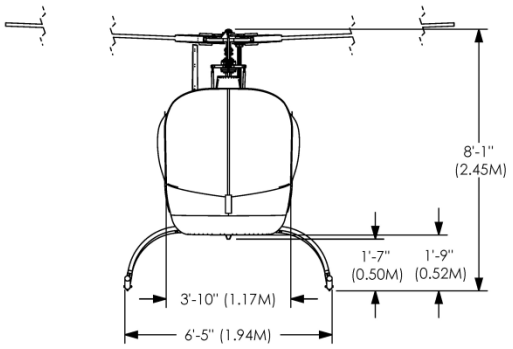
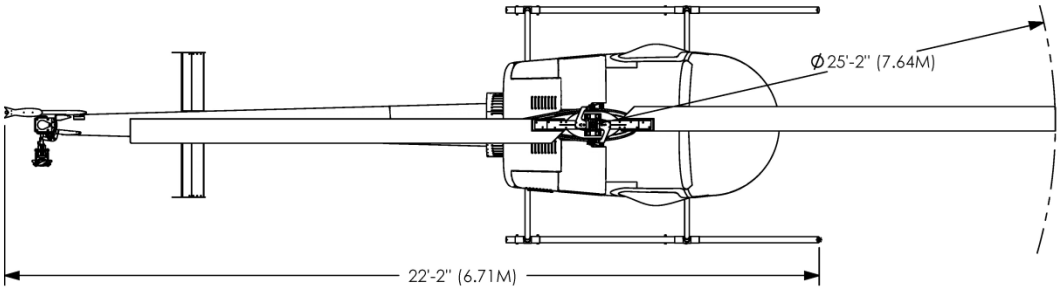
Hélicoptère Multi-Tech

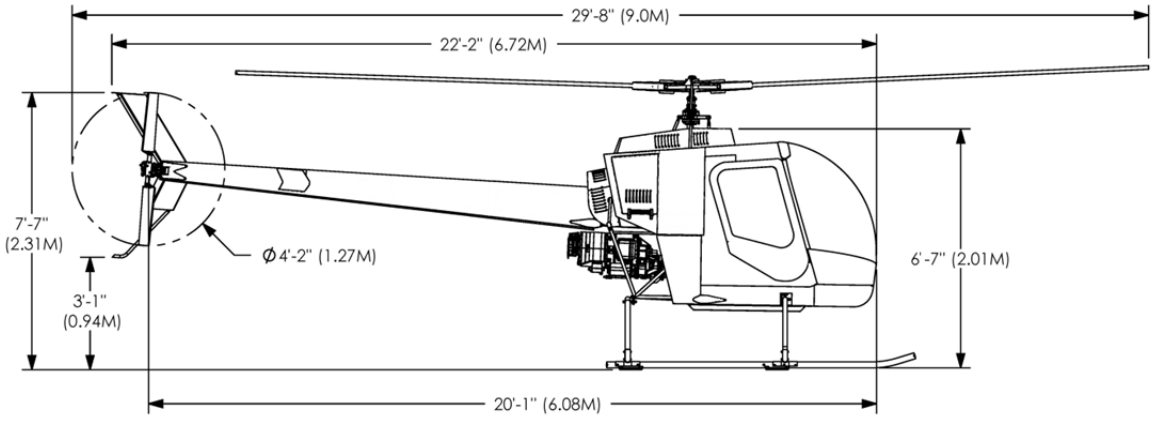
DRAGONFLY JBIII HELICOPTER

HÉLICOPTÈRE MULTI-TECH
420, 8th AVENUE
DOLBEAU-MISTASSINI, Qc
G8L 3M9
418-276-4436

DRAGONFLY JBIII DIMENSIONS







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DRAGONFLY JBIII SPECIFICATIONS

Parameter, helicopter weight	Imperial	Metric
Empty Weight, lb (kg)	956	(434)
Maximum Gross Weight, lb (kg)	1540	(699)
Useful Load, lb (kg)	584	(265)

Parameter, Passenger(s)	Imperial	Metric
Minimum Pilot Weight in solo, lb (kg)	150	(68)
Maximum Pilot Weight, lb (kg)	250	(113)
Maximum Passenger Weight, lb (kg)	210	(95)

Parameter, Speed	Imperial	Metric
Cruise Speed, kt (mph) [km/h]	80 (92)	[148]
Maximum Permitted Speed, (mph) [km/h]	120 (138)	[222]

Parameter, Fuel Consumption	Garrett	PBS
Maximum Endurance, hr	2.5	?
Maximum Range, nm (mi) [km]	145 (168) [270]	?
Consumption, liters/hr (US Gal/hr)	52 (14)	?

Parameter, Fuel Capacity	Imperial	Metric
Fuel Tank Capacity, liters (US Gal)	151	(40)

Parameter, Turbine Engine	Garrett	PBS
Horsepower, shp	225	240

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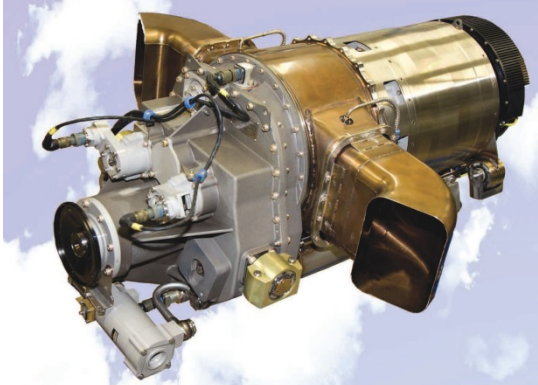
TS 100 TURBOSHAFT ENGINE

power 180 kW



- small installation dimensions, low weight and high static power
- designed for small helicopter applications
- light engine designed for experimental aircrafts, ultralights and UAV, UCAV
- gearbox design offers the possibility to install a high speed electric generator with output power 3,0 kVA
- modular conception with gas generator, power turbine and gearbox
- standard comletation: fuel-oil system, control system, ignition unit, connection cables

MAIN PARAMETERS	TS 100 ZA	TS 100 K
Output shaft speed	5978 rpm	2158 rpm
Dimensions and weight		
Weight (dry)	55 kg	59 kg
Engine length	843 mm	880 mm
Width x depth (without exhaust)	390 x 330 mm	
Applies to standard ISA		
(101. 325 kPa, t_0= 15°C, v_0= 0 km/h) Mode:	TAKE OFF / NOMINAL / CRUISING	
Output shaft power	180 kW / 160 kW / 140 kW	
Fuel consuption (SFC) kg/kW/h	0,5 / 0,51 / 0,53	
Other data		
Engine ceiling of operation	6000 m	
Engine ceiling for starting	6000 m	
Requirements		
Fuel	JET A, A1, B, TS-1, T2, RT	
Oil	according to MIL-L-23699	

AVALIABLE ACCESSORIES

fuel stop valve

booster fuel pump DC4

control panel

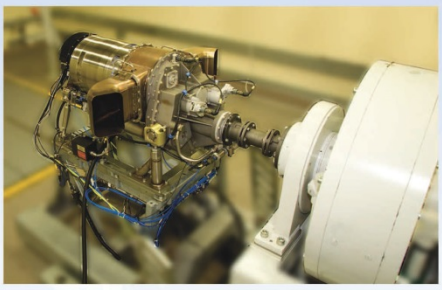
TS 100 APPLICATIONS

small helicopter

small helicopter

small helicopter

small helicopter



PBS Velká Bíteš
Specialists in Rotary Machines

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TURBINE ENGINE, ATTACHMENT POINT

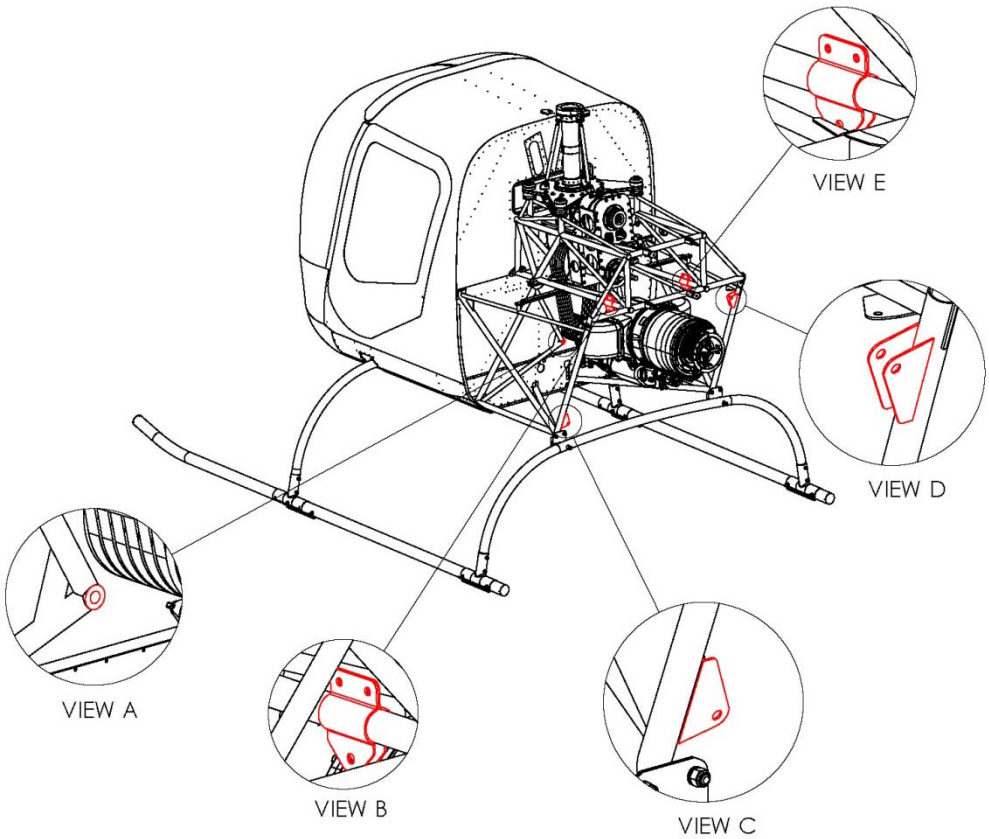
VIEW A: A MOUNTING FRAME CAN BE FIX TO THE ENGINE MOUNT AND TO THE ATTACHMENT POINT ON THE TURBINE

VIEW B: ROD END AND TURNBUCKLE FIXED TO A BRACKET ON THE TURBINE

VIEW C: ROD END AND TURNBUCKLE FIXED TO A BRACKET ON THE TURBINE

VIEW D: ROD END AND TURNBUCKLE FIXED TO A BRACKET ON THE TURBINE

VIEW E: ROD END AND TURNBUCKLE FIXED TO A BRACKET ON THE TURBINE



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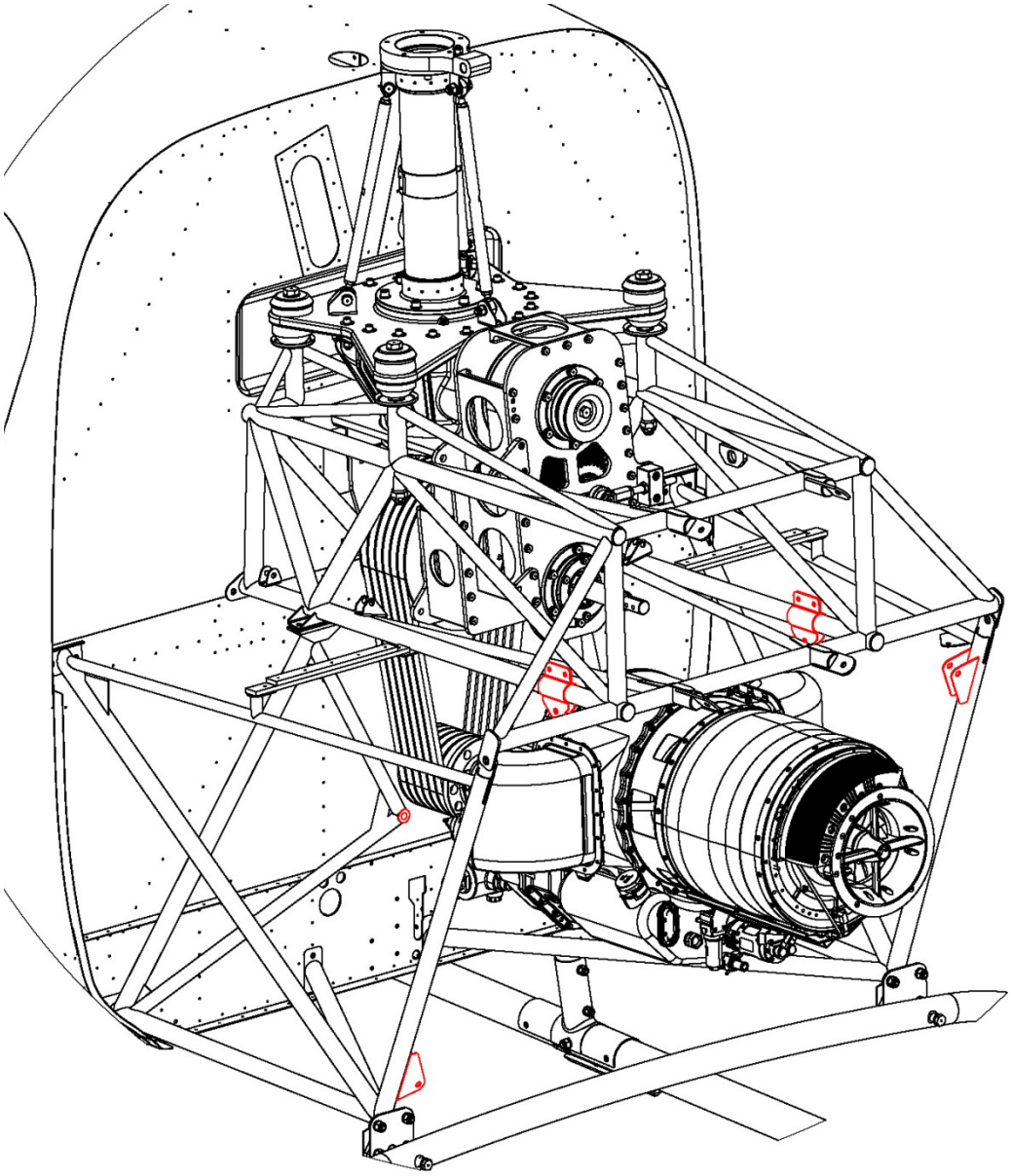

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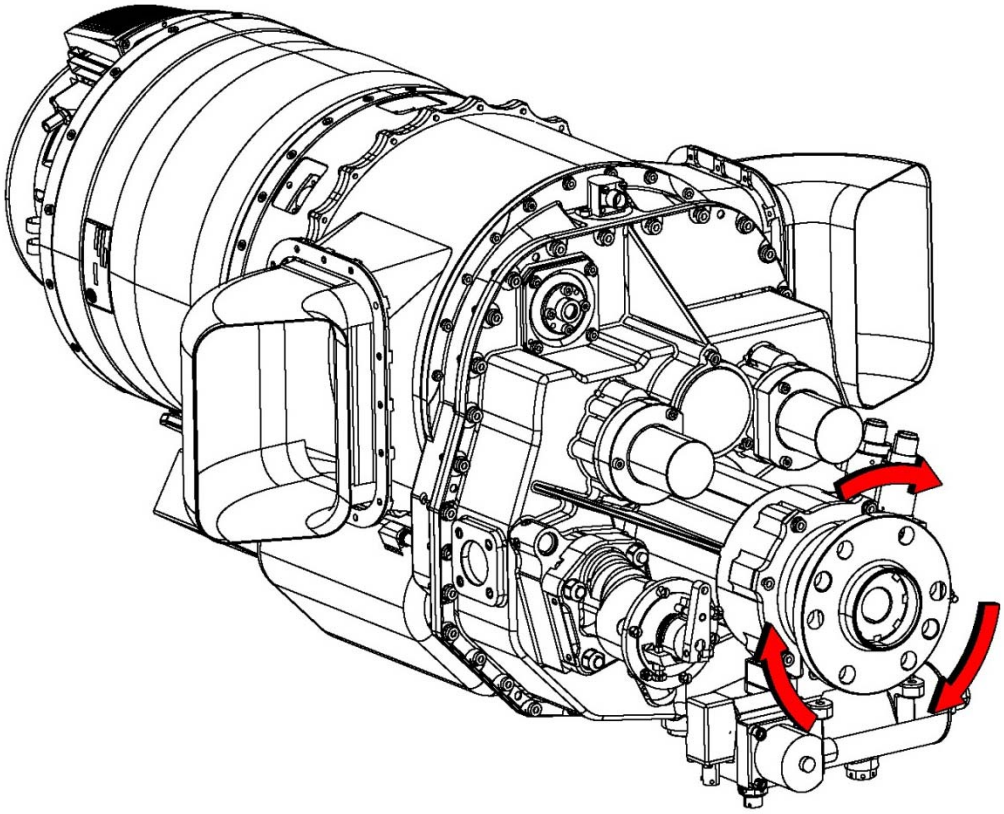
TURBINE ENGINE, OUTPUT SHAFT ROTATION

THE OUTPUT SHAFT MUST TURN CLOCKWISE



NOTE: _____

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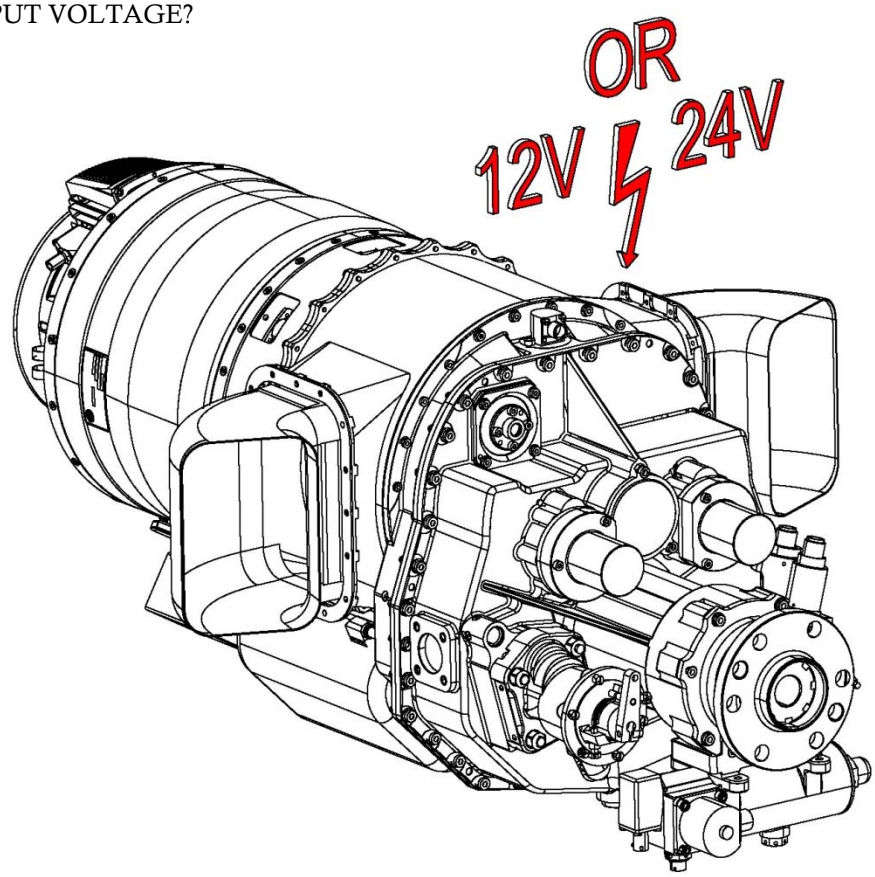
TURBINE ENGINE, VOLTAGE

WHAT IS THE INPUT VOLTAGE?



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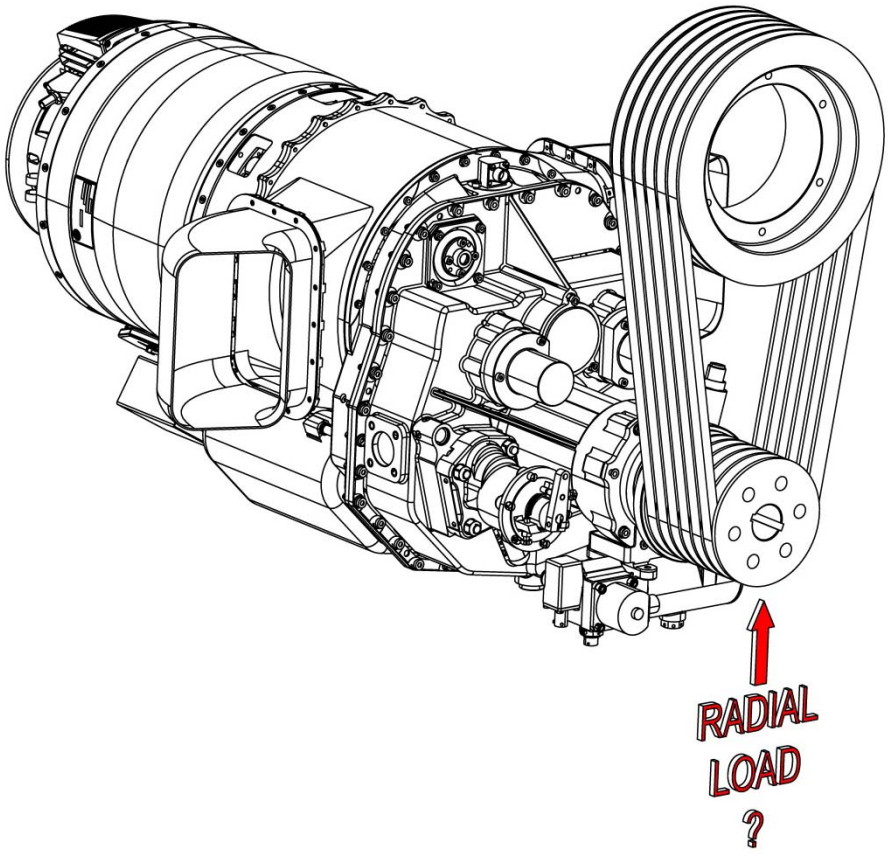
TURBINE ENGINE, AXIAL LOAD ON OUTPUT SHAFT

IS IT POSSIBLE TO APPLY A RADIAL LOAD ON THE OUTPUT SHAFT WHEN THE BELTS ARE TIGHTENED?



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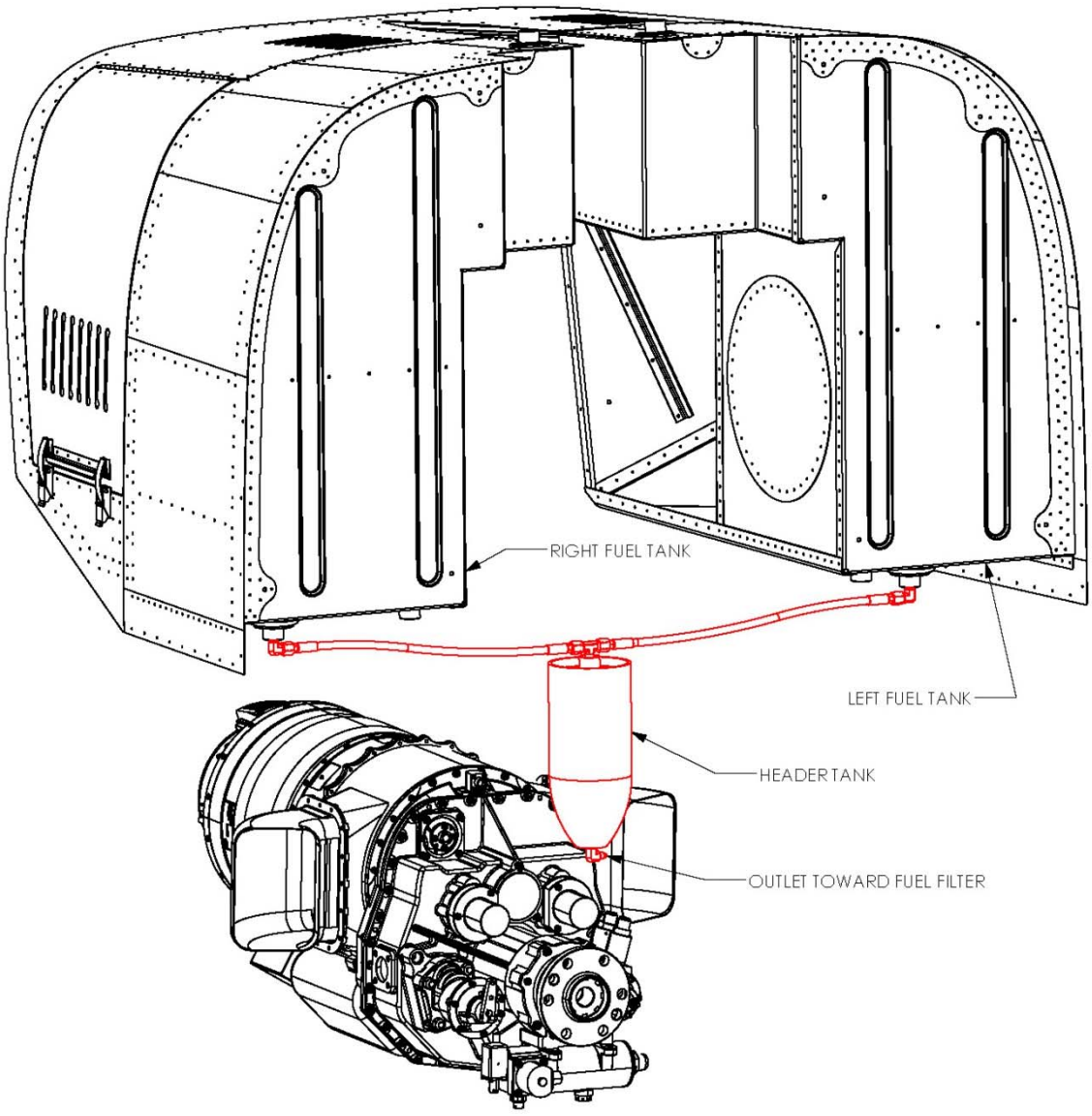
TURBINE ENGINE, FUEL ALIMENTATION



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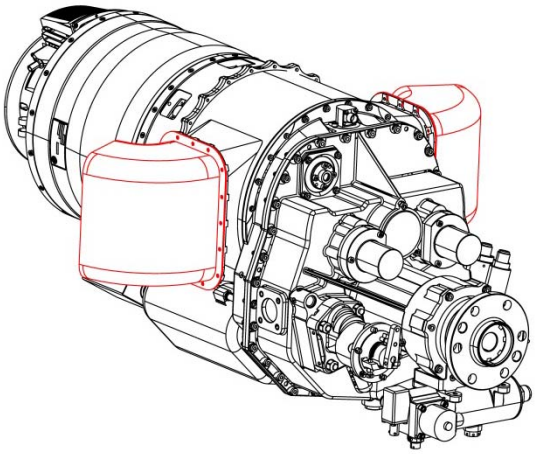
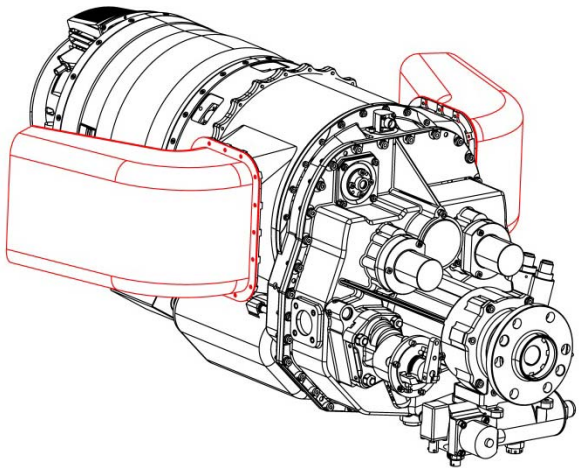
TURBINE ENGINE, EXHAUST

IS IT POSSIBLE TO TURN THE EXHAUSTS THIS WAY AND SHOULD IT BE POSSIBLE TO MAKE THEM LONGER IF NECESSARY?





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QUESTIONS

DOES THE TS 100 K MODEL HAVE BEEN TESTED ON A HELICOPTER? (FUEL CONSUMPTION)

WHICH TYPE OR MODEL OF AIR FILTER MUST BE INSTALLED WITH THE TS 100 K TURBINE?

DOES THE CONTROL PANEL IS A NECESSARY ACCESSORY OR THE TURBINE MAY BE CONTROLLED MECHANICALLY?

DOES THE TS 100 K TURBINE COMES WITH AN OIL COOLER OR WE SHOULD ADD IT TO THE SYSTEM?

QUESTIONS (SUITE)

WILL THERE BE POSSIBLE TO HAVE TRAINING MAINTENANCE OF TURBINE IN ORDER TO SERVE OUR CLIENTS?

WILL IT BE POSSIBLE TO GET A SERVICE MANUAL, MANUAL PARTS OR OTHER MANUAL OF THE TURBINE?

WHAT IS THE DELIVERY TIME FOR A TURBINE AND WHAT IS YOUR PRODUCTION CAPACITY?

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