

Cleco[®]
Production Tools

Homologation

Document no: 007/2021

CellTek[™]

Cordless Assembly Tools

Type: Cleco - CTBAW383

Order no.: CTBAW383



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Cleco - CTBAW383

Right Angle Tool

Order no.: CTBAW383



Machine type:	Cordless Assembly Tools
Torque range:	10 Nm to 38 Nm
Max speed:	395 rpm
Certified serial nos.:	GE0125, GE0127, GE0129

Contents:	Overview C_m/C_{mk} values General specifications tool and controller Power Tools Sales & Service Centers Machine capability study and graphs Measurement capability test
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Apex Tool Group
Cordless Assembly Tools

C_m / C_{mk} values achieved
According VDI/DE 2647 February 2013

Accuracy class: 7 %

Tool model	Serial nos.	Test data	30 %		80 %		100 %	
			30° ±5°	360° ±15°	30° ±5°	360° ±15°	30° ±5°	360° ±15°
CTBAW383		Break time	5 s	15 s	7 s	37 s	7 s	55 s
		Test torque	18,40 Nm		32,40 Nm		38,00 Nm	
		Speed in 1st stage	395 rpm	395 rpm	395 rpm	395 rpm	395 rpm	395 rpm
		Speed in last stage	50 rpm	50 rpm	50 rpm	50 rpm	50 rpm	50 rpm
		Angle start torque	9,20 Nm		16,20 Nm		19,00 Nm	
	GE0125	C _m	2,12	3,83	2,61	4,38	2,88	4,84
		C _{mk}	1,99	3,41	2,18	4,05	2,40	4,44
	GE0127	C _m	2,63	4,66	2,98	5,59	2,95	5,51
		C _{mk}	2,62	3,70	2,85	4,33	2,88	4,22
	GE0129	C _m	2,50	3,85	2,51	4,27	2,52	4,11
C _{mk}		2,38	3,15	2,49	3,34	2,45	3,08	
Min. C _m /C _{mk}		C _m	2,12	3,83	2,51	4,27	2,52	4,11
		C _{mk}	1,99	3,15	2,18	3,34	2,40	3,08

	Target:	≥ 1.67	Rating
Capability index	C_m	2,12	OK
	C_{mk}	1,99	OK

Tolerances of rotational angle homologation
Measurements without angle correction

Tool model	Serial nos.	Test data	60 % of max. torque		80 % of max. torque	
			40°		180°	
CTBAW383		Break time	5 s		10 s	
		Angle start torque	7,60 Nm		7,60 Nm	
		Test torque	22,80 Nm		30,40 Nm	
		Speed in 1st stage	300 rpm		300 rpm	
		Speed in last stage	50 rpm		50 rpm	
	GE0125	Torque	±	2,96 %	±	2,68 %
		Angle	±	1,3°	±	3,5°
	GE0127	Torque	±	2,66 %	±	3,78 %
		Angle	±	1,3°	±	2,9°
	GE0129	Torque	±	2,79 %	±	4,50 %
Angle		±	1,4°	±	3,4°	
Torque		Target: ±	7 %	Target: ±	7 %	
		Actual: ±	2,96 %	Actual: ±	4,50 %	
Rating		OK		OK		
Angle		Target: ±	5°	Target: ±	10°	
		Actual: ±	1,4°	Actual: ±	3,5°	
Rating		OK		OK		

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Tolerances of rotational angle homologation

Cordless Assembly Tools

Measurements with angle correction

Tool model	Serial nos.	Test data	60 % of max. torque	80 % of max. torque	
			40°	180°	
CTBAW383		Break time	5 s	10 s	
		Angle start torque	7,60 Nm	7,60 Nm	
		Test torque	22,80 Nm	30,40 Nm	
		Speed in 1st stage	300 rpm	300 rpm	
		Speed in last stage	50 rpm	50 rpm	
	GE0125	Torque	± 2,14 %	± 2,70 %	
		Angle	± 1,2°	± 2,8°	
	GE0127	Torque	± 3,29 %	± 4,00 %	
		Angle	± 1,4°	± 3,2°	
	GE0129	Torque	± 2,94 %	± 4,66 %	
		Angle	± 1,5°	± 3,3°	
			Torque	Target: ± 7,00 %	Target: ± 7,00 %
				Actual: ± 3,29 %	Actual: ± 4,66 %
			Rating	OK	OK
		Angle	Target: ± 5°	Target: ± 10°	
			Actual: ± 1,5°	Actual: ± 3,3°	
		Rating	OK	OK	

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Test sheet no. 1a

General specifications

Manufacturer: Apex Tool Group **Assembly tool type:** Cordless Assembly Tools
Tool model: CTBAW383 **Serial numbers:** GE0125, GE0127, GE0129
Torque range: 10 Nm to 38 Nm

		2000 mAh	5000 mAh
Rated capacity:			
Battery voltage:		18 Volt	
Weight (without battery):		1,56 kg	
Weight (with battery):		1,99 kg	2,29 kg
Maximum speed at the first stage:		395 rpm	
Maximum speed at the final stage:		395 rpm	
Minimum speed at the final stage:		0 rpm	
Sound pressure level at maximum speed: (acc. to DIN EN 62841-1:2016-07, DIN EN 62841-2-2:2015-05)		63,0 dB(A)	
Number of duty cycles with a battery at 100% torque	Soft joint (L):	80 runs	230 runs
	Hard joint (H):	265 runs	760 runs
Temperature of electrical tools: (After 100 measurements with soft joint at 80% torque)		start	end
	at the output drive:	26 °C	36 °C
	on the electric motor:	26 °C	44 °C
	on the handle:	26 °C	38 °C
Output type:		Square drive	
Output drive size:		3/8 "	

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Test sheet no. 1b



Specifications of controller

Manufacturer: Apex Tool Group **Serial number:** AXABH0001
Controller type: MPRO400GCD-P **Software version:** S168813-1.12.0.61436-Test 03.03.21

Fastening Strategy:	Current shut-off:	Yes
	Torque control:	Yes
	Torque control, angle monitoring:	Yes
	Angle control, torque monitoring:	Yes
	Yield point control:	Yes
	Pre-load control:	No
Options:	Prevailing torque:	Yes
	Angle correction:	Yes
	Pulsing:	No
	Tighten - loosen - tighten:	Yes
	Tapping screw monitoring:	Yes
	Left-hand rundown:	Yes
	Other procedures:	Yes, see documentation
Angle of rotation resolution:		1 degree
Torque accuracy:		1 %
Programming:	Keyboard:	Yes
	External PC:	Yes
	Text display:	Yes
	Display:	Yes
	LCD display:	No
Printer interface:		Yes
Additional inputs and outputs:		2 Serial 8 Digital in, 8 Digital out 2 Fieldbus modules 3 USB
Isolation transformer:		No, galvanic isolated power supply
Network:		Yes

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