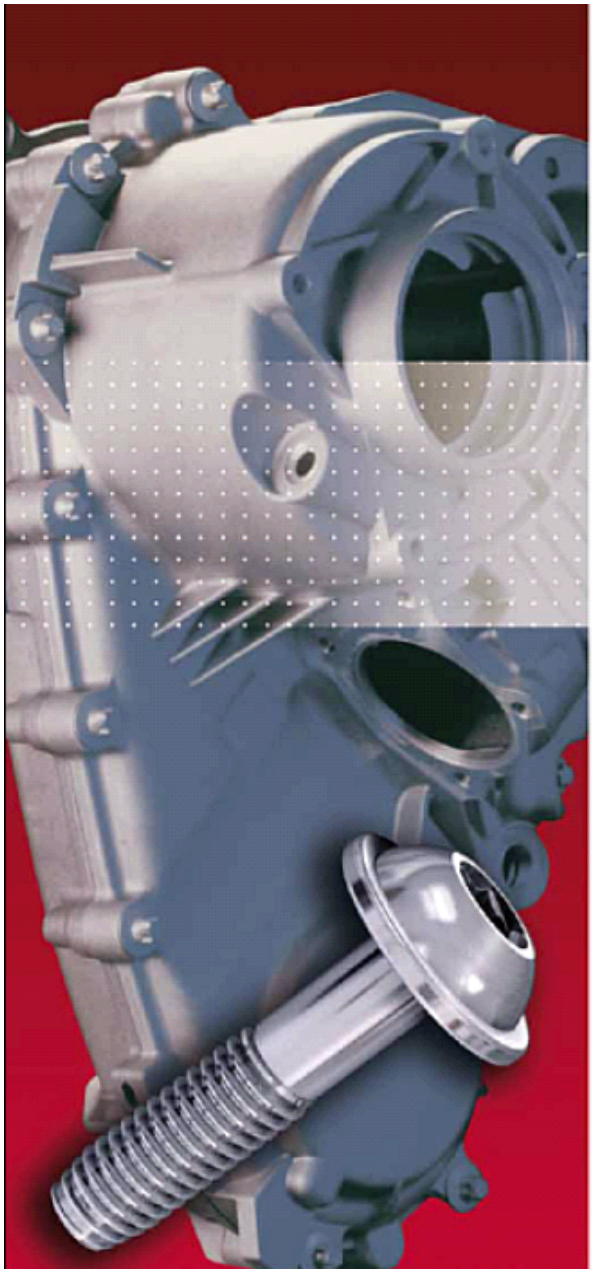


EJOT ALtracs® Plus

The Self-Tapping Fastener for Light Alloys

EJOT® The Quality Connection

EJOT Semblex

ALtra CALC

report from 29.08.2012

project	
project name	Example Report
customer	
contact person	
phone	
e-mail	

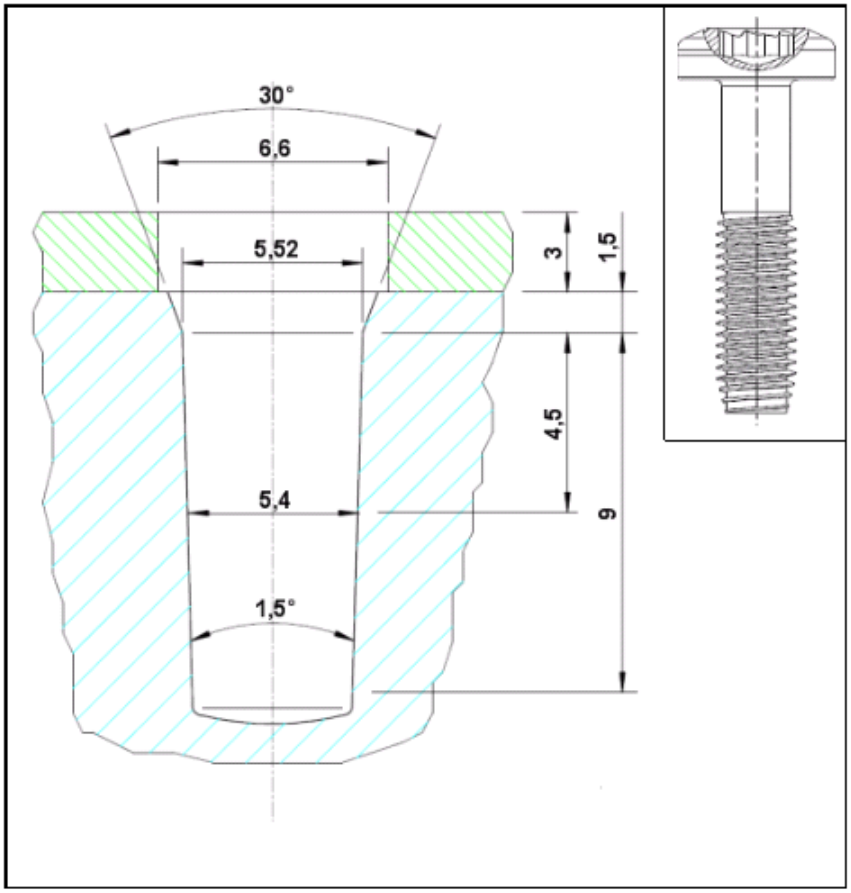
contact person	
name	
phone	
e-mail	

Warranty: Our application engineering advice and all information is provided on the basis of today's state of technology. You are receiving information on our products and their methods of application. Certain characteristics or the qualification for certain application purposes cannot be guaranteed. As there may be different fastening criteria between our laboratory tests and your serial application, we recommend to check our indications for your special application. We kindly ask you to understand that our statements are without obligation and that we cannot give a guarantee for correctness.

ALtra CALC

calculation parameters

EJOT Semblex



screw (ALtracs Plus AP 60x13,5)	
screw [material]	ALtracs Plus [AT10]
head style	WN 5152
screw surface	Zn, 8 µm - thick-film passivated
lubricant	microGleit DF 921
thread diameter [mm]	6
length [mm]	13,5
head diameter [mm]	12

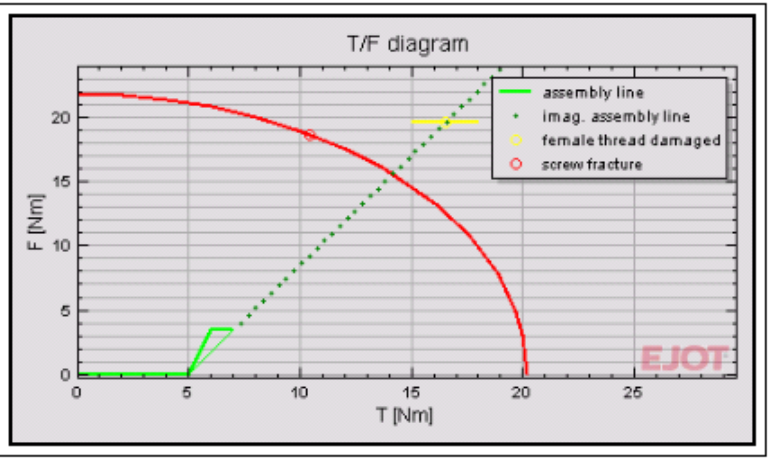
boss	
boss material	Aluminium
trade name	EN AC-46000
hardness [HB]	80
installation depth [mm]	9
draft angle [°]	1,5
average hole diameter [mm]	5,4
external boss diameter [mm]	10,8
counter-bore depth [mm]	1,5
counter-bore diameter [mm]	6,39

clamping part	
clamping part material	Aluminium
trade name	
clamp thickness [mm]	3
screw elongation length [mm]	4,5
through hole diameter [mm]	6,6

other inputs	
clamp load (Fcl) [kN]	3,4
axial operating load (Fa) [kN]	0
screwdriver tolerance [%]	10

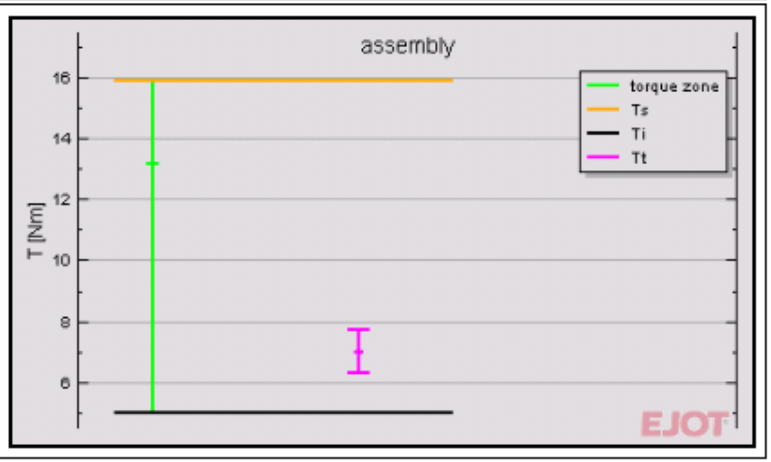
torques / forces	
installation torque (Ti) [Nm]	5
tightening torque (Tt) [Nm]	7
stripping torque (Ts) [Nm]	15,9 (SB)
clamp load at failure [kN]	18,5
pull-out load [kN]	17

(SB) = screw fracture

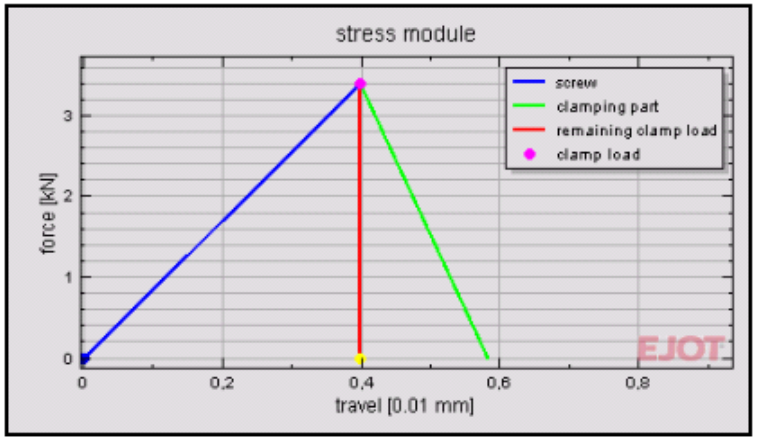


assembly	
average tightening torque (Tt) [Nm]	7 (±0,7)
average clamp load (Fv) [kN]	3,4 (±1,2)
use of torque zone [%]	18

tensions	
tension thread [N/mm²]	61 (max: 240)
tension head [N/mm²]	43 (max: 325)
tension counter-bore [N/mm²]	59 (max: 240)



stress module	
clamp load + operating load componentscrew [kN]	---
clamp load (Fcl) [kN]	3,4
remaining clamp load [kN]	3,4



messages (no warnings or errors)