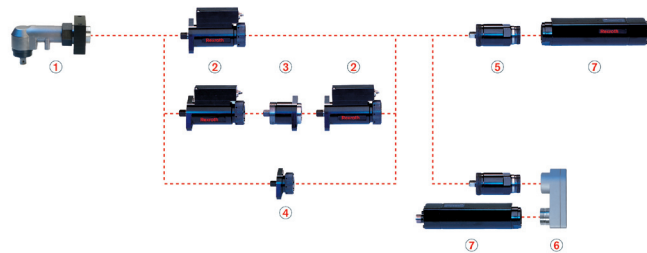


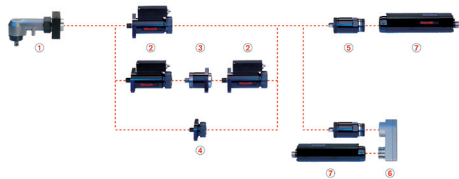
Angle head
6 - 220 Nm
Size 4



Angle head

6 - 220 Nm ■ Size 4

Documentation
• outputs
• Tightening spindles
• Gearboxes
• EC motor



Benefits:

- Reduced center-to-center distances
- Torque measurement directly at the screw
- Proximity switching digital measurement transfer
- Efficiency fluctuations do not affect measurements

Technical data

Tightening spindle		Angle head			Tightening spindles		PC-based		Tightening spindles	
[Nm]	[l/m]	Tool mount	Code	Order no.	Code	Order no.	Code	Order no.	Code	Order no.
6 - 52	985	1/2" square	4W130	0608810045	4DMC060	0608820114	4GE19	0608720056	-	-
6 - 56	320	1/2" square	4W130	0608810045			4GE59	0608720040	-	-
9 - 83	620	3/4" square	4W220	0608810046			4GE19	0608720056	-	-
9 - 90	204	3/4" square	4W220	0608810046			4GE59	0608720040	-	-

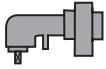
Side-by-side arrangement of tightening spindels (center-to-center distance)						
	Number of tightening spindles		2	3	4	5
	Smallest circle diameter Ø dmin [mm]	4W130	47	55	67	83.5
		4W220	62	72	88	106

- Accuracy is limited if operating below the working range.
- To ensure troublefree operation, the angle head always has to be operated with an output drive axial compensator e.g. spindle bearing.

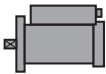
Components

1) Angle head

Angle head

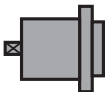
6 - 220 Nm ■ Size 4

Code		4W130	4W220
Order no.		0608810045	0608810046
Maximum torque	[Nm]	130	220
Reduction		1.05	1.67
Avg. efficiency		0.95	
Installation Length	[mm]	141.5	
Weight	[kg]	2.8 kg	3.2 kg

2) Tightening spindles

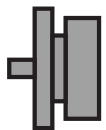
Code		4DMC060	4DMC160
Order no.			
Nominal torque	[Nm]	60	160
Reduction		1	
Avg. efficiency		1	
Installation Length	[mm]	122	
Weight	[kg]	1.6 kg	

- You can configure your tightening spindle with a redundant measurement transducer from the same type. Connect both measurement transducers with the 2AR adapter.

3) Redundant adapter

Code		4AR
Order no.		0608810022
Reduction		1
Avg. efficiency		1
Installation Length	[mm]	65
Weight	[kg]	0,8 kg

- When configuring with a redundant measurement transducer, the 2AR adapter connects both measurement transducers.

4) Adapter

Code		4A
Order no.		0608810026
Reduction		1
Avg. efficiency		1
Installation Length	[mm]	26.5
Weight	[kg]	0.4 kg

- When configuring without a measurement transducer, the 2A adapter connects the output drive and the planetary gearbox.

5) Planetary gearbox

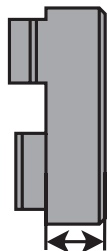
Angle head

6 - 220 Nm ■ Size 4



Code		4GE19	4GE59
Order no.		0608720056	0608720040
Reduction		19.3	58.6
Avg. efficiency		0.9	0.85
Installation Length	[mm]	82.9	105.5
Weight	[kg]	0.7 kg	1,1 kg

6) Transverse gearbox



Code		4ULG
Order no.		0608PE0024
Reduction		1
Avg. efficiency		0.9
Installation Length	[mm]	41.3
Weight	[kg]	1,4 kg

• The 2ULG transverse gearbox shortens the length of your tightening spindle by the installation length of the EC motor plus the installation length of the transverse gearbox.

7) EC motor



Code		EC304
Order no.		0608701018
Installation Length	[mm]	269
Weight	[kg]	2.7 kg

Accessories

Tightening spindle with spindle bearing, offset output drive or angle head



BG	(A)	
	Code	Order no.
BG 4	ML046	0608830222

Tightening spindle with spindle bearing, offset output drive or angle head and redundant measurement transducer



BG	(A)		(B)	
	Code	Order no.	Code	Order no.
BG 4	ML046	0608830222	MLR033	0608830174

Tightening spindle with transverse gearbox

Angle head

6 - 220 Nm ■ Size 4

BG	VMC	(A)	
		Code	Order no.
BG4	4VMC..	ML036	0608830171

Tightening spindle with transverse gearbox and redundant measurement transducer

BG	(A)		(B)	
	Code	Order no.	Code	Order no.
BG 4	ML046	0608830222	MLR033	0608830174

Connection cable straight – angle


Length A [mm]	Code	Order no.
3	SL003	0608830176
5	SL005	0608830177
7	SL007	0608830190
10	SL010	0608830178
15	SL015	0608830179
20	SL020	0608830180
0	SLF*	3608872160

Connection cable angle – angle

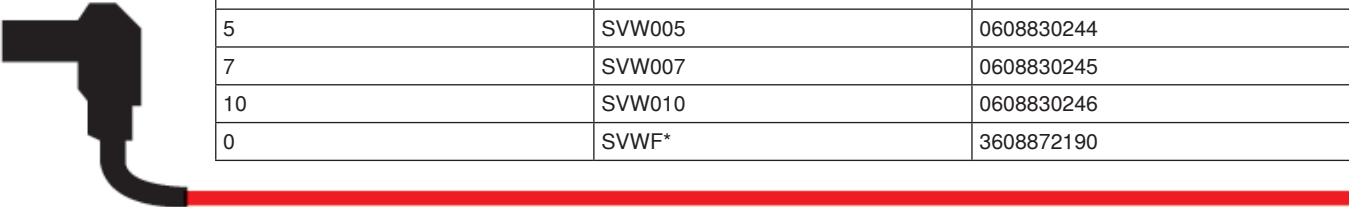
Length A [mm]	Code	Order no.
3	SLW003	0608830227
5	SLW005	0608830230
7	SLW007	0608830232
10	SLW010	0608830242
0	SLWF*	3608872170

Tightening spindle extension cable straight– straight

Angle head

6 - 220 Nm ■ Size 4


Length A	Code	Order no.
[mm]		
3	SV003	0608830188
5	SV005	0608830189
7	SV007	0608830247
10	SV010	0608830181
15	SV015	0608830182
20	SV020	0608830183
0	SVF*	3608872180

Tightening spindle extension cable angle –straight


Length A	Code	Order no.
[mm]		
3	SVW003	0608830243
5	SVW005	0608830244
7	SVW007	0608830245
10	SVW010	0608830246
0	SVWF*	3608872190

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