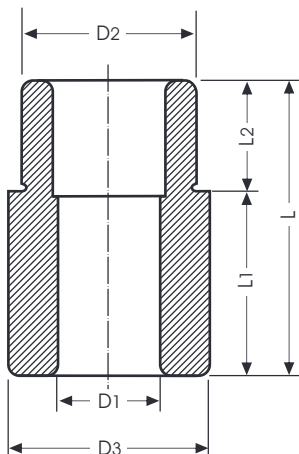


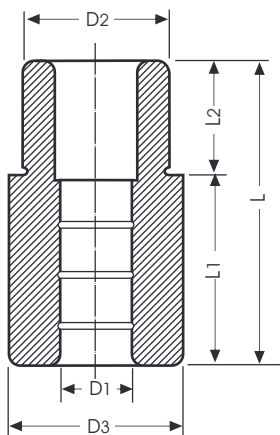
ACCESSORIES FOR DIE SETS

GUID BUSH FOR BALL CAGE SET



IMDC CODE	Nom.Pin dØ	D1	D2	D3	L1	L2	L
SB 1B	14	20	31	35	40	25	65
SB 2B	15	21	31	35	40	25	65
SB 3B	16	24	34	38	40	30	70
SB 4B	18	26	34	38	40	30	70
SB 5B	19	27	38	43	45	30	75
SB 6B	20	28	38	43	45	30	75
SB 7B	22	30	40	45	50	35	85
SB 8B	24	32	44	45	50	35	85
SB 9B	25	33	44	49	50	35	85
SB 10B	28	36	48	54	60	40	100
SB 11B	30	38	52	58	60	40	100
SB 12B	32	40	52	58	60	40	100
SB 13B	36	44	58	62	60	45	105
SB 14B	38	46	58	62	60	45	105
SB 15B	40	48	60	66	65	50	115
SB 16B	45	53	68	71	65	50	115
SB 17B	48	56	68	71	65	50	115
SB 18B	50	60	72	78	70	50	120

GUID BUSH FOR PLAIN PILLAR SET

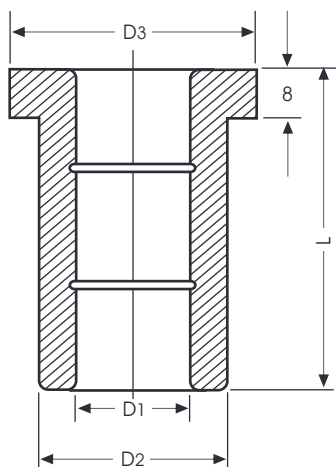


IMDC CODE	Nom.Pin dØ	D1	D2	D3	L1	L2	L
GB 1B	14	14	22	26	40	20	60
GB 2B	15	15	22	26	40	20	60
GB 3B	16	16	24	29	40	20	60
GB 4B	18	18	24	29	40	20	60
GB 5B	19	19	28	31	45	25	70
GB 6B	20	20	28	31	45	25	70
GB 7B	22	22	30	35	50	25	75
GB 8B	24	24	35	39	50	30	80
GB 9B	25	25	35	39	50	30	80
GB 10B	28	28	38	43	60	35	95
GB 11B	30	30	40	44	60	40	100
GB 12B	32	32	43	48	60	40	100
GB 13B	36	36	50	53	60	40	100
GB 14B	38	38	50	53	60	40	100
GB 15B	40	40	52	57	65	45	110
GB 16B	45	45	62	64	65	50	115
GB 17B	48	48	64	70	70	50	120
GB 18B	50	50	64	70	70	50	120



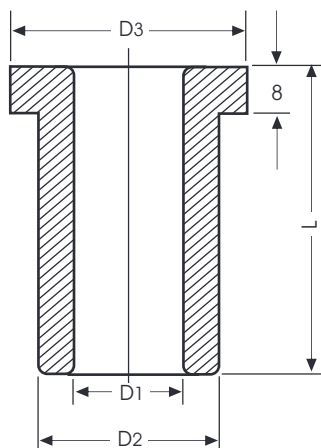
ACCESSORIES FOR DIE SETS

STRIPPER BUSH



IMDC CODE	Nom.Pin dØ	D1	D2	D3	L
ST 1B	14	14	22	26	22,27
ST 2B	15	15	22	26	22,27
ST 3B	16	16	24	29	22,27,32
ST 4B	18	18	24	29	22,27,32
ST 5B	19	19	28	31	27,32
ST 6B	20	20	28	31	27,32
ST 7B	22	22	30	35	27,32
ST 8B	24	24	35	39	32,37
ST 9B	25	25	35	39	32,37
ST 10B	28	28	38	43	37,42
ST 11B	30	30	40	44	37,42
ST 12B	32	32	43	48	37,42
ST 13B	36	36	50	53	37,42
ST 14B	38	38	50	53	37,42
ST 15B	40	40	52	57	42,47,52
ST 16B	45	45	62	64	47,52,57
ST 17B	48	48	64	70	62,67
ST 18B	50	50	64	70	62,67

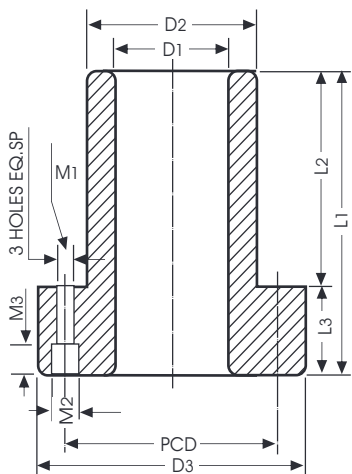
STRIPPER BUSH (BALL CAGE)



IMDC CODE	Nom.Pin dØ	D1	D2	D3	L
STB 1B	14	20	31	35	22,27,32
STB 2B	15	21	31	35	22,27,32
STB 3B	16	24	34	38	22,32
STB 4B	18	26	34	38	22,32
STB 5B	19	27	38	43	32,37,42
STB 6B	20	28	38	43	32,37,42
STB 7B	22	30	40	45	37,42
STB 8B	24	32	44	49	37,42,47
STB 9B	25	33	44	49	37,42,47
STB 10B	28	36	48	54	42,47
STB 11B	30	38	52	58	42,47
STB 12B	32	40	52	58	42,47,52
STB 13B	36	44	58	62	42,47,52
STB 14B	38	46	58	62	42,47,52
STB 15B	40	48	60	66	42,47,52
STB 16B	45	53	68	71	47
STB 17B	48	56	68	71	47
STB 18B	50	60	72	78	47,52

ACCESSORIES FOR DIE SETS

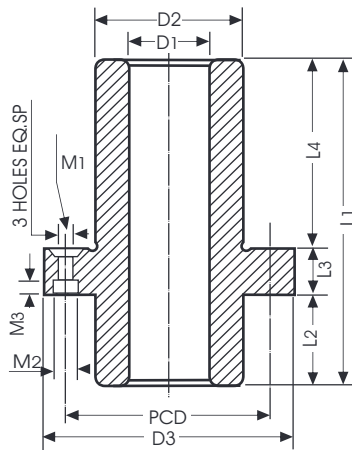
GUIDE BUSH FOR BALL CAGE SET



IMDC CODE	Nom.Pin	D1	D2	D3	L1	L2	L3	M1	M2	M3	P.C.D.
	d Ø	Ø	Ø	Ø				Ø	Ø		
CB 1B	14	20	31	55	30	20	10	4.2	8.5	4.5	42
CB 2B	15	21	31	55	30	20	10	4.2	8.5	4.5	42
CB 3B	16	24	34	56	30	20	10	4.2	8.5	4.5	45
CB 4B	18	26	34	56	30	20	10	4.2	8.5	4.5	45
CB 5B	19	27	38	58	35	25	10	4.2	8.5	4.5	48
CB 6B	20	28	38	58	35	25	10	4.2	8.5	4.5	48
CB 7B	22	30	40	60	35	25	10	4.2	8.5	4.5	51
CB 8B	24	32	44	64	40	30	10	4.2	8.5	4.5	55
CB 9B	25	33	44	64	40	30	10	4.2	8.5	4.5	55
CB 10B	28	36	48	70	45	35	10	4.2	8.5	4.5	59
CB 11B	30	38	52	74	52	40	12	6.2	10.5	6.5	64
CB 12B	32	40	52	74	52	40	12	6.2	10.5	6.5	64
CB 13B	36	44	58	80	52	40	12	6.2	10.5	6.5	69
CB 14B	38	46	58	80	52	40	12	6.2	10.5	6.5	69
CB 15B	40	48	60	84	52	40	12	6.2	10.5	6.5	70
CB 16B	45	53	68	90	65	50	15	6.2	10.5	6.5	79
CB 17B	48	56	68	90	65	50	15	6.2	10.5	6.5	79
CB 18B	50	60	72	95	65	50	15	6.2	10.5	6.5	84

NOTE: This type is recommended where space is limited and further operation on bore is not required
The bush is secured with a wringing fit screwed to the bolster

GUIDE BUSH FOR BALL CAGE SET



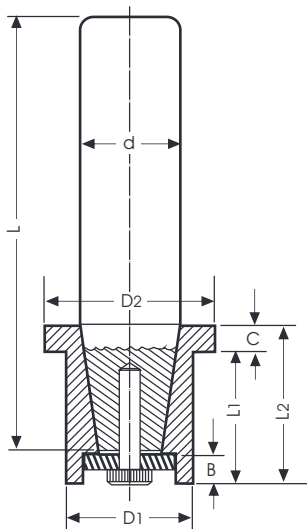
IMDC CODE	Nom.Pin	D1	D2	D3	L1	L2	L3	L4	M1	M2	M3	P.C.D.
	d Ø	Ø	Ø	Ø					Ø	Ø		
SCB 1B	14	20	31	55	60	20	10	30	4.2	8.5	4.5	42
SCB 2B	15	21	31	55	60	20	10	30	4.2	8.5	4.5	42
SCB 3B	16	24	34	56	60	20	10	30	4.2	8.5	4.5	45
SCB 4B	18	26	34	56	60	20	10	30	4.2	8.5	4.5	42
SCB 5B	19	27	38	58	70	25	10	35	4.2	8.5	4.5	48
SCB 6B	20	28	38	58	70	25	10	35	4.2	8.5	4.5	48
SCB 7B	22	30	40	60	70	25	10	35	4.2	8.5	4.5	51
SCB 8B	24	32	44	64	70	25	10	35	4.2	8.5	4.5	51
SCB 9B	25	33	44	64	80	30	10	40	4.2	8.5	4.5	55
SCB 10B	28	36	48	70	80	30	10	40	4.2	8.5	4.5	59
SCB 11B	30	38	52	74	102	40	12	50	6.2	10.5	6.5	64
SCB 12B	32	40	52	74	102	40	12	50	6.2	10.5	6.5	64
SCB 13B	36	44	58	80	102	40	12	50	6.2	10.5	6.5	69
SCB 14B	38	46	58	80	102	40	12	50	6.2	10.5	6.5	69
SCB 15B	40	48	60	84	102	40	12	50	6.2	10.5	6.5	70
SCB 16B	45	53	68	90	110	45	15	50	6.2	10.5	6.5	79
SCB 17B	48	56	68	90	110	45	15	50	6.2	10.5	6.5	79
SCB 18B	50	60	72	95	110	45	15	50	6.2	10.5	6.5	84

NOTE: The Bushes are ideally suited where longer stroke is used and longer guide length is necessary.



ACCESSORIES FOR DIE SETS

DETACHABLE PILLAR ASSEMBLY

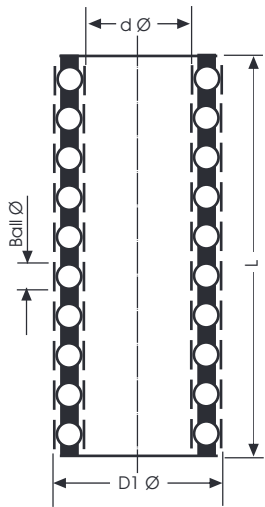


IMDC CODE	PIN dØ	D1 Ø	D2 Ø	B	C	L1	L2	L-LENGTHS
DP 1B	14	22	26	8	4	30	34	100,125,140
DP 2B	15	22	26	8	4	30	34	100,125,140
DP 3B	16	24	29	8	4	35	39	100,125,140,160
DP 4B	18	24	29	8	4	35	39	100,125,140,160
DP 5B	19	28	31	10	5	35	40	100,125,140,160
DP 6B	20	28	31	10	5	35	40	100,125,140,160
DP 7B	22	30	35	10	5	35	40	100,125,140,160,180
DP 8B	24	35	39	13	5	40	45	100,125,140,160,180
DP 9B	25	35	39	13	5	40	45	100,125,140,160,180
DP 10B	28	38	43	13	5	40	45	140,160,180,200,225,250
DP 11B	30	40	44	13	6	45	51	140,160,180,200,225,250
DP 12B	32	43	48	15	6	45	51	170,180,200,225,250,270,300
DP 13B	36	50	53	15	6	45	51	170,180,200,225,250,270,300
DP 14B	38	50	53	15	6	45	51	170,180,200,225,250,270,300
DP 15B	40	52	57	15	6	50	56	170,180,200,225,250,270,300
DP 16B	45	62	64	18	8	50	58	170,180,200,225,250,270,300,325,350
DP 17B	48	64	70	18	8	55	63	170,180,200,225,250,270,300,325,350
DP 18B	50	64	70	18	8	55	63	170,180,200,225,250,270,300,325,350

NOTE: While Ordering, specify Cat-No. and PILLAR LENGTH 'L'

ACCESSORIES FOR DIE SETS

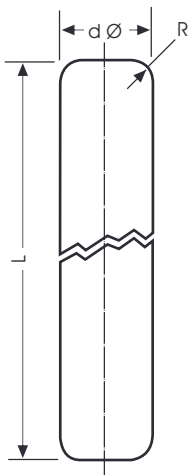
BALL CAGE



Ball cages are made with precision steel balls. They are arranged in close helical form for easy axial movement

IMDC CODE	NOM.PIN dØ	D1Ø	BALL Ø	L-LENGTHS
BC 1B	14	20	3	40,50
BC 2B	15	21	3	40,50
BC 3B	16	22	3	40,50
BC 4B	18	26	4	40,50
BC 5B	19	27	4	54,74
BC 6B	20	28	4	54,74
BC 7B	22	30	4	54,74
BC 8B	24	32	4	54,74
BC 9B	25	33	4	54,74,85
BC 10B	28	36	4	54,74,85
BC 11B	30	38	4	58,88,103
BC 12B	32	40	4	58,85,100
BC 13B	36	44	4	58,85,100
BC 14B	38	46	4	58,85,100
BC 15B	40	48	4	85,105,125
BC 16B	45	53	4	85,105,125
BC 17B	48	58	5	85,105,125
BC 18B	50	60	5	85,105,125

GUIDE PILLAR



IMDC CODE	dØ	R	L-LENGTHS
GP 1B	14	4	100,125,140,160
GP 2B	15	4	100,125,140,160
GP 3B	16	4	100,125,140,160
GP 4B	18	4	100,125,140,160
GP 5B	19	4	100,125,140,160,180
GP 6B	20	4	100,125,140,160,180
GP 7B	22	4	100,125,140,160,180
GP 8B	24	4	100,125,140,160,180
GP 9B	25	5	140,160,180,200,225,250
GP 10B	28	5	140,160,180,200,225,250
GP 11B	30	5	170,180,200,225,250,270,300
GP 12B	32	5	170,180,200,225,250,270,300
GP 13B	36	5	170,180,200,225,250,270,300
GP 14B	38	5	170,180,200,225,250,270,300
GP 15B	40	5	170,180,200,225,250,270,300,325,350
GP 16B	45	5	170,180,200,225,250,270,300,325,350
GP 17B	48	5	170,180,200,225,250,270,300,325,350
GP 18B	50	5	170,180,200,225,250,270,300,325,350

NOTE: (1) While Ordering, specify Cat-No. and LENGTH 'L'
(2) Standard Ball Cages are made of aluminium alloy, but in special order they can be made of brass.

NOTE: (1) While Ordering, specify Cat-No. and LENGTH 'L'