



Test report

EC – Angle head screwdriver – homologation

I. Customer

Desoutter GmbH Mr. Michael Loosen Edmund-Seng-Str.3-5

D - 63477 Maintal

II. Responsible laboratory

TBB Industrial Tools Services GmbH DKD - Kalibrierlaboratorium DKD-K-41401 Bayernwerkstr.112 D – 84130 Dingolfing

III. Date of test/ location

December 2011
TBB Industrial Tools Services GmbH
D – 45141 Essen

TBB Industrial Tools Services GmbH A company of Atlas Copco Group

Bayernwerkstr. 112, D-84130 Dingolfing



IV. Testobject

Manufacturer: Desoutter
Model: EAD 32-900

MODELL	ARTIKELNUMMER	ABTRIEB	DREHMOMEN MIN. DAUER MAX.			NTBEREICH Min. Dauer Max.		DREHZAHL	LÄNGE GEWICHT				
		in.	N.m	N.m	N.m	dLft d	ft.lb	ft.lb	min-1	mm	in.	kg	lb.
EAD32-900	615 165 607 0	Sq. 3/8	5	30	32	3.7	22	24	900	481	19.2	1.4	3.1 J





V. Test condition

a. Screwdriver control

Manufacturer: Desoutter GmbH
Typ: CVI 3 Vision

Ser. Nr.: **12011000034**





CVI3 Vision

b. Test equipment

Manufacturer: BLM, Mailand (Italien)

Typ: 3860 / 3 – D

Ser.-Nr.: **3860SKY.100**Joint 3: **10-50 N·m, dynamisch**

Ser.-Nr.: **188.50.137**

D6855 W17110
DKD-K TBB-ITS
41401 GmbH
11-03 11-03

DKD stamp:

Software: QS – Torque (32 Bit)

Filterfrequency: 300 Hz







Test equipment BLM 3890 / 3-D



Mounting



c. Explanation of the test

The screwdrivers were provided for homologation test from the production line of the manufacturer.

After evaluation of a calibration value for each class within 25 joints the measurement series of 100 screws were documented without any changing of the calibration value.

From the VDI/VDE 2647 were chosen to meet the recommended break times between fastening cycles shortened following times:

 30% hard:
 4 seconds

 30% soft:
 4 seconds

 80% hard:
 15 seconds

 80% soft:
 15 seconds

 100% hard:
 30 seconds

 100% soft:
 30 seconds

d. Screwdriver control settings

Range of the screwdriver device:	5-32 N·m
Testing torque / 30%	13,1 N·m
Testing torque / 80%	26,6 N⋅m
Testing torque / 100%	32,0 N⋅m
Speed 1 step,	250 U / Min
Speed 2 step,	50 U / Min
Snug torque / 30%	6,55 N·m
Snug torque / 80%	13,3 N·m
Snug torque / 100%	16,0 N ⋅m
Shift torque / 30%	5,8 N ⋅m
Shift torque / 80%	11,9 N·m
Shift torque / 100%	14,4 N·m
Angle joint 40° fit	6,4 N·m / (19,2 N·m)
Angle joint 180° fit	6,4 N·m / (25,6 N·m)
Series	8x 100 Joint/ results



e. Temperature

Test condition	80%Md at 360°	80%Md at 30°	30%Md at 360°	30%Md at 30°	100%Md at 360°	100%Md at 30°
max. Temperatur Motor	47°	40°	41°	38°	49°	49°

VI. Comments

The testing process and statistical analysis were performed according to the currently applicable guideline VDI/VDE 2647.

The traceability of all generated static measurements and the tracebility of measuring equipment used within calibration certificates are supported by the documentary proof of the legality of those accredited by the DKD laboratory according to DIN 51309 K 41401 guarenteed.

The corresponding proofs are in this report along with all other test results.

Responsible for implementing					
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