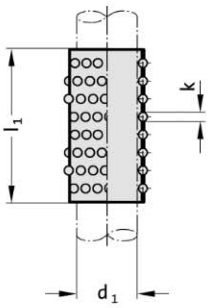
Ball cage, small dimension
Guide bush for ball bearing, small dimension

206.51.



Material:
Cage: Brass
Balls: Steel hardened (DIN 5401)

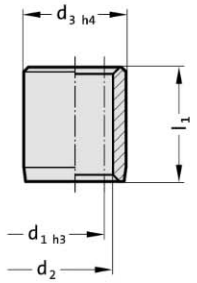
206.51. Ball cage, small dimension

d_1	3	4	5	6	8
k	1	1	1	1	1
l_1	Total numbers of balls				
10	21	21	29	36	
15	35	35	49	61	61
20	49	49	69	69	69
25		64	89	89	89
30			109	109	109
40					149

Ordering Code (example):

Ball cage, small dimension		=206.51.	
Guide diameter d_1	5 mm	=	005.
Length l_1	30 mm	=	030
Order No		=206.51.	005. 030

206.54.



Material:
Roller bearing steel 100 Cr 6
Hardness: hardened to 60 + 4 HRC
Remarks: available in stainless steel on request

Execution:
Guide bush bores d_2 fine-honed to IT3

Note:
Assembly guide lines / Dimensional requirements and tolerances at the end of chapter D.

206.54. Guide bush for ball bearing, small dimension

d_1	3	4	5	6	8
d_2	5	6	7	8	10
d_3	7	8	10	11	14
l_1					
10	●	●	●		
15	●	●	●	●	●
20	●	●	●	●	●
25		●	●	●	●
30			●	●	●
35				●	●
40					●

Ordering Code (example):

Guide bush for ball bearing, small dimension		=206.54.	
Guide diameter d_1	5 mm	=	005.
Length l_1	10 mm	=	010
Order No		=206.54.	005. 010

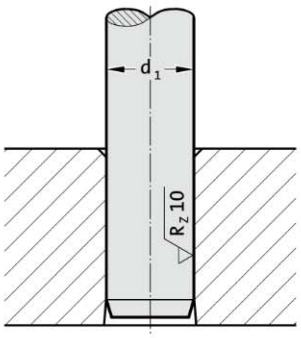
FIBRO

Assembly of Guide Elements – Dimensional Requirements and Tolerances

202.17. / 202.19. / 202.22. / 202.23. / 202.24. / 202.29.

Guide pillar-
DIN 9825/ISO 9182-2 ~DIN 9825/ ~ISO 9182-2

(press fit)



202.17. / 202.19. / 202.22. / 202.23. / 202.24. / 202.29.

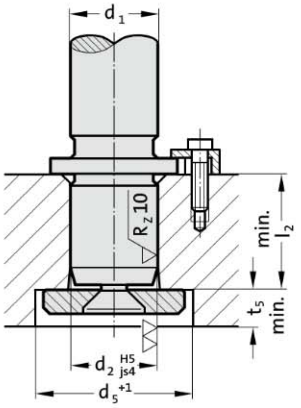
Pillar ∅ d_1*	Retaining bore d_1 (recommended values based on experiences)	
3-80	in grey cast iron: d_1	−0,025 −0,035
	in steel: d_1	−0,015 −0,025

* Pillars of d_1 = 50 mm and over should be frozen in dry ice before fitting

2021.46. / 2021.44.

Demountable guide pillar with collar
DIN 9825/ ~ISO 9182-5

(transition fit)



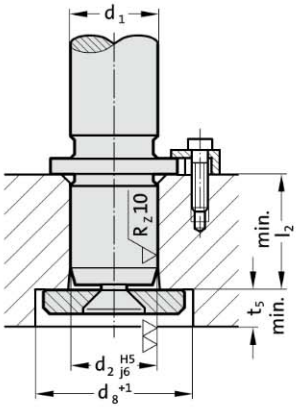
2021.46. / 2021.44.

Pillar ∅ d_1	Retaining bore d_2^{H5}	d_5^{+1}	l_2	t_5
15/16	$15/16^{+0,008}$	24	20,5	6,5
19/20	$19/20^{+0,009}$	27	23,5	6,5
24/25	$24/25^{+0,009}$	34	30,5	6,5
30/32	$30/32^{+0,011}$	42	37,5	6,5
38/40	$38/40^{+0,011}$	52	37,5	6,5
48/50	$48/50^{+0,013}$	62	47,5	6,5
60/63	$60/63^{+0,013}$	72	47,5	6,5
80	$80^{+0,013}$	95	60,5	12,5

2021.29.

Guide pillar with collar

(transition fit)



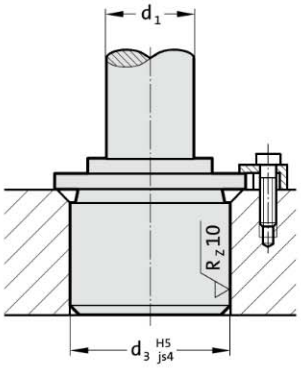
2021.29.

Pillar ∅ d_1	Retaining bore d_2^{H5}	d_8^{+1}	l_2	t_5
15/16	$15/16^{+0,008}$	24	20,5	6,5
19/20	$19/20^{+0,009}$	27	23,5	6,5
24/25	$24/25^{+0,009}$	34	30,5	6,5
30/32	$30/32^{+0,011}$	42	37,5	6,5
38/40	$38/40^{+0,011}$	52	37,5	6,5
48/50	$48/50^{+0,013}$	62	47,5	6,5
60/63	$60/63^{+0,013}$	72	47,5	6,5
80	$80^{+0,013}$	95	60,5	12,5

2021.39.

Liner bush
DIN 9825/ISO 9182-4

(transition fit)



2021.39.

Pillar ∅ d_1	Retaining bore d_3^{H5}
19/20	$32^{+0,011}$
24/25	$40^{+0,011}$
30/32	$48^{+0,011}$
38/40	$58^{+0,013}$
48/50	$70^{+0,013}$
60/63	$85^{+0,015}$