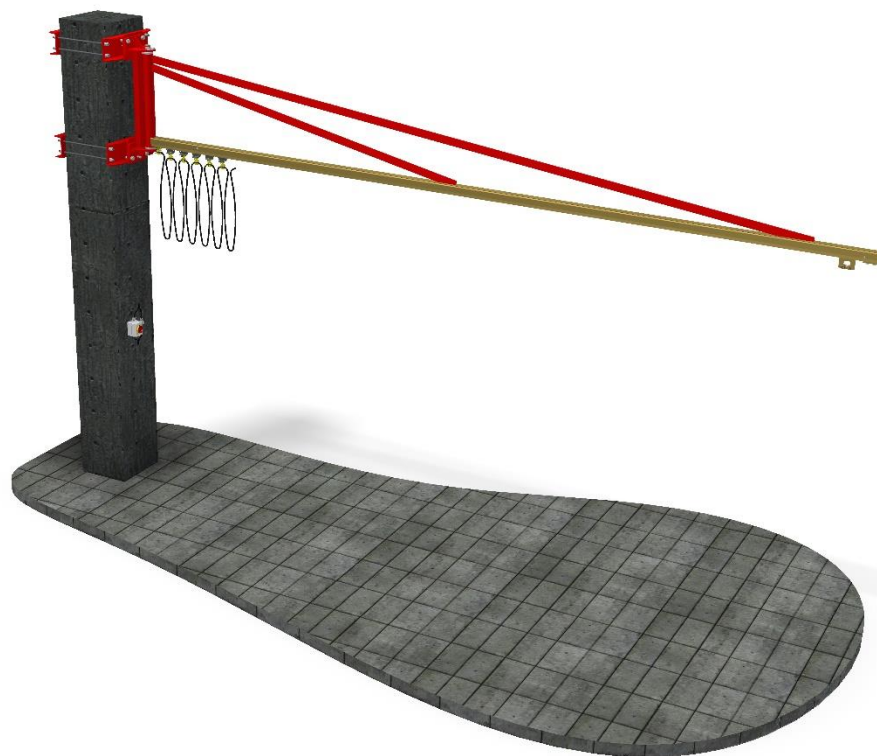# Assembly instruction
Wall mounted jib crane
(cover mounting)

1. 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.
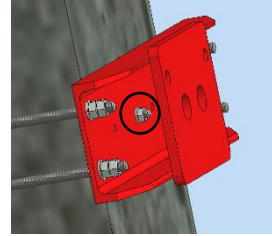
2. Mount the cover:

Fig. 1.1

Fig. 2.2

Mount the cover at the selected height with anchor bolt (Fig. 1.1 and 1.2). Add the back part with the threaded rod. Secure the threaded rod with the hexagonal nuts and locknut.
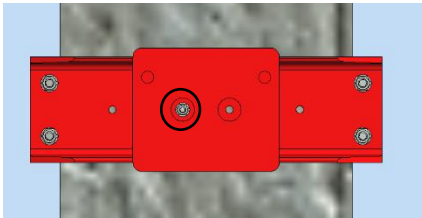

Fig. 1.3

3. Fix the label:

Fig. 2

Fix the labels which are included in the barbaric scope of delivery.
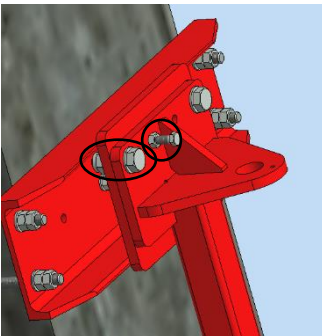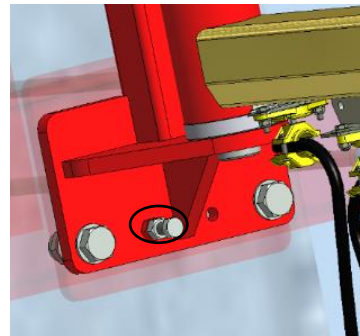
4. Mount the console on the cover:

Fig. 3.1

FIg. 3.2

Mount the console on the cover with provided hexagon screws and a locknut (Fig. 3.1). The console can be adjusted with adjusting screws (Fig. 3.1 und 3.2).

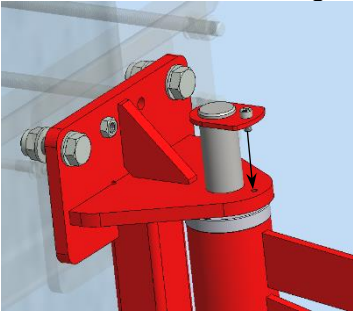5. Attach the bracket using the mounting bolts:

Fig. 4.1
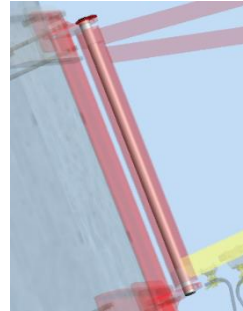
Fig. 4.2

6. Secure the boom mounting bolt with the screw:
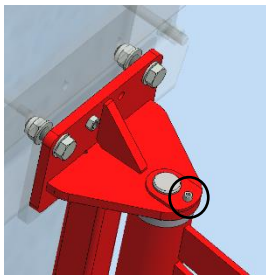
Fig. 5

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

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

Fig. 6.1

Fig. 6.2

Fig. 6.3

Mount the energy supply (Fig. 6.1) and fix them via clamping plates at the end of the rail (Fig. 6.2). Afterwards a safety screw has to be assembled in front of the energy supply (Fig. 6.3). This prevents the power supply from being damaged by the transport trolley.

8. Mount the transport trolley and the vacuum lifter on the bridge:
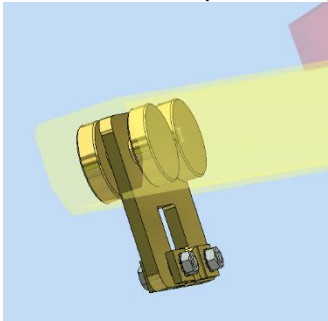
Fig. 7.1
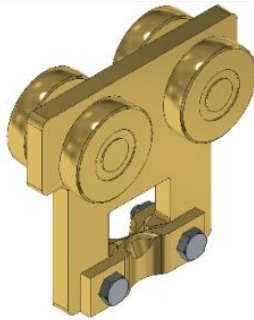
Fig. 7.2
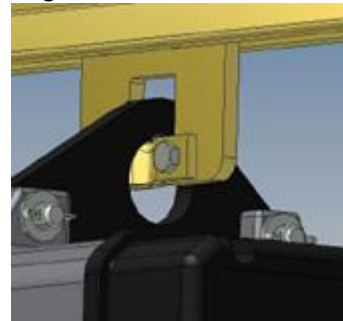
Fig. 7.3

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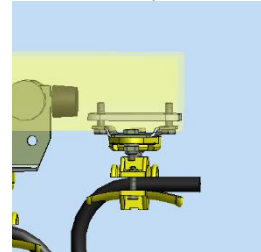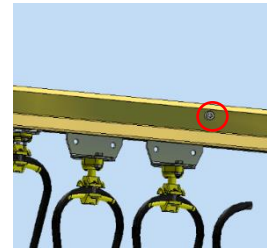Before attaching the chain hoist, make sure that the mounting eyes are mounted as shown in Fig. 7.3.

9. Mount the stopper of the rail, fix and secure it:
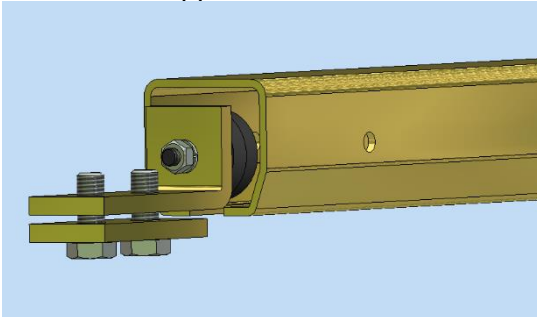
Fig. 8.1
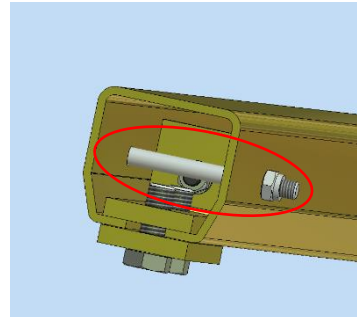
Fig 8.2

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.

10. Connect vacuum lifter electrically and pneumatically:
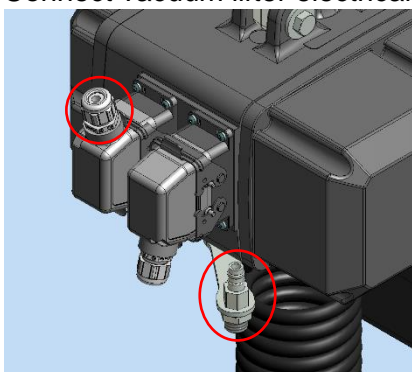
Fig. 9

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

11. Connect Main lead by the electrician:
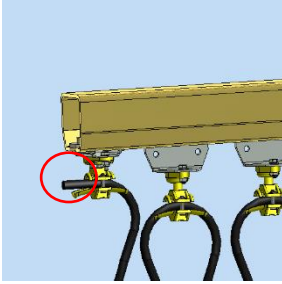
Fig. 10

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

12. Fix the main switch unit on the column:
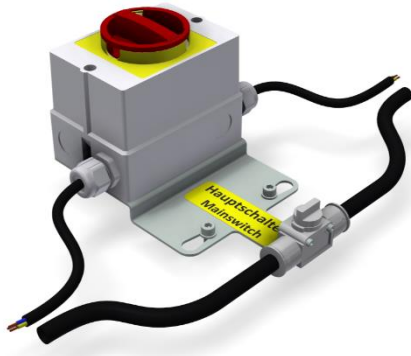
Fig. 11

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!

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

**Deutsches
Institut
für
Bautechnik**

DIBt

Tabelle B1: Montage- und Dübelkennwerte, BZ plus

| Dübelgröße				M8	M10	M12	M16	M20	M24	M27
Bohrernenndurchmesser		d_0	[mm]	8	10	12	16	20	24	28
Bohrerschneidendurchmesser		$d_{cut} \leq$	[mm]	8,45	10,45	12,5	16,5	20,55	24,55	28,55
Drehmoment beim Verankern	Stahl galvanisch verzinkt	T_{inst}	[Nm]	20	25	45	90	160	200	300
	Stahl diffusionsverzinkt	T_{inst}	[Nm]	-	22	40	90	160	-	-
	nichtrostender Stahl A4, HCR	T_{inst}	[Nm]	20	35	50	110	200	290	-
Durchgangsloch im anzuschließenden Bauteil		$d_f \leq$	[mm]	9	12	14	18	22	26	30
Standardverankerungstiefe										
Bohrlochtiefe	Stahl verzinkt	$h_1 \geq$	[mm]	60	75	90	110	125	145	160
	nichtrostender Stahl A4, HCR	$h_1 \geq$	[mm]	60	75	90	110	125	155	-
Eff. Ver-ankerungs-tiefe	Stahl verzinkt	h_{ef}	[mm]	46	60	70	85	100	115	125
	nichtrostender Stahl A4, HCR	h_{ef}	[mm]	46	60	70	85	100	125	-
Reduzierte Verankerungstiefe										
Bohrlochtiefe		$h_{1,red} \geq$	[mm]	49	55	70	90			
Reduzierte, effektive Verankerungstiefe		$h_{ef,red}$	[mm]	35	40	50	65	-	-	-
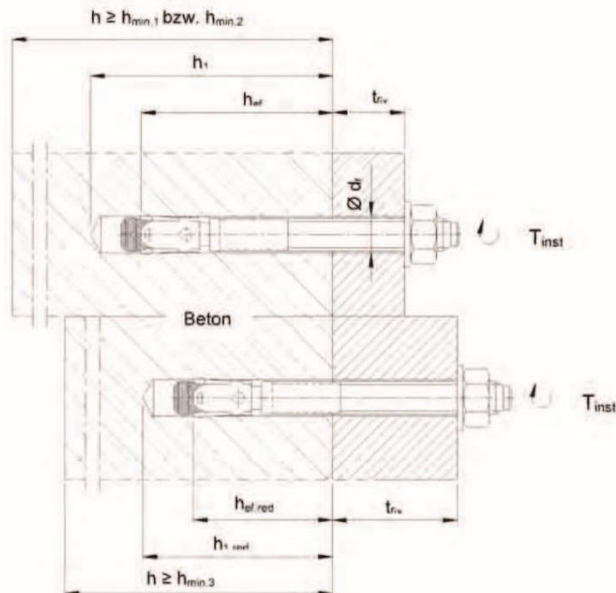
Bolzenanker BZ plus	
Verwendungszweck Montagekennwerte	**Anhang B3**

Tabelle B2: Minimale Achs- und Randabstände, Standardverankerungstiefe, BZ plus

Dübelgröße			M8	M10	M12	M16	M20	M24	M27
Standardbauteildicke									
Stahl verzinkt									
Standardbauteildicke	$h_{min,1}$	[mm]	100	120	140	170	200	230	250
Gerissener Beton									
Minimaler Achsabstand	s_{min}	[mm]	40	45	60	60	95	100	125
	für c ≥	[mm]	70	70	100	100	150	180	300
Minimaler Randabstand	c_{min}	[mm]	40	45	60	60	95	100	180
	für s ≥	[mm]	80	90	140	180	200	220	540
Ungerissener Beton									
Minimaler Achsabstand	s_{min}	[mm]	40	45	60	65	90	100	125
	für c ≥	[mm]	80	70	120	120	180	180	300
Minimaler Randabstand	c_{min}	[mm]	50	50	75	80	130	100	180
	für s ≥	[mm]	100	100	150	150	240	220	540
Nichtrostender Stahl A4, HCR									
Standardbauteildicke	$h_{min,1}$	[mm]	100	120	140	160	200	250	-
Gerissener Beton									
Minimaler Achsabstand	s_{min}	[mm]	40	50	60	60	95	125	
	für c ≥	[mm]	70	75	100	100	150	125	
Minimaler Randabstand	c_{min}	[mm]	40	55	60	60	95	125	-
	für s ≥	[mm]	80	90	140	180	200	125	
Ungerissener Beton									
Minimaler Achsabstand	s_{min}	[mm]	40	50	60	65	90	125	
	für c ≥	[mm]	80	75	120	120	180	125	
Minimaler Randabstand	c_{min}	[mm]	50	60	75	80	130	125	-
	für s ≥	[mm]	100	120	150	150	240	125	
Mindestbauteildicke									
Stahl verzinkt, nichtrostender Stahl A4, HCR									
Mindestbauteildicke	$h_{min,2}$	[mm]	80	100	120	140	-	-	-
Gerissener Beton									
Minimaler Achsabstand	s_{min}	[mm]	40	45	60	70			
	für c ≥	[mm]	70	90	100	160			
Minimaler Randabstand	c_{min}	[mm]	40	50	60	80	-	-	-
	für s ≥	[mm]	80	115	140	180			
Ungerissener Beton									
Minimaler Achsabstand	s_{min}	[mm]	40	60	60	80			
	für c ≥	[mm]	80	140	120	180			
Minimaler Randabstand	c_{min}	[mm]	50	90	75	90	-	-	-
	für s ≥	[mm]	100	140	150	200			
Brandbeanspruchung von einer Seite									
Minimaler Achsabstand	$s_{min,fi}$	[mm]				Siehe Normaltemperatur			
Minimaler Randabstand	$c_{min,fi}$	[mm]				Siehe Normaltemperatur			
Brandbeanspruchung von mehr als einer Seite									
Minimaler Achsabstand	$s_{min,fi}$	[mm]				Siehe Normaltemperatur			
Minimaler Randabstand	$c_{min,fi}$	[mm]				≥ 300 mm			

Zwischenwerte dürfen interpoliert werden.

Bolzenanker BZ plus	
Verwendungszweck Minimale Achs- und Randabstände für Standardverankerungstiefe	**Anhang B4**