

Cleco[®]
Production Tools

Homologation

Document no: 001/2021

CellTek[™]

Cordless Assembly Tools

Type: **Cleco - CTBPW15Q**

Order no.: **CTBPW15Q**



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Cleco - CTBPW15Q

Pistol Tool

Order no.: CTBPW15Q



Machine type:	CellTek Tool
Torque range:	3,4 Nm to 14,4 Nm
Max speed:	1125 rpm
Certified serial nos.:	GB0167, GB0169, GB0171

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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C_m / C_{mk} values achieved

Accuracy class: 7 %

CellTek Tool

According VDI/DE 2647 February 2013

Tool	Serial nos.	Test data	30 %		80 %		100 %	
			30° ±5°	360° ±15°	30° ±5°	360° ±15°	30° ±5°	360° ±15°
Cleco-CTBPW15Q		Break time	6 s	10 s	6 s	25 s	6 s	40 s
		Test torque	6,70 Nm		12,20 Nm		14,40 Nm	
		Speed in 1st stage	1000 rpm	1000 rpm	1000 rpm	1000 rpm	1000 rpm	1000 rpm
		Speed in last stage	50 rpm	50 rpm	50 rpm	50 rpm	50 rpm	50 rpm
		Angle start torque	3,35 Nm		6,10 Nm		7,20 Nm	
	GB0167	C _m	7,67	8,96	6,70	9,84	7,25	8,97
		C _{mk}	7,28	7,14	6,66	8,97	7,16	8,19
	GB0169	C _m	6,53	7,06	6,86	9,05	7,35	9,38
		C _{mk}	6,43	6,01	6,06	8,89	6,54	9,24
	GB0171	C _m	6,33	6,51	6,88	7,61	7,65	9,70
C _{mk}		5,77	6,17	5,77	7,13	6,67	9,31	
Min. C _m /C _{mk}		C _m	6,33	6,51	6,70	7,61	7,25	8,97
		C _{mk}	5,77	6,01	5,77	7,13	6,54	8,19

	Target:	≥ 1.67	Rating
Capability index	C_m	6,33	OK
	C_{mk}	5,77	OK

Tolerances of rotational angle homologation

Measurements with angle correction

Tool	Serial nos.	Test data	60 % of max. torque		80 % of max. torque	
			40°		180°	
Cleco-CTBPW15Q		Break time	6 s		6 s	
		Angle start torque	2,88 Nm		2,88 Nm	
		Test torque	8,64 Nm		11,52 Nm	
		Speed in 1st stage	300 rpm		300 rpm	
		Speed in last stage	50 rpm		50 rpm	
	GB0167	Torque	±	1,66 %	±	1,18 %
		Angle	±	1,5°	±	5,8°
	GB0169	Torque	±	1,88 %	±	1,32 %
		Angle	±	1,4°	±	6,5°
	GB0171	Torque	±	0,98 %	±	1,32 %
Angle		±	1,7°	±	6,7°	
Torque		Target: ±	7 %	Target: ±	7 %	
		Actual: ±	1,88 %	Actual: ±	1,32 %	
Rating		OK		OK		
Angle		Target: ±	5°	Target: ±	10°	
		Actual: ±	1,7°	Actual: ±	6,7°	
Rating		OK		OK		

Apex Tool Group

Tolerances of rotational angle homologation

CellTek Tool

Measurements without angle correction

Tool	Serial nos.	Test data	60 % of max. torque	80 % of max. torque	
			40°	180°	
Cleco-CTBPW15Q		Break time	6 s	6 s	
		Angle start torque	2,88 Nm	2,88 Nm	
		Test torque	8,64 Nm	11,52 Nm	
		Speed in 1st stage	300 rpm	300 rpm	
		Speed in last stage	50 rpm	50 rpm	
	GB0167	Torque	± 1,04 %	± 1,55 %	
		Angle	± 1,2°	± 5,6°	
	GB0169	Torque	± 1,41 %	± 0,90 %	
		Angle	± 1,3°	± 6,2°	
	GB0171	Torque	± 0,79 %	± 1,49 %	
		Angle	± 1,3°	± 5,7°	
			Torque	Target: ± 7,00 %	Target: ± 7,00 %
				Actual: ± 1,41 %	Actual: ± 1,55 %
			Rating	OK	OK
		Angle	Target: ± 5°	Target: ± 10°	
			Actual: ± 1,3°	Actual: ± 6,2°	
		Rating	OK	OK	

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Test sheet no. 1a

General specifications

Manufacturer: Apex Tool Group **Assembly tool type:** Electric tool (EC type)
Tool model: Cleco-CTBPW15Q **Serial numbers:** GB0167, GB0169, GB0171
Torque range: 3,4 Nm to 14,4 Nm

		2000 mAh	5000 mAh
Rated capacity:			
Battery voltage:		18 Volt	
Weight (without battery):		0,98 kg	
Weight (with battery):		1,41 kg	1,71 kg
Maximum speed at the first stage:		1125 rpm	
Maximum speed at the final stage:		1125 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)		59,1 dB(A)	
Number of duty cycles with a battery at 100% torque	Soft joint (L):	130 runs	330 runs
	Hard joint (H):	400 runs	1040 runs
Temperature of electrical tools: (After 100 measurements with soft joint at 80% torque)		start	end
	at the output drive:	-	-
	on the electric motor:	21 °C	44 °C
	on the handle:	21 °C	39 °C
Output type:		Quick change	
Output drive size:		1/4 "	

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Annex 1

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Test sheet no. 1b

Specifications of controller

Manufacturer: Apex Tool Group **Serial number:** AXABH0001
Tool model: 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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