

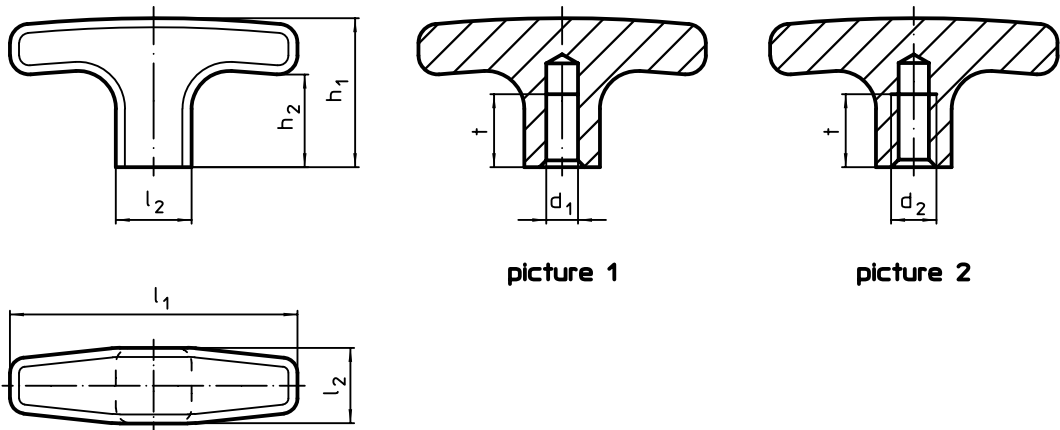


PRODUCT DESCRIPTION

Material

- Aluminium, plastic coated, similar to RAL 9005 black, matt structure

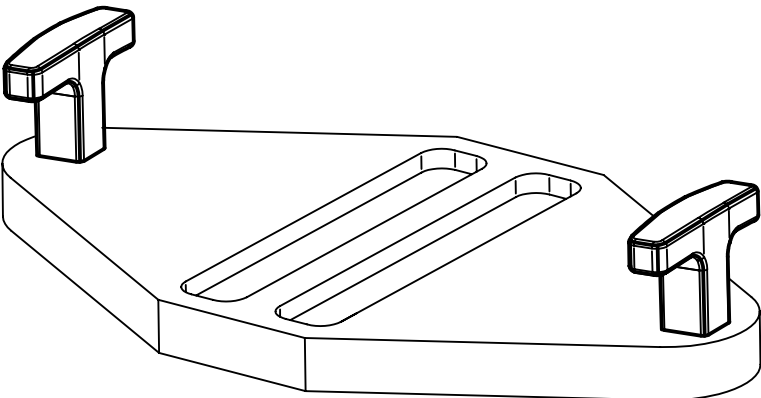
DRAWING



ORDER INFORMATION

d ₁ H7	d ₂	l ₁	Dimensions					Art. No.
			l ₂	h ₁	h ₂	t		
			[mm]					
with smooth blind hole – picture 1								
6	–	55	14	33	22	12	31	24512.0020
8	–	67	16	37	25	16	46	24512.0030
		80	20	41	26	16	80	24512.0035
with threaded blind hole – picture 2								
–	M 6	55	14	33	22	12	34	24512.0120
	M 8	55	14	33	22	12	31	24512.0125
		67	16	37	25	16	48	24512.0130
		80	20	41	26	16	80	24512.0135
	M10	80	20	41	26	16	80	24512.0140

APPLICATION EXAMPLE



Mushroom-Type Knobs

EH 24540.



PRODUCT DESCRIPTION

Material

- Mushroom-type knob
- Thermosetting plastic PF 31, black

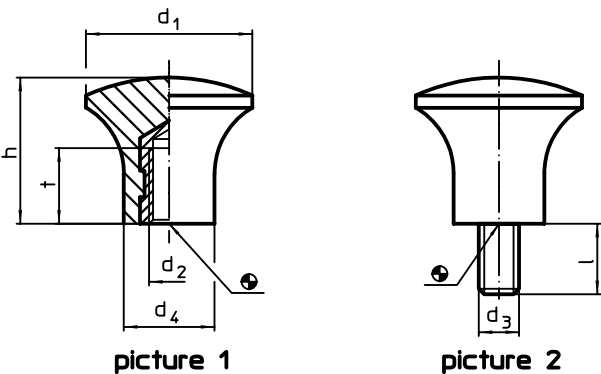
Bushing

- Brass

Screw

- Steel, zinc-plated by galvanization

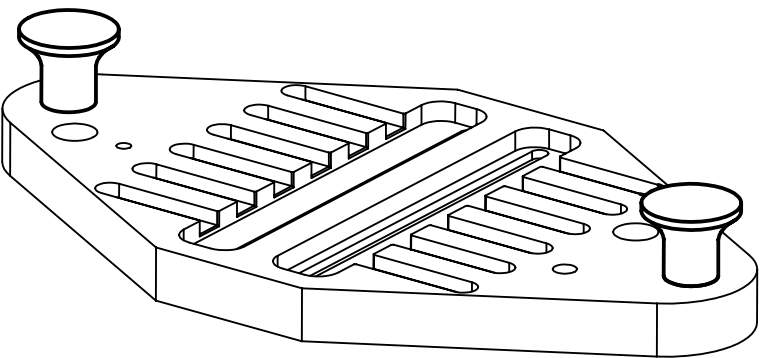
DRAWING



ORDER INFORMATION

Dimensions									Art. No.
d ₁	d ₂	d ₃	l	d ₄	h	t	max.		
[mm]							[°C]	[g]	
with female thread – picture 1									
17	M5	–	–	10	14	7	110	3.8	24540.0017
21	M6	–	–	12	17	11	110	6.2	24540.0021
25	M6	–	–	14	21	11	110	11.0	24540.0025
33	M8	–	–	18	29	12	110	21.0	24540.0033
with screw – picture 2									
17	–	M5	9	10	14	–	110	4.2	24540.0117
21	–	M6	10	12	17	–	110	7.1	24540.0121
25	–	M6	10	14	21	–	110	10.0	24540.0125
33	–	M8	14	18	29	–	110	23.0	24540.0133

APPLICATION EXAMPLE



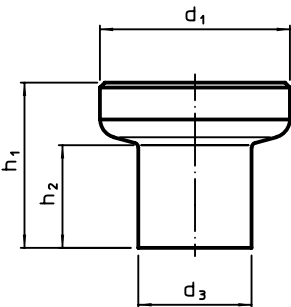


PRODUCT DESCRIPTION

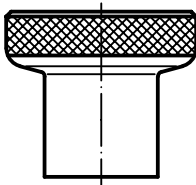
Material

- Steel, blackened
- Stainless steel 1.4305, dull blasted

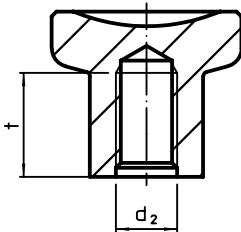
DRAWING



picture 1



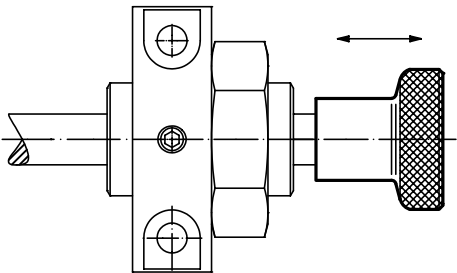
picture 2



ORDER INFORMATION

Dimensions							Art. No.	
d ₁	d ₂	d ₃	h ₁	h ₂	t min.		Steel	Stainless steel
[mm]							[g]	
without knurling – picture 1								
21	M 4	12.5	18.0	10.5	10	26	24520.0002	24520.0102
	M 5	12.5	18.0	10.5	10	25	24520.0003	24520.0103
25	M 6	14.5	22.5	14.0	12	42	24520.0005	24520.0105
	M 8	14.5	22.5	14.0	12	38	24520.0006	24520.0106
31	M 8	18.5	27.0	17.0	15	75	24520.0008	24520.0108
	M10	18.5	27.0	17.0	17	70	24520.0009	24520.0109
with knurling – picture 2								
21	M 4	12.5	18.0	10.5	10	26	24520.0022	24520.0122
	M 5	12.5	18.0	10.5	10	25	24520.0023	24520.0123
25	M 6	14.5	22.5	14.0	12	42	24520.0025	24520.0125
	M 8	14.5	22.5	14.0	12	39	24520.0026	24520.0126
31	M 8	18.5	27.0	17.0	15	75	24520.0028	24520.0128
	M10	18.5	27.0	17.0	17	70	24520.0029	24520.0129

APPLICATION EXAMPLE



Conical Knobs

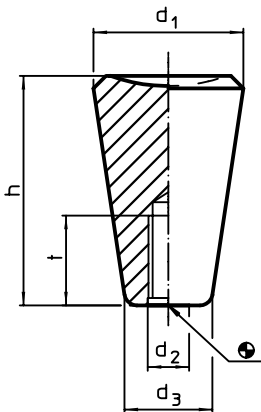
EH 24550.



PRODUCT DESCRIPTION

- Material
- Thermosetting plastic PF 31, black

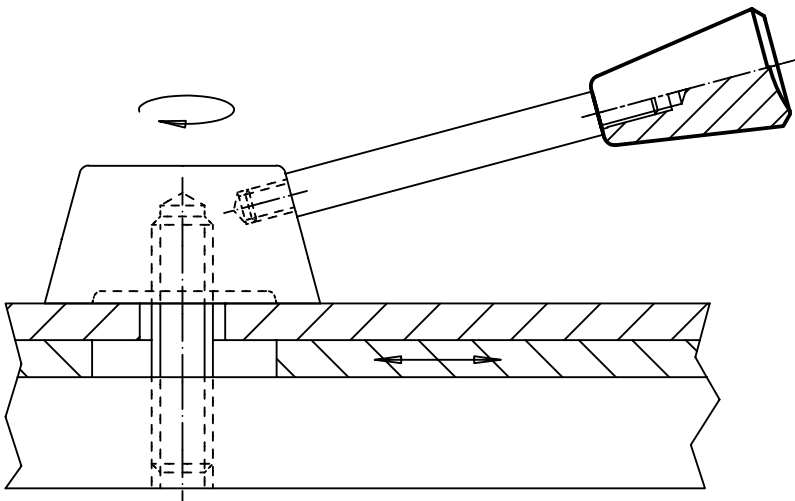
DRAWING



ORDER INFORMATION

Dimensions							Art. No.
d ₁	d ₂	d ₃ ~ [mm]	h	t min.	max. [°C]	[g]	
20	M 5	12	30	18	110	7.8	24550.0010
	M 6	12	30	18	110	7.4	24550.0011
25	M 6	15	38	18	110	18.0	24550.0020
	M 8	15	38	18	110	17.0	24550.0021
30	M 8	18	46	18	110	26.0	24550.0030
	M10	18	46	18	110	25.0	24550.0031
35	M10	21	53	21	110	46.0	24550.0040
	M12	21	53	21	110	43.0	24550.0041

APPLICATION EXAMPLE



Ball Knobs • DIN 319

EH 24560.



PRODUCT DESCRIPTION

The DIN 319 ball knobs are jointless and polished.

Material

Bushing

- Steel, zinc-plated by galvanization
- Brass

Ball

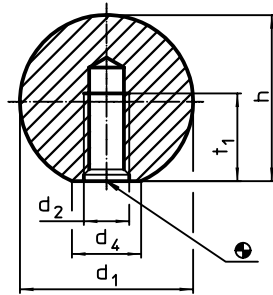
- DIN 7708 - thermosetting plastic (PF 31), black similar to RAL 9005

- DIN 7708 - thermosetting plastic (PF 31), red similar to RAL 3003

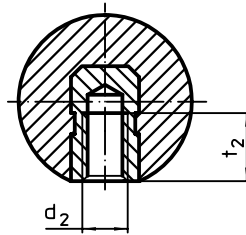
Assembly

Assembly instruction for form M: Fitted by lightly tapping with a hammer, holds in position without being cemented. For the counter element a h9-fit is sufficient.

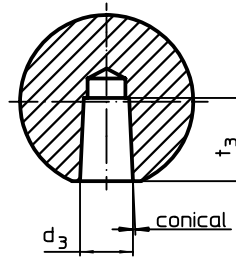
DRAWING



picture 1



picture 2



picture 3

ORDER INFORMATION

Dimensions									For pin h9			Art. No.	
d ₁	d ₂	d ₃	d ₄	h	t ₁ min.	t ₂ min.	t ₃ min.			max.		black	red
[mm]									[mm]	[°C]	[g]		
with moulded material thread, form C – picture 1													
16	M 4	–	8	15.0	7	–	–	–	–	110	3.2	24560.0016	24560.0516
20	M 5	–	12	18.0	9	–	–	–	–	110	5.2	24560.0020	24560.0520
25	M 6	–	15	22.5	11	–	–	–	–	110	10.0	24560.0025	24560.0525
32	M 8	–	18	29.0	14	–	–	–	–	110	22.0	24560.0032	24560.0532
40	M10	–	22	37.0	18	–	–	–	–	110	42.0	24560.0040	24560.0540
50	M12	–	28	46.0	21	–	–	–	–	110	86.0	24560.0050	24560.0550
with threaded bushing, form E – picture 2													
16	M 4	–	8	15.0	–	6.0	–	–	–	110	3.9	24560.0116 ¹⁾	24560.0616 ¹⁾
20	M 5	–	12	18.0	–	7.5	–	–	–	110	8.0	24560.0120	24560.0620
25	M 6	–	15	22.5	–	9.0	–	–	–	110	14.0	24560.0125	24560.0625
32	M 8	–	18	29.0	–	12.0	–	–	–	110	26.0	24560.0132	24560.0632
40	M10	–	22	37.0	–	15.0	–	–	–	110	56.0	24560.0140	24560.0640
50	M12	–	28	46.0	–	18.0	–	–	–	110	108.0	24560.0150	24560.0650
with taper bore form M – picture 3													
16	–	4	8	15.0	–	–	9	4	110	2.7	24560.0216	–	–
20	–	5	12	18.0	–	–	12	5	110	5.1	24560.0220	–	–
25	–	6	15	22.5	–	–	15	6	110	9.3	24560.0225	–	–
32	–	8	18	29.0	–	–	15	8	110	19.0	24560.0232	–	–
40	–	10	22	37.0	–	–	20	10	110	39.0	24560.0240	–	–
50	–	12	28	46.0	–	–	22	12	110	84.0	24560.0250	–	–

¹⁾ bushing from brass

Ball Knobs • metal types similar to DIN 319

EH 24561.



PRODUCT DESCRIPTION

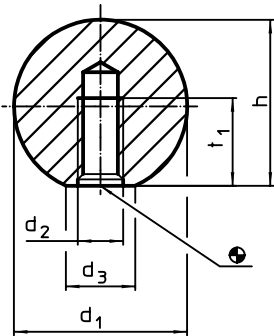
- Material
- Steel, polished, bright
 - Stainless steel 1.4305, dull blasted
 - Aluminium, polished

MORE INFORMATION

Notes

Supplement DIN 319 Form C about metallic versions.

DRAWING



ORDER INFORMATION

Dimensions						Art. No.		
d ₁	d ₂	d ₃ ~ [mm]	h ~	t ₁ min.		Steel	Stainless steel	Aluminium Al
16	M 4	8	15.0	7.0	16	24561.0016	24561.0216	24561.0116
20	M 5	12	18.0	9.0	26	24561.0020	24561.0220	24561.0120
25	M 6	15	22.5	11.0	58	24561.0025	24561.0225	24561.0125
32	M 8	18	29.0	14.5	116	24561.0032	24561.0232	24561.0132
40	M10	22	37.0	18.0	241	24561.0040	24561.0240	24561.0140
50	M12	27	46.0	21.0	475	24561.0050	—	24561.0150

APPLICATION EXAMPLE

