



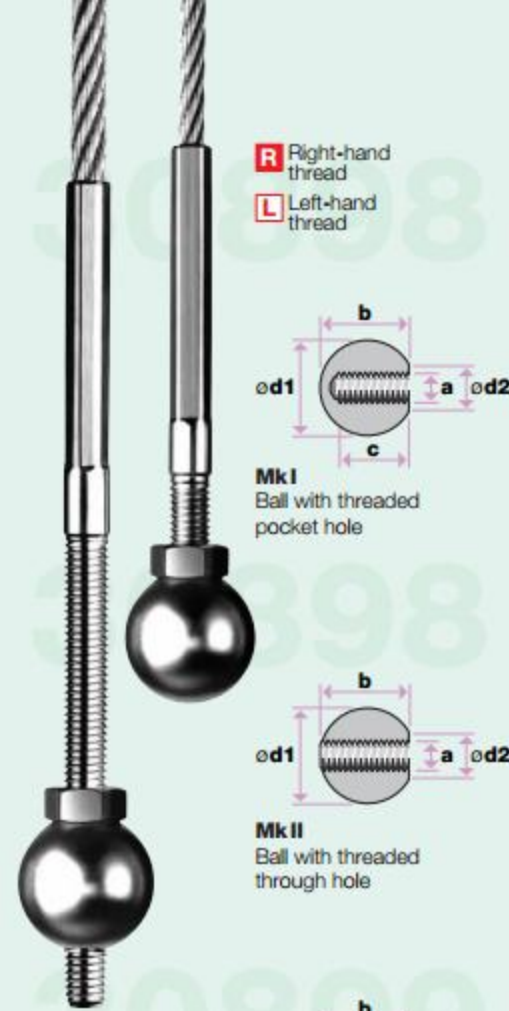
56.A



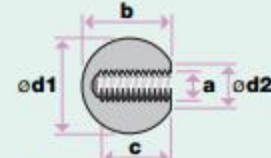
56.C



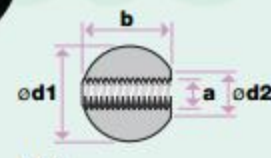
56.B



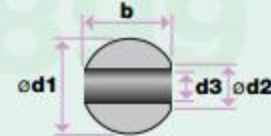
R Right-hand thread
L Left-hand thread



Mk I
Ball with threaded pocket hole



Mk II
Ball with threaded through hole



Mk III
Ball with through hole



Assembly: Before you screw the fitting tight, make sure wedges and rope are in line. Only compatible with Jakob rope No. 10820- (with code filament).

Not suitable for stranded wire rope No. 10810-



The use of JAKOB VARIBALL® fittings calls for careful planning and execution! See VARIBALL® template on page 59.

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1.4404
AISI 316

VARIBALL® Mk I

Patent/DBGM pending

30898- no. R	30898- no. L	α max. deflection angle	Ø a	b	c	Ø d1	Ø d2
0300-01	0300-02	42°	M3	11,3	7	12	6,0
0400-01	0400-02	48°	M4	15,0	9	16	8,0
0500-01	0500-02	44°	M5	15,0	9	16	8,0
0600-01	0600-02	45°	M6	18,8	10	20	9,5
0800-01	0800-02	45°	M8	22,4	12	24	12,0
1000-01	1000-02	35°	M10	21,4	12	24	15,0

VARIBALL® Mk II

Patent/DBGM pending

30898- no. R	30898- no. L	α max. deflection angle	Ø a	b	Ø d1	Ø d2
0300-03	0300-04	42°	M3	10,6	12	6,0
0400-03	0400-04	48°	M4	14,5	16	8,0
0500-03	0500-04	44°	M5	14,2	16	8,0
0600-03	0600-04	45°	M6	18,2	20	9,5
0800-03	0800-04	45°	M8	21,6	24	12,0
1000-03	1000-04	35°	M10	20,1	24	15,0

VARIBALL® Mk III

Patent/DBGM pending

30899- no.	Ø d3 for threads	b	Ø d1	Ø d2
0300-05	M3	10,6	12	6,0
0400-05	M4	14,5	16	8,0
0500-05	M5	14,2	16	8,0
0600-05	M6	18,2	20	9,5
0800-05	M8	21,6	24	12,0
1000-05	M10	20,1	24	15,0

VARIBALL® Mk IV

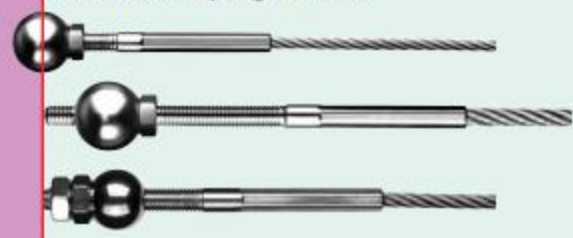
For on-site assembly with rope No. 10820- / Patent pending
Breaking strength: 90% of min. rope breaking load

30899- no.	α max. deflection angle	Ø mm	b	Ø d1	Ø d2	sw
0200-06	33°	2,0	27	24	14,8	13
0300-06	33°	3,0	27	24	14,8	13
0400-06	33°	4,0	27	24	14,8	13

Mk IV
Wire rope screws directly into ball



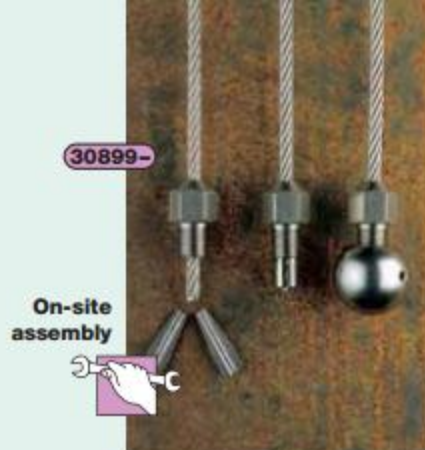
Measure assembly lengths like this:



1.4404
AISI 316

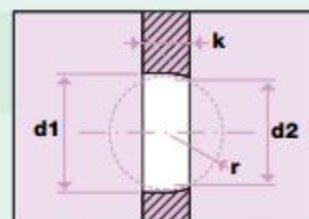
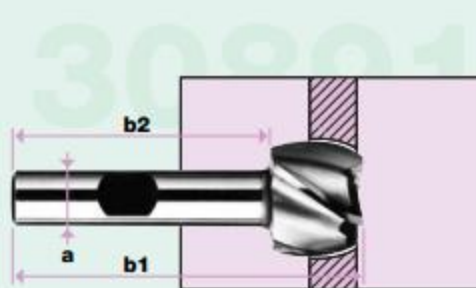
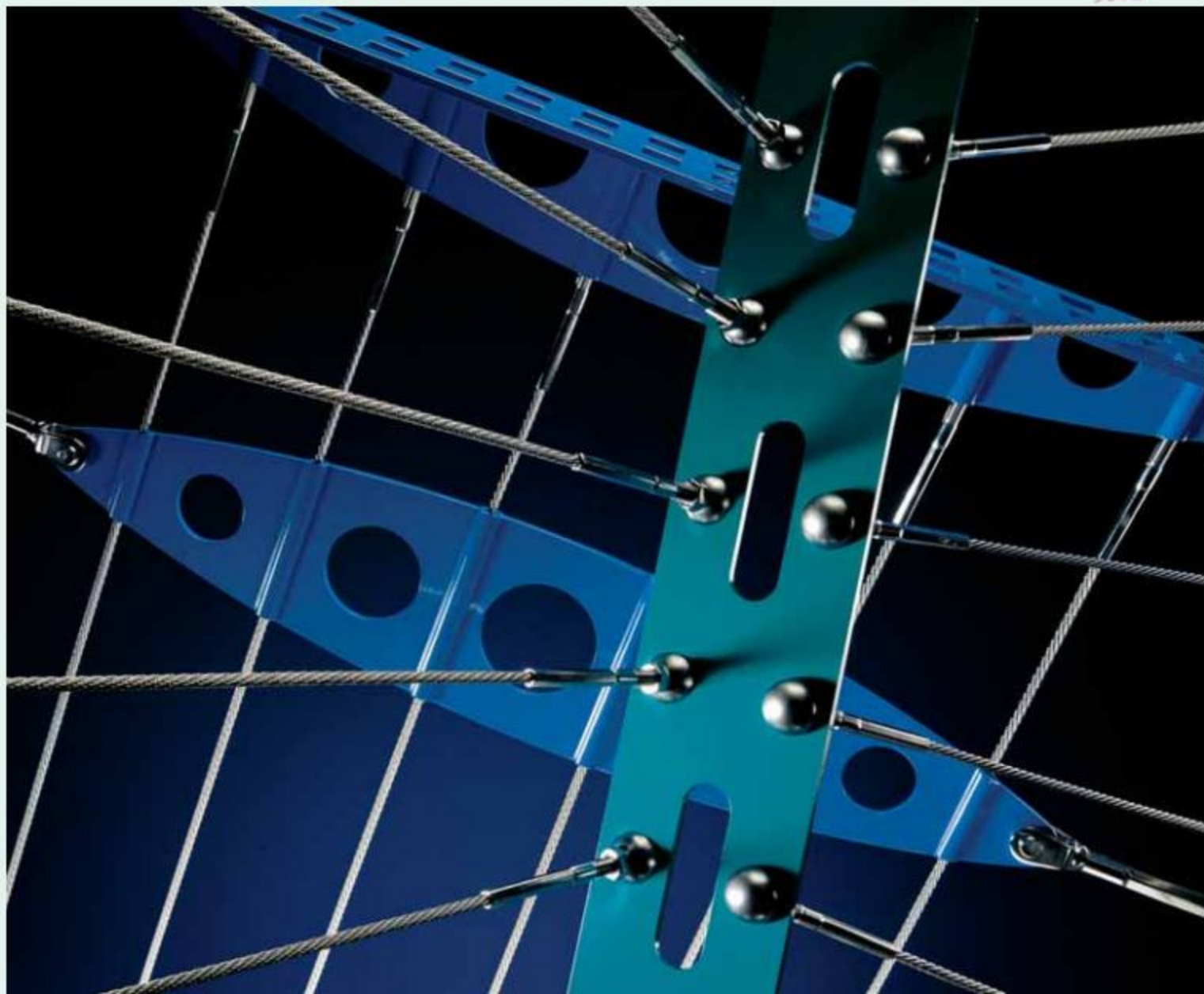
1.4305
AISI 303

58.A



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58.B



A bench drill with a depth stop is needed to professionally drill and shape the hole for the VARIBALL® end stop.

The VARIBALL® is designed to be retained in flat sections. A special milling tool is required to produce the matching hole.

VARIBALL® types MkI to MkIII accept wire ropes with swaged or welded external threads; type MkIV has a special compression fitting for cut wire rope ends.

Within the cone defined by the deflection angle, the longitudinal axis of the tensioned wire rope can point in any direction.

The deflection angle α applies to the permissible longitudinal axis of the wire rope. The maximum deflection angle α_{max} defines the envelope of the cone. The α_{max} values are listed in the product tables for MkI to MkIV on page 57.



The use of JAKOB VARIBALL® fittings calls for careful planning and execution!

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VARIBALL® COUNTERSINK MILL

HSS-Co5

Only for bench drills with depth stops

for VARIBALL®	Diameter \varnothing	Diameter \varnothing d1	Radius r	Total length b1	Shaft a x b2
30891-					
1200	12	12,5	6	65	12 x 50
1600	16	16,5	8	65	16 x 50
2000	20	20,5	10	65	12 x 50
2400	24	24,5	12	75	12 x 50

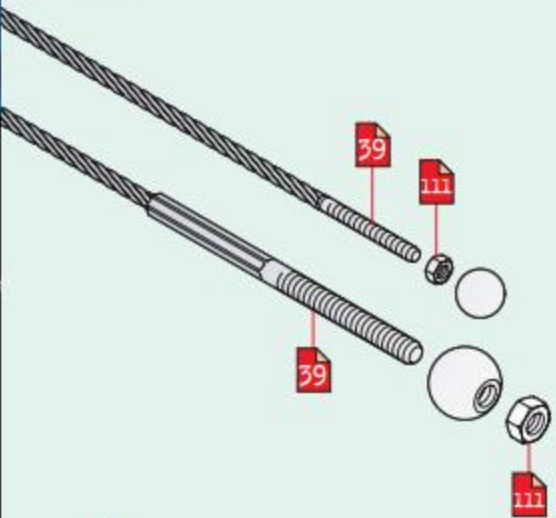
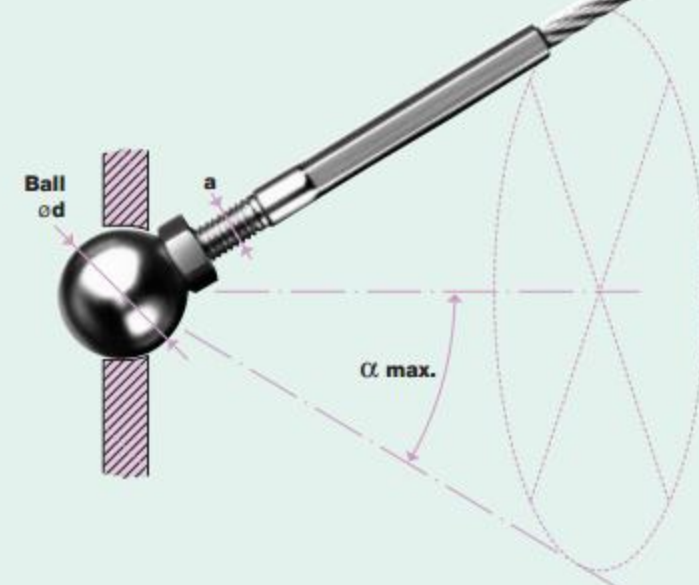
VARIBALL® TEMPLATE

Only for bench drills with depth stops

Sketch	Drilling procedure
d1 = After milling	• Predrill (about 2 mm less than rated \varnothing)
d2 = Ball \varnothing - 1 mm	• Finish with VARIBALL® COUNTERSUNK MILL
k = Wall thickness	• Accurately set depth stop
r = After milling	• Clamp workpiece tightly

VARIBALL® DEFLECTION ANGLE

Definition of deflection angle α (i.e. α_{max} .)



Measure assembly lengths like this:

