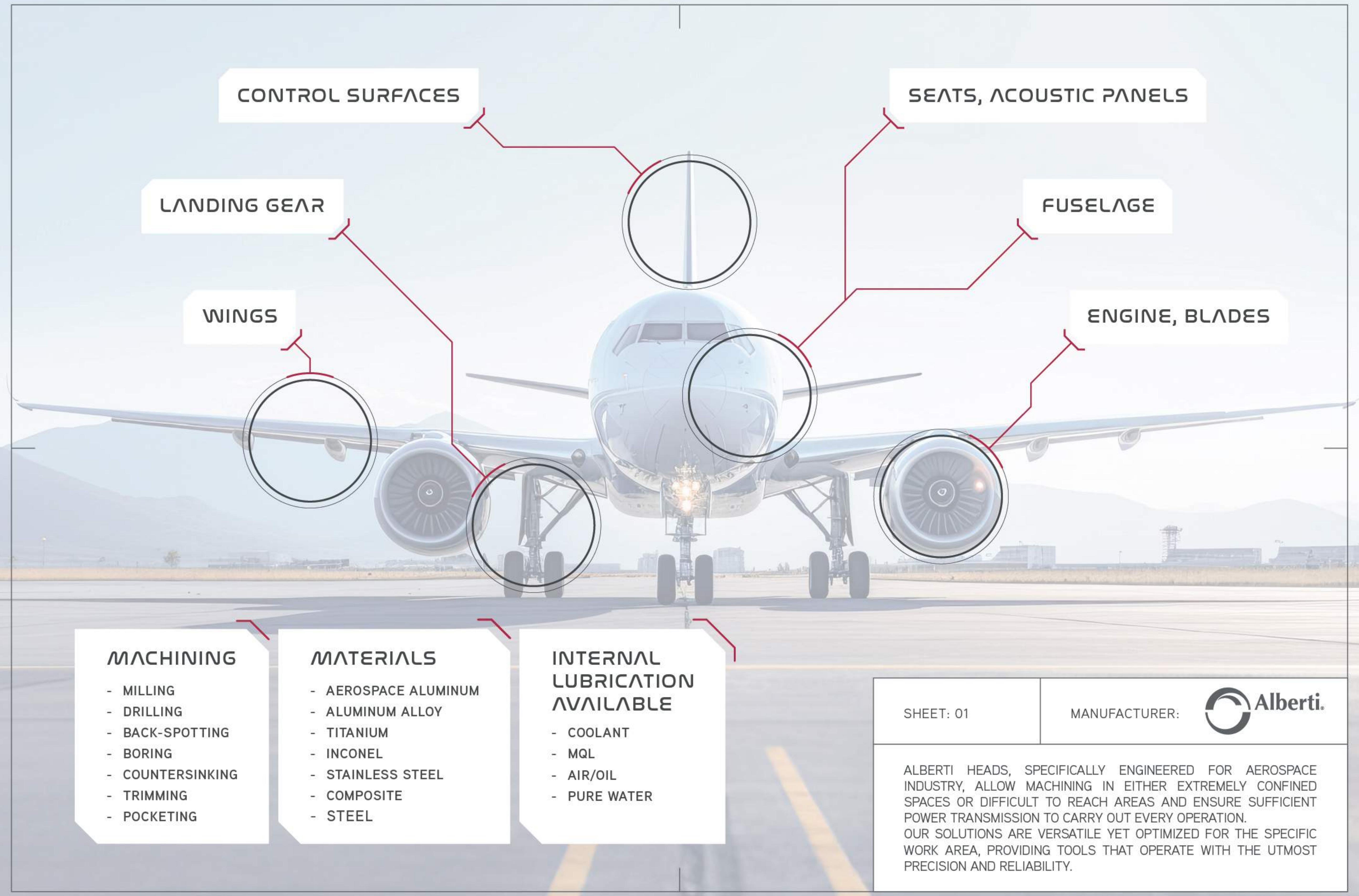




AEROSPACE SOLUTIONS

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.



FLIGHT LOG

RIVETTING HOLDER



Ratio
1:1



Weight
5 kg



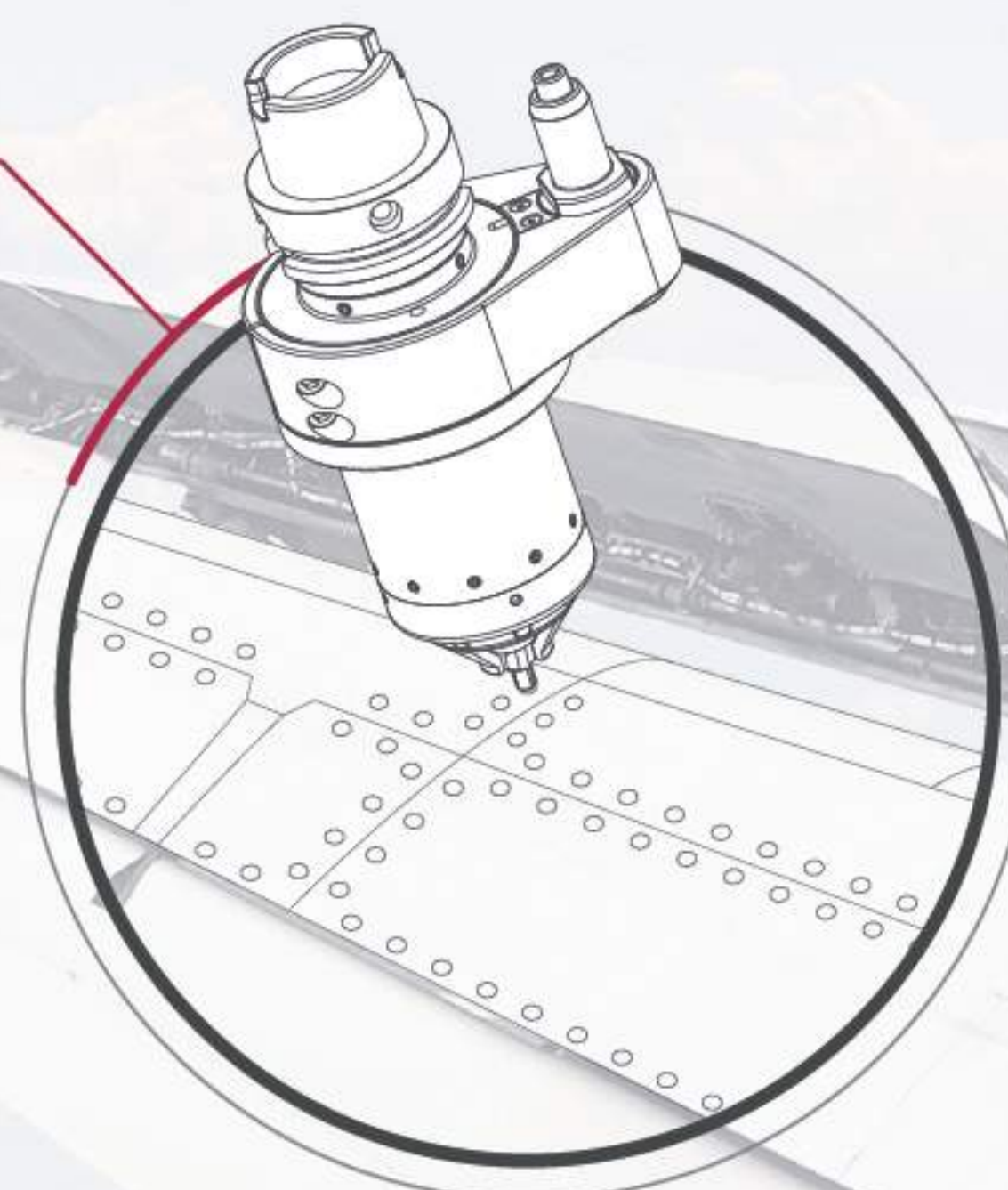
RPM
8.000 min



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)



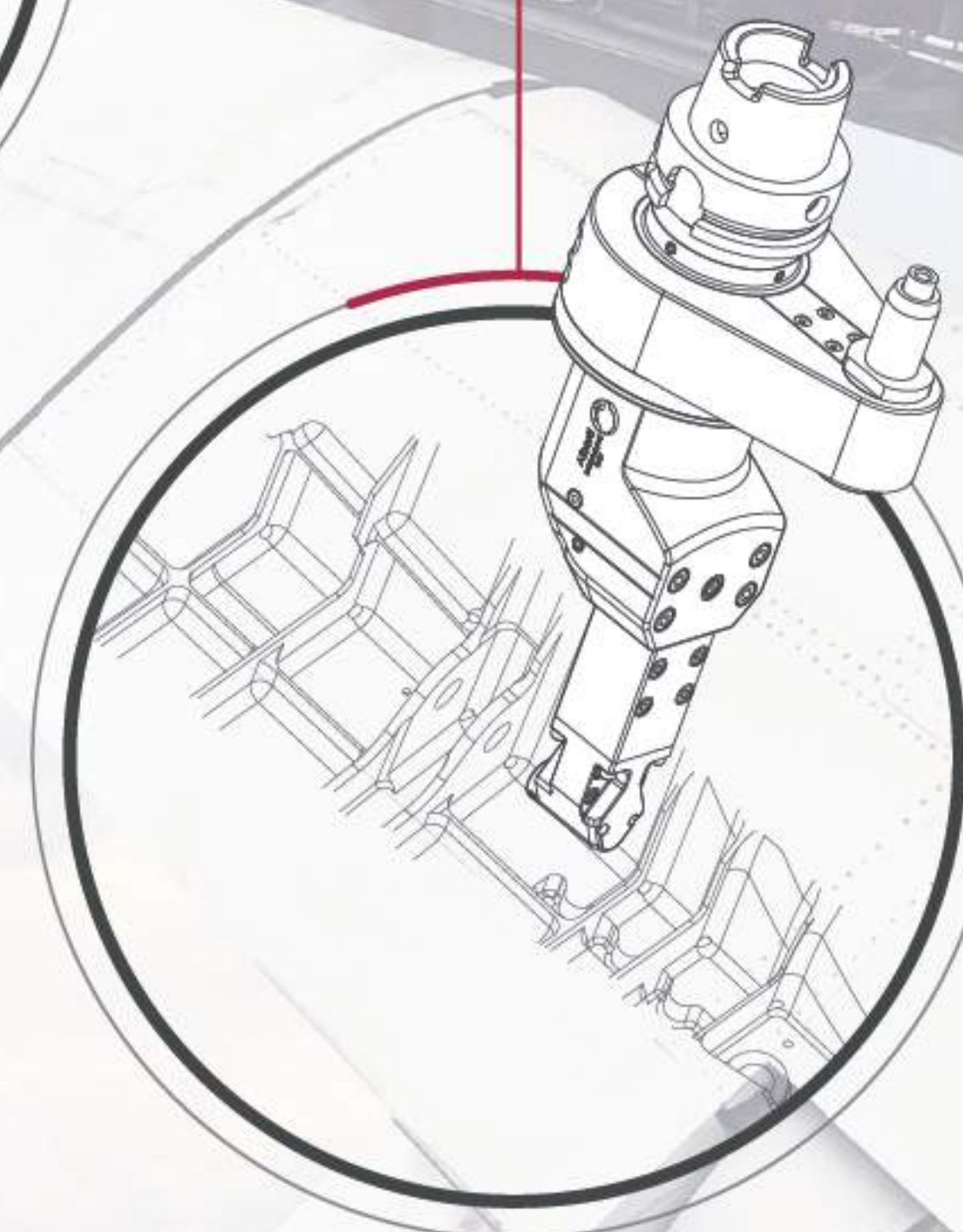
Weight
7.3 kg



Max. axial load
150 N



Collet
WELDON
4mm/5mm M4



SHEET: 02

MANUFACTURER:



MACHINING: PILOT HOLES / COUNTERSINKING

MATERIAL: ALUMINUM

SERIES: RIVETTING HOLDER / ULTRASLIM

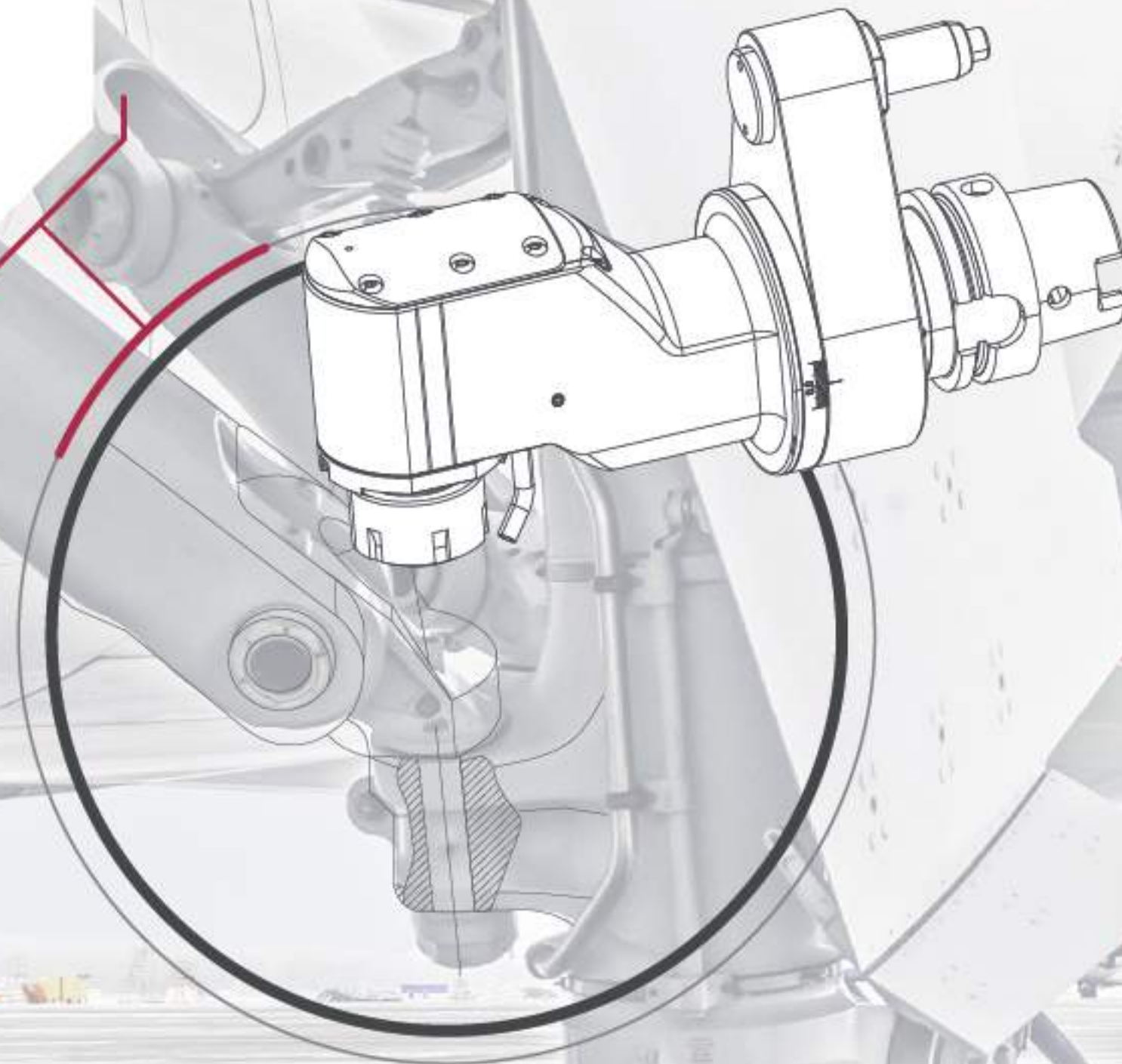


FLIGHT LOG

THRcn - 3.5 Neo internal coolant



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



TR90cn - 2.5 Neo



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

SHEET: 03

MANUFACTURER:  **Alberti.**

MACHINING: LANDING GEAR - DOOR FRAMES

MATERIAL: TITANIUM - ALUMINIUM

SERIES: THR - TR90 OFFSET HEADS

T90 - 3.5 Neo

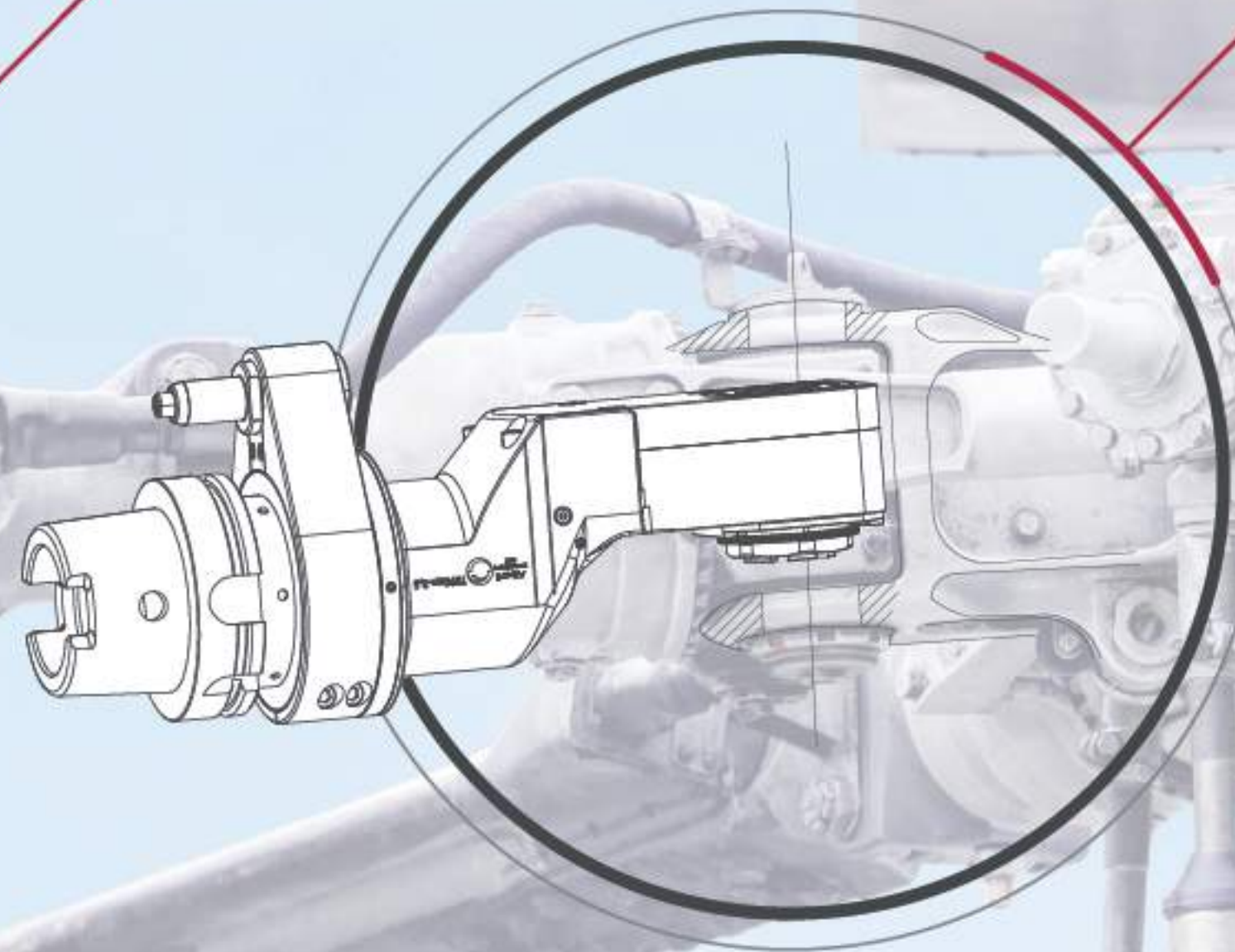
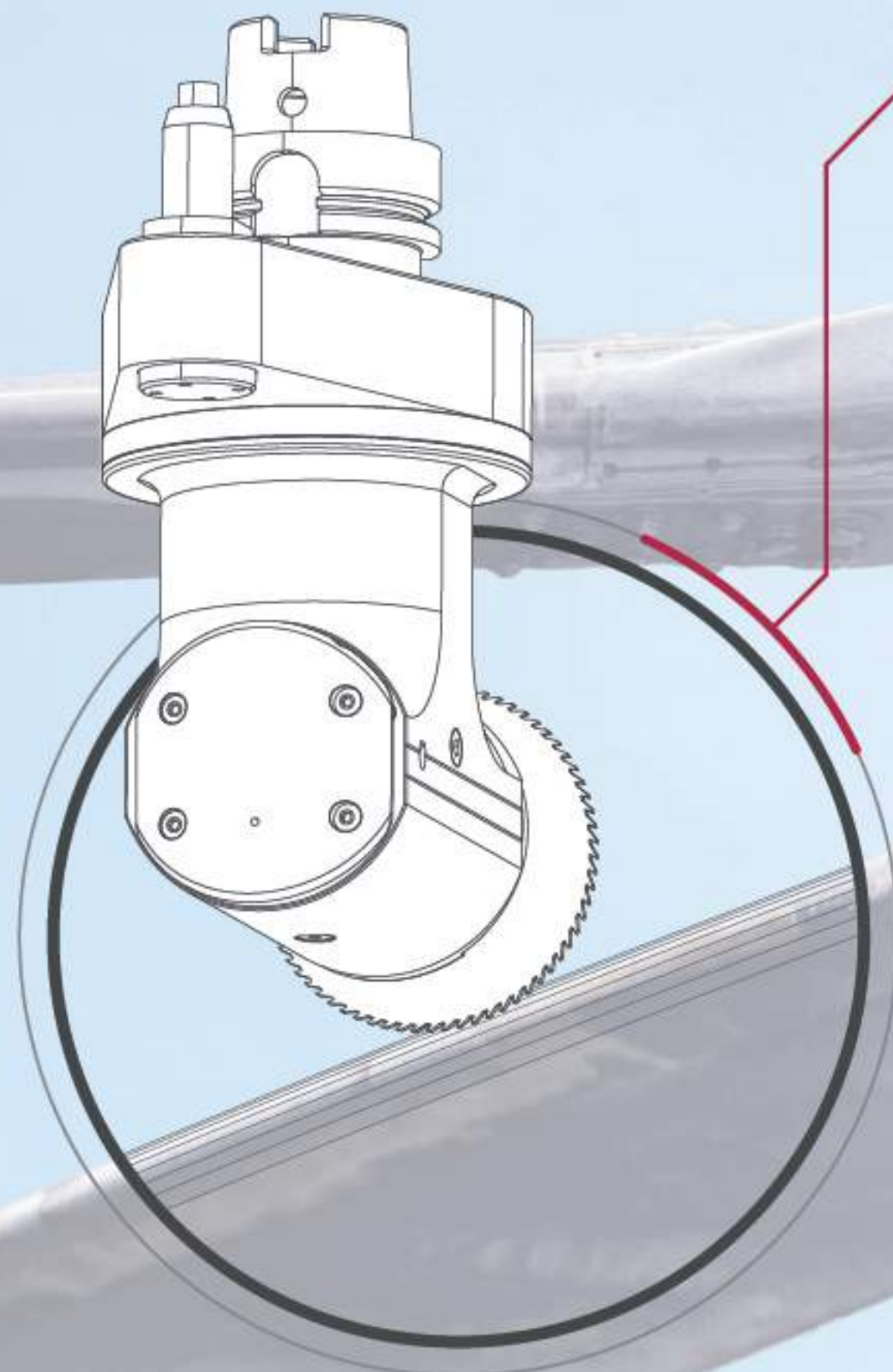


- Ratio 1:1
- Torque 70 Nm
- RPM 5.000 min⁻¹
- Weight 11 kg
- Max. axial load 1.250 N
- Collet ER-32 (ø 2/20mm)

TR90cn - 1.5



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



SHEET: 04

MANUFACTURER:



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



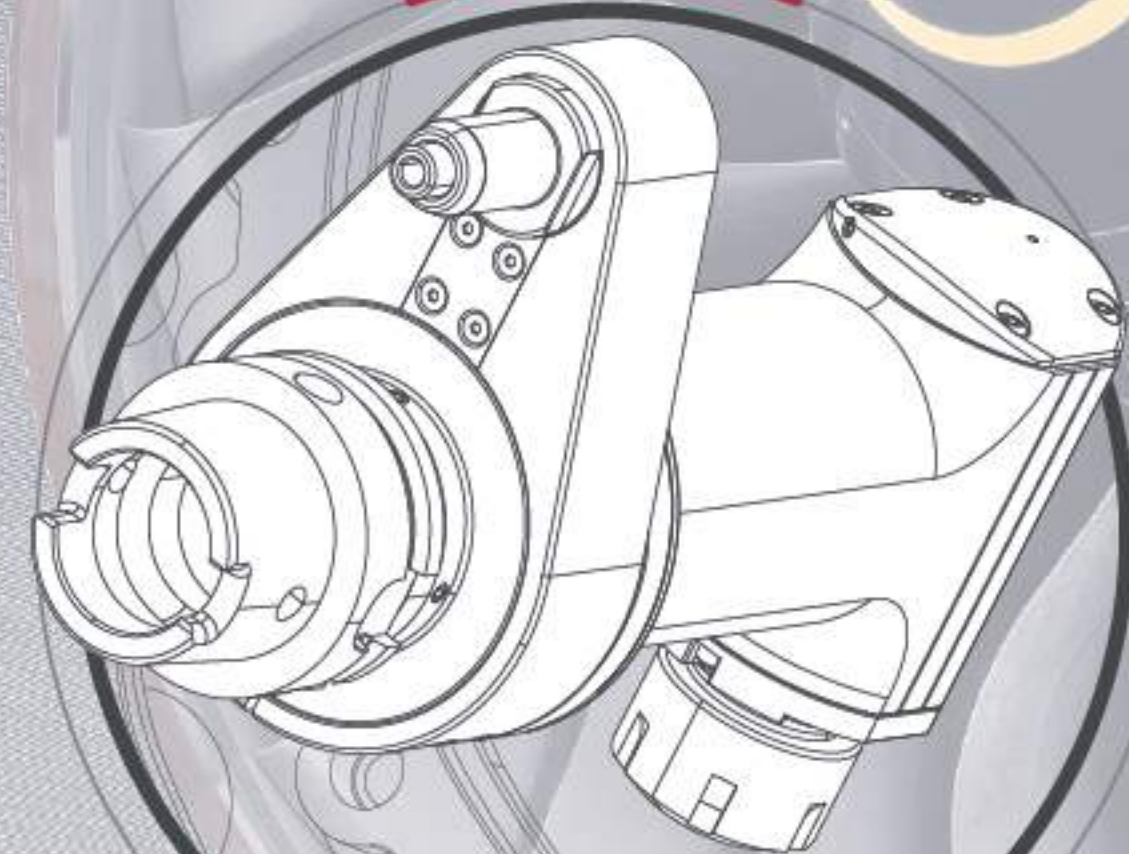
Weight
20 kg



Max. axial load
1750 N



Collet
ER-40



Tr90cn - 0.5



Ratio
1:2 SPEEDER



Torque
10 Nm



RPM
8.000



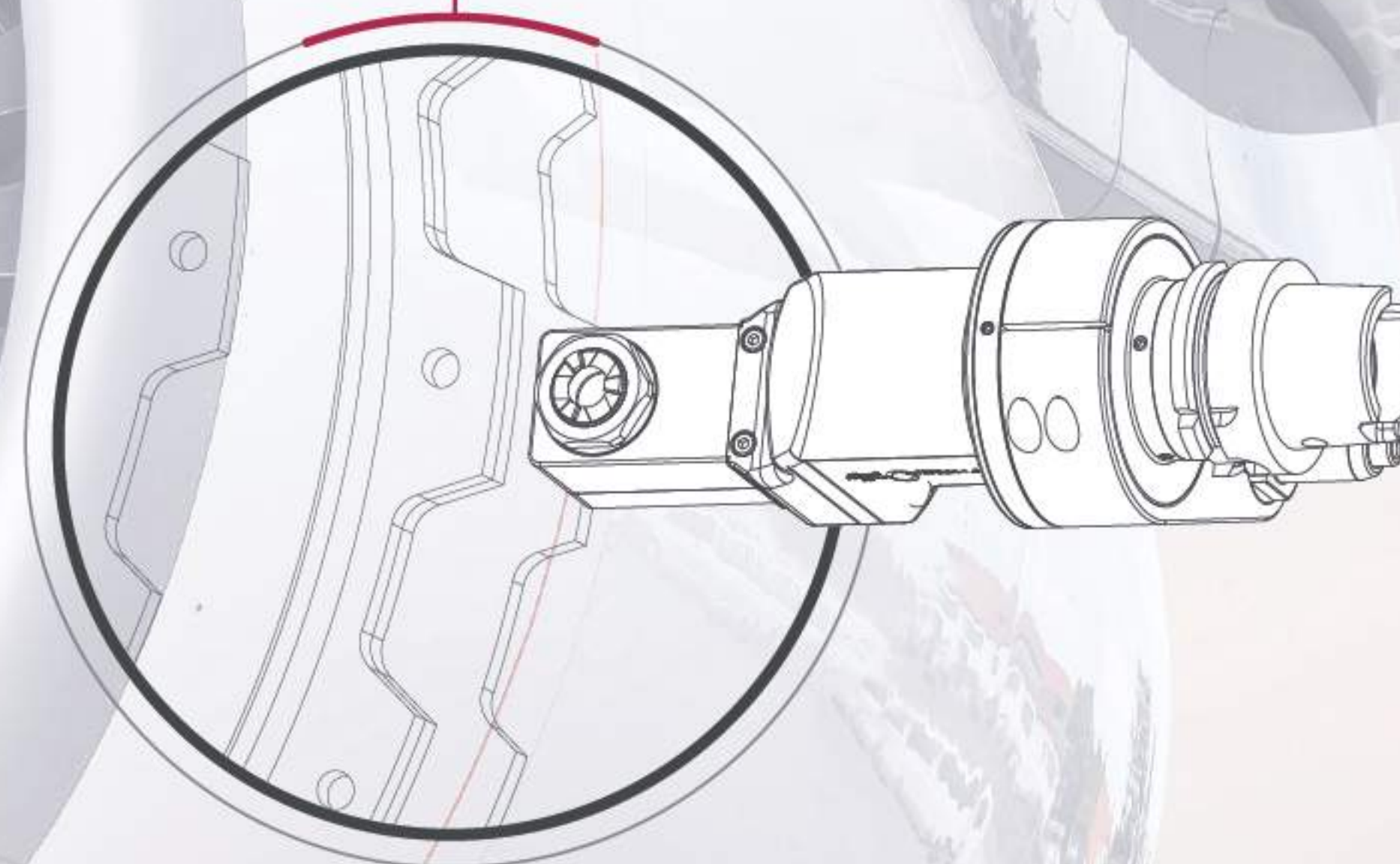
Weight
6 kg



Max. axial load
200 N



Collet
ER-AX 11



SHEET: 05

MANUFACTURER:



MACHINING: MILLING - DRILLING

MATERIAL: INCONEL

SERIES: T90 - 4.5 / TR90 OFFSET HEADS



FLIGHT LOG

TR90cn - 0.5 Neo DUAL OUT + EXTENSION

-  Ratio
1:2 SPEEDER
-  Torque
10 Nm
-  RPM
8.000 min⁻¹ 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: --



FLIGHT LOG

INDEX HEAD SELF INDEXING HEAD



Ratio
1:1



Weight
up to 12 kg



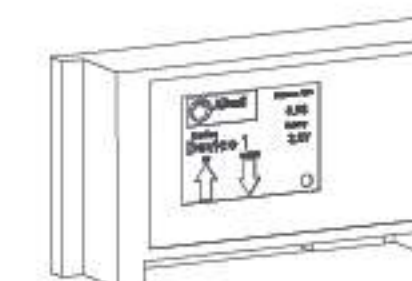
RPM
up to 10.000 RPM



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

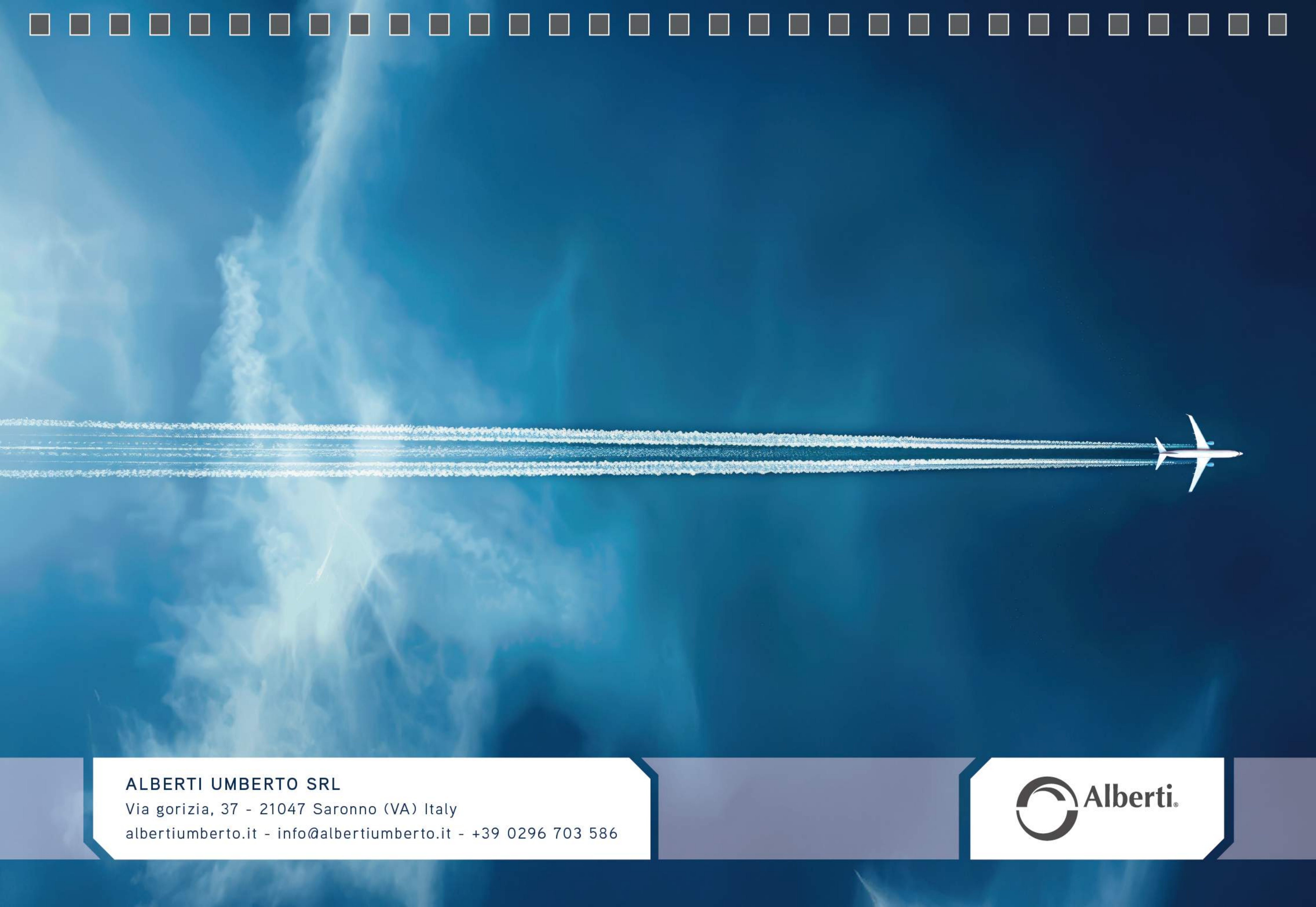
SERIES: INDEX HEAD



FLIGHT LOG



FLIGHT LOG



ALBERTI UMBERTO SRL

Via gorizia, 37 - 21047 Saronno (VA) Italy

albertiumberto.it - info@albertiumberto.it - +39 0296 703 586

