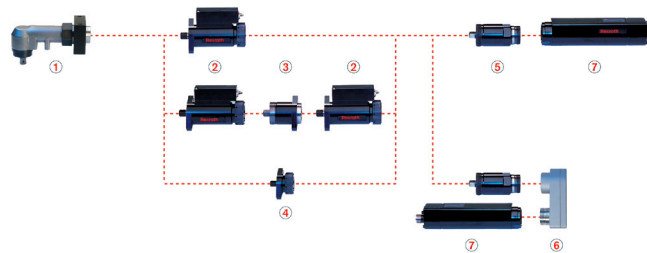


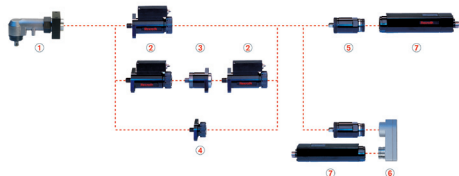
Angle head
1,7 - 90 Nm
Size 3



Angle head

1,7 - 90 Nm ■ Size 3

Documentation
• outputs
• Tightening spindles
• Gearboxes
• EC motor



Benefits:

- For restricted accessibility
- Precision toothing for high torque accuracy
- Incremental positioning
- Integrated fastening flanges
- With integrated measurement transducer on request

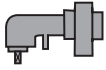
Technical data

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.		
1,7 - 16	705	-	-	-	3DMC017	0608820112	3GE27	0608720053	EC303	0608701017		
	280	-	-	-			3GE67	0608720039				
	705	3/8" square	3W050	0608810043			3GE27	0608720053				
	280	3/8" square	3W050	0608810043			3GE67	0608720039				
2,6 - 25	705	1/2" square	3W090	0608810044			3GE27	0608720053				
	280	1/2" square	3W090	0608810044			3GE67	0608720039				
6 - 27	705	-	-	-			3DMC060	0608820113			3GE27	0608720053
	280	-	-	-							3GE67	0608720039
6 - 32	705	3/8" square	3W050	0608810043	3GE27	0608720053						
6 - 50	280	3/8" square	3W050	0608810043	3GE67	0608720039						
9 - 50	705	1/2" square	3W090	0608810044	3GE27	0608720053						
9 - 90	175	1/2" square	3W090	0608810044	3GE67	0608720039						

Side-by-side arrangement of tightening spindles (center-to-center distance)							
	Number of tightening spindles		2	3	4	5	6
	Smallest circle diameter \varnothing dmin [mm]	3W027	29	34	41	50	58
		3W050	35	40	50	60	70
		3W090	45	52	64	78	90

- 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.

Angle head

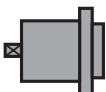
1,7 - 90 Nm ■ Size 3**Components****1) Angle head**

Code		3W027	3W050	3W090
Order no.		-	0608810043	0608810044
Maximum torque	[Nm]	27	50	90
Reduction		1.05		1.67
Avg. efficiency		0.95		
Installation Length	[mm]	85.6	125.6	
Weight	[kg]	1 kg	1,4 kg	1.7 kg

2) Tightening spindles

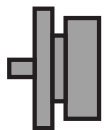
Code		3DMC017	3DMC060
Order no.			
Nominal torque	[Nm]	17	60
Reduction		1	
Avg. efficiency		1	
Installation Length	[mm]	118.6	
Weight	[kg]	1 kg	

- 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		3AR
Order no.		0608810021
Reduction		1
Avg. efficiency		1
Installation Length	[mm]	57
Weight	[kg]	0.4 kg

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

4) Adapter

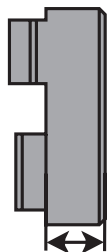
Code		3A
Order no.		0608810025
Reduction		1
Avg. efficiency		1
Installation Length	[mm]	30.5
Weight	[kg]	0.3 kg

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

Angle head

1,7 - 90 Nm ■ Size 3**5) Planetary gearbox**

Code		3GE27	3GE67
Order no.		0608720053	0608720039
Reduction		27	67.4
Avg. efficiency		0.9	0.85
Installation Length	[mm]	65.5	81.5
Weight	[kg]	0,5 kg	

6) Transverse gearbox

Code		3ULG
Order no.		0608PE0283
Reduction		1
Avg. efficiency		0.9
Installation Length	[mm]	30.1
Weight	[kg]	0,5 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		EC303
Order no.		0608701017
Installation Length	[mm]	236
Weight	[kg]	1,3 kg

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

-

BG	(A)	
	Code	Order no.
BG3	ML036	0608830171

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

-

BG	(A)		(B)	
	Code	Order no.	Code	Order no.
BG3	ML036	0608830171	MLR033	0608830174

Tightening spindle with transverse gearbox

Angle head

1,7 - 90 Nm ■ Size 3

BG	(A)	
	Code	Order no.
BG 3	ML046	0608830222

Tightening spindle with transverse gearbox and redundant measurement transducer

BG	(A)		(B)	
	Code	Order no.	Code	Order no.
BG 3	ML046	0608830222	MLR033	0608830174

Connection cable straight – angle


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

Tightening spindle extension cable straight– straight

Angle head

1,7 - 90 Nm ■ Size 3


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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