

COMBINATION KNOBS

Order data on pages 194-199

OKW
GEHÄUSE
SYSTEME



WELL ADJUSTED



THE PRODUCT

The name COMBINATION KNOBS stands for an exceedingly functional range of rotary buttons with a reliable collet fixture system.

They offer a versatile range of possible applications as round knobs, wing knobs and spindle-shaped knobs with a large selection of accessories.

YOUR ADVANTAGE

Tried and tested collet fixture system. Convenient assembly of knobs from the front, easy adjusting (by means of an adjusting key, see accessory). Tight fitting of knobs on the axis.

Round, wing and spindle-shaped knobs with the same standardised design and with matt surface.

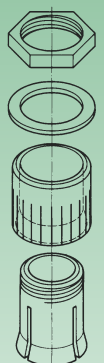
A large variety of functional accessories, e.g. covers in different colours and transparent dials. Easy push-on assembly.

Sizes (mm)

ø 9, ø 10, ø 13,5, ø 16,
ø 20, ø 23, ø 31, ø 40, ø 50
(depends on type)

Fastening

with collet fixture system
for rotary potentiometer
with shaft ends
corresponding to
DIN 41591



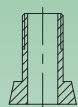
detailed drawings see our website
www.okw.com



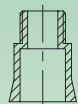
FUNCTIONAL DESIGN

Sizes 10 and 13 have blind holes and screw fixing. From knob size 23 up through holes ① (sizes 16 + 20 stepped ②, except for axes 4 mm).

①



②



YOUR ADVANTAGE

Torsion protection for axes 6/4.6 mm available as accessory. Suitable for round and wing knobs sizes $\varnothing$ 20 to 50 mm with 6 mm borehole.

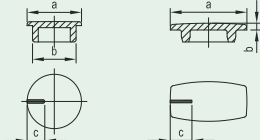
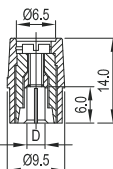
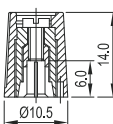
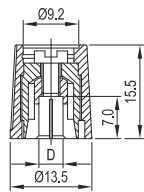
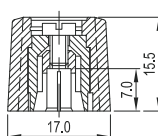
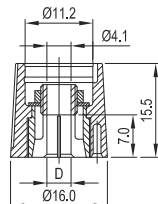
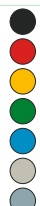
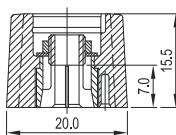
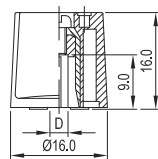
We also produce our COMBINATION KNOBS in special colours, moq reserved. Please advise us of the colour and quantity you require.

APPLICATIONS

Well-proven for electro-mechanical rotary potentiometers with shaft ends corresponding to DIN 41591, e.g. within the field of measuring, controlling, regulating.





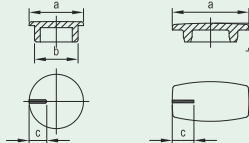
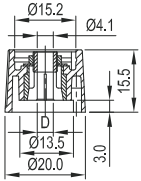
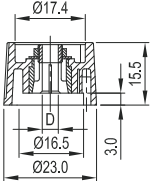
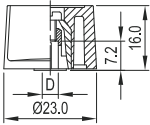
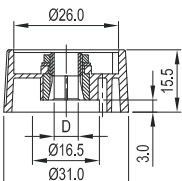
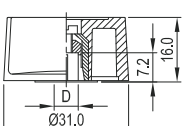
ROUND KNOB		WING KNOB		SPINDLE-SHAPED KNOB		COVER	
ABS (UL 94 HB)						ABS (UL 94 HB) ...100 = indicator line white, otherwise in black 	
Knob ø	Shape	Borehole D					
9	 ROUND KNOB	4 mm, with chamfer		A 26 09 040			a = 8.0 b = 6.5 c = 2.6  A 41 10 000 A 41 10 100 A 41 10 002 A 41 10 102 A 41 10 004 A 41 10 104 A 41 10 005 A 41 10 105 A 41 10 006 A 41 10 106 A 41 10 007 A 41 10 008 A 41 10 108
10	 ROUND KNOB	3 mm, with chamfer 1/8", with chamfer 4 mm, with chamfer	A 25 10 030 A 25 10 320 A 25 10 040	A 26 10 030 A 26 10 320 A 26 10 040	A 25 10 038 A 25 10 048	A 26 10 038 A 26 10 048	
13.5	 ROUND KNOB	4 mm, with chamfer 6 mm, with chamfer	A 25 13 040 A 25 13 060	A 26 13 040 A 26 13 060	A 25 13 048 A 25 13 068	A 26 13 048 A 26 13 068	a = 11.2 b = 9.2 c = 3.0  A 41 13 000 A 41 13 100 A 41 13 002 A 41 13 102 A 41 13 004 A 41 13 104 A 41 13 005 A 41 13 105 A 41 13 006 A 41 13 106 A 41 13 007 A 41 13 107 A 41 13 008 A 41 13 108
	 WING KNOB	6 mm, with chamfer		A 28 13 060			
16	 ROUND KNOB	4 mm, without chamfer 6 mm, with chamfer 1/4", with chamfer	A 25 16 040 A 25 16 060 A 25 16 630	A 26 16 040 A 26 16 060 A 26 16 630	A 25 16 068 A 25 16 638	A 26 16 068 A 26 16 638	a = 13.5 b = 11.2 c = 4.0  A 41 16 000 A 41 16 100 A 41 16 002 A 41 16 102 A 41 16 004 A 41 16 104 A 41 16 005 A 41 16 006 A 41 16 106 A 41 16 007 A 41 16 107 A 41 16 008 A 41 16 108
	 WING KNOB	6 mm, with chamfer		A 28 16 060			
	 SPINDLE-SHAPED KNOB	3 mm, with chamfer 4 mm, with chamfer	A 23 16 040	A 24 16 030 A 24 16 040		A 24 16 048	a = 14.0 b = 1.2 c = 4.0  A 50 16 000 A 50 16 100 A 50 16 108



ARROW DISK	DISK	DIAL	STATOR	NUT COVER
ABS (UL 94 HB)	ABS ...010 = indicator line white	Polycarbonate ...0 = symbols black ...9 = symbols silver	Aluminium indicator line black	ABS ...010 = indicator line white ...018 = indicator line black
a = 7.0 b = 10.1 c = 7.0 A 42 10 000 A 42 10 002 A 42 10 008		a = 20.0 b = 7.0 c = 1.5 (only for knob ø 10) A 44 10 060		a = 15.5 b = 14.0 c = 7.0 d = 2.9 e = 3.7 (only for knob ø 10) A 75 10 000 A 75 10 018
a = 9.0 b = 13.6 c = 8.0 A 42 13 000 A 42 13 002 A 42 13 008		a = 26.0 b = 8.0 c = 1.5 A 44 13 010 A 44 13 020 A 44 13 049 A 44 13 060		a = 17.5 b = 15.7 c = 9.0 d = 3.2 e = 4.3 A 75 13 000 A 75 13 018
a = 10.5 b = 16.3 c = 10.0 A 42 16 000 A 42 16 002 A 42 16 008	a = 31.0 b = 16.5 c = 1.3 A 73 16 000 A 73 16 010	a = 31.0 b = 14.5 c = 10.0 d = 2.5 e = 1.7 (ø 16 with moulded on nut cover) A 44 16 001 A 44 16 010 A 44 16 020 A 44 16 060	a = 16.0 b = 10.1 c = 15.5 A 60 16 019	a = 19.3 b = 17.6 c = 10.0 d = 3.3 e = 4.3 a = 16.4 b = 14.6 c = 10.0 d = 3.3 e = 4.3 f = 10.2 A 75 16 000 A 75 16 010 A 76 16 000 A 76 16 008
				a = 16.0 b = 14.8 c = 8.3 d = 3.3 e = 4.3 A 51 16 000

descriptions of standard colours see **page 199**



ROUND KNOB		SPINDLE-SHAPED KNOB				COVER				
ABS (UL 94 HB)						ABS (UL 94 HB) ...100 = indicator line white, otherwise in black				
										
Knob ø	Shape	Borehole D					without indicator line		with indicator line	
20	ROUND KNOB 	4 mm, without chamfer	A 25 20 040	A 26 20 040			a = 17.5		A 41 20 000	A 41 20 100
		6 mm, with chamfer	A 25 20 060	A 26 20 060	A 25 20 068	A 26 20 068	b = 15.2		A 41 20 002	A 41 20 102
		1/4", with chamfer	A 25 20 630				c = 5.5			A 41 20 104
									A 41 20 005	
23	ROUND KNOB 	4 mm, without chamfer	A 25 23 040	A 26 23 040			a = 20.4		A 41 23 000	A 41 23 100
		6 mm, without chamfer	A 25 23 060	A 26 23 060	A 25 23 068	A 26 23 068	b = 17.4		A 41 23 002	A 41 23 102
		1/4", without chamfer	A 25 23 630		A 25 23 638		c = 6.5		A 41 23 004	
										A 41 23 105
	SPINDLE- SHAPED KNOB 	4 mm, with chamfer		A 24 23 040			a = 20.9		A 50 23 000	A 50 23 100
		6 mm, with chamfer		A 24 23 060		A 24 23 068	b = 1.2		A 50 23 008	A 50 23 108
							c = 6.5			
31	ROUND KNOB 	6 mm, without chamfer	A 25 31 060	A 26 31 060	A 25 31 068	A 26 31 068	a = 28.4		A 41 31 000	A 41 31 100
		1/4", without chamfer	A 25 31 630				b = 26.0		A 41 31 002	A 41 31 102
							c = 9.0		A 41 31 005	
									A 41 31 006	
	SPINDLE- SHAPED KNOB 	6 mm, with chamfer		A 24 31 060		A 24 31 068	a = 29.0		A 50 31 000	A 50 31 100
							b = 1.4			A 50 31 107
							c = 9.5		A 50 31 008	A 50 31 108

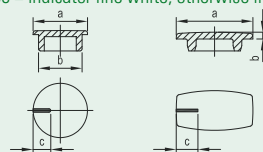
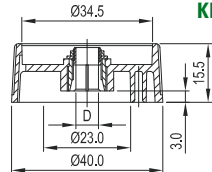
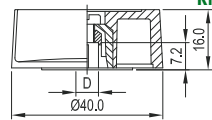
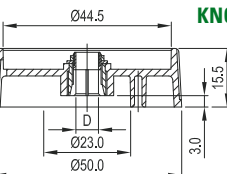


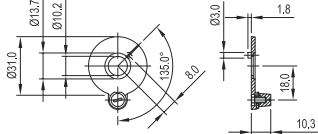
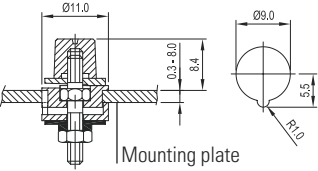
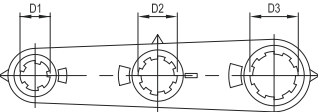
ARROW DISK	DISK	DIAL	STATOR	NUT COVER
ABS (UL 94 HB)	ABS ...010 = indicator line white	Polycarbonate ...0 = symbols black ...9 = symbols silver	Aluminium indicator line black	ABS
a = 13.0 b = 20.0 c = 12.0 A 42 20 000 A 42 20 002 A 42 20 008		a = 36.0 b = 12.0 c = 1.5 A 44 20 001 A 44 20 010 A 44 20 060	a = 20.0 b = 10.1 c = 18.0 A 60 20 019	
a = 14.3 b = 23.0 c = 16.5 A 42 23 000 A 42 23 002 A 42 23 008	a = 31.0 b = 16.5 c = 1.3 A 73 23 010	a = 40.0 b = 16.3 c = 1.3 A 44 23 010 A 44 23 020 A 44 23 039 A 44 23 060	a = 23.0 b = 10.2 c = 20.0 A 60 23 019	
a = 19.5 b = 31.0 c = 16.5 A 42 31 000 A 42 31 002 A 42 31 008	a = 40.0 b = 16.5 c = 1.6 A 73 31 000 A 73 31 010	a = 49.9 b = 16.5 c = 1.5 A 44 31 010 A 44 31 060	a = 23.3 b = 20.0 c = 13.7 d = 3.3 e = 4.3 A 51 23 000 A 51 23 008	
a = 31.1 b = 28.0 c = 15.5 d = 3.3 e = 4.8 A 51 31 000 A 51 31 008				

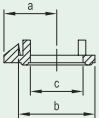
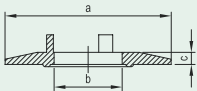
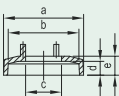
descriptions of standard colours see **page 199**

COMBINATION KNOBS

Information on pages 104-105

ROUND KNOB		SPINDLE-SHAPED KNOB				COVER				
ABS (UL 94 HB)						ABS (UL 94 HB) ...100 = indicator line white, otherwise in black				
										
Knob Ø	Shape	Borehole D					without indicator line		with indicator line	
40	ROUND KNOB 	6 mm, without chamfer	A 25 40 060	A 26 40 060	A 25 40 068	A 26 40 068	a = 37.4		A 41 40 000	A 41 40 100
		8 mm, without chamfer	A 25 40 080				b = 34.4		A 41 40 002	
							c = 12.5		A 41 40 007	
									A 41 40 008	
	SPINDLE-SHAPED KNOB 	6 mm, with chamfer		A 24 40 060		A 24 40 068	a = 37.9		A 50 40 000	A 50 40 100
							b = 1.6		A 50 40 008	A 50 40 108
50	ROUND KNOB 	6 mm, without chamfer	A 25 50 060	A 26 50 060	A 25 50 068		a = 47.4		A 41 50 000	A 41 50 100
							b = 44.4			A 41 50 107
							c = 14.5		A 41 50 008	

ACCESSORIES FOR ROUND KNOBS / WING KNOBS AND SPINDLE-SHAPED KNOBS / COM-KNOBS																
Article	Version / Application	Dim. in mm	Part-No.													
	Locking device with stator For round knobs and wing knobs size 16 with dial only. Transparent, marking black.		A 61 16 010													
	Locking device For universal use of round knobs, wing knobs and COM-KNOBS with dial.		A 61 00 000													
	Adjusting key For correct adjusting of combination knobs (round knobs) with indicator line, dial and arrow disk. Knob mounting without difficulties.		Round knobs Ø <table><tr><td>D₁</td><td>D₂</td><td>D₃</td><td></td></tr><tr><td>10</td><td>13.5</td><td>16</td><td>A 64 02 005</td></tr><tr><td>20</td><td>23</td><td>31</td><td>A 64 03 005</td></tr></table>		D ₁	D ₂	D ₃		10	13.5	16	A 64 02 005	20	23	31	A 64 03 005
D ₁	D ₂	D ₃														
10	13.5	16	A 64 02 005													
20	23	31	A 64 03 005													

ARROW DISK	DISK	NUT COVER
ABS (UL 94 HB) 	ABS ...010 = indicator line white 	ABS 
a = 24.5 b = 40.0 c = 25.0  A 42 40 000  A 42 40 008	 a = 50.1 b = 24.0 c = 1.8  A 73 40 010	  a = 40.3 b = 36.8 c = 20.0 d = 3.1 e = 4.6  A 51 40 000

Standard colours knobs

Combination knobs

Black, RAL 9005

Dust grey, RAL 7037

Covers (depends on size/type)

Black, RAL 9005

Red, RAL F12/0-10

Yellow, RAL F12/0-1

Green, RAL F12/0-43

Blue, RAL 5012

Pebble grey, RAL 7032

Dust grey, RAL 7037

Arrow disk

Black, RAL 9005

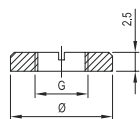
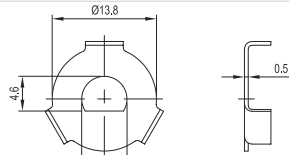
Red, RAL F12/0-10

Dust grey, RAL 7037

Dial

Transparent, bright surface with/without symbols 

ACCESSORIES FOR ROUND KNOBS / WING KNOBS AND SPINDLE-SHAPED KNOBS / COM-KNOBS

Article	Version / Application	Dim. in mm	Part-No.												
	Round nut For mounting of potentiometer at front panels. It fits under knob and nut cover (round knobs / wing knobs / spindle-shaped knobs / COM-KNOBS $\varnothing$ 10 / 13.5 / 16 / 20 / 23 / 31 / 40 / 50).		<table><tr><th>G</th><th>Ø</th><th></th></tr><tr><td>M7 x 0.75</td><td>13.5</td><td>A 62 07 009</td></tr><tr><td>M10 x 0.75</td><td>12.5</td><td>A 62 10 009</td></tr><tr><td>3/8" - 32G</td><td>12.5</td><td>A 62 95 009</td></tr></table>	G	Ø		M7 x 0.75	13.5	A 62 07 009	M10 x 0.75	12.5	A 62 10 009	3/8" - 32G	12.5	A 62 95 009
G	Ø														
M7 x 0.75	13.5	A 62 07 009													
M10 x 0.75	12.5	A 62 10 009													
3/8" - 32G	12.5	A 62 95 009													
	Spanner For tightening round nuts.		A 63 00 000												
	Torsion protection For torsion-proved mounting of knobs on profiled axes 6 / 4.6 mm. Suitable for round and wing knobs sizes $\varnothing$ 20 to 50 with 6 mm borehole (not suitable for COM-KNOBS).		<table><tr><th>Bore</th><th></th></tr><tr><td>6 / 4.6</td><td>A 66 00 064</td></tr></table>	Bore		6 / 4.6	A 66 00 064								
Bore															
6 / 4.6	A 66 00 064														