

TORQUE MULTIPLIERS

Torque multipliers are essential tools for tightening nuts and screws, as they allow a higher torque than the operator would normally apply to be generated, in small or hardly accessible spaces. They do not require bulky extensions, thereby ensuring total safety.

Beta's range of torque multipliers provides a variety of solutions and capacities **up to 9500 Nm**, and torque multiplication ratios up to 135:1. Many models – especially the most powerful ones – are fitted with a two-way anti-wind up system, to prevent dangerous tension returns onto the operator. Each of Beta's torque multipliers comes with a **certificate** proving that the tool was tested at the maximum value under optimal operating conditions.

Operating instructions

The torque multiplier **must be used with a torque wrench** to ensure control of the output torque; in addition, it must always be used with **impact sockets**.

The ratios of each torque multiplier determine the **multiplication factor** between the input torque and the output torque. Example: torque multiplier with 5:1 ratio. Applying an input torque of 100 Nm, as set on the torque wrench, will result in an output torque of 500 Nm as transmitted to the nut or screw.

However, make sure that all the parts involved in tightening are properly aligned.

Avoid using **extensions**, as these would twist, thereby producing a spring effect which would modify the applied torque values.

Always check that the **reaction arm** of the torque multiplier has been fixed to, or rests on, a sturdy structure, capable of withstanding the reaction force. As a rule, adequately rigid walls or screws near to the one that must be worked on are used. The reaction arm always rotates in the **opposite** direction to the tightening direction.



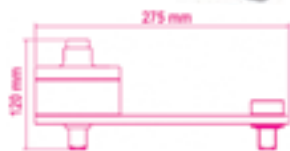
Operate smoothly and uninterruptedly.

Tightening tension must be released by rotating the torque multiplier in the other direction, before disengaging it; if the torque multiplier is fitted with an anti-wind up system, tightening tension must be released through the reversal lever.

The above instructions also apply to **unscrewing** operations.

560/C3

torque multiplier for right-hand and left-hand tightening, in plastic case, ratio 3.8:1, with anti-wind up system

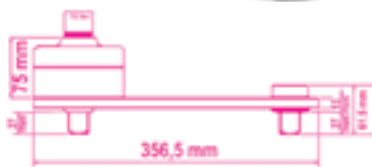


Nm	kgfm	lbf.ft	□	■	kg
1500	150	1110	1/2"	3/4"	3,9

560/C3 1 005600030
 ≡ 400x260x110 mm

560/C3PLUS

torque multiplier for right-hand and left-hand tightening, in plastic case, ratio 3.8:1, with anti-wind up system

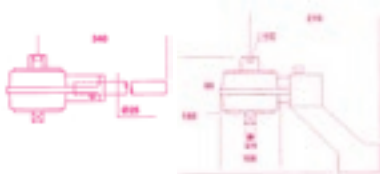


Nm	kgfm	lbf.ft	□	■	kg
2700	270	1991	3/4"	1"	7,5

560/C3PLUS 1 005600038
 ≡ 470x240x160 mm

560/C2

torque multiplier for right-/left-hand tightening and accessories ratio 5:1 in plastic case for intensive use

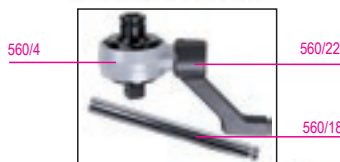


Nm	Kgfm	lbf.ft	□	■	kg
1300	130	960	1/2"	3/4"	3,8

560/C2 1 005600020
560/2 1 005600002
560/18 1 005600018
560/19 1 005600019
560/22 1 005600022
 ≡ 310x275x120 mm

560/C4+

torque multiplier for right/left-hand and accessories ratio 5:1 with reaction foot for intensive use



Nm	Kgfm	lbf.ft	□	■	kg
2700	270	2000	3/4"	1"	5

560/C4PLUS 1 005600042
560/4 1 005600004
560/18 1 005600018
560/22 1 005600022
 ≡ 310x275x120 mm

560/C6

torque multipliers for right-hand and left-hand tightening in plastic case ratio: 6.5:1



Nm	kgfm	lbf.ft	□	■	kg
1500	150	1106	1/2"	3/4"	6

560/C6 1 005600160
 ≡ 400x260x110 mm

560/C12

torque multipliers for right-hand and left-hand tightening in plastic case ratio: 12:1

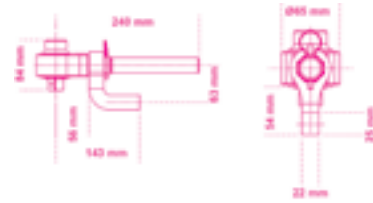


Nm	kgfm	lbf.ft	□	■	kg
2500	250	1844	1/2"	1"	7

560/C12 1 005600210
 ≡ 400x260x110 mm

561/1

torque multiplier for right-hand and left-hand tightening, ratio 5:1, with two reaction feet



Nm	kgfm	lbf.ft	□	■	kg
1000	100	740	1/2"	3/4"	2,7

561/1 1 005610010
 ≡ 270x210x70 mm

562-1/VA - 562-2/VA

torque multipliers for right-hand and left-hand tightening

ratio 5,2:1

in case 562VV-A



Nm	Kgfm	lbf.ft	□	■	D	A	L min	L max	⚖
1700	170	1250	3/4	1"	108	95	85	220	8,8

562-1/VA 1 005620601

Nm	Kgfm	lbf.ft	□	■	D	A	L min	L max	⚖
3400	340	2500	3/4	1"	119	115	85	265	10,5

562-2/VA 1 005620602

564-3R/V - 564-4R/V

torque multipliers for right-/left-hand tightening

ratio 25:1

with anti-wind up system,

in case



Nm	Kgfm	lbf.ft	□	■	D	A	L	⚖
4000	400	3000	1/2	1"	92	185	205	7,6

564-3R/V 1 005640613

390x310x145 mm

Nm	Kgfm	lbf.ft	□	■	D	A	L	⚖
7000	700	5000	1/2	1 1/2"	120	200	210	13,2

564-4R/V 1 005640614

500x435x170 mm

565-1R/VA - 565-2R/VA - 565-3R/VA

torque multipliers for right-hand and left-hand tightening

ratio 27:1

with anti-wind up system,

in case 562VV-A



Nm	Kgfm	lbf.ft	□	■	D	A	L min	L max	⚖
1700	170	1250	1/2	1"	108	125	80	215	11,2

565-1R/VA 1 005650611

Nm	Kgfm	lbf.ft	□	■	D	A	L min	L max	⚖
3400	340	2500	1/2	1"	119	145	85	265	13,6

565-2R/VA 1 005650612

Nm	Kgfm	lbf.ft	□	■	D	A	L min	L max	⚖
3400	340	2500	1/2	1 1/2"	119	145	85	265	14,2

565-3R/VA 1 005650613

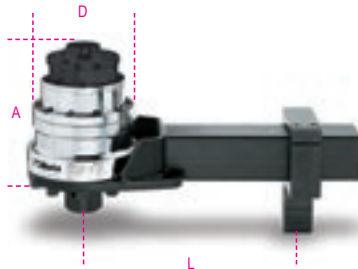
565-4R/VB

torque multiplier for right-hand and left-hand tightening

ratio 27:1

with anti-wind up system,

in case 565VV-B



Nm	Kgfm	lbf.ft	□	■	D	A	L min	L max	⚖
6000	600	4500	1/2	1 1/2"	144	180	125	335	22,4

565-4R/VB 1 005650614

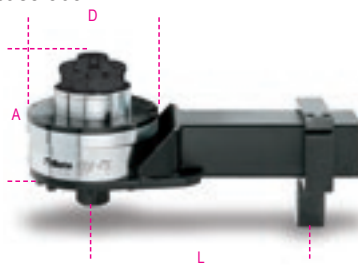
565-5R/VB

torque multiplier for right-hand and left-hand tightening

ratio 27:1

with anti-wind up system,

in case 565VV-B



Nm	Kgfm	lbf.ft	□	■	D	A	L min	L max	⚖
9500	950	7000	3/4	1 1/2"	184	180	155	355	30,4

565-5R/VB 1 005650615

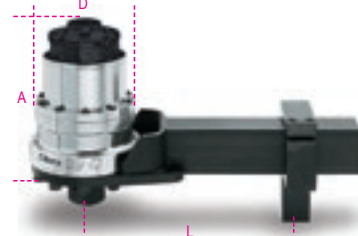
567-4R/VB

torque multiplier for right-hand and left-hand tightening

ratio 135:1

with anti-wind up system,

in case 565VV-B



Nm	Kgfm	lbf.ft	□	■	D	A	L min	L max	⚖
6000	600	4500	1/2	1 1/2"	144	210	125	335	24,4

567-4R/VB 1 005670614

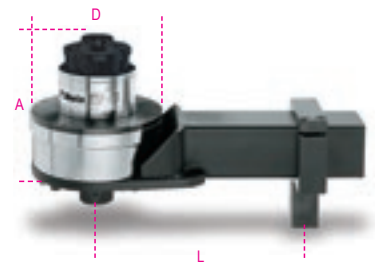
567-5R/VB

torque multiplier for right-hand and left-hand tightening

ratio 135:1

with anti-wind up system,

in case 565VV-B



Nm	Kgfm	lbf.ft	□	■	D	A	L min	L max	⚖
9500	950	7000	1/2	1 1/2"	184	210	155	350	32,4

567-5R/VB 1 005670615

562VV-A

multiplier case, made of hard-wearing polypropylene with sponge lining

Interior dimensions: 380x270x180 mm



562VV-A 1 005620501

562/1-562/2-564/3R
564/4R-565/1R-565/2R
565/3R

410x340x205 mm - ⚖ 3,5 kg

565VV-B

multiplier case, made of hard-wearing polypropylene with sponge lining

Interior dimensions: 480x370x205 mm



565VV-B 1 005650502

565/4R-565/5R
567/4R-567/5R

520x435x230 mm - ⚖ 5,4 kg



Torque wrenches must always be held in the middle of the handle, in order not to change the lever ratio. They must be operated smoothly and uninterruptedly, avoiding jerks.



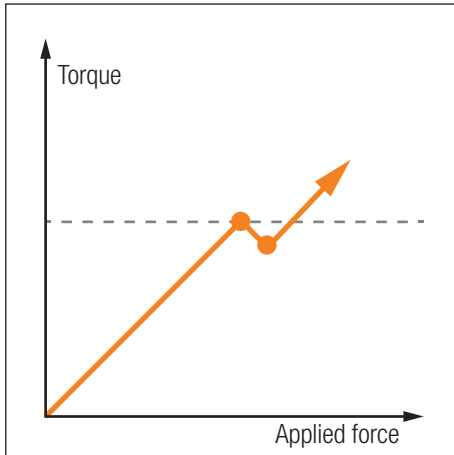
The adjustment scale must be reset to zero after use, in order not to affect tightening precision.



Beta provides a wide range of wrenches, with **four different types of operation**.

DIRECT READING MODELS

The applied tightening torque is transmitted directly to the reading index through compression of a coil spring. The applied torque can be read in real time through a pointer. A second pointer can be positioned on the target torque value. When the target torque value is reached, the second pointer will be hooked by the main pointer and record the peak value. Direct reading torque wrenches ensure remarkable accuracy and durability over time.

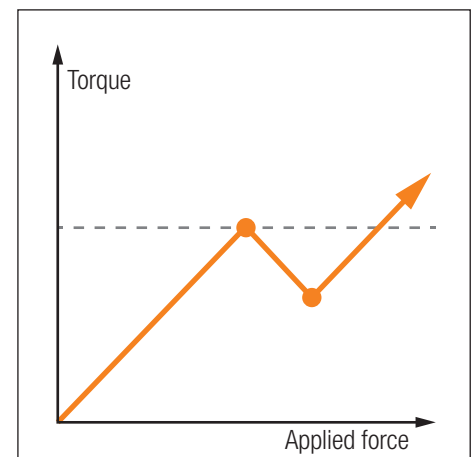
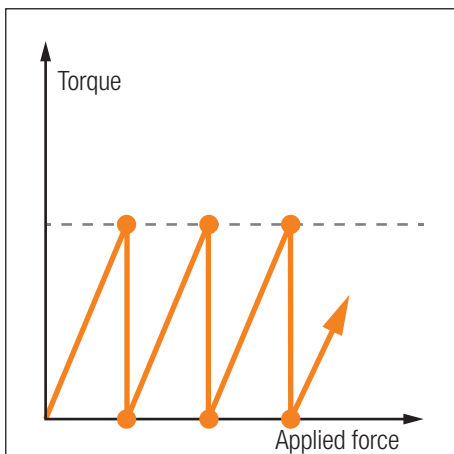


CLICK-TYPE MODELS

Click-type torque wrenches are the most popular models, as they are easy to use. They enable quick torque preselection by spring loading. The torque value increases as the applied force increases. When the required torque value is reached, a sudden release will occur, and the wrench will not apply any tightening force for approximately 3-5°. If the operator does not interrupt movement, the torque will keep increasing, thereby exceeding the required values.

BREAK-BACK MODELS

Break-back torque wrenches operate like click-type models, but when the required torque value is reached, a sudden release of the lever arm will occur (approximately 20°). Therefore, it is easier for the operator to stop applying force. They are normally used for high torque values with extremely long lever arms.



SLIPPING MODELS

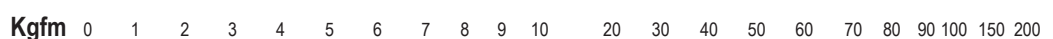
When the pre-set torque value is reached, the slipping mechanism will stop the torque from being applied, thereby causing the tool to idle. This will prevent tightening with high torque values compared to the required ones. Keeping applying force will cause the same cycle to be repeated. They are ideal for operations in sequence with low torque values (electronic and micromechanical industries), where avoiding breaking delicate or small-sized parts is a priority.

FIELDS OF USE FOR TORQUE WRENCHES

1 Nm = 0,10197 Kgfm = 0,7375 lbf.ft



Size	Model	Min (Nm)	Max (Nm)	Min (Kgfm)	Max (Kgfm)	Min (lbf.ft)	Max (lbf.ft)
1/4"	590	0,3	4				
	590/1	0,5	13,5				
	603/5	1	5				
	603/10	2	10				
	605E/5	1	5				
	605E/10	2	10				
	666N/2		5	25			
3/8"	592/3	1	27				
	592/4	3	40				
	599DGT/6		12	60			
	665/6		10	60			
	665/10		20	100			
	665LB/6		7 LBF.FT	45 LBF.FT			
	665LB/10		15 LBF.FT	75 LBF.FT			
	666N/2X	5	25				
	666N/5		10	50			
	666N/10		20	100			
	666N LBF.IN/5		90 LBF.IN	440 LBF.IN			
	666N LBF.IN/10		200 LBF.IN	800 LBF.IN			
	668RGC/6		12	60			
	668RGC/10		20	100			
	1/2"	594/8	6	80			
594/21			20	215			
599DGT/10X			20	100			
599DGT/20			40	200			
599DGT/30			68	340			
599DGT-AN/10			20	100			
599DGT-AN/20			40	200			
606MQ/50		5	50				
610/5					90	130	
610L/5					90	130	
610L/5L					120	200	
665/10X			20	100			
665/20			40	200			
665/30			60	330			
665LB/10X			15 LBF.FT	75 LBF.FT			
665LB/20			30 LBF.FT	150 LBF.FT			
665LB/30			45 LBF.FT	240 LBF.FT			
666N/10X			20	100			
666N/20			40	200			
666N/30			60	300			
666N LBF.IN/10X			200 LBF.IN	800 LBF.IN			
666N LBF.IN/20			400 LBF.IN	1800 LBF.IN			
666N LBF.IN/30			500 LBF.IN	3000 LBF.IN			
667N/20			40	200			
667N/30			60	300			
668RGC/10X			20	100			
668RGC/20			40	200			



Beta

581

slip-torque screwdriver, ungraduated for right-hand tightening torque accuracy: $\pm 6\%$ (to be used with items 588 - 682)



UNI EN ISO 6789

Nm	gfm	lbf.ft	kg
1,2÷6	120÷600	1/4"	275

581 1 005810001

583

slip-torque screwdriver, graduated for right-hand tightening torque accuracy: $\pm 6\%$



UNI EN ISO 6789

Nm	gfm	lbf.ft	kg
0,3÷1,5	30÷150	1/4"	240

583/1,5 1 005830015

Nm	gfm	lbf.ft	kg
0,6÷3	60÷300	1/4"	240

583/3 1 005830030

Nm	gfm	lbf.ft	kg
1,2÷6	120÷600	1/4"	350

583/6 1 005830060

583/C31

1 torque screwdriver, 8 hexagon hand sockets, 20 bits and 2 accessories

1/4



583/C31 1 005830931

	583/6	1.2 - 6 Nm
	900	4-5-5,5-6-7-8-9-10 mm
	860LP	0,6x4,5 - 1x5,5 - 1,2x6,5 mm
	860PH	PH1 - PH2 (x2) - PH3
	860PE	2-2,5-3-4-5 mm
	860TX	T9-T10-T15-T20-T25-T27-T30-T40
	882P/80	80 mm
	892/0	1/4" 1/4

270x120x45 mm - 1,2 kg

590 - 592

direct reading torque wrenches for right-hand and left-hand tightening torque accuracy: $\pm 4\%$



UNI EN ISO 6789

Nm	Kgfm	lbf.in	kg
0,3÷4	0,03÷0,4	3÷35	1/4

590 1 005900001

Nm	Kgfm	lbf.in	kg
0,5÷13,5	0,05÷1,35	4÷120	1/4

590/1 1 005900003

Nm	Kgfm	lbf.in	kg
1÷27	0,1÷2,7	10÷240	3/8

592/3 1 005920005

Nm	Kgfm	lbf.in	kg
3÷40	0,3÷4	20÷360	3/8

592/4 1 005920007

594

direct reading torque wrenches for right-hand and left-hand tightening torque accuracy: $\pm 4\%$

12"



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	kg
6÷80	0,6÷8	5÷60	1/2

594/8 1 005940011

Nm	Kgfm	lbf.ft	kg
20÷215	2÷21,5	15÷160	1/2

594/21 1 005940015

Torque calibration service at end of price list

596 - 598

direct reading torque wrenches for right-hand and left-hand tightening torque accuracy: $\pm 4\%$

A signal light and an intermittent sound mean the pre-set torque load is achieved.



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	kg
80÷400	8÷40	60÷300	3/4

596/40SL 1 005960010

Nm	Kgfm	lbf.ft	kg
160÷800	16÷80	120÷600	3/4"

596/80SL 1 005960020

Nm	Kgfm	lbf.ft	kg
200÷2000	20÷200	150÷1500	1"

598/200SL 1 005980022

Beta

Quality Tools



599DGT

electronic torque wrench
with reversible ratchet,
right-hand (accuracy: $\pm 2\%$) and left-hand
(accuracy: $\pm 3\%$) tightening

- Dual measurement mode: peak hold and track
- Light indicators and an intermittent sound inform user that preset torque has been reached
- Power supply: 2 1.5V batteries (included)



CE



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	■	D	A	L	kg
20÷60	1,2÷6	8÷44	3/8	30	33	413	0,9

599DGT/6 1 005990003

Nm	Kgfm	lbf.ft	■	D	A	L	kg
20÷100	2÷10	15÷80	1/2	30	37	413	0,9

599DGT/10X 1 005990010

Nm	Kgfm	lbf.ft	■	D	A	L	kg
40÷200	4÷20	30÷150	1/2	40	43	520	2

599DGT/20 1 005990020

Nm	Kgfm	lbf.ft	■	D	A	L	kg
68÷340	6,8÷34	58÷280	1/2	40	43	640	2,35

599DGT/30 1 005990030

599DGT-AN

electronic torque wrench, torque and angle
readout,
with reversible ratchet,
right-hand (accuracy: $\pm 2\%$)
and left-hand (accuracy: $\pm 3\%$) tightening

- tightening types: torque, angle, torque + angle
- dual measurement mode: peak hold and track
- light indicators and an intermittent sound inform user that preset torque or angle has been reached
- tightening data storage (up to 250 values)
- up to 9 torque/angle values can be preset
- key safety lockout
- wrench can be associated with 16 users through user ID
- tightening data traceability. Software allows date and time, tool serial number, set tightening value and reached value to be stored and associated with user ID
- nonslip bi-material handle
- included: 2 AA - 1.5V batteries, USB cable and software



12V

CE



UNI EN 26789
ISO 6789

Nm	Kgfm	lbf.ft	■	D	A	L	kg
20÷100	2÷10	15÷80	1/2	30	33	413	0,9

599DGT-AN/10 1 005990610

Nm	Kgfm	lbf.ft	■	D	A	L	kg
40÷200	4÷20	30÷150	1/2	40	43	520	1,3

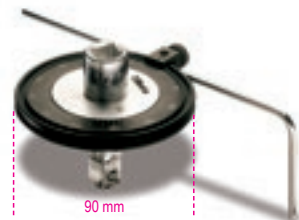
599DGT-AN/20 1 005990620

**Torque calibration
service
at end of price list**



600

torque angle indicators



Code	□	■	□	■
600/1	1/2	1/2	1	006000001
600/2	3/4	3/4	1	006000002

601C

digital tangle indicator

Light signals and an intermittent sound inform user that preset angle has been reached

CE



Code	□	■	□	■
601C	85x80x87 mm	-	1	006010100

601CA

digital torque and angle indicator

light indicators and an intermittent sound
inform user that preset torque or angle
has been reached

12V

CE



Code	□	■	Nm	□	■
601CA	1/2"	1/2"	10÷200	1	006010120

120x90x120 mm - 240 g

603

calibrated slipping torque wrenches
for right-hand tightening
torque accuracy: $\pm 6\%$



UNI EN ISO 6789

Nm	Kgfm	lbf.in	■	A mm	L mm	g
1÷5	0,1÷0,5	10÷45	1/4	35	195	235

603/5 1 006030005

Nm	Kgfm	lbf.in	■	A mm	L mm	g
2÷10	0,2÷1,0	18÷90	1/4	35	195	235

603/10 1 006030010

604B

break-back torque bars
for right-hand and left-hand tightening
torque accuracy: $\pm 6\%$



UNI EN ISO 6789

Nm	kgfm	lbf.in	Ø mm	L mm	g
1÷5	0,1÷0,5	10÷45	8	220	290

604B/5 1 006040015

Nm	Kgfm	lbf.in	Ø mm	L mm	g
2÷10	0,2÷1,0	18÷90	8	220	300

604B/10 1 006040020

605E

click-type torque wrenches
with reversible ratchets
for right-hand and left-hand tightening
torque accuracy: $\pm 6\%$



UNI EN ISO 6789

Nm	Kgfm	lbf.in	■	A mm	L mm	g
1÷5	0,1÷0,5	10÷45	1/4	20	190	180

605E/5 1 006050105

Nm	Kgfm	lbf.in	■	A mm	L mm	g
2÷10	0,2÷1,0	18÷90	1/4	20	190	180

605E/10 1 006050110

610/5

click-type torque wrenches
with reversible ratchets,
for right-hand tightening,
with 5 preset values,
torque accuracy: $\pm 4\%$

Selectable torque values:
90 - 100 - 110 - 120 - 130 Nm



UNI EN ISO 6789

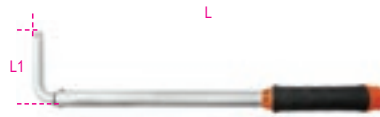
Nm	■	D mm	A mm	L mm	g
90÷130	1/2	42	39	490	1330

610/5 1 006100025

610L/5

click-type torque wrenches
with L-shaped levers,
for right-hand tightening,
with 5 preset values,
torque accuracy: $\pm 4\%$

Selectable torque values:
90 - 100 - 110 - 120 - 130 Nm



UNI EN ISO 6789

Nm	■	L mm	L1 mm	g
90÷130	1/2	470	80	1350

610L/5 1 006100125

610L/5L

click-type torque wrench
with L-shaped lever,
for right-hand tightening,
with 5 preset values,
torque accuracy: $\pm 4\%$

Selectable torque values:
120 - 140 - 160 - 180 - 200 Nm



UNI EN ISO 6789

Nm	■	L mm	L1 mm	g
120÷200	1/2	470	80	1400

610L/5L 1 006100150

611

reversible ratchets
for torque bars items 604B/5 and 604B/10
8 mm drive



■	L mm		
1/4	42,5	1	006110001

**Torque calibration
service
at end of price list**

612 ÷ 614

reversible ratchets for torque bars



Items 612 and 612X should not be used
with tightening torques exceeding 100 Nm

	■	L mm	LA mm		
612	3/8	66	32	2	006120000
612X	1/2	66	32	2	006120010
614	1/2	71	32	2	006140000
614X	3/4	71	32	2	006140004

614/50

push-through ratchet for torque bars



	■	L mm	LA mm		
614/50	1/2	71	32	2	006140002

**Spare parts
rotating mechanism of ratchets,
see table after item 929/C8**

615

reversible ratchets
for torque bars, rectangular drive



mm	mm	L mm	LA mm		
9x12	3/8	53	28,8	1	006150010
9x12	1/2	53	28,8	1	006150020
14x18	1/2	70	39,8	1	006150120

616 - 617 - 619

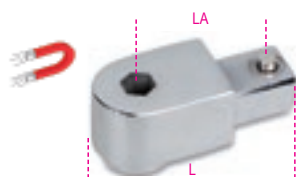
fixed heads for torque bars



mm	mm	L mm	LA mm		
616	1/4	61	32	1	006160000
617	3/8	61	32	1	006170000
619	1/2	63	32	1	006190000

621

bit holder accessories
for torque bars, rectangular drive



mm	mm	L mm	LA mm		
P 1/4	9x12	1/4	43 28,8	1	006210000
* P 5/16	14x18	5/16	52,5 32,5	1	006210110

*Caution! Recalculate torque value to set as shown in table at end of price list

622

reversible ratchets
for torque bars,
round drive, Ø 22 mm



mm	mm	L mm	LA mm		
622 3/4	3/4	110	56	1	006220019
622 1	1	110	56	1	006220024

641

open jaw wrenches
for torque bars 604B/5 and 604B/10
8 mm drive



mm	mm	L mm	LA mm		
4	37			1	006410003
5	37			1	006410004
5,5	37			1	006410005
6	37			1	006410006
7	37			1	006410007
8	42			1	006410008
9	42			1	006410009
10	42			1	006410010

642

open jaw wrenches for torque bars

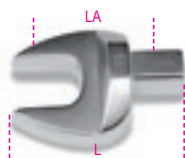


mm	mm	LA mm	A mm		
8	54	32	22	1	006420008
10	57	32	26	1	006420010
12	58	32	30	1	006420012
13	58	32	30	1	006420013
14	59	32	32	1	006420014
15	59	32	35	1	006420015
16	59	32	38	1	006420016
17	60	32	39	1	006420017
18	61	32	42	1	006420018
19	61	32	43	1	006420019
20	61	32	50	1	006420020
21	62	32	53	1	006420021
22	62	32	53	1	006420022
23	65	32	53	1	006420023
24	63	32	53	1	006420024
26	64	32	59	1	006420026
27	65	32	59	1	006420027
28	66	32	64	1	006420028
30	66	32	66	1	006420030
32	67	32	66	1	006420032
* 36	76	42	80	1	006420036
* 40	77	52	95	1	006420040
* 41	78	52	95	1	006420041
* 46	90	52	95	1	006420046

*Caution! Recalculate torque value to set as shown in table at end of price list

643

open jaw wrenches
for torque bars, rectangular drive



mm	mm	L mm	LA mm		
7	9X12	37	28,8	1	006430007
8	9x12	37	28,8	1	006430008
10	9x12	39	28,8	1	006430010
12	9x12	39	28,8	1	006430012
13	9x12	39	28,8	1	006430013
14	9x12	43	28,8	1	006430014
15	9x12	43	28,8	1	006430015

*Caution! Recalculate torque value to set as shown in table at end of price list

mm	mm	L mm	LA mm		
16	9x12	43	28,8	1	006430016
17	9x12	43	28,8	1	006430017
* 18	9x12	47	36,3	1	006430018
* 19	9x12	51	36,3	1	006430019
* 21	9X12	52	36,3	1	006430021
* 22	9x12	52	36,3	1	006430022

*Caution! Recalculate torque value to set as shown in table at end of price list

mm	mm	L mm	LA mm		
13	14x18	60	39,8	1	006430113
14	14x18	58	39,8	1	006430114
15	14x18	60	39,8	1	006430115
16	14x18	60	39,8	1	006430116
17	14x18	60	39,8	1	006430117
18	14x18	61	39,8	1	006430118
19	14x18	61	39,8	1	006430119
21	14x18	61	39,8	1	006430121
22	14x18	62	39,8	1	006430122
24	14x18	64	39,8	1	006430124
* 27	14x18	68	44,8	1	006430127
* 30	14x18	77	49,8	1	006430130
* 32	14x18	77	49,8	1	006430132
* 34	14x18	80	54,8	1	006430134
* 36	14x18	83	54,8	1	006430136
* 38	14X18	83	54,8	1	006430138
* 41	14x18	91	64,8	1	006430141

*Caution! Recalculate torque value to set as shown in table at end of price list

644

open jaw wrenches
for torque bars,
round drive, Ø 22 mm



mm	mm	LA mm	A mm		
22	91	56	52	1	006440022
24	91	56	52	1	006440024
27	94	56	64	1	006440027
30	94	56	64	1	006440030
32	97	56	75,5	1	006440032
34	97	56	75,5	1	006440034
36	97	56	75,5	1	006440036
41	103,5	56	94	1	006440041
46	115,5	56	94	1	006440046

650A

adjustable wrenches
for torque bars,
rectangular drive



A min-max mm	mm	L mm	LA mm		
* 5-27	9X12	93	74,3	1	006500027
* 5-30	9X12	106	85,3	1	006500030
* 5-30	14X18	115	89	1	006500130
* 10-41	14X18	127	100	1	006500141

*Caution! Recalculate torque value to set as shown in table at end of price list

650H

hook wrenches
for torque bars,
rectangular drive



mm	mm	L mm	LA mm		
* 28-36	14x18	122	92	1	006500928
* 40-45	14x18	129	92	1	006500940
* 50-55	14x18	129	92	1	006500950
* 58-62	14x18	135	92	1	006500958
* 68-75	14x18	139	92	1	006500968
* 80-90	14x18	145	92	1	006500980

*Caution! Recalculate torque value to set as shown in table at end of price list

652

ring wrenches for torque bars



mm	L mm	LA mm		
8	58	32	1	006520008
10	58	32	1	006520010
12	58	32	1	006520012
13	58	32	1	006520013
14	58	32	1	006520014
15	62	32	1	006520015
16	63	32	1	006520016
17	64	32	1	006520017
18	65	32	1	006520018
19	65	32	1	006520019
21	67	32	1	006520021
22	68	32	1	006520022
24	69	32	1	006520024
26	71	32	1	006520026
27	71	32	1	006520027
30	73	32	1	006520030
32	74	32	1	006520032

653

ring wrenches
for torque bars, rectangular drive



mm	mm	L mm	LA mm		
7	9x12	40	28,8	1	006530007
8	9x12	40	28,8	1	006530008
10	9x12	43	28,8	1	006530010
12	9x12	44	28,8	1	006530012
13	9x12	44	28,8	1	006530013
14	9x12	45	28,8	1	006530014
15	9x12	46	28,8	1	006530015
16	9x12	47	28,8	1	006530016
17	9x12	47	28,8	1	006530017
18	9x12	48	28,8	1	006530018
19	9x12	49	28,8	1	006530019
21	9x12	51	28,8	1	006530021
22	9x12	51	28,8	1	006530022

mm	mm	L mm	LA mm		
13	14x18	61	39,8	1	006530113
14	14x18	61	39,8	1	006530114
15	14x18	62	39,8	1	006530115
16	14x18	63	39,8	1	006530116

*Caution! Recalculate torque value to set as shown in table at end of price list

mm	mm	L mm	LA mm		
17	14x18	64	39,8	1	006530117
18	14x18	64	39,8	1	006530118
19	14x18	66	39,8	1	006530119
21	14x18	66	39,8	1	006530121
22	14x18	67	39,8	1	006530122
24	14x18	69	39,8	1	006530124
* 27	14x18	76	44,8	1	006530127
* 30	14x18	77	44,8	1	006530130
* 32	14x18	79	44,8	1	006530132
* 34	14x18	80	44,8	1	006530134
* 36	14x18	80	44,8	1	006530136
* 38	14x18	90	49,8	1	006530138
* 41	14x18	90	49,8	1	006530141

*Caution! Recalculate torque value to set as shown in table at end of price list

654

ring wrenches
for torque bars,
round drive, Ø 22 mm



mm	L mm	LA mm	A mm		
22	98,5	56	38	1	006540022
24	98,5	56	38	1	006540024
27	102,8	56	46,5	1	006540027
30	102,8	56	46,5	1	006540030
32	106,5	56	55	1	006540032
34	106,5	56	55	1	006540034
36	106,5	56	55	1	006540036
41	115,5	56	72	1	006540041
46	115,5	56	72	1	006540046

659/15

adaptor with rectangular female (14x18 mm)
and male (9x12 mm) drives



mm	mm	mm	LA mm		
* 56	14x18	9x12	39	1	006590815

*Caution! Recalculate torque value to set as shown in table at end of price list



Always apply torque loads evenly
and progressively to avoid breakage
and any possible injury.

659/16

adaptor with rectangular female (9x12 mm)
and male (14x18 mm) drives



mm	mm	mm	LA mm		
* 52	9x12	14x18	31	1	006590816

*Caution! Recalculate torque value to set as shown in table at end of price list

Beta

665 MECHANICAL TORQUE WRENCH WITH DIGITAL READOUT

Torque wrench 665 matches the sturdiness and reliability of Beta's tried-and-test mechanism and established ratchet with quick readings and an accurate digital system.



RELIABILITY

Beta's sturdy ratchet results in smooth movements and a take-up angle of no more than 5°.

ACCURACY

±3% improved accuracy compared to standard requirements.

SMOOTHNESS

The click mechanism translates into lighter movements and improved accuracy.

DIGITAL READING

The torque value is easier to set and read.

LONG OPERATING LIFE

CALIBRATION

Multi-point calibration, to correct nonlinear spring behaviour, obtained with Beta's torque meters 682, without taking the wrench apart.

RAPIDITY

Quick, efficient torque adjustment.

QUICK, ACCURATE DIGITAL TORQUE ADJUSTMENT

665

mechanical torque wrench with digital setting and reversible ratchet, for right-hand tightening, torque accuracy $\pm 3\%$

- Auto power off after 10" when torque is set under minimum torque threshold
- Display will remain on with set torque value
- Torque setting to decimal digit
- Power supply: battery 1.3V (included)



UNI EN ISO 6789

Nm	■	D mm	A mm	L mm	g
10÷60	3/8	30	33	335	655
665/6 1 006650006					
20÷100	3/8	30	33	375	725
665/10 1 006650010					
20÷100	1/2	30	37	375	725
665/10X 1 006650011					
40÷200	1/2	40	43	470	995
665/20 1 006650020					
60÷330	1/2	40	43	590	1260
665/30 1 006650030					



665LB

mechanical torque wrench, digital readout, with reversible ratchet, for right-hand tightening, torque accuracy: $\pm 3\%$

- Unit of measurement: lbf.ft
- Torque is easy to set and read through value shown on display
- Display remains on with set torque value
- Torque reading to 0.1 mm
- Automatic switch-off after 30 sec. with torque setting under minimum threshold
- Power supply: 1 3V battery (included)



UNI EN ISO 6789

lbf.ft	mm	D	A	L	g
7÷45	3/8	30	33	335	655

665LB/6 1 006650106

lbf.ft	mm	D	A	L	g
15÷75	3/8	30	33	375	725

665LB/10 1 006650110

lbf.ft	mm	D	A	L	g
15÷75	1/2	30	37	375	725

665LB/10X 1 006650111

lbf.ft	mm	D	A	L	g
30÷150	1/2	40	43	470	995

665LB/20 1 006650120

lbf.ft	mm	D	A	L	g
45÷240	1/2	40	43	590	1260

665LB/30 1 006650130

665SW

calibration device

- Device allows calibration of wrenches item 665 with help of torque meters 680 and 682, without having to dismantle wrench.
- Calibration is performed on several points, to compensate for nonlinear behaviour of spring.
- Fitted with a micro USB port, for firmware updates.



665SW 1 006650100

666N CLICK-TYPE TORQUE WRENCHES



17 meshing teeth allow excellent effort distribution



Scale increased for improved visibility and setting accuracy



Handle and lens materials resistant to all chemical substances used in automotive sector, industry and aviation



Extremely high torque adjustment speed
Red colour of o-ring indicates that wrench is unlocked and torque can be adjusted

666N

click-type torque wrenches with reversible ratchets, for right-hand tightening, torque accuracy: $\pm 3\%$



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	mm	D	A	L	g
5÷25	0,5÷2,5	4÷18	1/4	25	29	220	300

666N/2 1 006660002

Nm	Kgfm	lbf.ft	mm	D	A	L	g
5÷25	0,5÷2,5	4÷18	3/8	25	29	220	300

666N/2X 1 006660003

Nm	Kgfm	lbf.ft	mm	D	A	L	g
10÷50	1÷5	7÷37	3/8	30	33	325	660

666N/5 1 006660005

Nm	Kgfm	lbf.ft	mm	D	A	L	g
20÷100	2÷10	15÷75	3/8	30	33	367	730

666N/10 1 006660010

Nm	Kgfm	lbf.ft	mm	D	A	L	g
20÷100	2÷10	15÷75	1/2	30	37	367	800

666N/10X 1 006660011

Nm	Kgfm	lbf.ft	mm	D	A	L	g
40÷200	4÷20	30÷150	1/2	40	43	465	1010

666N/20 1 006660020

Nm	Kgfm	lbf.ft	mm	D	A	L	g
60÷300	6÷30	50÷220	1/2	40	43	581	1380

666N/30 1 006660030



666N LBF.IN

click-type torque wrenches with reversible ratchets, for right-hand tightening torque accuracy: $\pm 3\%$
 • Scale in pounds force per inch



UNI EN ISO 6789

lbf.in	mm	D	A	L	g
90÷440	3/8	30	33	325	660

666N-LBF.IN/5 1 006660055

lbf.in	mm	D	A	L	g
200÷900	3/8	30	33	367	730

666N-LBF.IN/10 1 006660070

lbf.in	mm	D	A	L	g
200÷900	1/2	30	37	367	800

666N-LBF.IN/10X 1 006660071

lbf.in	mm	D	A	L	g
400÷1800	1/2	40	43	465	1010

666N-LBF.IN/20 1 006660072

lbf.in	mm	D	A	L	g
500÷3000	1/2	40	43	581	1380

666N-LBF.IN/30 1 006660073

667N

click-type torque wrenches with push-through ratchets, for right-hand and left-hand tightening, torque accuracy: $\pm 3\%$



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	mm	D	A	L	g
40÷200	4÷20	30÷150	1/2	40	43	465	1010

667N/20 1 006670020

Nm	Kgfm	lbf.ft	mm	D	A	L	g
60÷300	6÷30	50÷220	1/2	40	43	581	1380

667N/30 1 006670030

Nm	Kgfm	lbf.ft	mm	D	A	L	g
80÷400	8÷40	60÷295	3/4	50	50	687	2090

667N/40 1 006670040

Spare parts
 rotating mechanism of ratchets,
 see table after item 929/C8

668N

click-type torque bars, for right-hand and left-hand tightening, torque accuracy: $\pm 3\%$



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	Ø	L	LB	LS	g
5÷25	0,5÷2,5	4÷18	16	220	148	32	300

668N/2 1 006680002

Nm	Kgfm	lbf.ft	Ø	L	LB	LS	g
10÷50	1÷5	7÷37	16	307	229	32	590

668N/5 1 006680005

Nm	Kgfm	lbf.ft	Ø	L	LB	LS	g
20÷100	2÷10	15÷75	16	376	269	32	670

668N/10 1 006680010

Nm	Kgfm	lbf.ft	Ø	L	LB	LS	g
40÷200	4÷20	30÷150	16	450	352,6	32	795

668N/20 1 006680020

Nm	Kgfm	lbf.ft	Ø	L	LB	LS	g
60÷300	6÷30	50÷220	16	588	475,9	32	1230

668N/30 1 006680030

668RG

click-type torque bar, ungraduated for right-hand and left-hand tightening torque accuracy: $\pm 4\%$
 (to be used with items 680 - 682)



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	Ø	L	g
8÷60	0,8÷6	6÷44	16	288	550

668RG/6 1 006680206

Nm	Kgfm	lbf.ft	Ø	L	g
20÷100	2÷10	15÷80	16	315	600

668RG/10 1 006680210

Nm	Kgfm	lbf.ft	Ø	L	g
40÷200	4÷20	30÷150	16	405	780

668RG/20 1 006680220

Nm	Kgfm	lbf.ft	Ø	L	g
60÷300	6÷30	50÷220	16	645	1130

668RG/30 1 006680230

668RGC

click-type torque wrench, ungraduated, for right-hand tightening, torque accuracy: $\pm 4\%$
 (for use with items 680/40 - 682)



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	mm	D	A	L	g
12÷60	1,2÷6	5÷45	3/8	30	33	295	600

668RGC/6 1 006680406

Nm	Kgfm	lbf.ft	mm	D	A	L	g
20÷100	2÷10	15÷75	3/8	30	33	335	700

668RGC/10 1 006680410

Nm	Kgfm	lbf.ft	mm	D	A	L	g
20÷100	2÷10	15÷75	1/2	40	43	342	700

668RGC/10X 1 006680411

Nm	Kgfm	lbf.in	mm	D	A	L	g
40÷200	4÷20	30÷150	1/2	40	43	425	1000

668RGC/20 1 006680420



669N

click-type torque bars,
rectangular drive,
for right-hand and left-hand tightening,
torque accuracy: $\pm 3\%$



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	□ mm	L mm	LB mm	LS mm	⚖ g
5÷25	0,5÷2,5	4÷18	9x12	215	140	28,8	300

669N/2 1 006690202

Nm	Kgfm	lbf.ft	□ mm	L mm	LB mm	LS mm	⚖ g
10÷50	1÷5	7÷37	9x12	307	226,8	28,8	590

669N/5 1 006690205

Nm	Kgfm	lbf.ft	□ mm	L mm	LB mm	LS mm	⚖ g
20÷100	2÷10	15÷75	9x12	376	266,8	28,8	670

669N/10 1 006690210

Nm	Kgfm	lbf.ft	□ mm	L mm	LB mm	LS mm	⚖ g
40÷200	4÷20	30÷150	9x12	450	345,6	28,8	795

669N/20 1 006690220

Nm	Kgfm	lbf.ft	□ mm	L mm	LB mm	LS mm	⚖ g
40÷200	4÷20	30÷150	14x18	450	351	39,8	795

669N/20X 1 006690221

Nm	Kgfm	lbf.ft	□ mm	L mm	LB mm	LS mm	⚖ g
60÷300	6÷30	50÷220	14x18	588	468,5	39,8	1230

669N/30 1 006690230

Nm	Kgfm	lbf.ft	□ mm	L mm	LB mm	LS mm	⚖ g
80÷400	8÷40	60÷295	14x18	664	563	39,8	2100

669N/40 1 006690240

671B/C5

torque bar item 604B/5 and accessories



671B/C5 1 006710001

	604B/5	1+5 Nm
	611	1/4
	641	5-6-7-8 mm
	900	4-5-5,5-6-7-8-9-10 mm

270x120x45 mm - ⚖ 1,3 kg

671B/C10

torque bar item 604B/10 and accessories



671B/C10 1 006710002

	604B/10	2÷10 Nm
	611	1/4
	641	6-7-8-10 mm
	900	4-5-5,5-6-7-8-9-10 mm

270x120x45 mm - ⚖ 1,4 kg

671N/C10

torque bar 668N/10
and accessories



671N/C10 1 006710110

	668N/10	100 Nm
	612	■ 3/8
	617	■ 3/8
	642	10-13-14-17-19 mm
	652	10-13-14-17-19 mm
	910A	□ 3/8 8-10-11-13-14-17-19 mm
	910/21	125 mm
	910/22	250 mm

400x180x45 mm - ⚖ 4,3 kg

671N/C20

torque bar 668N/20
and accessories



671N/C20 1 006710120

	668N/20	200 Nm
	614	■ 1/2
	619	■ 1/2
	642	10-13-14-17-19 mm
	652	10-13-14-17-19 mm
	920A	□ 1/2 10-11-13-14-17-19-22 mm
	920/20	75 mm
	920/21	125 mm
	920/22	255 mm

510x180x45 mm - ⚖ 5,5 kg

671N/C30

torque bar 668N/30
and accessories



671N/C30 1 006710130

	668N/30	300 Nm
	614	■ 1/2
	619	■ 1/2
	642	13-14-17-19 mm
	652	13-14-17-19 mm
	920A	□ 1/2 13-14-17-19-22-24-27 mm
	920/20	75 mm
	920/21	125 mm
	920/22	255 mm

620x180x45 mm - ⚖ 5,8 kg



Beta



Beta



674/C

click-type torque bars,
round drive Ø 22 mm,
for right-hand and left-hand tightening,
torque accuracy: ± 4%,
in case



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	Ø mm	L mm	LB mm	LS mm	kg
100÷500	10÷50	80÷400	22	786	725	56	3,4

674/C50 1 006740005

Nm	Kgfm	lbf.ft	Ø mm	L mm	LB mm	LS mm	kg
160÷800	16÷80	120÷600	22	997	915	56	4,5

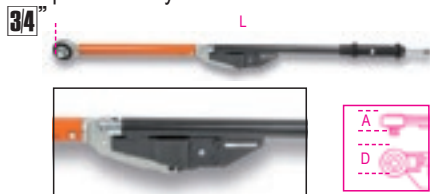
674/C80 1 006740008

Nm	Kgfm	lbf.ft	Ø mm	L mm	LB mm	LS mm	kg
200÷1000	20÷100	150÷750	22	997	915	56	4,5

674/C100 1 006740010

677

break-back torque wrenches
with push-through ratchets
for right-hand and left-hand tightening,
torque accuracy: ± 4%



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	D mm	A mm	L mm	kg
120÷600	12÷60	100÷450	69	55	1059	6,0

677/600 1 006770006

Nm	Kgfm	lbf.ft	D mm	A mm	L mm	kg
200÷800	20÷80	150÷600	69	55	1319	6,7

677/800 1 006770008

Nm	Kgfm	lbf.ft	D mm	A mm	L mm	kg
300÷1000	30÷100	200÷750	69	55	1554	7,4

677/1000 1 006770010

677/C

break-back torque wrenches
with push-through ratchets,
for right-hand and left-hand tightening,
torque accuracy: ±4%
in case



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	D mm	A mm	L mm	kg
120÷600	12÷60	100÷450	69	55	1059	6,0

677/C600 1 006770607

Nm	Kgfm	lbf.ft	D mm	A mm	L mm	kg
200÷800	20÷80	150÷600	69	55	1319	6,7

677/C800 1 006770612

Nm	Kgfm	lbf.ft	D mm	A mm	L mm	kg
300÷1000	30÷100	200÷750	69	55	1554	7,4

677/C1000 1 006770616

Nm	Kgfm	lbf.ft	D mm	A mm	L mm	kg
700÷1500	70÷150	500÷1000	69	55	1869	9,6

677/C1500 1 006770621

677/CP2000

break-back torque wrenches
with push-through ratchets,
for right-hand and left-hand tightening,
torque accuracy: ± 4%
in case



UNI EN ISO 6789

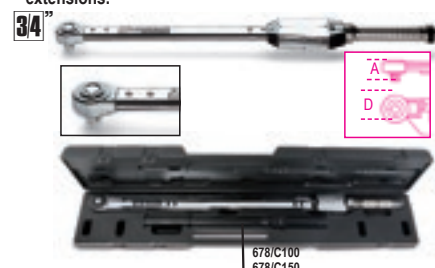
Nm	Kgfm	lbf.ft	D mm	A mm	L mm	kg
900÷2000	90÷200	700÷1500	69	63	1940	12,75

677/CP2000 1 006770721

678/C

click-type torque wrenches
with push-through ratchets
for right-hand and left-hand tightening,
torque accuracy: ± 4%
in case

• Models 678/C100 and 678/C150 supplied complete with extensions.



UNI EN ISO 6789

Nm	Kgfm	lbf.ft	D mm	A mm	L mm	kg
130÷650	13÷65	100÷480	63	55	885	3,9

678/C65 1 006780607

Nm	Kgfm	lbf.ft	D mm	A mm	L mm	kg
300÷1000	30÷100	220÷750	75	60	1250	6,0

678/C100 1 006780611

Nm	Kgfm	lbf.ft	D mm	A mm	L mm	kg
500÷1500	50÷150	370÷1100	75	60	1570	8,5

678/C150 1 006780615

677/CV - 678/CV

empty cases for torque wrenches
items 677 and 678



677/CVN1 1 006770455

677/C600-677/C800-677/C1000 1 006770460

677/CVN2 1 006770460

677/C1500-677/CP2000 1 006780455

678/CV1 1 006780455

678/C65 1 006780500

678/CV2 1 006780500

678/C100 1 006780415

678/CV3 1 006780415

677/C100-677/C150-678/C150

680

electronic digital torque meter
Dynatester 680
for testing calibration,
clockwise/anticlockwise operation

- Accuracy: $\pm 1\%$ of read value
- Colour LCD display, 4 digits
- 3 units of measurement: Nm - lbf.ft. - lbf.in



	Nm	kg		
680/3	0,1÷3	1,4	1	006800000
680/30	1,5÷30	1,4	1	006800003
680/350	10÷350	2,6	1	006800035
680/2100	200÷2100	3,5	1	006800210

682

electronic digital torque meter
with transducer Dynatester 682
to be used either clockwise
or anticlockwise
Remarkable reading accuracy
Supplied with serial output RS 232
for printers



682/60 10
682/400 22
682/1500 36

TECHNICAL FEATURES

Reading accuracy
 $\pm 1\%$ of the read value

Available measuring units
Nm-dNm-cNm-Lbf.ft-Lbf.in-Ozf.in-Kgf.m-Kgf.cm-gf.cm

Supply range
90 to 264 V AC at 50/60 Hz

Dimensions 235x185x185 mm

Tolerance test according to norm ISO 6789
Acceptability range
for each torque wrench tested

Display
Menu available in 11 languages
Provided with all certificates required
Calibration certificate with UKAS traceability

	Nm	kg		
682/60	1,2÷60	5,9	1	006820006
682/400	8÷400	6,1	1	006820040
682/1500	30÷1500	6,4	1	006820150

IMPACT SOCKETS



Impact sockets are oversized compared to hand sockets, so that they can absorb high torque as developed by impact wrenches and torque multipliers.

The new **bi-hex profile** allows for quick nut fit. They must be used with pins and grommets to prevent disengagement from the drive.

As well as the classic models in standard, long and long, slim series, the **new XZN® profile** is also available; furthermore, the range of accessories for impact sockets has been expanded.



710

impact sockets, standard series



UNI/ISO 2725 DIN 3129

mm	Ø	L	Ø1		
7	12,5	28	19	3	007100007
8	13,8	28	19	3	007100008
9	15,0	28	19	3	007100009
10	16,3	28	19	3	007100010
11	17,5	30	19	3	007100011
12	19,0	30	19	3	007100012
13	20,0	30	22	3	007100013
14	21,3	30	22	3	007100014
16	23,8	30	22	3	007100016
17	25,0	30	22	3	007100017
18	26,3	30	22	3	007100018
19	27,5	30	22	3	007100019
21	30,0	32	22	3	007100021
22	32,0	32	22	3	007100022

710/C10

10 impact sockets



710/C10

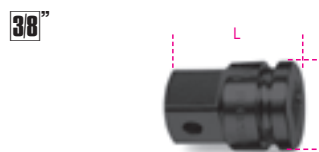
7-8-10-11-12-13
14-17-19-22 mm

1 007100910

130x55x40 mm - 800 g

710/16

impact adaptor, 3/8" female
and 1/2" male drives



L	Ø				
32	22	3/8	1/2	3	007100810

710/20

3/8" drive impact extension bar



L	Ø				
75	22			2	007100821