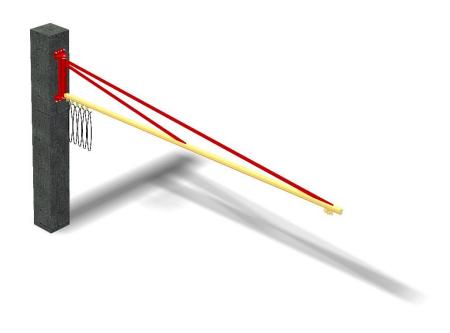




Assembly instruction Wall mounted jib crane







- Measure the mounting position.
 Care should be taken to ensure that the crane arm covers all the required working area and that no jamming edges are present.
- 2. Mount the console to the wall:

 Drill the holes at the desired position:

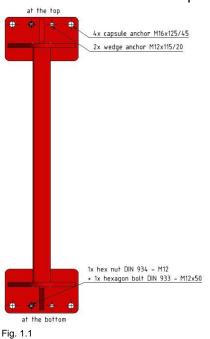




Fig. 1.2



Fig. 1.3

The console will be fixed with 2 anchor bolts (Fig. 1.1). With the adjusting screws (Fig. 1.2 und 1.3) the console can be adjusted. After that the console can be mounted with the 4 pc. Capsule anchors.

3. Fix the label:



Fig. 2

Fix the labels which are included in the barbaric scope of delivery.





4. Attach the crane arm using the mounting bolts:

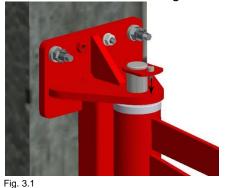




Fig. 3.2

5. Secure the mounting bolt with the screw:



Fig. 4

Once again check the alignment, balance and mounting bolts of the pillar crane.

6. Mount the energy supply and secure them via safety screw:







Fig. 5.1

Fig. 5.2

Fig. 5.3

Mount the energy supply (Fig. 5.1) and fix them via clamping plates at the end of the rail (Fig. 5.2). Afterwards a safety screw has to be assembled in front of the energy supply (Fig. 5.3). This prevents the power supply from being damaged by the transport trolley.

7. Mount the transport trolley and the vacuum lifter on the bridge:





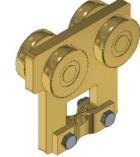


Fig. 6.2

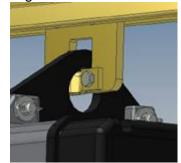


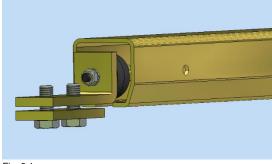
Fig. 6.3





Open the two screws on the transport trolley and hang up the chain hoist. Before attaching the chain hoist, make sure that the mounting eyes are mounted as shown in Fig. 7.3.

8. Mount the stopper of the rail, fix and secure it:



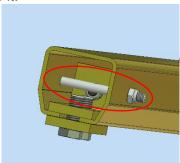


Fig. 8.1

Assemble the stopper at the End of the rails (clamp) (Fig. 8.1) and afterwards secure the rail behind the stopper with a screw (Fig. 8.2). Limited the possible crane runway of the chain hoist, therefore a crash is not possible.

9. Connect vacuum lifter electrically and pneumatically:

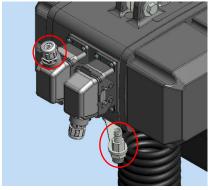


Fig. 9

Connect electrical according to circuit diagram (see documentation) and pneumatically by clutch on the power supply.

10. Connect Main lead by the electrician:

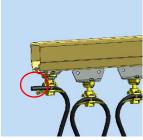


Fig. 10

The power supply can be mounted in such a way that the cable and the hose cannot be damaged when the boom is pivoted.





11. Fix the main switch unit on the column:



Fig. 11

The main switch unit is scope of delivery. This main switch unit enable the user to cut the energy – and compressed air of locally. Connect the main supply line by the electrician. Do not turn off the energy – and compressed air during lifting, risk of injury!

12. Start the performance check and keep the documentation in mind









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English translation prepared by DIBt

 $\begin{array}{l} h_{\text{ef},1} \ ... \ \text{minimum setting depth} \\ h_{\text{ef},2} \ ... \ \text{average setting depth} \\ h_{\text{ef},3} \ ... \ \text{maximum setting depth} \end{array}$

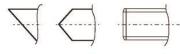
Table 2: Installation parameters for fischer threaded rods FIS A and RGM

Size					M8	M10	M12	M16	M20	M24	M27	M30
	Nominal drill b	d_0	[mm]	10	12	14	18	24	28	30	35	
	Depth of drill hole		h_0	[mm]	$h_0 = h_{ef}$							
	Effective anchorage		$h_{\text{ef},\text{min}}$	[mm]	60	60	70	80	90	96	108	120
Injection mortar	depth	·	h _{ef,max}	[mm]	160	200	240	320	400	480	540	600
FIS SB	Diameter of clearance	pre- positioned	≤ d _f	[mm]	9	12	14	18	22	26	30	33
	hole in the fixture ¹⁾	push through	≤ d _f	[mm]	11	14	16	20	26		40	
	Nominal drill b	it diameter	d ₀	[mm]	10	12	14	18	25	28		35
	Depth of drill hole		h ₀	[mm]	$h_0 = h_{ef}$							
	Effective		h _{ef,1}	[mm]		75	75	95				
Resin	anchorage		h _{ef,2}	[mm]	80	90	110	125	170	210		280
capsule	depth		h _{ef,3}	[mm]		150	150	190	210			
RSB	Diameter of clearance hole in the fixture ¹⁾	Only pre- positioned anchorage	≤ d _f	[mm]	9	12	14	18	22	26		33
	Minimum spacing and minimum edge distance $s_{min} = c_{min}$			[mm]	40	45	55	65	85	105	120	140
	Minimum thickness of concrete member		h_{min}	[mm]	h _{ef} -	h _{ef} + 30 (≥100) h _{ef} + 2d ₀				0		
Maximum moment	Maximum torque moment		$T_{inst,max}$	[Nm]	10	20	40	60	120	150	200	300
Thickness	of fixture		$t_{\text{fix,mim}}$	[mm]					0			
Inickness	s of fixture	'	t _{fix,max}	[mm]				30	000			

¹⁾ For bigger clearance holes in the fixture see chapter 1.1 of the TR 029

fischer threaded rods rod FIS A and RGM

Alternative point geometry threaded rods FIS A



Alternative point geometry threaded rods RGM



Marking (on random place):

Property class 8.8 or high corrosions-resistant steel C, property class 80: • Stainless steel A4, property class 50 and high corrosion-resistant steel C, property class 50: ••

	fischer Superbond	
-	fischer threaded rods FIS A und RGM Installation parameters and dimensions	Annex 5



≥ ↓

Marking of setting depth

hef

hef





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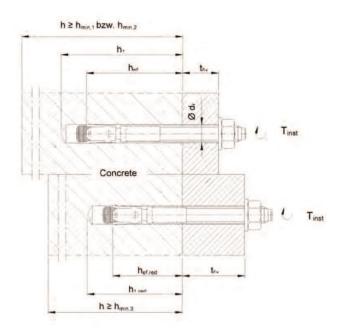
English translation prepared by DIBt





Table B1: Installa	on parameters, BZ plus
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Anchor size			M8	M10	M12	M16	M20	M24	M27	
Nominal drill hole diameter		do	[mm]	8	10	12	16	20	24	28
Cutting diame	eter of drill bit	d _{cut} ≤	[mm]	8,45	10,45	12,5	16,5	20,55	24,55	28,55
	Steel, galvanised	Tinst	[Nm]	20	25	45	90	160	200	300
Installation	Steel, sherardized	Tinst	[Nm]	-	22	40	90	160	-	
torque	Stainless steel A4, HCR	T _{inst}	[Nm]	20	35	50	110	200	290	4-
Diameter of clearance hole in the fixture		$d_{f} \leq$	[mm]	9	12	14	18	22	26	30
Standard an	chorage depth				14					
Depth of	Steel, zinc plated	h₁ ≥	[mm]	60	75	90	110	125	145	160
drill hole	Stainless steel A4, HCR	h₁ ≥	[mm]	60	75	90	110	125	24 24,55 200 - 290 26	24
Effective	Steel, zinc plated	hef	[mm]	46	60	70	85	100	115	125
anchorage depth	Stainless steel A4, HCR	h _{ef}	[mm]	46	60	70	85	100	125	•
Reduced an	chorage depth									
Depth of drill hole		h _{1,red} ≥	[mm]	49	55	70	90			
Reduced effective anchorage depth		h _{ef,red}	[mm]	35	40	50	65	(*		-



Madaa	Anchor	D7 plus
Wedge	Anchor	DZ DIUS

Intended use Installation parameters Annex B3





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English translation prepared by DIBt



Anchor size			M8	M10	M12	M16	M20	M24	M27
Standard thickness of concret	e membe								
Steel zinc plated				70					
Standard thickness of member	h _{min,1}	[mm]	100	120	140	170	200	230	250
Cracked concrete									
Minimum spacing	Smin	[mm]	40	45	60	60	95	100	125
	for c ≥	[mm]	70	70	100	100	150	180	300
Minimum edge distance	Cmin	[mm]	40	45	60	60	95	100	180
	for s ≥	[mm]	80	90	140	180	200	220	540
Non-cracked concrete					- 22	72.2		1122	
Minimum spacing	Smin	[mm]	40	45	60	65	90	100	125
	for c ≥	[mm]	80	70	120	120	180	180	300
Minimum edge distance	C _{min}	[mm]	50	50	75	80	130	100	180
	for s ≥	[mm]	100	100	150	150	240	220	540
Stainless steel A4, HCR				1 200		400	200	200	
Standard thickness of member	h _{min,1}	[mm]	100	120	140	160	200	250	
Cracked concrete				-				100	
Minimum spacing	Smin	[mm]	40	50	60	60	95	125	
NV-1	for c ≥	[mm]	70	75	100	100	150	125	
Minimum edge distance	C _{min}	[mm]	40	55	60	60	95	125	
N. C. 10. C. N. L. 10. C. N. C. 10. C. N. C. 10. C.	for s ≥	[mm]	80	90	140	180	200	125	
Non-cracked concrete		f1	40		00	0.5	00	105	
Minimum spacing	Smin	[mm]	40	50	60	65	90	125	
Minimum adas distance	for c ≥	[mm]	80	75	120	120	180	125	-
Minimum edge distance	Cmin	[mm]	50	60	75	80	130	125	
	for s ≥	[mm]	100	120	150	150	240	125	
Minimum thickness of concret									
Steel zinc plated, stainless ste			00	100	400	440			
Minimum thickness of member Cracked concrete	h _{min,2}	[mm]	80	100	120	140	-	-	-
	•	[mm]	40	45	60	70			
Minimum spacing	s _{min} for c ≥		70	90	100	160			
Minimum edge distance		[mm]	40	50	60	80	-	-	
William eage distance	c _{min} for s ≥	[mm]	80	115	140	180			
Non-cracked concrete	101 3 2	finant	00	113	140	100			
Minimum spacing	Smin	[mm]	40	60	60	80			
	for c ≥	[mm]	80	140	120	180			
Minimum edge distance	C _{min}	[mm]	50	90	75	90	•	-	-
	for s ≥		100	140	150	200			
Fire exposure from one side		-							
Minimum spacing	S _{min,fi}	[mm]			See norma				
Minimum edge distance	C _{min,fi}	[mm]			see norma	l ambient	temperatu	re	
Fire exposure from more than	one side								
Minimum spacing	S _{min,fi}								
Minimum edge distance	C _{min,fi}	[mm]			2	300 mm			
ntermediate values by linear interpola	ation.								
Wedge Anchor BZ plus									