



Puller / Torque wrench

7-1 Torque wrench



7-9 Torque handle fittings / Torque driver



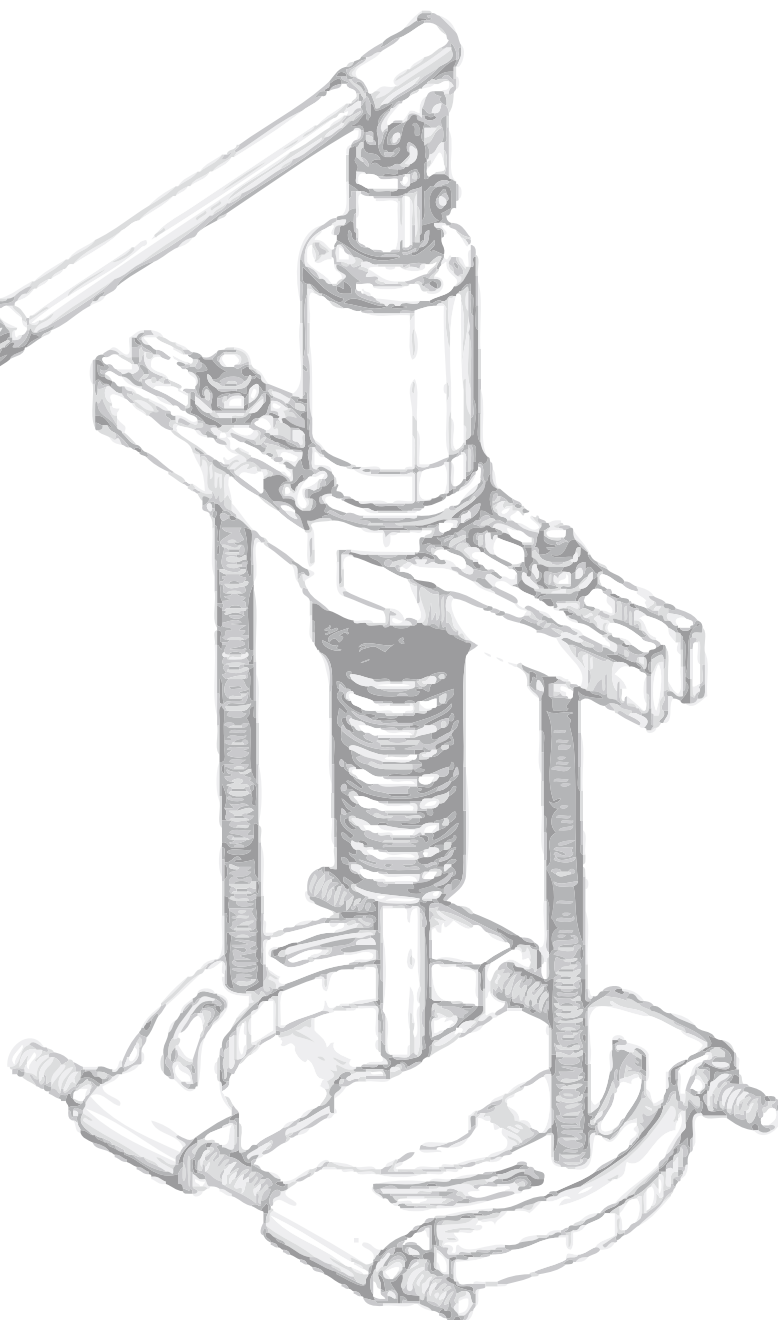
7-16 Torque multiplier



7-19 Puller tool (bearing / gear separator)



7-38





PULLER / TORQUE WRENCH

9pc 1/2"DR. Wheel specialized torque tool set



64707

1/13.5/14.5/1.4' 13.5kg

	3pc	44585	Wheel nut 6pt. flank impact socket 17C...21C 17; 19; 21 mm (85 mmL)
	1pc	6474088N	Torque wrench 88 Nm
	1pc	6474108N	Torque wrench 108 Nm
	1pc	6474135N	Torque wrench 135 Nm
	1pc	6474163N	Torque wrench 163 Nm
	1pc	6474190N	Torque wrench 190 Nm
	1pc	681A300	Assembly wheel nut wrench 17; 19; 13/16"; 1/2"DR. (300 mmL)

3/8"DR. Preset torques wrench



647...P

	Capacity	<i>l</i>	
Part no.	Nm	mm	g
647318P	18	245	410
647324P	24	245	410

11pc 3/8"DR. Torque wrench set



64701L

12/20.4/21.4/0.85' 1700g

	6pc	10; 12; 14; 17; 19; 21 mm
	4pc	4; 5; 6; 8 mm (50 mmL)
	1pc	20-110 Nm, 380 mmL (6473380)

11pc 1/2"DR. Torque wrench set



64702L

6/18/19/0.96' 3016g

	6pc	17; 19; 21; 22; 24; 27 mm
	4pc	6; 8; 10; 12 mm (55 mmL)
	1pc	40-210 Nm, 535 mmL (6474535)

Tone control torques wrench

NEW

TORQUE



647...K	Capacity	<i>l</i>		
Part no.	Nm	mm	packing	g
6472275K	1/4"DR. 5-25	275	24/19.44/20.27/1.62'	595
6473275K	3/8"DR. 5-25	275	24/20.40/21.32/1.62'	595
6473370K	20-110	370	24/25.68/26.51/1.62'	830
6474450K	1/2"DR. 42-210	450	12/19.56/20.51/1.30'	1316
6474570K	70-340	570	12/23.98/25.02/1.86'	1658
Part no.	Inch-lb	mm	packing	g
6472275KS	1/4"DR. 55-250	275	24/19.44/20.27/1.62'	595
6473275KS	3/8"DR. 55-250	275	24/20.40/21.32/1.62'	595
Part no.	Ft-lb	mm	packing	g
6473370KS	3/8"DR. 15-80	370	24/26.16/27.01/1.62'	830
6474450KS	1/2"DR. 30-150	450	12/19.44/20.18/1.30'	1316
6474570KS	50-250	570	12/23.98/25.02/1.86'	1658

• Spare part available



PULLER / TORQUE WRENCH





PULLER / TORQUE WRENCH

Tone control torque wrench

NEW

TORQUE



Unlock



Hold & Adjust



Lock

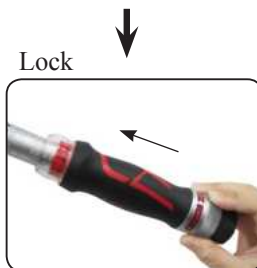
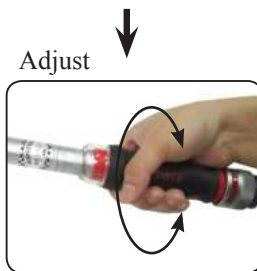


647...J	Capacity	<i>l</i>		
Part no.	Nm	mm	packing	g
6472030J	1/4"DR. 6-30	281	24/18.96/19.79/1.41'	530
6473030J	3/8"DR. 6-30	281	24/17.76/18.55/1.41'	530
6473110J	20-110	361	24/23.04/23.90/1.62'	770
6474210J	1/2"DR. 40-210	461	12/18.12/18.86/1.30'	1250
6474350J	50-350	553	12/21.84/22.85/1.86'	1590
6476600J	3/4"DR. 100-600	1010	2/12.79/13.93/1.53'	4730
6476800J	150-800	1200	2/14.11/15.24/1.53'	5990
64761000J	200-1000	1200	2/15.20/16.35/1.53'	5990
64781000J	1"DR. 200-1000	1200	2/15.36/16.61/1.53'	5990
Part no.	Inch-lb	mm	packing	g
6473030JS	3/8"DR. 55-250	281	24/18.24/19.18/1.41'	530
Part no.	Ft-lb	mm	packing	g
6473110JS	3/8"DR. 15-80	361	24/22.8/23.66/1.62'	770
6474210JS	1/2"DR. 30-150	461	12/18.36/19.16/1.30'	1250
6474350JS	50-250	553	12/21.84/22.85/1.86'	1590
6476600JS	3/4"DR. 100-450	1010	2/13.00/14.15/1.53'	4730
6476800JS	100-600	1200	2/14.21/15.34/1.53'	5990
64781000JS	1"DR. 150-750	1200	2/15.19/16.33/1.53'	5990

• Spare part available



Lock torques wrench (tone control)



647	Capacity	<i>l</i>		
Part no.	Nm	mm	packing	g
6473383	3/8"DR. 10-80	383	12/12.5/13.1/0.76'	740
6473385	20-110	383	12/14.0/15.0/0.76'	960
6474536	1/2"DR. 40-210	535	10/21.5/22.1/1.34'	1764
6474646	70-350	645	6/18.4/19.0/0.92'	2540
6476865	3/4"DR. 100-500	865	4/19.5/20.5/1.1'	3660
64761088	140-700	1088	4/30.0/31.0/1.9'	5940
64761230	140-980	1230	2/16.0/17.0/1.1'	6460
64781230	1"DR. 140-980	1230	2/16.0/17.0/1.1'	6460
Part no.	Ft-lb	mm	packing	g
6473383S	3/8"DR. 10-60	383	12/12.5/13.1/0.76'	740
6473385S	15-80	383	12/14.0/15.0/0.76'	960
6474536S	1/2"DR. 30-150	535	10/20.6/21.2/1.3'	1070
6474646S	50-250	645	6/18.4/19.0/0.92'	2540
6476865S	3/4"DR. 50-300	865	4/19.5/20.5/1.1'	3660
64761088S	100-600	1088	4/30.0/31.0/1.9'	5940
64761230S	100-700	1230	2/16.0/17.0/1.1'	6460
64781230S	1"DR. 100-700	1230	2/16.0/17.0/1.1'	6460

• Spare part available



Clockwise click
for right thread nut



Anti-clockwise click
for left thread nut



PULLER / TORQUE WRENCH





PULLER / TORQUE WRENCH

Lock torque wrench - window display

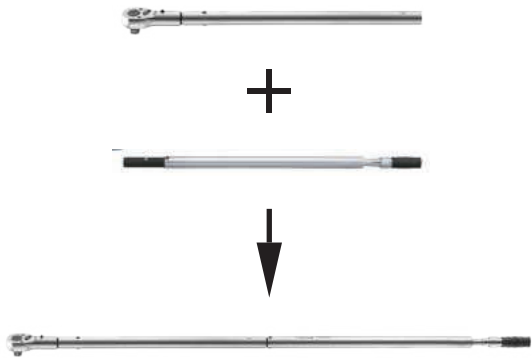


647...W		Capacity	<i>l</i>	
Part no.		Nm	mm	g
6472290W		1/4"DR. 5-25	290	420
6473360W		3/8"DR. 10-50	360	920
6473405W	NEW	20-100	405	1020
6474405W		1/2"DR. 20-100	405	1020
6474500W		40-200	500	1200
6474595W		60-300	595	1330
6474680W		80-400	680	1820
6476970W		3/4"DR. 110-550	970	3700
64761150W		150-750	1150	5600
64781250W		1"DR. 200-1000	1250	7200

• Spare part available



Double click torque wrench



647A		Capacity	<i>l</i>	
Part no.		Nm / in-lb	mm	kg
647A6021		3/4"DR. 300-1500 Nm	1700	12
647A6021S		200-1000 Ft-lb	1700	12
647A8021		1"DR. 300-1500 Nm	1700	12
647A8021S		200-1000 Ft-lb	1700	12
647A8031		1"DR. 400-2000 Nm	2146	13
647A8031S		300-1500 Ft-lb	2146	13

• Spare part available



Double click torque wrench



647A	Capacity	<i>l</i>	
Part no.	Nm/in-lb	mm	kg
647A1201	1-1/2"DR. 600-3000 Nm	2780	15
647A1201S	400-2000 Ft-lb	2780	15

• Spare part available



Lock torques wrench-window display (tone control)



6472195W

30/10.2/11.2/0.74' 340g

- 1/4"DR. 3-15 Nm (195 mm)
- Nm in display only.

Digital torque wrench

NEW



647G

- Buzzer and LED indicator.
- Mode: Peak, Track.
- Auto sleep after 120s of being idle.
- USB Data out.
- CW/ CCW Direction.
- Accuracy: CW $\pm$ 1% / CCW $\pm$ 1.5%
- Memory: 100 Readings.
- Unit selection: Nm, Ft-lb, In-lb, kg-m.
- Battery: 1.5V AA Batteries x 3 (not included)

• Spare part available



647G	Torque Range					<i>l</i>	
Part no.	DR.	Nm	Ft-lb	In-lb	Kg-m	mm	g
647G2360	1/4"	3-30	2.21-22.13	26.5-265.5	0.30-3.05	360	1012
647G3440	3/8"	10-100	7.3-73.7	88-885	1.02-10.20	440	1214
647G4640	1/2"	35-350	25.8-258.1	309.75-3097.5	3.57-35.7	640	1928



PULLER / TORQUE WRENCH

Digital angle torque wrench

NEW



647G...A

- Torque angle: 1°-180°
- Buzzer and LED indicator.
- Mode: Peak, angle & peak, Track.
- Auto sleep after 120s of being idle.
- RS-232 Data out.
- CW/CCW Direction.
- Accuracy: CW±1% / CCW ±1.5%
- Memory: 50 Readings.
- Unit selection: Nm, Ft-lb, In-lb, kg-m.
- Battery: 1.5V AA Batteries x 3 (not included)

• Spare part available



647G...A		Torque Range				<i>l</i>	
Part no.	DR.	Nm	Ft-lb	In-lb	Kg-m	mm	g
647G2360A	1/4"	3-30	2.21-22.13	26.5-265.5	0.30-3.05	360	1012
647G3440A	3/8"	10-100	7.3-73.7	88-885	1.02-10.20	440	1214
647G4640A	1/2"	35-350	25.8-258.1	309.75-3097.5	3.57-35.7	640	1749

Interchangeable torque handle (Adjustable torque)



647B		Torque	<i>l</i>	
Part no.	mm	Nm	mm	g
647B005D	9 x 12	1-5	195	340
647B030D	9 x 12	6-30	220	420
647B110D	9 x 12	20-110	403	970
647B210D	14 x 18	40-210	460	1160
647B350D	14 x 18	70-350	525	1310
647B450D	14 x 18	75-450	775	2220

647B		Torque	<i>l</i>	
Part no.	mm	Nm	mm	g
647B800D	20 x 28.5	100-800	960	5750
647B1000D NEW	20 x 28.5	200-1000	1100	5460
647B1500D	20 x 28.5	300-1500	1786	12500

1/4"DR. Torque driver



647216	Capacity		
Part no.	Nm	packing	g
64721602	0.4-2	100/18.0/18.8/1.02'	130
64721605	1-5	30/11.7/12.3/1.0'	280
64721608	2-8	30/13.21/13.81/1.0'	280
64721610	2-10	30/13.6/14.0/0.96'	452

1/2" Digital torque adapter

NEW



647G4075

 48/18.2/19.2/1.7'  290g

- Converts any ratchet or breaker bar into a digital torque wrench.
- Displaying torque value when pressure is applied.
- Highest torque value displayed after load is released (PEAK mode).
- Accurate within $\pm 2\%$.
- Torque range: 30 to 260 Ft-lb, 40 to 350 Nm.
- 180 degrees swivel screen.
- LED backlight.
- 10 memory settings.
- Unit selection: Nm, Ft-lb, In-lb, kg-m, kg-cm.
- Length: 76 mm.
- Battery not included.

3/4" Digital torque extension

NEW



647G6250

 12/22.0/25.4/2.4'  1874g

- Converts any ratchet or breaker bar into a digital torque wrench.
- Displaying torque value when pressure is applied.
- Highest torque value displayed after load is released. (PEAK mode).
- Accurate within $\pm 2\%$.
- Torque range: 52 to 600 Ft-lb (70 to 813 Nm).
- LED backlight.
- 10 memory settings.
- Unit selection: Nm, Ft-lb, In-lb, kg-m, kg-cm.
- Length: 255 mm.
- Battery not included



PULLER / TORQUE WRENCH

8pc Head-interchangeable torque wrench & spanner set



64709

4/15.7/16.7/0.78' 3925g

647B210	1pc	Torque wrench 40-210 Nm (14x18 mm)
685C14	7pc	Single hook spanner head (14x18 mm)
32...82		32; 43; 50; 60; 63.2; 72; 82 mm

10pc Head-interchangeable torque wrench & spanner set



64710

10/15.2/15.8/1.29' 1520g

647B030	1pc	Torque wrench 6-30 Nm (9x12 mm)
647H209	1pc	1/4"DR. Ratchet head 24teeth (9x12 mm)
68509	8pc	Spanner head (9x12 mm)
07...14		7; 8; 9; 10; 11; 12; 13; 14 mm

12pc Head-interchangeable torque wrench & spanner set



64711

10/21.6/22.6/1.68' 2160g

647B110	1pc	Torque wrench 20-110 Nm (9x12 mm)
647H309	1pc	3/8"DR. Ratchet head 24teeth (9x12 mm)
68509	10pc	Spanner head (9x12 mm)
10...19		10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm

11pc Head-interchangeable torque wrench & spanner set



64712

30/23.0/24.0/0.74' 765g

647B015	1pc	Torque wrench 3-15 Nm (9x12 mm)
647H209	1pc	1/4"DR. Ratchet head 24teeth (9x12 mm)
685E09	9pc	Spanner head (9x12 mm)
051...069		5.1; 5.8; 6.1; 6.3; 6.4; 6.5; 6.7; 6.9 mm; 6pt. Spline

10pc Head-interchangeable torque wrench & spanner set



64713

 10/15.2/16.2/1.29'  1520g

647B030W	1pc	Torque wrench 6-30 Nm (9x12 mm)
647H309A	1pc	3/8"DR. Ratchet head 24teeth (9x12 mm) (small, width 27 mm)
68509 07...14	8pc	Spanner head (9x12 mm) 7; 8; 9; 10; 11; 12; 13; 14 mm

12pc Head-interchangeable torque wrench & spanner set



64714

 10/18.1/18.7/1.68'  1810g

647B060W	1pc	Torque wrench 12-60 Nm (9x12 mm)
647H409	1pc	1/2"DR. Ratchet head 24teeth (9x12 mm)
68509 10...19	10pc	Spanner head (9x12 mm) 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm

12pc Head-interchangeable torque wrench & spanner set



64715

 10/21.6/22.4/1.68'  2160g

647B100W	1pc	Torque wrench 20-100 Nm (9x12 mm)
647H409	1pc	1/2"DR. Ratchet head 24teeth (9x12 mm)
68509 10...19	10pc	Spanner head (9x12 mm) 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm

8pc Head-interchangeable torque wrench & spanner set



64704

 6/19.5/20.5/1.2'  3250g

647B080	1pc	Torque wrench 10-80 Nm (14x18 mm)
647H414A	1pc	1/2"DR. Ratchet head 24teeth (14x18 mm) (small, width 36 mm)
68514 17...29	6pc	Spanner head (14x18 mm) 17; 22; 24; 26; 27; 29 mm

11pc Head-interchangeable torque wrench & spanner set



64705

 4/17.7/18.7/0.96'  4425g

647B210	1pc	Torque wrench 40-210 Nm (14x18 mm)
647H414	1pc	1/2"DR. Ratchet head 24teeth (14x18 mm)
68514 13...30	9pc	Spanner head (14x18 mm) 13; 14; 15; 17; 19; 22; 24; 27; 30 mm



PULLER / TORQUE WRENCH





PULLER / TORQUE WRENCH

Torque handle fittings

647H

24 Teeth ratchet head (9 x 12 mm)



Part no.	DR.
647H209	1/4"
647H309	3/8"
647H309A	3/8" (small, width 27 mm)
647H409	1/2"

647H...-72

72 Teeth round ratchet head (9 x 12 mm)



Part no.	DR.
647H209-72	1/4"
647H309-72	3/8"
647H409-72	1/2"

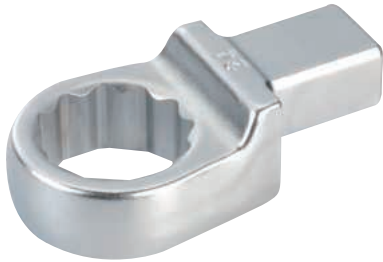
68509

Open end wrench head (9 x 12 mm)



Part no.	size (mm)
6850907	7
6850908	8
6850909	9
6850910	10
6850911	11
6850912	12
6850913	13
6850914	14
6850915	15
6850916	16
6850917	17
6850918	18
6850919	19

Torque handle fittings



685A09

Box end wrench head (9 x 12 mm)

Part no.	size (mm)
685A0907	7
685A0908	8
685A0910	10
685A0911	11
685A0912	12
685A0913	13
685A0914	14
685A0915	15
685A0916	16
685A0917	17
685A0918	18
685A0919	19
685A0921	21
685A0922	22



685B09

Flare nut wrench head (9 x 12 mm)

Part no.	size (mm)
685B0910	10
685B0911	11
685B0912	12
685B0913	13
685B0914	14
685B0916	16
685B0917	17
685B0918	18
685B0919	19
685B0921	21
685B0922	22



647H

24 Teeth ratchet head (14 x 18 mm)

Part no.	DR.
647H314	3/8"
647H414	1/2"
647H414A	1/2" (small, width 36 mm)



PULLER / TORQUE WRENCH

■ Torque handle fittings



647H...-72

72 Teeth round ratchet head (14 x 18 mm)

Part no.	DR.
647H414-72	1/2"
647H314-72	3/8"



647H

60 Teeth ratchet head (20 x 28.5 mm)

Part no.	DR.
647H620	3/4"
647H820	1"



68514

Open end wrench head (14 x 18 mm)

Part no.	size (mm)	Part no.	size (mm)
6851413	13	6851429	29
6851414	14	6851430	30
6851415	15	6851432	32
6851416	16	6851434	34
6851417	17	6851436	36
6851418	18	6851438	38
6851419	19	6851440	40
6851421	21	6851441	41
6851422	22	6851442	42
6851424	24	6851444	44
6851426	26	6851446	46
6851427	27		



685A14

Box end wrench head (14 x 18 mm)

Part no.	size (mm)	Part no.	size (mm)
685A1413	13	685A1429	29
685A1414	14	685A1430	30
685A1415	15	685A1432	32
685A1416	16	685A1434	34
685A1417	17	685A1436	36
685A1418	18	685A1438	38
685A1419	19	685A1440	40
685A1421	21	685A1441	41
685A1422	22	685A1442	42
685A1424	24	685A1444	44
685A1426	26	685A1446	46
685A1427	27		



685C14

Single hook spanner head (14 x 18 mm)

Part no.	size (mm)
685C1432	32 ±5 mm (strong type)
685C1443	43 ±5 mm
685C1450	50 ±5 mm
685C1460	60 ±5 mm
685C1463	63.2 ±5 mm
685C1472	72 ±5 mm
685C1482	82 ±5 mm



685D14

Double hook spanner head (14 x 18 mm)

Part no.	size (mm)
685D1432	31.6 ±5 mm
685D1435	34.9 ±5 mm
685D1442	41.9 ±5 mm
685D1450	50 ±5 mm
685D1463	62.9 ±5 mm



68520

Open end wrench head (20 x 28.5 mm)

Part no.	size (mm)
6852032	32
6852036	36
6852041	41
6852046	46
6852050	50
6852055	55
6852060	60
6852065	65



685A20

Box end wrench head (20 x 28.5 mm)

Part no.	size (mm)
685A2036 NEW	36
685A2041 NEW	41
685A2046 NEW	46
685A2050	50
685A2055	55
685A2060	60
685A2065	65





PULLER / TORQUE WRENCH

2pc 1/4"DR. Torque driver set



64703

40/15.7/16.7/0.5' 393g

	1pc	1-5 Nm (64721605)
	1pc	1/4"DR. x 1/4"(F)

64703A

40/15.7/16.7/0.5' 393g

Changed items		
	1pc	2-8 Nm (64721608)

47pc 1/4"DR. Torque driver set



K64706

24/20/21/1.5' 905g

	4pc	1/4" PH.0; PH.1; PH.2; PH.3 (25 mmL)
	4pc	1/4" PZ.0; PZ.1; PZ.2; PZ.3 (25 mmL)
	5pc	1/4" 3; 4; 5; 5.5; 6.5 mm (25 mmL)
	6pc	1/4" 1.5; 2; 3; 4; 5; 6 mm (25 mmL)
	3pc	1/4" 1; 2; 3 mm (25 mmL)
	11pc	1/4" T6; T7; T8; T9; T10; T15; T20; T25; T27; T30; T40 (25 mmL)
	11pc	1/4" T-6H; T-7H; T-8H; T-9H; T-10H; T-15H; T-20H; T-25H; T-27H; T-30H; T-40H (25 mmL)
	1pc	1-5 Nm (64721605)
	1pc	4" (100 mm)
	1pc	1/4"DR. x 1/4"(F)

K64706S

24/20.9/21.9/1.5' 905g

Changed items		
	1pc	10-50 Inch-lb (64721605S)

49pc 1/4"DR. Torque driver set



K64708

24/16.4/17.4/1.5' 684g

	4pc	1/4" PH.0; PH.1; PH.2; PH.3 (25 mmL)
	4pc	1/4" PZ.0; PZ.1; PZ.2; PZ.3 (25 mmL)
	5pc	1/4" 3; 4; 5; 5.5; 6.5 mm (25 mmL)
	6pc	1/4" 1.5; 2; 3; 4; 5; 6 mm (25 mmL)
	3pc	1/4" 1; 2; 3 mm (25 mmL)
	13pc	1/4" T4; T5; T6; T7; T8; T9; T10; T15; T20; T25; T27; T30; T40 (25 mmL)
	11pc	1/4" T-6H; T-7H; T-8H; T-9H; T-10H; T-15H; T-20H; T-25H; T-27H; T-30H; T-40H (25 mmL)
	1pc	1-5 Nm (64721605)
	1pc	1/4" Hex - 1/4" Sq (25 mmL)
	1pc	Magnetic 1/4" Hex - 1/4" Inhex 2.3" (60 mm)

Torque multiplier set



65111L

2/12.5/13.5/1'

3700g

- Always apply the break-away adapter in order to protect the torque multiplier from damage.
- The break-away adapter is expendable.

Contents:

2pc Torque multiplier head & 380 mm reaction bar (65111)

Drive: 1/2"(F) x 3/4"(M)

Gear ratio 1:9

Torque ratio 1:6.5

Max. Input: 231 Nm

Max. Output: 1500 Nm

1pc 90° Reaction bar (65111L-1)

1pc 90° Reaction base (65111L-2)

1pc Break-away adapter (65111L-3)

Torque multiplier set



65112L

2/13/14/1'

4000g

- Always apply the break-away adapter in order to protect the torque multiplier from damage.
- The break-away adapter is expendable.

Contents:

2pc Torque multiplier head & 380mm reaction bar (65112)

Drive: 1/2"(F) x 1"(M)

Gear ratio 1:12

Torque ratio 1:9

Max. Input: 222 Nm

Max. Output: 2000 Nm

1pc 90° Reaction bar (65112L-1)

1pc 90° Reaction base (65112L-2)

1pc Break-away adapter (65112L-3)





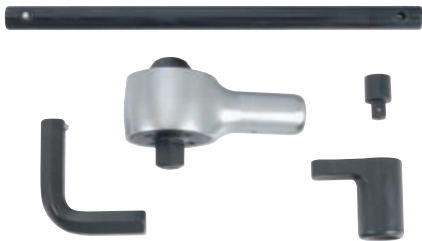
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Torque multiplier set

65113L

2/15/16/1'

4800g



- Always apply the break-away adapter in order to protect the torque multiplier from damage.
- The break-away adapter is expendable.

Contents:

2pc Torque multiplier head & 380mm reaction bar (65113)
Drive: 3/4"(F) x 1"(M)
Gear ratio 1:4
Torque ratio 1:3.3
Max. Input: 758 Nm
Max. Output: 2500 Nm
1pc 90° Reaction bar (65113L-1)
1pc 90° Reaction base (65113L-2)
1pc Break-away adapter (65113L-3)

Mechanical torque multipliers

65101 / 65102



	Max. Output	Square Drive	Ratio
Part no.	Nm/ Ft-lb	size	
65101	1500/1100	1/2" to 3/4"	1:3
65102	3000/2200	3/4" to 1"	1:3
	Max. Input		
Part no.	Nm/ Ft-lb	packing	g
65101	500/365	4/14.4/15.4/0.75'	3600
65102	1000/730	4/19.4/20.4/1.0'	4850

- Spare part available
- Impact use is prohibited
- **65101L/65102L:**
Supplied with the reaction bar styles for maximum versatility.

Torque multiplier



65103 / 65104

Part no.	Drive	Ratio	Max. Input	Max. Output	
			Nm / Ft-lb	Nm / Ft-lb	
65103	1/2"(F) x 3/4"(M)	1:10	150/110	1500/1100	3.4
65104	1/2"(F) x 1-1/2"(M)	1:10	400/300	4000/3000	16.0

- Impact use is prohibited

Mechanical torque multipliers



65106 / 65107

Part no.	Drive	Torque Ratio	Max. Input	Max. Output	
			Nm	Nm	
65106	1/2"(F) x 3/4"(M)	1:5	260	1300	8.8
65107	3/4"(F) x 1"(M)	1:5	540	2700	8.7

- Material: SCM440 (4140)
- Finish: Manganese phosphate

Mini torque multiplier

NEW



65108 / 65109

Part no.	Drive	Torque Ratio	Max. Input	Max. Output	
			Nm / Ft-lb	Nm / Ft-lb	
65108	1/2"(F) x 1/2"(M)	1:3.4	176/127	600/443	1.1
65109	1/2"(F) x 3/4"(M)	1:3.4	235/173	800/590	1.1

- Energy- saving tool for tire changing of car and van
- Small size, light weight, easy to carry & store.
- Supplied with the rubber-covered reaction bar for tire rim protection purpose.
- Accuracy: $\pm 5\%$.



Open ended pre-set torque wrench



647C	Spanner size	Torque	<i>l</i>	
Part no.	mm	Nm	mm	g
647C1817	17	18	220	410
647C4222	22	42	230	450
647C5526	26	55	290	600
647C6529	29	65	295	620

Pipe torque wrench



647P	Torque	Jaw opening	<i>l</i>	
Part no.	Nm	mm	mm	kg
647P210	40-210	48	590	3.0
647P350	70-350	63	825	3.7
647P500	100-500	63	920	4.3

• Accuracy: ±6%

Hydraulic bearing separator puller set



66601

2/15/16/1.06'

8840g

Contents:

1pc Hydraulic ram (SCM415 Diameter 37.7 mm x 160mmL x 16t)

1set Bearing separator & bolts, SCM415, capacity 75-105 mm

2pc Main rod (8" x 1.75p)

2pc Extension rod (8" x 1.75p)

1pc Beam

1pc Central adaptor (Ø1" x L30 mm)



Pressure screw separator puller set



66602

2/17.3/18.3/1.0'

8650g

Contents:

- 1pc Central bolt
- 1set Bearing separator & bolts, SCM415, capacity 75-105 mm
- 2pc Main rod (8" x 1.75p)
- 2pc Extension rod (8" x 1.75p)
- 1pc Beam
- 1pc Central nut
- 1pc Central extension rod
- 1pc Central adaptor (Ø1" x L30 mm)



Two sets bearing separator kit



66610

5/23.0/24.0/1.8'

4.6kg

Contents:

- 2 set Bearing separator & bolts (SCM415 Drop forged HRC 42-45)
- Capacity: 30-50 mm
- Capacity: 50-75 mm
- 4pc Main/Extension rod (Hex bar 17 mm x 127 mmL x 3/8" - 16T)
- 4pc Main/Extension rod (Hex bar 14 mm x 102 mmL x 3/8" - 16T)
- 1pc Beam (S45C)
- 1pc Forcing screw (Ø9/16" - 10T/inch x 175 mmL S45C)
- Packing: Blow mold case



Pressure screw separator puller set



66612

2/18.0/19.0/0.5'

9kg

Contents:

- 1set Bearing separator & bolts (SCM415 Drop forged HRC 42-45)
- Capacity: 75-105 mm
- 2pc Main rod (Hex bar 19 mm x 8" L x Ø15.24 mm - 1.75P)
- 2pc Extension rod (Hex bar 19 mm x 8" L x Ø15.24 mm - 1.75P)
- 1pc Beam (S45C)
- 1pc Forcing screw (Ø18.65 - 10T/inch x 292 mmL S45C)
- 1pc Central nut
- Packing: Metal case



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PULLER / TORQUE WRENCH

Hydraulic bearing separator puller set



66613

2/30/31/0.8'

12kg

Contents:

- 1pc Hydraulic ram (SCM420 Ø37.7 mm)
- 1set Bearing separator & bolts
(SCM415 Drop forged HRC 42-45)
Capacity: 105-150 mm
- 2pc Main rod
(Hex bar 21 mm x 10" L x Ø5/8" - 11 NC)
- 2pc Extension rod
(Hex bar 21 mm x 10" L x Ø5/8" - 11 NC)
- 1pc Beam (Ductile)
- 1pc Ram extension rod (Ø1" x L2")
- 1pc Ram extension rod (Ø1" x L4")
- 1pc Central adaptor (Ø1" x 30 mm)
- 1pc Step plat puller adaptor (Ø80 x Ø63 mm)
- Packing: Metal case



Mini bearing separator assembly



66614

20/12.7/13.7/0.8'

636g

Bearing separator inside:

- Capacity 3/8" to 1-1/4" (10 mm to 30 mm)
- Bolt (6.3 mm x 83 mmL x 1/4" x 20 UNC)
- Body thread 3/8" x 20 UNC

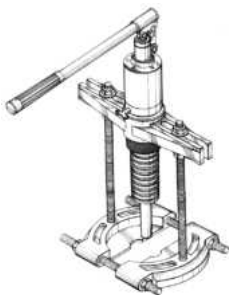


Pull out the bearing with the H-type beam and bolts.

Hydraulic bearing separator puller set



666	Capacity	Reach	Spread	Stroke	
Part no.	ton	mm	mm	mm	kg
66605	6	300/190	235/90	82	12.45
66606	8	300/245	235/90	82	13.75
66607	10	300/190	235/90	82	12.45
66608	12	300/245	235/90	82	13.75



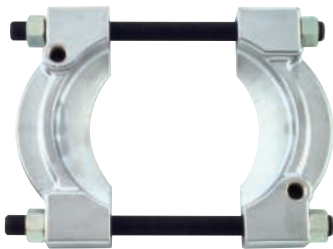
Bearing separator



666

Part no.	Capacity	Bolt	Hole
666050	1-1/4" to 2-1/4" (30-50 mm)	9.5 mm x 125 mmL x 3/8" x 24t	8.2 mm x 3/8" x 16t
666075	2-1/4" to 3-1/2" (50-70 mm)	12.7 mm x 135 mmL x 1/2" x 20t	8.2 mm x 3/8" x 16t
666105	3" to 4-1/2" (75-105 mm)	16 mm x 165 mmL x 5/8" x 18t	11.2 mm x 1/2" x 12t
666150	4" to 6" (105-150 mm)	19 mm x 260 mmL x 3/4" x 16t	14.6 mm x 5/8" x 11t
666225	35-225 mm	20 mm x 255 mmL	5/8" x 11P
666300	35-300 mm	26 mm x 355 mmL	3/4" x 10P

Bearing separator



666140

4/20.4/21.4/0.5'

5.1kg

- Capacity 1.5" to 6" (35-140 mm)

Bearing separator



666T

Part no.	A mm	<i>l</i> mm	 kg
666T050	12-50	88	0.43
666T100	26-100	154	2.27
666T160	50-160	228	6.07
666T260	90-260	344	19.4
666T380	140-380	482	48.21



PULLER / TORQUE WRENCH

Locking jaw puller set



664P

6/13.6/14.6/1.33' 2260g

- With several pulling attachments to give the user various methods for pulling, maintenance and repair applications.

Contents:

- 9pc Adjustable reversible jaw
- 1pc Forcing screw
- 1pc Two-way yoke
- 1pc Three-way yoke
- 1pc Reversible adjusting nut
- 3pc Screw & nut



Internal & external puller set



66431

3/15/16/1.2' 5002g

- Drop forged chrome vanadium steel

Contents:

- 1pc Internal small (Capacity: 15-30 mm)
- 1pc Internal large (Capacity: 30-80 mm)
- 1pc External (Capacity: 15-80 mm)
- 1pc Slide shaft
- 1pc Slide hammer
- 1pc Nut



Rear axle puller & external rearing puller set



66432

3/16.0/17.0/1.5' 5300g

- Chrome molybdenum steel external bearing puller with chrome plated & black finish.
- Suitable for rear axle puller & external bearing puller.

Contents:

- 1pc Slide screw: 5/8" - 16T x 22-1/2" (16 mm - 16T x 57cm)
- 1pc External bearing puller capacity from 15-80 mm (9/16" to 3-1/2")
- 3pc Axle yoke
- 1pc Bearing adaptor
- 1pc Slide hammer 3-3/4 LB (1.75 kg)
- 1pc Lock nut 5/8" (16 mm)
- 1pc Bearing hook

Blind hole bearing puller set



905T6

5/17.5/18.5/1.25' 3650g

- One slide hammer shaft & 4 clamps.
- Adjustable collets make easy removal of bearing or bushings from blind holes.
- Clamps:
7/16" to 1/2" (11-14 mm),
9/16" to 3/4" (15-19 mm),
11/16" to 15/16" (18-24 mm),
1" to 1-1/4" (25-32 mm)



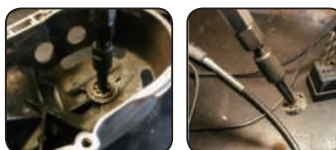
Blind hole bearing puller



910T1

5/16.5/17.5/1.66' 3500g

- Two-function bearing remover for puller and slide hammer.
- One slide hammer, 62 mm tailpipe expanders and pullers for 8-32 mm.



Blind hole bearing puller and slide hammer set

NEW



915T1

4/20.0/21.5/2.2' 5125g

- Two-function bearing remover for puller and slide hammer.
- One slide hammer, 62 mm tailpipe expanders and pullers for 8-55 mm.



PULLER / TORQUE WRENCH



2-in-1 Bearing puller (2 Jaws)



66621

 2/10.7/11.7/0.62'

 5400g

- Inside diameter 38-120 mm

2-in-1 Bearing puller (3 Jaws)



66620

 4/12.4/13.4/1.17'

 3050g

- Inside diameter 12-38 mm



Pilot bearing puller



66619

 20/18.3/19.0/0.8'

 920g

- Capacity: inside diameter 12-38 mm, 1/2" to 1-1/2"



Thick jaws gear puller



65910



20/15.0/16.0/0.61'



680g

- Jaws thickness: 1.5 mm
- Depth: 100 mm
- Bearing dimension: 40-90 mm



Bearing puller



666A

Capacity



Part no.	mm	packing	g
666A035	19-35	60/19.6/20.6/1.4'	280
666A055	24-55	24/19.3/20.3/1.4'	783
666A080	35-80	12/19.3/20.3/1.4'	600



Long jaw bearing puller



66616



20/24/25/1.1'



1200g

- For long distance pulling jobs
- Capacity 10-50 mm
- Alloy steel
- Jaw long 300 mm (SCM415 drop forged HRC 40-42)
- Drop forged hardened 48° - 50°
- Forcing screw (SCM415)
- Stopper cone (S45C)
- Connector (SCM415)



PULLER / TORQUE WRENCH



Bearing separator



66618



20/17.0/18.0/1.5'



800g

- This kit is different from other bearing separators. When obstruction is round external dia. and internal dia. of bearing, it can be used on the confined space to damage the protecting cover of bearing and easily remove bearings.
- Adjust range: 20-95 mm
- Bearing range:
6004-6010 (Jaw size: Ø6/8)
6201-6206 (Jaw size: Ø5.5/6/8)
6300-6304 (Jaw size: Ø6/8)



Bearing separator



66618M



12/22.0/23.0/1.3'



1700g

- This kit is different from other bearing separators. When obstruction is round external dia. and internal dia. of bearing, it can be used on the confined space to damage the protecting cover of bearing and easily remove bearings.
- Adjust range: 35-120 mm
- Bearing range:
6207-6211 (Jaw size: Ø11/12.5/15)
6305-6308 (Jaw size: Ø11/12.5)
6403-6405 (Jaw size: Ø11/12.5/15)

Unique bearing removal kit



66618MA



5/17.0/18.0/1.2'



2700g

- Three-way operation allows use with traditional bearing separator, internal or external legs or bearing race separator. Bearing race separator application makes this kit ideal for use on "blind" mounted bearings where rear of bearing is not accessible.
- Adjust range: 35-120 mm
- Bearing range:
6207-6211 (Jaw size: Ø11/12.5/15)
6305-6308 (Jaw size: Ø11/12.5)
6403-6405 (Jaw size: Ø11/12.5/15)
- Beam: 30-50 mm
- Legs: 30-90 mm

Hydraulic gear puller set



66622



1/16.5/17.5/1.2'



16.5kg

• For Agriculture / Machine / Garage / Industry use.

Contents:

- 1pc Hydraulic ram (SCM420 Ø37.7 mm)
- 1pc Twin head
- 1pc Triple head
- 1pc Ram nut (SCM415 HRC 42-45)
- 1pc Beam (S45C)
- 3pc 4" Leg (SCM415 HRC 42-45)
- 3pc 6" Leg (SCM415 HRC 42-45)
- 3pc 8" Leg (SCM415 HRC 42-45)
- 1pc Central adaptor (Ø1" x L 30 mm S45C)
- 1pc Ram extension rod (Ø1" x L 2" S45C)
- 1pc Ram extension rod (Ø1" x L 4" S45C)
- 2pc Main rod (Hex bar 19 mm x L 8" x Ø15.24 mm - 1.75P)
- 2pc Extension rod (Hex bar 19 mm x L 8" x Ø15.24 mm - 1.75P)
- 1pc Bearing separator, spread range 75-105 mm (SCM415 Drop forged HRC 42-45)

6 ways multi purpose hydraulic gear puller



66623



5/24.0/25.0/1.3'



4800g

Contents:

- 1pc Hydraulic ram (SCM420 Ø37.7 mm)
- 1pc Combination cross head (S45C)
- 3pc Combination leg (SCM415 Drop forged HRC 42-45)
- 6pc Steel plate
- 6pc Screw / Nut / Washer
- 1pc Central adaptor (Ø1" x L 30 mm S45C)
- 1pc Ram extension rod (Ø1" x L 2" S45C)



PULLER / TORQUE WRENCH





PULLER / TORQUE WRENCH

Micro 3" jaw lock puller



66617



12/12.0/13.0/0.7'



1420g

- Forcing screw (SCM415)
- Chuck (SCM415)
- 3" Jaw 3 pieces (SCM415)

Hydraulic 6" jaw lock puller



66617A



4/14.0/15.0/0.7'



5500g

- Hydraulic ram (SCM420)
- Chuck (SCM415)
- 6" Jaw 3 pieces (SCM415)

Inside puller



66624



12/19.0/20.0/2.0'



1600g

- Spread: 23-130 mm
- Depth: 140 mm

Outside puller



66625



12/22.0/23.0/1.6'



1.8kg

- Spread: 7-140 mm
- Depth: 147 mm

Universal puller set



66626

3/20.5/21.3/1.2'

7200g

Contents:

- 1pc Beam 2-arm
- 1pc Beam 3-arm
- 9pc Pulling legs, length 100/200/250 mm
- 2pc Spindle

Universal puller set



66627

2/25.0/26.0/1.25'

12.4kg

Contents:

- 1pc Beam 2-arm
- 1pc Beam 3-arm
- 9pc Pulling legs, length 150/220/300 mm
- 1pc Spindle

2&3 Jaws gear puller set



66628

6/16.5/17.5/0.93'

2.75kg

Contents:

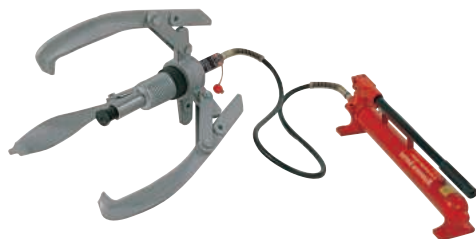
- 1pc Beam with 2-arm and 3-arm
- 6pc Pulling legs, length 130/200 mm
- 1pc Spindle (219 mm)



PULLER / TORQUE WRENCH



Separate hydraulic puller



Part no.	Capacity	Reach	Spread	Stroke	
	ton	mm	mm	mm	kg
6590825	25	375-15"	50/540	110	39.82

Hydraulic puller with hydraulic pump



Part no.	Capacity	Reach	Spread	Stroke	
	ton	mm	mm	mm	kg
6590850	50	405-16"	50/750	250	91.74
6590850L	50	635-25"	50/1000	250	99.47

Hydraulic puller



Part no.	Capacity	Reach	Spread	Stroke	
	ton	mm	mm	mm	kg
6591106	6	300-12"	95/235	82	6.25
6591108	8	300-12"	95/235	82	6.85
6591110	10	330-13"	95/235	82	6.25
6591112	12	330-13"	95/235	82	6.85

Hydraulic puller



Part no.	Capacity	Reach	Spread	Stroke	
	ton	mm	mm	mm	kg
6591206	6	170-7"	95/210	82	6.45
6591208	8	220-9"	95/220	82	7.75
6591210	10	190-8"	95/210	82	6.45
6591212	12	240-10"	95/220	82	7.75

Hydraulic puller



Part no.	Capacity	Reach	Spread	Stroke	
	ton	mm	mm	mm	kg
6591306	6	170-7"	95/210	82	8.7
6591308	8	220-9"	95/220	82	10.05
6591310	10	190-8"	95/210	82	8.7
6591312	12	240-10"	95/220	82	10.05

Hydraulic puller



Part no.	Capacity	Reach	Spread	Stroke	
	ton	mm	mm	mm	kg
6590604	4	152-6"	150	55	4.5
6590606	6	152-6"	200	82	5.95
6590606L	6	190-8"	200	82	4.9
6590608	8	190-8"	250	82	8.45
6590608L	8	225-10"	250	82	6.6
6590615	15	225-10"	280	82	8.0
6590615L	15	300-12"	280	82	8.0

Hydraulic puller



Part no.	Capacity	Reach	Spread	Stroke	
	ton	mm	mm	mm	kg
6590630	30	375-15"	540	110	35.2



PULLER / TORQUE WRENCH



■ Hydraulic puller



65907	Capacity	Reach 	Spread 	Stroke 	
Part no.	ton	mm	mm	mm	kg
6590710	10	182-7"	280	82	7.55
6590710L	10	220-9"	280	82	9.15
6590712	12	220-9"	305	82	10.65
6590712L	12	260-10"	305	82	12.25
6590720	20	260-10"	356	82	13.75
6590720L	20	300-12"	356	82	17.25

■ Hydraulic puller



6590725	Capacity	Reach 	Spread 	Stroke 	
Part no.	ton	mm	mm	mm	kg
6590725	25	300-12"	406	110	22.45
6590725L	25	375-15"	406	110	29.35

■ **Separate hydraulic puller**



65908	Capacity	Reach 	Spread 	Stroke 	
Part no.	ton	mm	mm	mm	kg
6590815	15	230-9"	50-280	82	14.64
6590815L	15	300-12"	50-350	82	21.12

Puller accessory



659C2	Capacity	Reach	Spread	Stroke	
Part no.	ton	mm	mm	mm	kg
659C208	8-12	220-9"	95/220	82	6.0
659C210	6-10	190-8"	95/210	82	4.8

Puller accessory



659C3	Capacity	Reach	Spread	Stroke	
Part no.	ton	mm	mm	mm	kg
659C308	8-12	220-9"	95/220	82	9.0
659C310	6-10	190-8"	95/210	82	7.65

Puller accessory and straightener



659A	Reach	Spread	Stroke	
Part no.	mm	mm	mm	kg
659A01	150	100/410	82	9.5
659A02	205	100/410	82	9.0
659A03	205/150	100/410	82	10.0

- This puller part converts 6590615 and 6590815 into a hydraulic straightening tool.



PULLER / TORQUE WRENCH



■ Gear puller - 2 Jaw



65901	Size	Capacity	Spread
Part no.	inch	ton	mm
6590103	3"	2	40/75
6590104	4"	4	50/100
6590106	6"	6	70/150
6590108	8"	10	95/200
6590112	12"	15	140/300



■ Gear puller - 3 Jaw



65902	Size	Capacity	Spread
Part no.	inch	ton	mm
6590203	3"	3	40/75
6590204	4"	6	50/100
6590206	6"	9	70/150
6590208	8"	15	95/200
6590212	12"	22	140/300



■ Gear puller – 2 Arm



65903	Span width	Capacity	
Part no.	mm	ton	kg
65903065	25-65	1.5	0.4
65903090	30-90	3.0	0.9
65903130	45-130	3.0	1.0
65903160	45-160	4.0	2.8
65903210	45-210	4.0	3.0
65903270	65-270	5.0	7.5
65903340	65-340	5.0	8.2

Gear puller - 2 Jaw



65909	Span width	Jaw depth	Capacity	
Part no.	mm	mm	ton	kg
65909090	90	100	3.0	1.1
65909130	130	100	3.0	1.3
65909160	160	150	5.0	3.2
65909200	200	150	5.0	3.6
65909250	250	200	7.5	7.8
65909350	350	200	7.5	9.2
65909520	520	200	10.0	15.2
65909640	640	225	15.0	23.2



Quick-adjusting puller - 2 Arm



65909...Q	Span width	Jaw depth		
Part no.	mm	mm	packing	kg
65909090Q	90	100	10/12.0/13.0/0.87'	1.2
65909130Q	130	100	10/13.8/14.8/1'	1.3
65909160Q	160	150	5/16.0/17.0/0.87'	3.1
65909200Q	200	150	5/18.3/19.3/1'	3.6
65909250Q	250	200	3/21.3/22.3/0.7'	7.3



Gear puller – 3 Arm



65910	Span width	Jaw depth		
Part no.	mm	mm	packing	kg
65910090	90	100	12/17.53/18.53/0.7'	1.5
65910130	130	100	12/19.65/20.65/0.96'	1.7
65910160	160	150	5/20.27/21.27/0.87'	4.1
65910200	200	150	5/22.0/23.0/0.87'	4.4
65910250	250	200	2/18.1/19.1/0.9'	9.1





PULLER / TORQUE WRENCH

Quick-adjusting puller - 3 Arm



65910...Q	Span width	Jaw depth		
Part no.	mm	mm	packing	kg
65910090Q	90	100	12/18.7/19.7/0.7'	1.5
65910130Q	130	100	12/20.1/21.1/0.96'	1.7
65910160Q	160	150	5/20.6/21.6/0.87'	4.1
65910200Q	200	150	5/22.3/23.3/1'	4.4
65910250Q	250	200	2/17.6/18.6/0.9'	8.8



Mechanical



65903	Reach	Spread	Stroke	Max. Output	
Part no.	mm	mm	mm	ton	kg
6590305	40	130	105	3-5	1.95
6590309	50	230	150	5-8	4.75
6590312	120	295	230	5-10	5.95