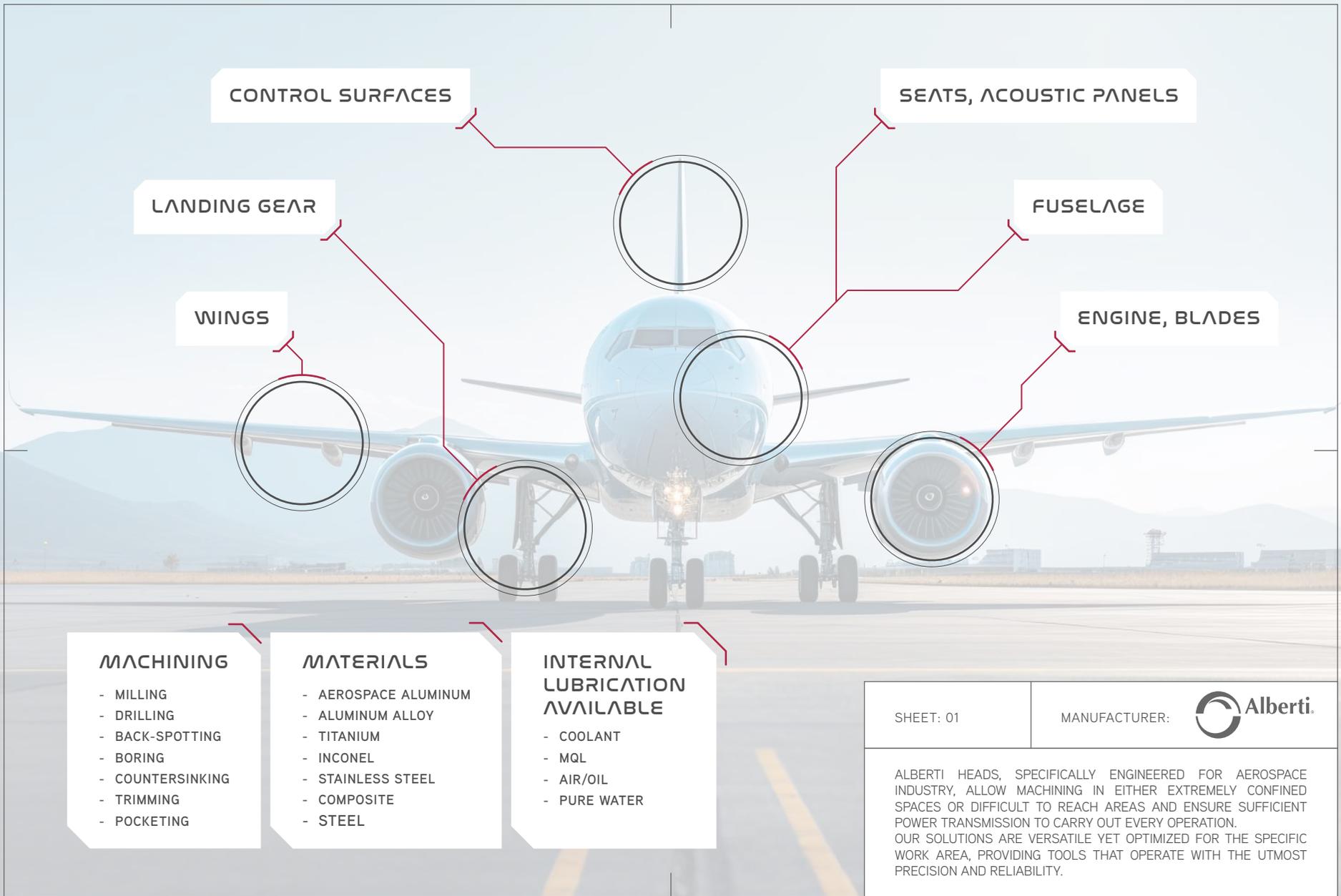




# AEROSPACE SOLUTIONS

ALBERTI SOLUTION FOR AEROSPACE APPLICATIONS





**CONTROL SURFACES**

**SEATS, ACOUSTIC PANELS**

**LANDING GEAR**

**FUSELAGE**

**WINGS**

**ENGINE, BLADES**

**MACHINING**

- MILLING
- DRILLING
- BACK-SPOTTING
- BORING
- COUNTERSINKING
- TRIMMING
- POCKETING

**MATERIALS**

- AEROSPACE ALUMINUM
- ALUMINUM ALLOY
- TITANIUM
- INCONEL
- STAINLESS STEEL
- COMPOSITE
- STEEL

**INTERNAL LUBRICATION AVAILABLE**

- COOLANT
- MQL
- AIR/OIL
- PURE WATER

SHEET: 01

MANUFACTURER: 

ALBERTI HEADS, SPECIFICALLY ENGINEERED FOR AEROSPACE INDUSTRY, ALLOW MACHINING IN EITHER EXTREMELY CONFINED SPACES OR DIFFICULT TO REACH AREAS AND ENSURE SUFFICIENT POWER TRANSMISSION TO CARRY OUT EVERY OPERATION. OUR SOLUTIONS ARE VERSATILE YET OPTIMIZED FOR THE SPECIFIC WORK AREA, PROVIDING TOOLS THAT OPERATE WITH THE UTMOST PRECISION AND RELIABILITY.

## RIVETTING HOLDER



Ratio  
1:1



Weight  
5 kg



RPM  
8.000 min



Collet  
Weldon D=12  
(ø max. 12mm)



Max. axial load  
480 N



## ULTRASLIM line TR90cn - 0.25DH



Ratio  
1:4 SPEEDER



Torque  
4 Nm



RPM (DRY Running)  
10.000 min (6.000)



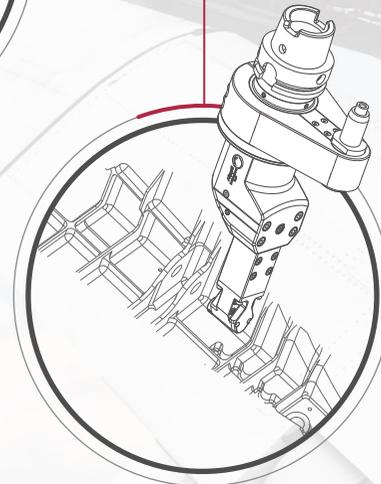
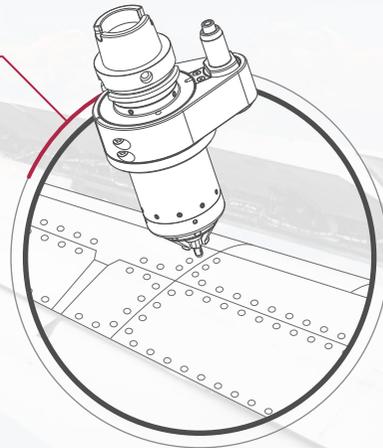
Weight  
7.3 kg



Max. axial load  
150 N



Collet  
WELDON  
4mm/5mm M4



SHEET: 02

MANUFACTURER:



MACHINING: PILOT HOLES / COUNTERSINKING

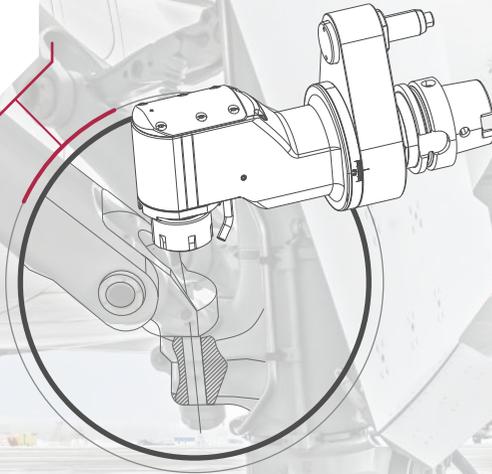
MATERIAL: ALUMINUM

SERIES: RIVETTING HOLDER / ULTRASLIM

## THRcn - 3.5 Neo internal coolant



-  Ratio  
1:1
-  Torque  
70 Nm
-  RPM (DRY Running)  
8.000 min (6.000)
-  Weight  
11.5 kg
-  Max. axial load  
1250 N
-  Collet  
ER-32  
(ø 2/20mm)



## TR90cn - 2.5 Neo



-  Ratio  
1:1
-  Torque  
30 Nm
-  RPM  
6.000
-  Weight  
6.5 kg
-  Max. axial load  
510 N
-  Collet  
ERAX-25  
(ø 1/16mm)

SHEET: 03

MANUFACTURER:  **Alberti.**

MACHINING: LANDING GEAR - DOOR FRAMES

MATERIAL: TITANIUM - ALUMINIUM

SERIES: THR - TR90 OFFSET HEADS

### T90 - 3.5 Neo

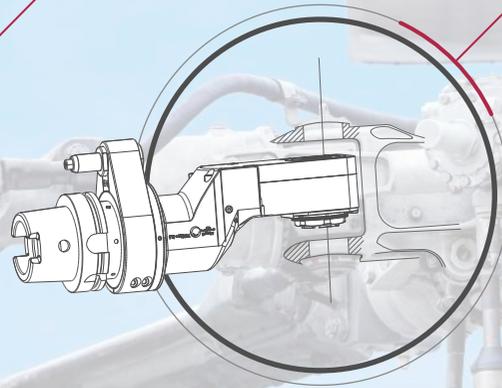
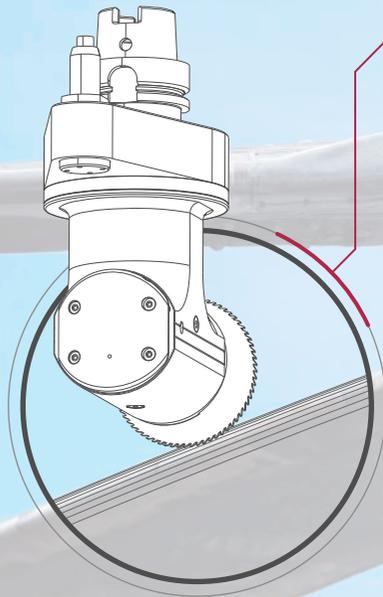


-  Ratio  
1:1
-  Torque  
70 Nm
-  RPM  
5.000 min<sup>-1</sup>
-  Weight  
11 kg
-  Max. axial load  
1.250 N
-  Collet  
ER-32  
(ø 2/20mm)

### TR90cn - 1.5



-  Ratio  
1,3:1 SPEEDER
-  Torque  
15 Nm
-  RPM  
8.000 min<sup>-1</sup> OUTPUT
-  Weight  
7 kg
-  Max. axial load  
450 N
-  Collet  
ERAX-16  
(ø 1/10mm)



SHEET: 04

MANUFACTURER:  Alberti.

MACHINING: TRIMMING - DRILLING + BORING

MATERIAL: COMPOSITE - TITANIUM

SERIES: T90 - TR90 OFFSET HEAD

## T90 - 4.5 L



Ratio  
1:1



Torque  
120 Nm



RPM  
4.000 min



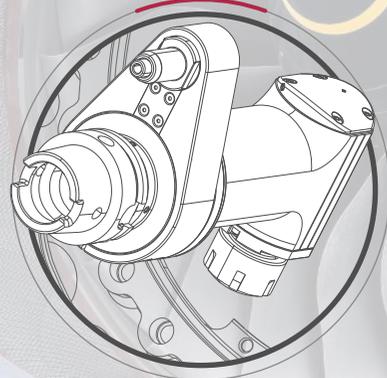
Weight  
20 kg



Max. axial load  
1750 N



Collet  
ER-40



## Tr90cn - 0.5



Ratio  
1:2 SPEEDER



Torque  
10 Nm



RPM  
8.000



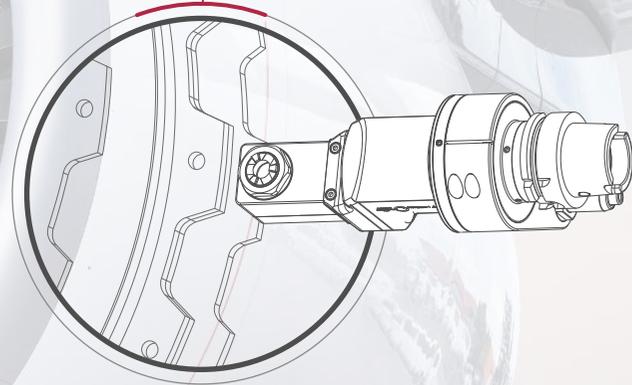
Weight  
6 kg



Max. axial load  
200 N



Collet  
ER-AX 11



SHEET: 05

MANUFACTURER:



MACHINING: MILLING - DRILLING

MATERIAL: INCONEL

SERIES: T90 - 4.5 / TR90 OFFSET HEADS

## TR90cn - 0.5 Neo DUAL OUT + EXTENSION



- Ratio  
1:2 SPEEDER
- Torque  
10 Nm
- RPM  
8.000 min<sup>-1</sup> OUTPUT
- Weight  
5.6 kg
- Max. axial load  
200 N
- Collet  
ERAX-11  
(ø 0,5/7mm)

## TURBOFLEX AIR DRIVEN

- Ratio  
1:1
- Weight  
4 kg
- Air motor  
30.000 RPM
- Collet  
6mm
- Pressure Max  
6 BAR
- Possibility of  
90° spindle



## SLIM LINE + IC - 300

- Rt. reduction  
3/4
- RPM max. input  
15.000
- Weight  
3 kg



SHEET: 06

MANUFACTURER: Alberti.

MACHINING: --

MATERIAL: --

SERIES: --

## INDEX HEAD SELF INDEXING HEAD



Ratio  
1:1



Weight  
up to 12 kg

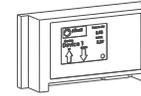


RPM  
up to 10.000 RPM



Collet  
up to ER-16

## CONTROLLER UNIT BOX



Connected to head  
(wireless) and to the  
machine via cable

AUTO-INDEXING MODULE ACTIVATED  
BY 6 BAR AIR THROUGH THE INPUT  
SPINDLE OR THE REFERENCE PIN

NEW INTEGRATED SENSOR IN THE HEAD  
COMMUNICATING WITH A CONTROL UNIT  
BOX. THE SYSTEM MONITORS THE  
INDEXING STATUS AND SEND  
SIGNALS/ALARM TO THE MACHINE

VISUAL DISPLAY TO CHECK  
CORRECT POSITIONING OF  
THE INTERNAL COMPONENTS

POSSIBILITY OF INTERNAL  
COOLANT MAX 100 BAR

SHEET: 07

MANUFACTURER:



MACHINING: ANY MACHINING AROUND 360°

MATERIAL: ALL MATERIALS

SERIES: INDEX HEAD



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