

Cleco[®]
Production Tools

Homologation

Document no: 004/2021

CellTek[™]
Cordless Assembly Tools

Type: Cleco - CTBPW05Q

Order no.: CTBPW05Q



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Cleco - CTBPW05Q

Pistol Tool

Order no.: CTBPW05Q



Machine type:	Cordless Assembly Tools
Torque range:	1.1 Nm to 4.9 Nm
Max speed:	3525 rpm
Certified serial nos.:	GC0059, GC0060, GC0061
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

Homologation of nutrunners

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°
CTBPW05Q		Break time	5 s	10 s	10 s	30 s	10 s	45 s
		Test torque	2.24 Nm		4.14 Nm		4.90 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	1.12 Nm		2.07 Nm		2.45 Nm	
		GC0059	C _m	4.29	4.52	4.76	7.93	4.64
		C _{mk}	4.10	4.07	4.40	7.30	4.47	6.82
	GC0060	C _m	3.74	5.51	5.40	8.51	4.35	7.62
		C _{mk}	3.65	4.70	5.21	7.95	4.01	7.28
	GC0061	C _m	3.61	3.83	4.29	5.86	3.35	6.46
		C _{mk}	3.57	3.31	3.74	5.53	3.26	5.73
	Min. C _m /C _{mk}		C _m	3.61	3.83	4.29	5.86	3.35
C _{mk}			3.57	3.31	3.74	5.53	3.26	5.73

	Target:	≥ 1.67	Rating
Capability index	C_m	3.35	OK
	C_{mk}	3.26	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°	
CTBPW05Q		Break time	10 s		10 s	
		Angle start torque	0.98 Nm		0.98 Nm	
		Test torque	2.94 Nm		3.92 Nm	
		Speed in 1st stage	100 rpm		100 rpm	
		Speed in last stage	50 rpm		50 rpm	
		GC0059	Torque	±	2.59 %	±
		Angle	±	1.2°	±	1.9°
	GC0060	Torque	±	2.50 %	±	2.15 %
		Angle	±	1.1°	±	2.0°
	GC0061	Torque	±	1.96 %	±	2.21 %
		Angle	±	1.0°	±	2.4°
			Torque	Target: ±	7 %	Target: ±
			Actual: ±	2.59 %	Actual: ±	2.21 %
		Rating	OK		OK	
		Angle	Target: ±	5°	Target: ±	10°
			Actual: ±	1.2°	Actual: ±	2.4°
		Rating	OK		OK	

Apex Tool Group

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°	
CTBPW05Q		Break time	10 s		10 s	
		Angle start torque	.98 Nm		.98 Nm	
		Test torque	2.94 Nm		3.92 Nm	
		Speed in 1st stage	100 rpm		100 rpm	
		Speed in last stage	50 rpm		50 rpm	
	GC0059	Torque	±	2.13 %	±	3.76 %
		Angle	±	3.0°	±	3.5°
	GC0060	Torque	±	2.92 %	±	2.68 %
		Angle	±	2.8°	±	3.2°
	GC0061	Torque	±	4.78 %	±	3.81 %
		Angle	±	3.4°	±	5.8°
	Torque			Target: ±	7.00 %	Target: ±
Actual: ±				4.78 %	Actual: ±	3.81 %
Rating			OK		OK	
Angle			Target: ±	5°	Target: ±	10°
			Actual: ±	3.4°	Actual: ±	5.8°
Rating			OK		OK	

Document no: 004/2021
Date: 8/3/2021

Annex 1

Page 1 of 2

Test sheet no. 1a

General specifications

Manufacturer: Apex Tool Group **Assembly tool type:** Cordless Assembly Tools
Tool model: CTBPW05Q **Serial numbers:** GC0059, GC0060, GC0061
Torque range: 1.1 Nm to 4.9 Nm

		2000 mAh	5000 mAh
Rated capacity:			
Battery voltage:		18 Volt	
Weight (without battery):		0.89 kg	
Weight (with battery):		1.32 kg	1.62 kg
Maximum speed at the first stage:		3525 rpm	
Maximum speed at the final stage:		3525 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)		66.3 dB(A)	
Number of duty cycles with a battery at 100% torque	Soft joint (L):	145 runs	220 runs
	Hard joint (H):	405 runs	785 runs
Temperature of electrical tools: (After 100 measurements with soft joint at 80% torque)	at the output drive:	-	
	on the electric motor:	22 °C	43 °C
	on the handle:	22 °C	31 °C
Output type:		Quick change	
Output drive size:		1/4 "	

Document no: 004/2021
Date: 8/3/2021

Annex 1
Page 2 of 2

Test sheet no. 1b



Specifications of controller

Manufacturer: Apex Tool Group **Serial number:** MPRO-A84968
Controller type: MPRO400GCD-P **Software version:** S168813-1.12.0.61436-Test Mar 3 2021

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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NORTH AMERICA | SOUTH AMERICA

Detroit, Michigan 
Apex Tool Group
2630 Superior Court
Auburn Hills, MI 48236
Phone: +1 (248) 393-5644
Fax: +1 (248) 391-6295

Lexington, South Carolina 
Apex Tool Group
670 Industrial Drive
Lexington, SC 29072
Phone: +1 (800) 845-5629
Phone: +1 (813) 387-0099
Fax: +1 (803) 358-7681

Canada 
Apex Tool Canada, Ltd.
7631 Rath Road
Mississauga, Ontario L4T 3T1
Canada
Phone: (866) 691-6212
Fax: (905) 673-4400

Mexico 
Apex Tool Group
Vialidad El Pueblito #103
Parque Industrial Querétaro
Querétaro, QRO 76220
Mexico
Phone: +62 (442) 211 3800
Fax: +62 (800) 685 5560

Brazil 
Apex Tool Group
Av. Liberdade, 4055
Zona Industrial Iporanga
Sorocaba, São Paulo
CEP# 13087-170
Brazil
Phone: +55 15 3238 3870
Fax: +55 15 3238 3938

EUROPE | MIDDLE EAST | AFRICA

England 
Apex Tool Group GmbH
C/O Spine Gauges
Piccadilly, Tamworth
Staffordshire B78 2ER
United Kingdom
Phone: +44 1827 8727 71
Fax: +44 1827 8741 28

France 
Apex Tool Group SAS
25 Avenue Maurice Chevalier - ZI
77330 Ozoir-La-Ferrière
France
Phone: +33 1 64 43 22 00
Fax: +33 1 64 43 17 17

Germany 
Apex Tool Group GmbH
Industriestraße 1
73463 Westhausen
Germany
Phone: +49 (0) 73 63 81 0
Fax: +49 (0) 73 63 81 222

Hungary 
Apex Tool Group
Hungária Kft.
Platánfa u. 2
9027 Győr
Hungary
Phone: +36 96 66 1383
Fax: +36 96 66 1135

ASIA PACIFIC

Australia 
Apex Tool Group
519 Nurigong Street, Albury
NSW 2640
Australia
Phone: +61 2 6058 0300

China 
Apex Power Tool Trading
(Shanghai) Co., Ltd.
2nd Floor, Area C
177 B Bo Road
Pu Dong New Area, Shanghai
China 201203 P.R. C.
Phone: +86 21 60880320
Fax: +86 21 60880298

India 
Apex Power Tool India
Private Limited
Gala No. 1, Plot No. 5
S. No. 234, 235 & 245
Industrial Global
Industrial Park
Taluka-Mulsi, Phase I
Hinjawadi, Pune 411057
Maharashtra, India
Phone: +91 020 6676 1111

Japan 
Apex Tool Group Japan
Korin-Kaikan 5F,
3-6-23 Shibakoen, Mnato-Ku,
Tokyo 105-0011, JAPAN
Phone: +81-3-6450-1840
Fax: +81-3-6450-1841

Korea 
Apex Tool Group Korea
#1503, Hibrand Living Bldg.,
215 Yangjae-dong,
Seocho-gu, Seoul 137-924,
Korea
Phone: +82-2-2155-0250
Fax: +82-2-2155-0252

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Apex Tool Group GmbH
Phone: +49 7363 81 0
www.ClecoTools.com
www.ClecoTools.de