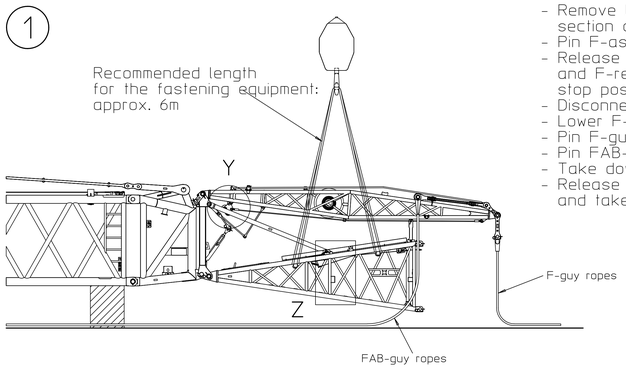
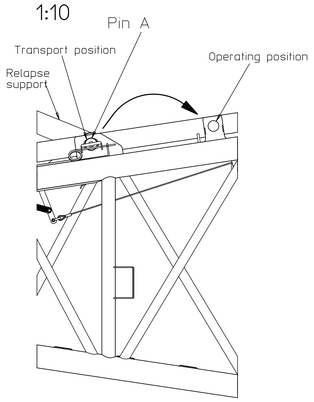
F-assembly variant 1

1

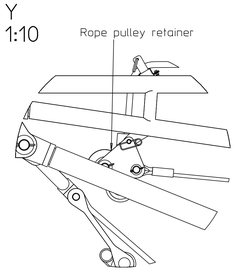


- Remove lashing straps (between F-pivot section and FA-frame) before mounting
- Pin F-assembly unit with F-connector head
- Release pin A (connecting pin from F-pivot section and F-relapse support) and peg in stop position (see Detail Z)
- Disconnect FA-frame relapse retainer (see Detail X)
- Lower F-pivot section until it is resting on the ground
- Pin F-guy ropes with lugs of the FA-frame
- Pin FAB-guy ropes to swing arm of the FA-frame
- Take down free ends from the boom at the side
- Release rope pulley retainer from the FA-frame (see Detail Y) and take down on the open end of the F-pivot section

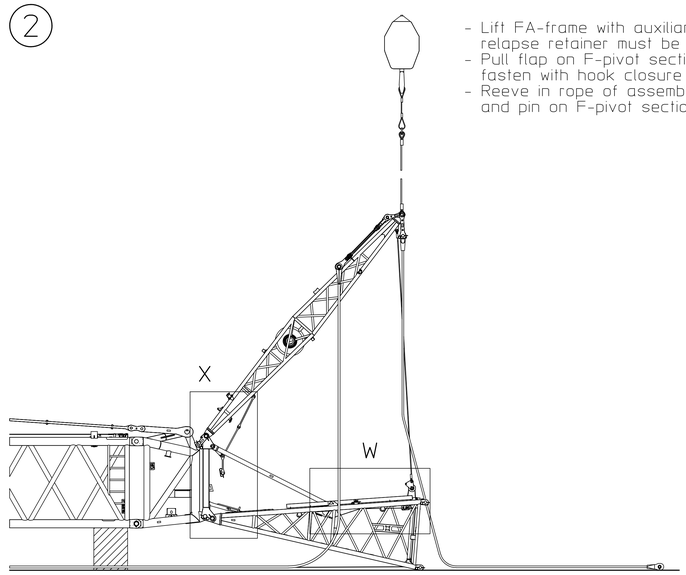
Z
1:10



Y
1:10

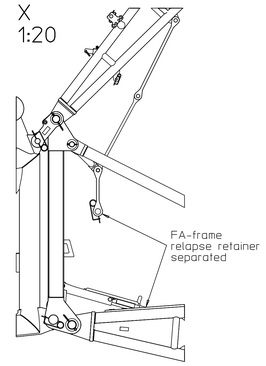


2



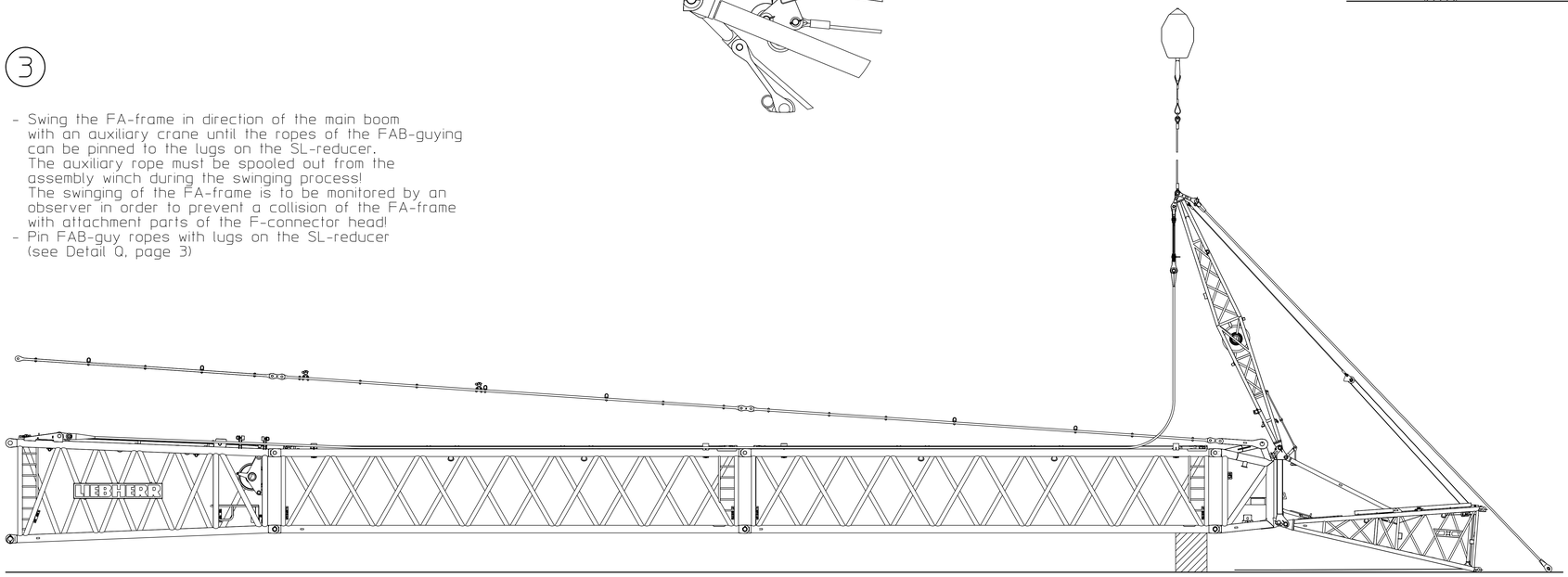
- Lift FA-frame with auxiliary crane (FA-frame relapse retainer must be separated!)
- Pull flap on F-pivot section down and fasten with hook closure (see Detail W)
- Reeve in rope of assembly winch in rope pulley block and pin on F-pivot section (see Detail W)

X
1:20

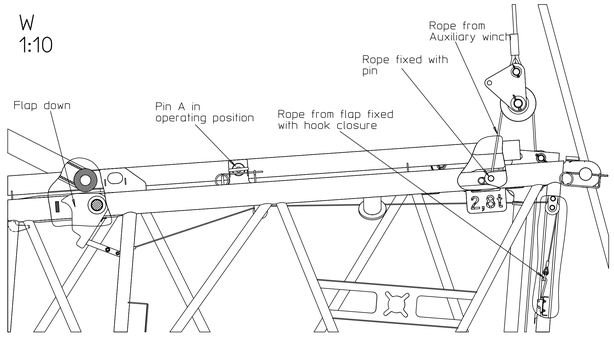


3

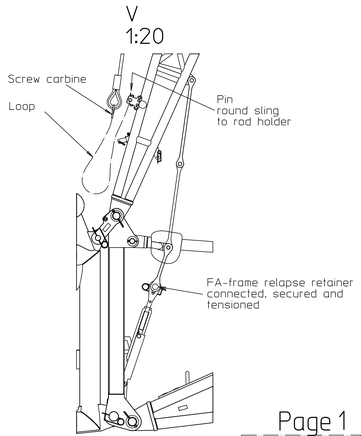
- Swing the FA-frame in direction of the main boom with an auxiliary crane until the ropes of the FAB-guying can be pinned to the lugs on the SL-reducer. The auxiliary rope must be spooled out from the assembly winch during the swinging process! The swinging of the FA-frame is to be monitored by an observer in order to prevent a collision of the FA-frame with attachment parts of the F-connector head!
- Pin FAB-guy ropes with lugs on the SL-reducer (see Detail Q, page 3)



W
1:10

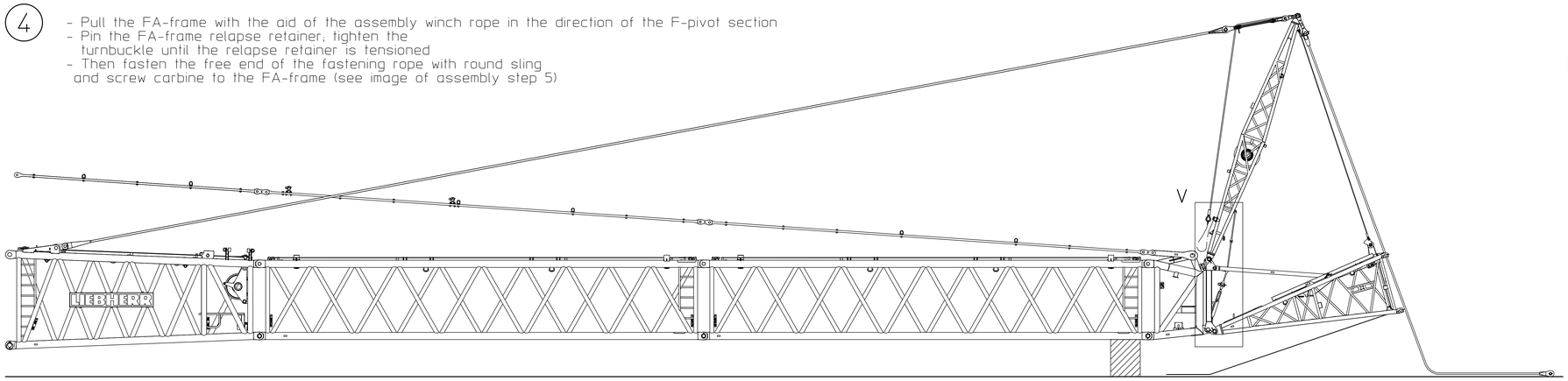


V
1:20



4

- Pull the FA-frame with the aid of the assembly winch rope in the direction of the F-pivot section
- Pin the FA-frame relapse retainer; tighten the turnbuckle until the relapse retainer is tensioned
- Then fasten the free end of the fastening rope with round sling and screw carbine to the FA-frame (see image of assembly step 5)



Static inspected:		Date	Name	Signature
	Administrator		Schwertle	
	Team leader		Bohnacker	
	Dep. manager		Henkel	
Comment:				

Page 1 by 4 U(m)= F(m2)=

Werkstoff/Material/Matière	Fertiggewicht/Weight/Poids kg	Tolerierung / Tolerance / tolérance	Weitere Anforderungen siehe Teilestammsatz / further specifications see parts master record / autres spécifications cf. nomenclature
Dokumentation / Distribution / Documentation	Bearbeitung/Finish/Usinage	Maschinenbearbeitung / machining / usinage mécanique: ISO 2768-mk Schweißkonstruktionen / welded structure / Constructions soudées: ISO 13920 BF Brennschneiden / thermal cutting / coupage thermique: ISO 9013-442	Für die Herstellung der Liefergegenstände gelten die aktuellen Fertigungsunterlagen / For the delivery of all items the newest documents apply / Les documents de fabrication actuels s'appliquent à la réalisation de l'objet de livraison

Projektion E	Datum / Date / Date	Name / Name / Nom	A0	LIEBHERR LIEBHERR-WERK EHINGEN GMBH
	2016/07/19	lwerem1		

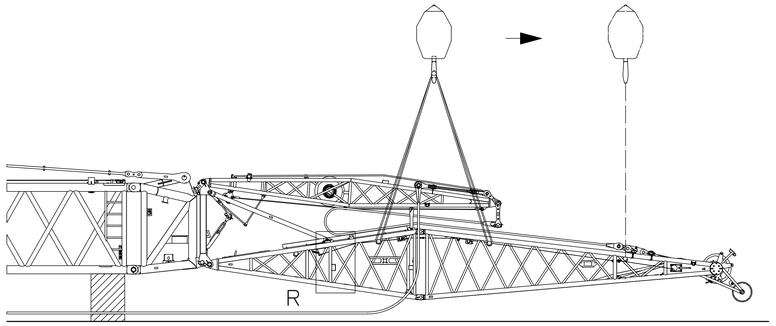
Maßstab / Scale / Echelle	Bezeichnung/Description/Dénomination	Zeichnungs Nr./Drawing No./N°de dessin
1:50	ASSEMBLY DRAWING F-J1BF3	1666-720.00.00.019- 000
		Ident Nr./Ident No./N°d´ident: 98029514

F-assembly variant 2

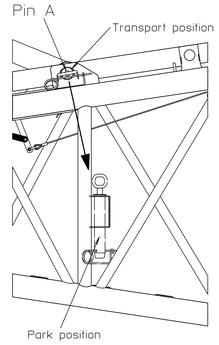
This type of assembly is only permissible for the 12m long jib (F-pivot section with F-end section)!
During assembly, no hook block may be suspended on the F-jib!

1

- Install the F-assembly unit with pinned F-end section to the F-connector head. The F-guy ropes must be installed and pinned!
- Release pin A and insert and secure it in park position (see Detail R)
- Disconnect FA-frame relapse retainer (see page 1, Detail X)
- Lower F-jib until it is resting on the ground
- Hang up the fastening ropes of the auxiliary crane only on bollards on the end of the F-end section
- Pin the FAB-guy ropes to lugs of the FA-frame swing arm; take down free ends from the boom at the side
- Pull flap on the F-pivot section down with the aid of the manual rope winch (see Detail W, page 1) Auxiliary ropes must be connected (see Detail T)

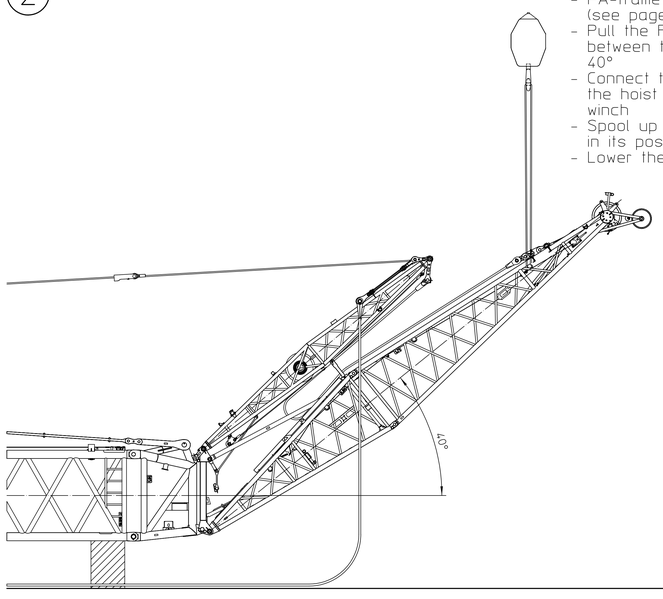


R
1:10

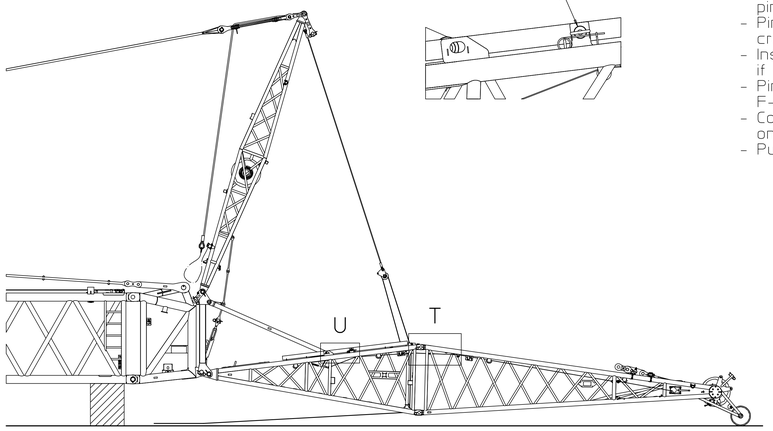


2

- FA-frame relapse retainer must be separated (see page 1, Detail X)
- Pull the F-jib up with an auxiliary crane until the angle between the FA-frame and the main boom is at least 40°
- Connect the fastening rope of the FA-frame with the hoist rope; use pad lock for the hoist winch
- Spool up hoist rope until the FA-frame is held in its position
- Lower the F-jib into the horizontal position



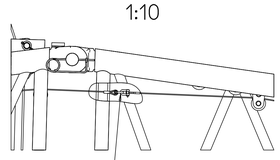
5



U
1:10

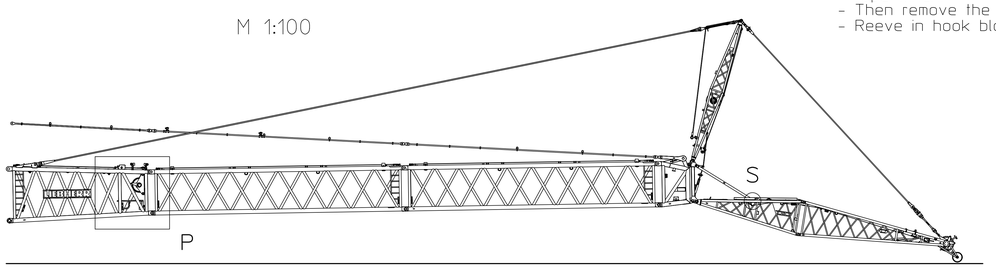
- Lower F-pivot section
- Reeve out assembly winch rope and pin the rope pulley retainer back on the FA-frame
- Pin A remains in operating position during the crane operation (see Detail U)
- Install F-end section and F-intermediate sections if necessary
- Pin F-guy ropes with guy ropes of the F-intermediate sections and on the F-end section
- Connect rope line from flap (on F-pivot section) to manual rope winch on F-end section (see Detail T)
- Pull flap down with the aid of the manual rope winch

T
1:10



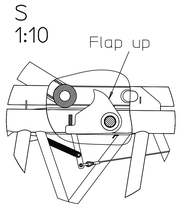
6

M 1:100



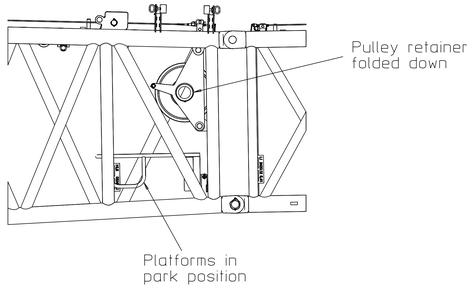
- Lift main boom
- Notice:
  Immediately after the F-jib lifts off the ground, the flap must be moved to the 'up' position (By spooling out the rope on the manual rope winch)
- Then remove the crank from the auxiliary winch
- Reeve in hook block

S
1:10



P
1:25

The following prerequisites apply to the SL-reducer (assembly variant 1 and 2):
- Pulley retainer must be folded down
- Platforms must be pinned in park position



U(m)= F(m2)=

Werkstoff/Material/Matière	Fertiggewicht/Weight/Poids kg	Toleranzen / Tolerance / tolérance	ISO 8015
		Blechbearbeitung / machining / usinage mécanique	ISO 2768-mk
Dokumentation / Distribution / Documentation	Bearbeitung/Finish/Usinage	Schweißkonstruktionen / welded structure / Constructions soudées	ISO 13920 BF
		Brennschneiden / thermal cutting / coupage thermique	ISO 9013-442

Weitere Anforderungen siehe Teilestammsatz / further specifications see parts master record / autres spécifications cf. nomenclature

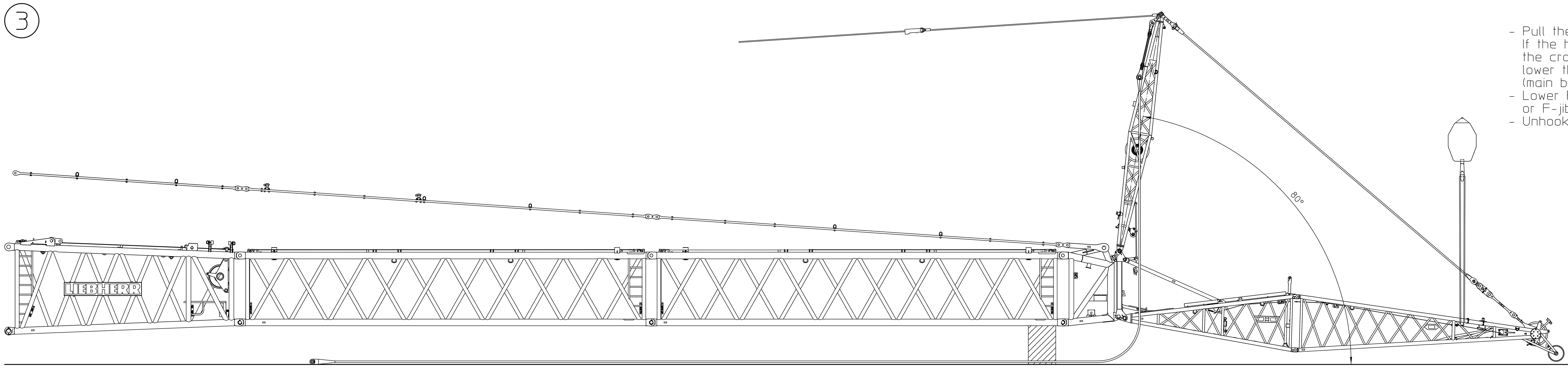
Für die Herstellung der Liefergegenstände gelten die aktuellen Fertigungsunterlagen / For the delivery of all items the newest documents apply / Les documents de fabrication actuels s'appliquent à la réalisation de l'objet de la livraison

Projektion E	Datum / Date / Date	Name / Name/Nom	A0
	2016/07/19	lwerem1	

LIEBHERR
LIEBHERR-WERK EHINGEN GMBH

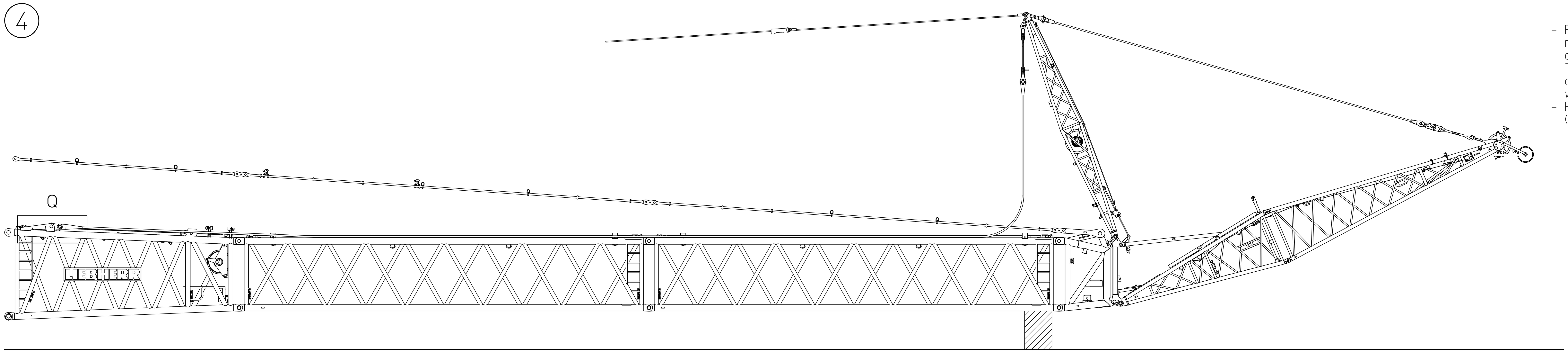
Maßstab / Scale / Echelle	Bezeichnung/Description/Dénomination	Zeichnungs Nr./Drawing No./N°de dessin
1:50	ASSEMBLY DRAWING F-JIBF3	1666-720.00.00.019- 000
		Ident Nr./Ident No./N°d'ident 98029514

(3)



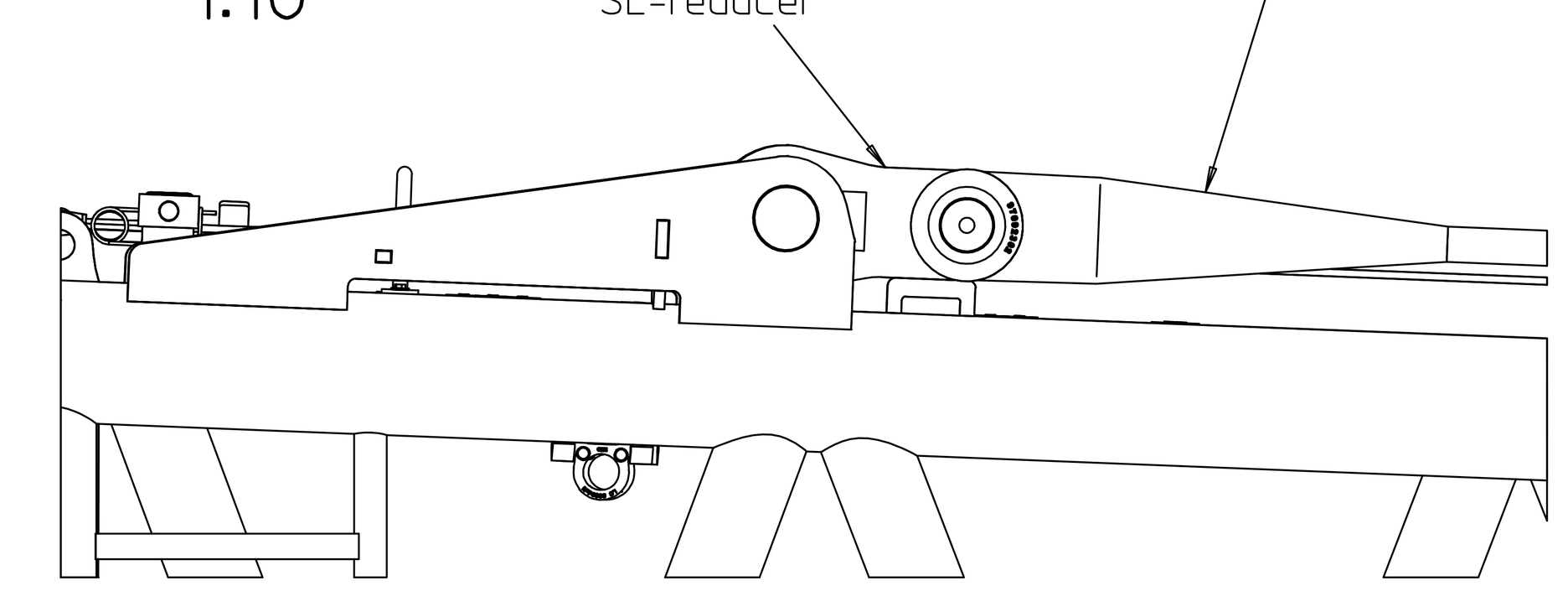
- Pull the FA-frame up to maximum 80° to the horizontal.
  If the hoist rope touches against
  the cross connection of the auxiliary guying here,
  lower the main guying and unhook the cross connection
  (main boom must be placed down on a substructure or the ground)
- Lower F-jib until F-guy ropes are tensioned
  or F-jib is resting on the ground
- Unhook fastening ropes of the auxiliary crane

(4)

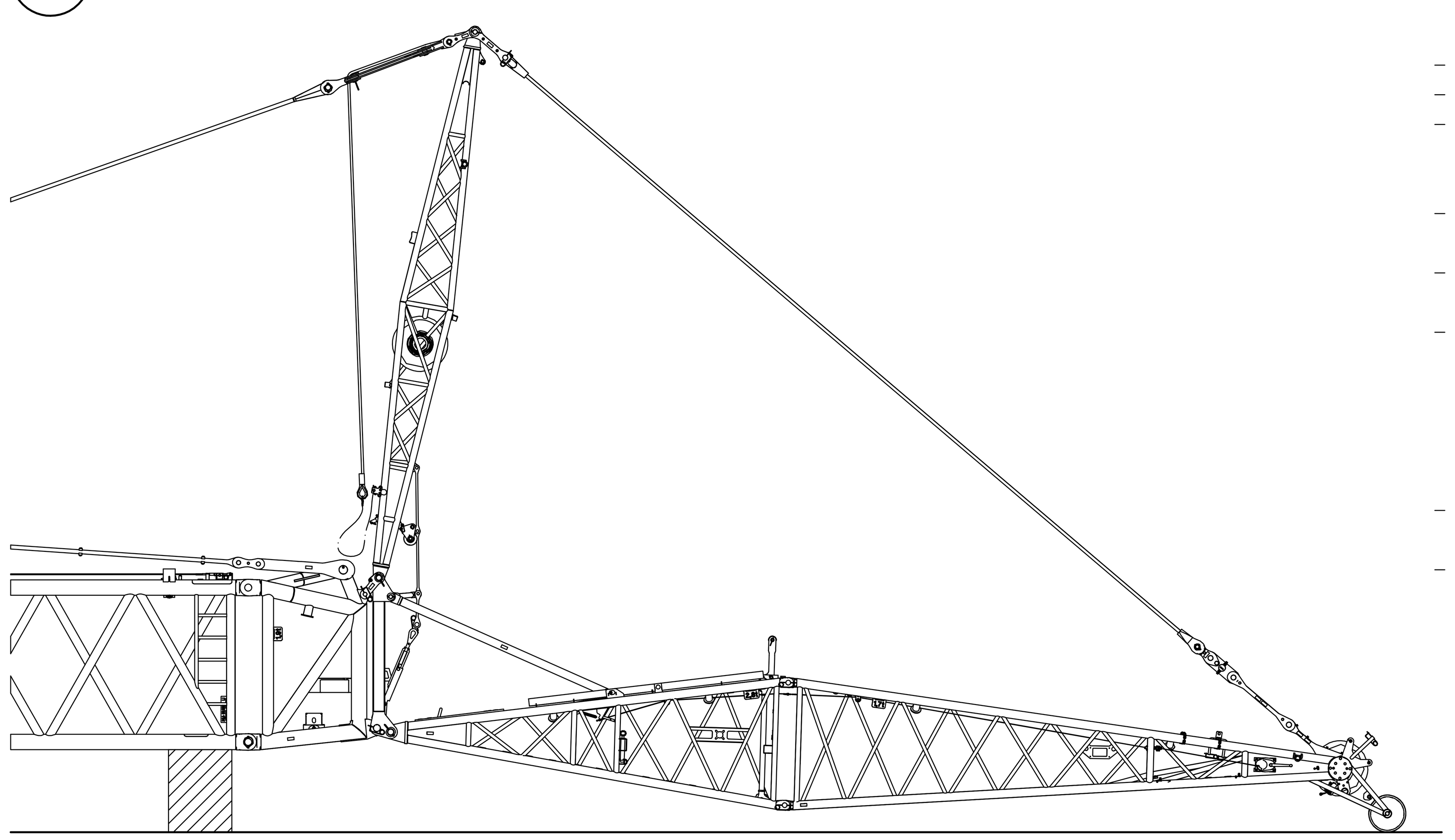


- Pull the FA-frame in direction of the main boom with a hoist rope until the FAB-guy ropes can be pinned to the lugs on the SL-reducer.
  The swinging of the FA-frame is to be monitored by an observer in order to prevent a collision of the FA-frame with attachment parts of the F-connector head!
- Pin FAB-guy ropes with lugs on the SL-reducer (see Detail Q)

Q
1:10



(5)



- Spool out hoist rope
- Remove pad lock
- Fasten free end of the fastening rope with screw carbine and round sling on the rod holder on the FA-frame
- Insert pin A in operating position (see Detail W, page 1)
- Pin FA-frame relapse retainer (see Detail V, page 1)
- Tighten turnbuckle until relapse retainer is tensioned;
  The FA-frame is to be pulled into operating position for this:
  - with the aid of the auxiliary rope as described in assembly variant 1, assembly step 4
  - or by lifting the main boom; use a lifting platform to tension the relapse retainer
- After tightening the turnbuckle, secure it with a rotation lock
- Additional procedure: see page 1, assembly step 6 (move flap to 'up' position!)

 U(m)= F(m2)=

Werkstoff/Material/Matière

Fertiggewicht/Weight/Poids kg

Dokumentation
Distribution
Documentation

Bearbeitung/Finish/Usinage

Tolerierung / Tolerance / tolérance ISO 8015
Mech.Bearbeitung / machining / usinage mechanique ISO 2768-mk
Schweißkonstruktionen / welded structure / Constructions soudées ISO 13920 BF
Brennschneiden / thermal cutting / coupage thermique ISO 9013-442

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further specifications see parts master record
autres spécifications cf. nomenclature

Für die Herstellung der Liefergegenstände gelten die aktuellen Fertigungsunterlagen
For the delivery of all items the newest documents apply
Les documents de fabrication actuels s´appliguent á la réalisation de l´objet de livraison

Projektion E	Datum Date/Date	Name Name/Nom
gezeichnet/drawn/dessiné	2016/07/19	lwerem1
Modulverantwortlicher/Subdomain officer/responsible section		
Gruppenleiter/team leader/chef de groupe		
Abteilungsleiter/head/chef de section		

A0

LIEBHERR
LIEBHERR-WERK EHINGEN GMBH

Maßstab / Scale / Echelle: 1:50

Bezeichnung/Description/Dénomination:
ASSEMBLY DRAWING
F-JIBF3

Zeichnungs Nr./Drawing No./N°de dessin: 1666-720.00.00.019- 000

Ident Nr./Ident No./N°d´ident: 98029514

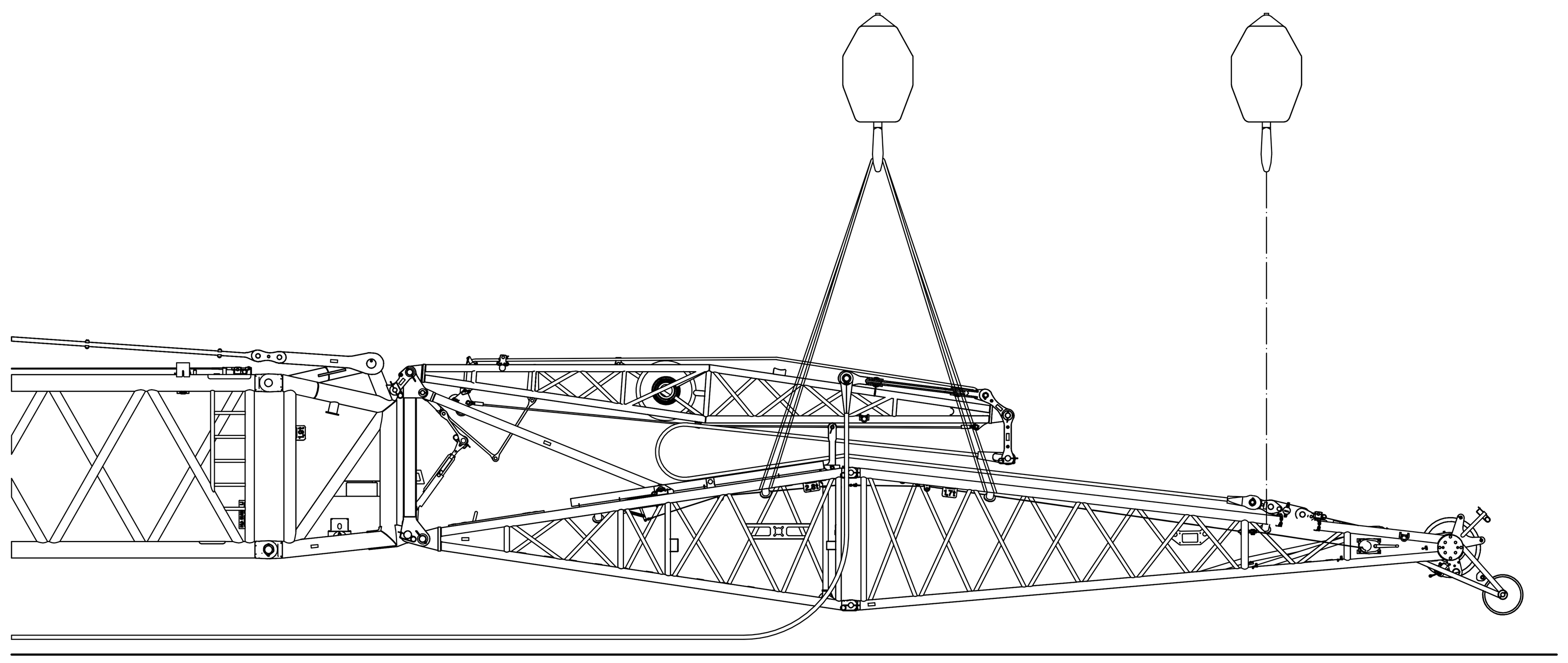
Flying assembly

If necessary, the F12-jib (F-pivot section with F-end section) can be assembled in flying mode, i.e., it can remain hanging freely after mounting on the F-connector head.
Pin A between the F-pivot section and F-relapse support must remain inserted (transport position) for this.

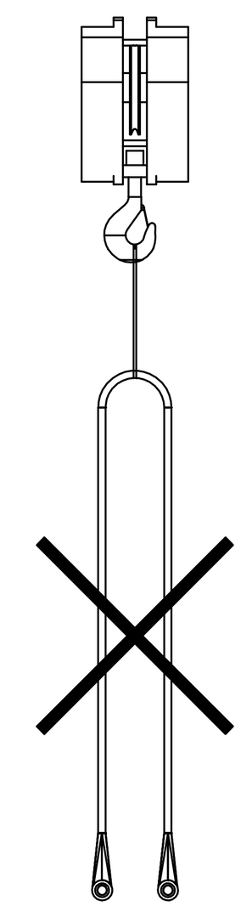
No hook block may be attached!

If the assembly variant 1 is used, pin A must remain inserted in the transport position (contrary to the description in assembly step 1, page 1) until the end of the F-assembly!
The pin may only be pulled after
- The FAB-guy ropes have been installed and pinned
- The FA-frame relapse retainer has been closed
- The F-guy ropes have been installed and pinned

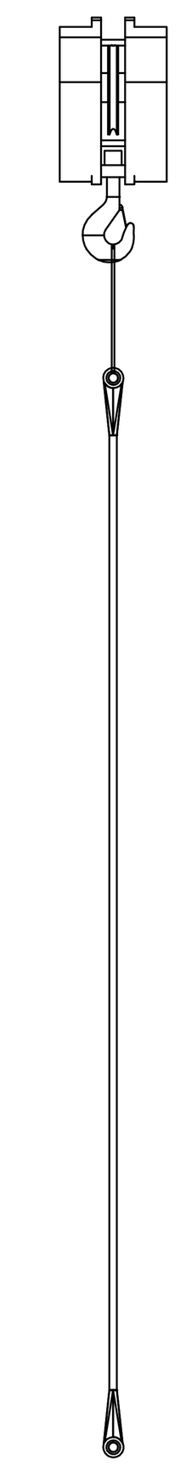
If assembly variant 2 is used, the attachment to the auxiliary crane must be changed (after the F-jib has been pinned to the F-connector head). The attachment then occurs to the lugs of the F-end section.



Attaching the fiber guy ropes



Wrong
Prohibited!



Correct

Notice:

During the disassembly of the fixed jib, it must be ensured that the ropes of the F-guying are not trapped during the lowering of the FA-frame!

 U(m)= F(m2)=

Werkstoff/Material/Matière	Fertiggewicht/Weight/Poids kg	Tolerierung Tolerance tolérance ISO 8015 Mech.Bearbeitung machining usinage mechanique ISO 2768-mk	Weitere Anforderungen siehe Teilestammsatz further specifications see parts master record autres spécifications cf. nomenclature
Dokumentation Distribution Documentation	Bearbeitung/Finish/Usinage	Schweißkonstruktionen welded structure Constructions soudées ISO 13920 BF Brennschneiden thermal cutting coupage thermique ISO 9013-442	Für die Herstellung der Liefergegenstände gelten die aktuellen Fertigungsunterlagen For the delivery of all items the newest documents apply Les documents de fabrication actuels s´appliguent á la réalisation de l´objet de livraison

Projektion E	Datum Date/Date	Name Name/Nom
gezeichnet/drawn/dessiné	2016/07/19	lwerem1
Modulverantwortlicher/Subdomain officer/responsible section		
Gruppenleiter/team leader/chef de groupe		
Abteilungsleiter/head/chef de section		

A0

LIEBHERR
LIEBHERR-WERK EHINGEN GMBH

Maßstab Scale Echelle	Bezeichnung/Description/Dénomination	Zeichnungs Nr./Drawing No./N°de dessin
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		Ident Nr./Ident No./N°d´ident 98029514