

Technische Daten der Anwendung:

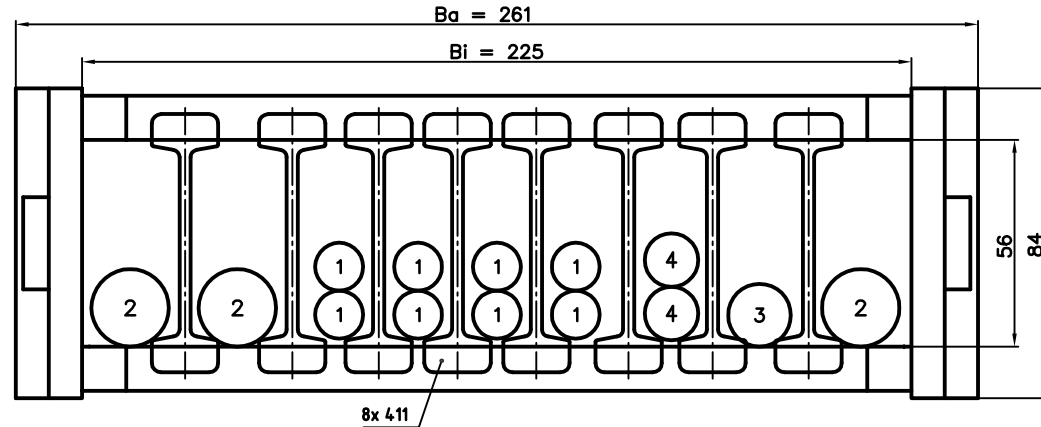
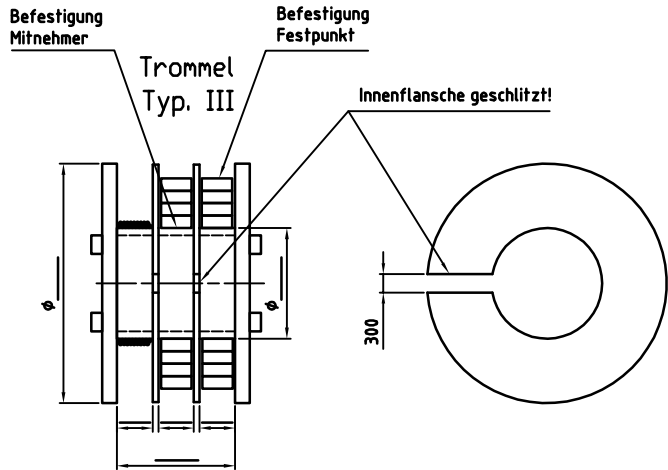
Art.-Nr. Kette:	4040CR.22.250.S10.0
Kettenlänge:	mm
Verfahrweg:	m
Teilung Standard Glieder :	91 mm
Teilung Adapter Glieder :	91 mm
Teilung Rollen Glieder:	182 mm
Anzahl Standard Glieder:	Stück
Anzahl Adapter Glieder:	Stück
Anzahl Rollen Glieder:	Stück
Geschwindigkeit:	3,5 m/s
Beschleunigung:	0,88 m/s ²
Verzögerung:	-- m/s ²

Einsatzbereich:	außen
Temperatur:	-- °C
Luftfeuchtigkeit:	-- %
Zusatzgewicht:	6,12 kg/m
Langer Verfahrweg	
Zeichnung Nummer:	

Die individuellen Einzellängen der Coils müssen während der Montage bei igus GmbH dokumentiert werden.

Alle Verbindungsstellen der Energiekette müssen mit wasserfesten Aufklebern eindeutig Beschriftet sein!

Pos.	Type Part no.	No. of cores and rated cross section (in mm ²)	Outer Diameter approx. mm	number	weight per cable	total weight	Symbol	over-length on stationary mounting bracket	over-length on moving mounting bracket	cable length complete
	Bezeichnung Art.Nr.	Aderzahl + Leiter-nennquerschnitt (in mm ²)	Äußerdurchmesser in mm ca.	Anzahl je Leitung	Gewicht je Leitung	Gewicht gesamt		Leitungsüberstand Festpunkt	Leitungsüberstand Mitnehmer	Leitungs-länge gesamt
1	CF 300.350.01	1x35	ø13	8	0,4 kg/m	3,2 kg/m	☉	15 m	15 m	97 m
2	CF9.25.16	16 x 2,5	ø21	3	0,6 kg/m	1,8 kg/m	☉	15 m	15 m	97 m
3	CF11.15.06.02	6x2x1,5	ø17	1	0,419 kg/m	0,419 kg/m	☉	15 m	15 m	97 m
4	CF LG.6G 62,5/125	6 Faser	ø14,5	2	0,35 kg/m	0,7 kg/m	☉	15,5 m	15,5 m	98 m
						cable/Kabel		6,119 kg/m		
						chain/Kette		4,88 kg/m		
						total weight/Gewicht ges.		10,999 kg/m		



Auftrommeln der Energiekette:

Energiekette befestigt auf der Trommel Befestigung an...
 der Festpunktseite
 der Mitnehmerseite

name/signature:
date:

Zugehörige Seiten:

- Blatt 1 - Innenaufteilung (deutsch)
- Blatt 2 - Innenaufteilung (englisch)
- Blatt 3 - Lange Weg Zeichnung
- Blatt 4 - Aufwickelanordnung

Trommel-Gew.:	~768 kg
Ketten-Gew.:	321 kg
Leitungs.-Gew.:	594 kg
Gesamt Gew.:	~1683 kg

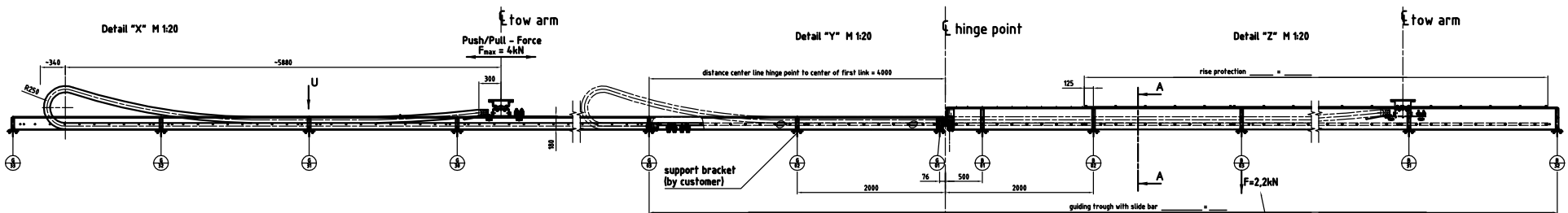
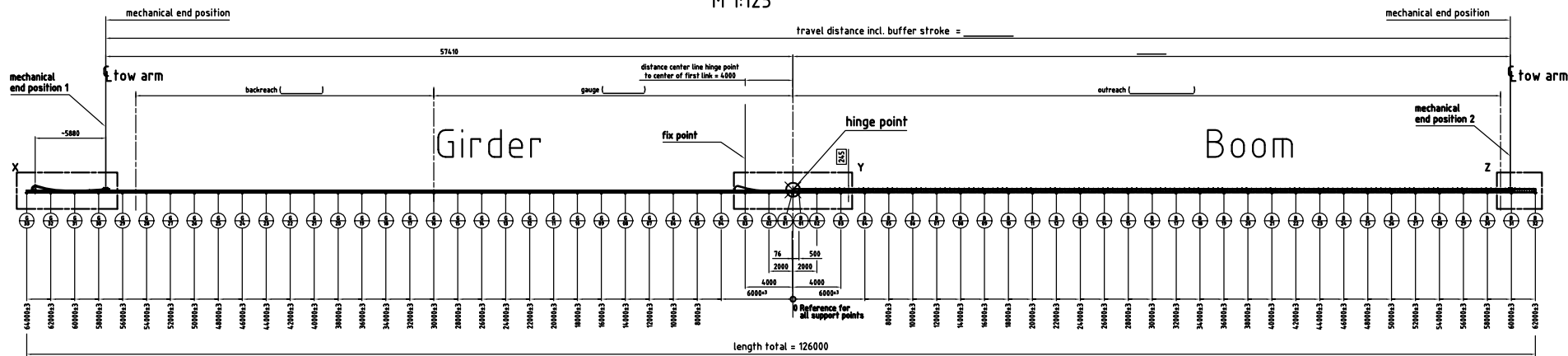
Freigabe Konfektionierung	
Abteilung	OK
Chainflex-Team	X
Engineering Services	X
Konfektionierung	X

Innenaufteilung jedes 2. Kettenglied ab 6. Kettenglied vom Festpunkt und Mitnehmer

Ansicht: vom Festpunkt aus in die Kette

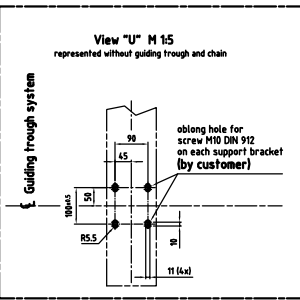
Schutzvermerk nach DIN 34 beachten	Stand: 27.01.2005	Maßstab: 1:1	Werkstoff:
		Z.Nr.: 22928.3	
Übereinstimmung der Kopie mit dem Original	Datum Name	Innenaufteilung mit Langen Verfahrweg Project:	
	Bearb. 27.01.2005 Hönkes		
	Gepr. 27.01.2005 T.Dietl		
	igus Spicher Straße 1a 51147 Köln		
	Art. Nr.: siehe Zeichnung		Blatt
Änderung	Datum Name	Urspr.	Ers. für
		Ers. durch	CAD Nr. 22928

M 1:125



The max. tolerance for horizontal and vertical straightness of the crane rail is ±10 mm over the full length of travel

Tolerance for guiding troughs	Tolerance for all support brackets:	Tolerances for tow arm:
support distance ± 1,0 mm	Distance between each support bracket ± 3mm	horizontal
horizontal straightness ± 5mm <small>relative to the middle axis of the crane rail used for the guiding trough over the full length of travel</small>	horizontal straightness ± 5mm <small>relative to the middle axis of the crane rail used for the guiding trough over the full length of travel</small>	±25 mm <small>(relative to guiding trough)</small>
vertical straightness ± 5 mm <small>relative to the middle axis of the crane rail used for the guiding trough over the full length of travel</small>	vertical straightness ± 5 mm <small>relative to the middle axis of the crane rail used for the guiding trough over the full length of travel</small>	vertical
		±5 mm <small>(relative to guiding trough)</small>



Trough Assembly

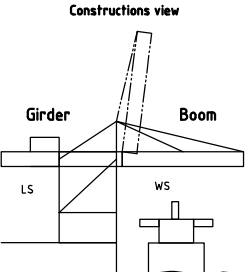
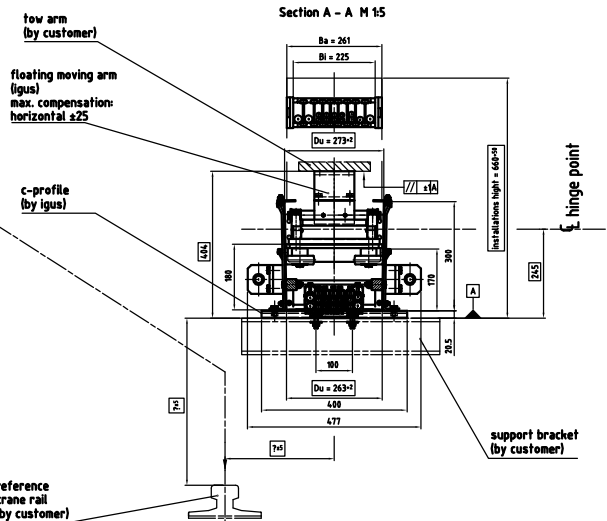
- The guiding trough must always be assembled outwards in both directions starting from the hinge point G/01 - B/01.
- Note: The guiding trough sections supplied by Iguis and the assembly kits require a distance of 2000±1mm between the supports.
- Important: Note that the guiding trough is funnel-shaped - see Section A - A. The internal width of the guiding trough has to be checked at the lowest point of the trough. In this area the internal width must be between 4 and 6mm larger than the external width of the energy chain.

The guiding trough has to be installed parallel to the guiding rail, both horizontally and vertically with a tolerance of ± 5 mm.

During operation over the full length of travel, the tolerance for any movement of the tow arm, relative to the guiding trough is ± 25 mm horizontally and ± 5 mm vertically.

After adjustment of the guiding trough position, the guiding trough must be fastened to the C-profile of the assembly kits, so that it can not move out of position as a result of operating conditions.

max. force = 2,2kN / support bracket



Place name and address of the draft authorisation

Date: _____
Signature: _____
Customer: _____

Attention!
All screws to be fastened with a torque spanner!

Technical data:

Ser.-no. Chain	444/CR.22.250.S/B
Travel stroke	— m
Chain lengths	— mm
pitch of links	91 mm
pitch of HC links	91 mm
pitch of adapter links	91 mm
pitch of roller links	92 mm
number of links	— piece
number of HC links	— piece
number of adapter links	— piece
number of roller links	— piece
Travel speed	3,5 m/s
acceleration	0,88 m/s ²
temperature	— °C
additional load	6,12 kg/m

Additional partlist .xls

Protection mark in accordance with DIN 34

Version: 27.01.2005

Scale: 1:125 (1:20/1:5)

Material: 22927.0

Guiding trough system

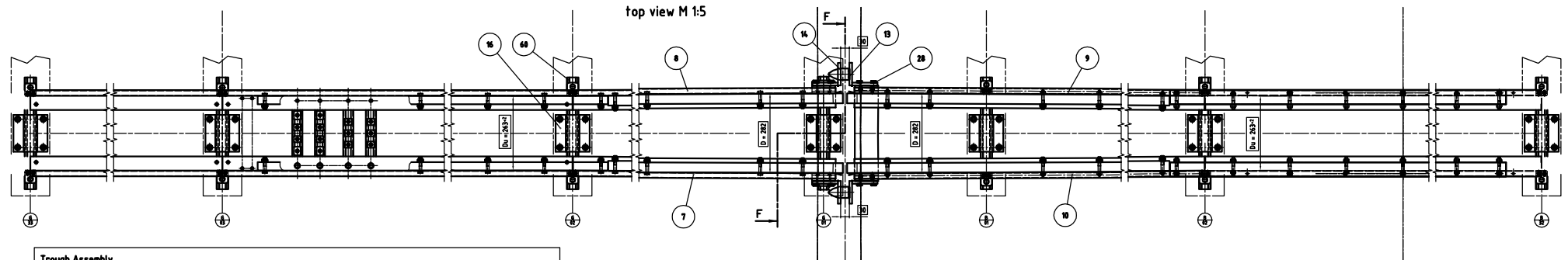
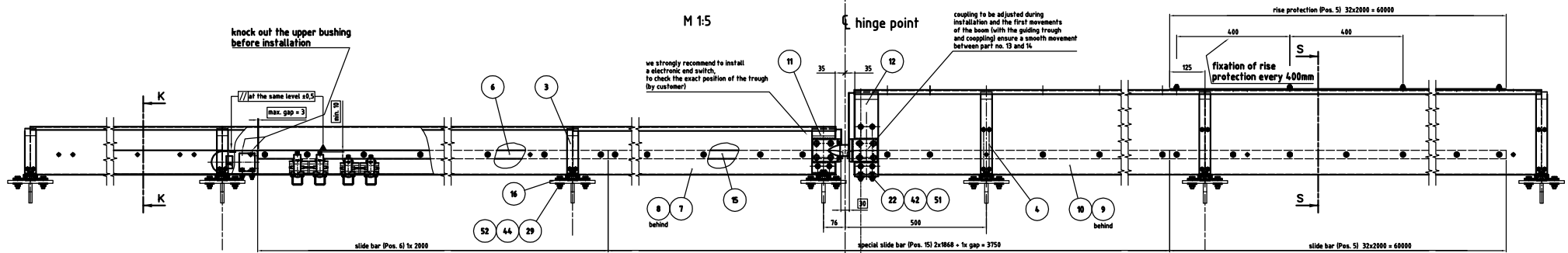
STS - crane

Project: _____

Sheet 1/4

Additional drawings:

interior shelving with long travel: _____
floating moving arm: _____
rest-nr: _____



Trough Assembly

- The guiding trough must always be assembled outwards in both directions starting from the hinge point G/01 - B/01.

Note: The guiding trough sections supplied by Ips and the assembly kits require a distance of 2000 ± 10 mm between the supports.

Important:

Note that the guiding trough is funnel-shaped I - see Section A - A.

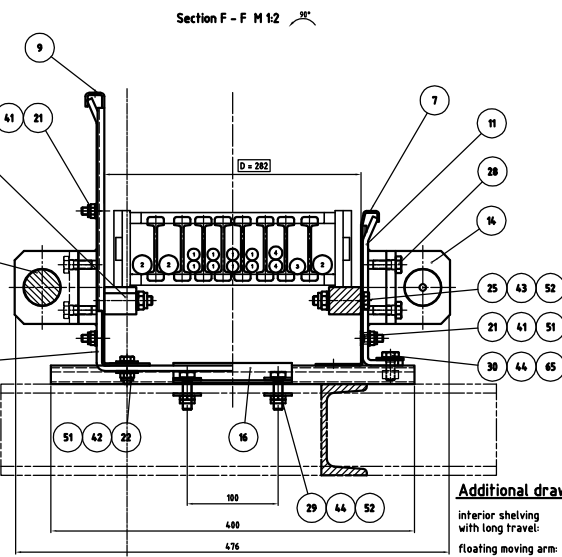
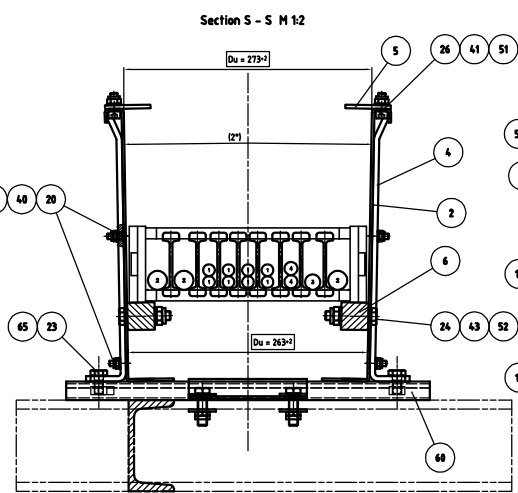
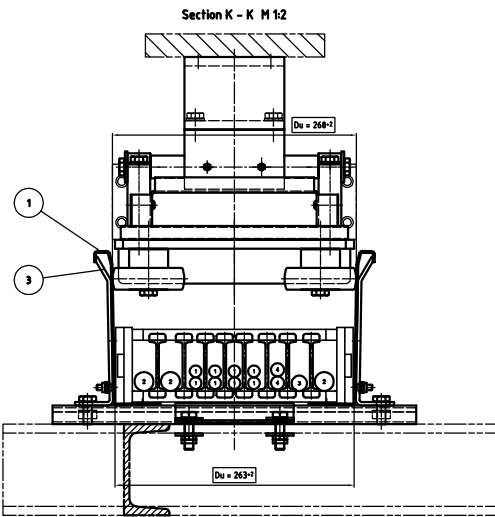
The internal width of the guiding trough has to be checked at the lowest point of the trough. In this area the internal width must be between C and ten larger than the external width of the energy chain.

--- The guiding trough has to be installed parallel to the guiding rail, both horizontally and vertically with a tolerance of ± 5 mm.

- During operation over the full length of travel, the tolerance for any movement of the tow arm, relative to the guiding trough is ± 25 mm horizontally and ± 5 mm vertically.

--- After adjustment of the guiding trough position, the guiding trough must be fastened to the C-profile of the assembly kits, so that it can not move out of position as a result of operating conditions.

The max. tolerance for horizontal and vertical straightness of the crane rail is ± 10 mm over the full length of travel		
Tolerance for guiding troughs	Tolerance for all support brackets:	
support distance $\pm 1,0$ mm	Distance between each support bracket: ± 3 mm	
horizontal straightness ± 5 mm	horizontal straightness ± 5 mm	
vertical straightness ± 5 mm	vertical straightness ± 5 mm	



Please confirm the drawing with signature!

draft authorization

date

signature

customer

Attention!

All screws to be fastened with a torque spanner!

Technical data:

Ser.-no. Chain:	4844CR.22.250.510.0
travel stroke:	— m
Chain length:	— mm
pitch of links:	91 mm
pitch of NC links:	91 mm
pitch of adapter links:	91 mm
pitch of roller links:	182 mm
number of links:	— piece
number of NC links:	— piece
number of adapter links:	— piece
number of roller links:	— piece
travel speed:	3,5 m/s
acceleration:	0,88 m/s ²
temperature:	— °C
additional load:	6,12 kg/m

Additional sheets:

sheet 1 - arrangement of energy chain and support

sheet 2 - installation details

sheet 3 - energy chain fixation

sheet 4 - strain relief

Additional drawings:

interior shelving with long travel: drw.-no. 22928.3..

floating moving arm: drw.-no. _____

item-no. _____

Additional partlist.xls

Protection mark in accordance with DIN 34

Agreement of the client with the supplier

Version: 27.01.2005

Scale: 1:5

Material: 22927.0

Guiding trough system

STS - crane

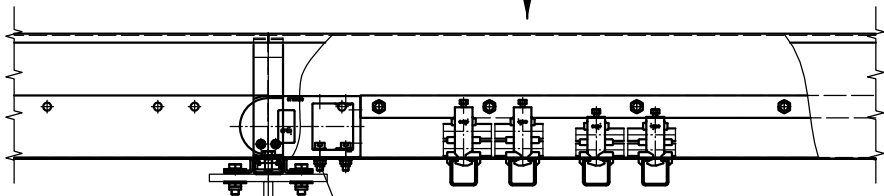
Project:

Sheet 2/4

fixation of strain relief and energy chain
and for the strain relief on fixed point

M 1:5

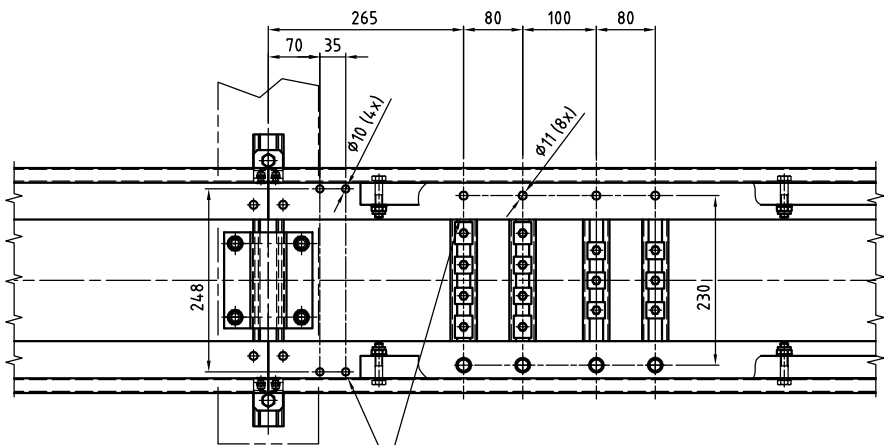
H



27 41 51

6
03

View "H" M 1:2



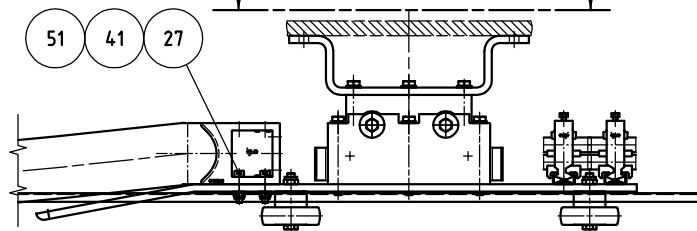
to be drilled during installation

connection of floating moving arm on tow arm

R

M 1:5

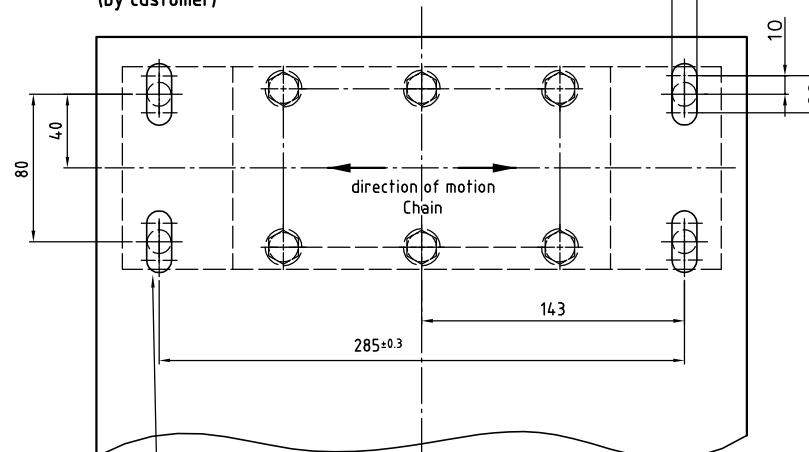
R



View R - R M 1:2

drill pattern tow arm
in combination with washer $\phi 13$ - DIN 9021
(by customer)

13.5 (4x)



oblong hole in tow arm
(by customer)

Attention!
All screws to be fastened
with a torque spanner!

Technical data:

Ser.-no. Chain:	4040CR.22.250.S10.0
travel stroke:	_____ m
Chain length:	_____ mm
pitch of links:	91 mm
pitch of NC links:	91 mm
pitch of adapter links:	91 mm
pitch of roller links:	182 mm
number of links:	_____ piece
number of NC links:	--
number of adapter links:	_____ piece
number of roller links:	_____ piece
travel speed:	3,5 m/s
acceleration:	0,88 m/s ²
temperature:	_____ °C
additional load:	6,12 kg/m

Please confirm the
drawing with signature!

draft authorization	
date	
signature	
customer	

Additional partlist _____ .xls

Additional sheets:

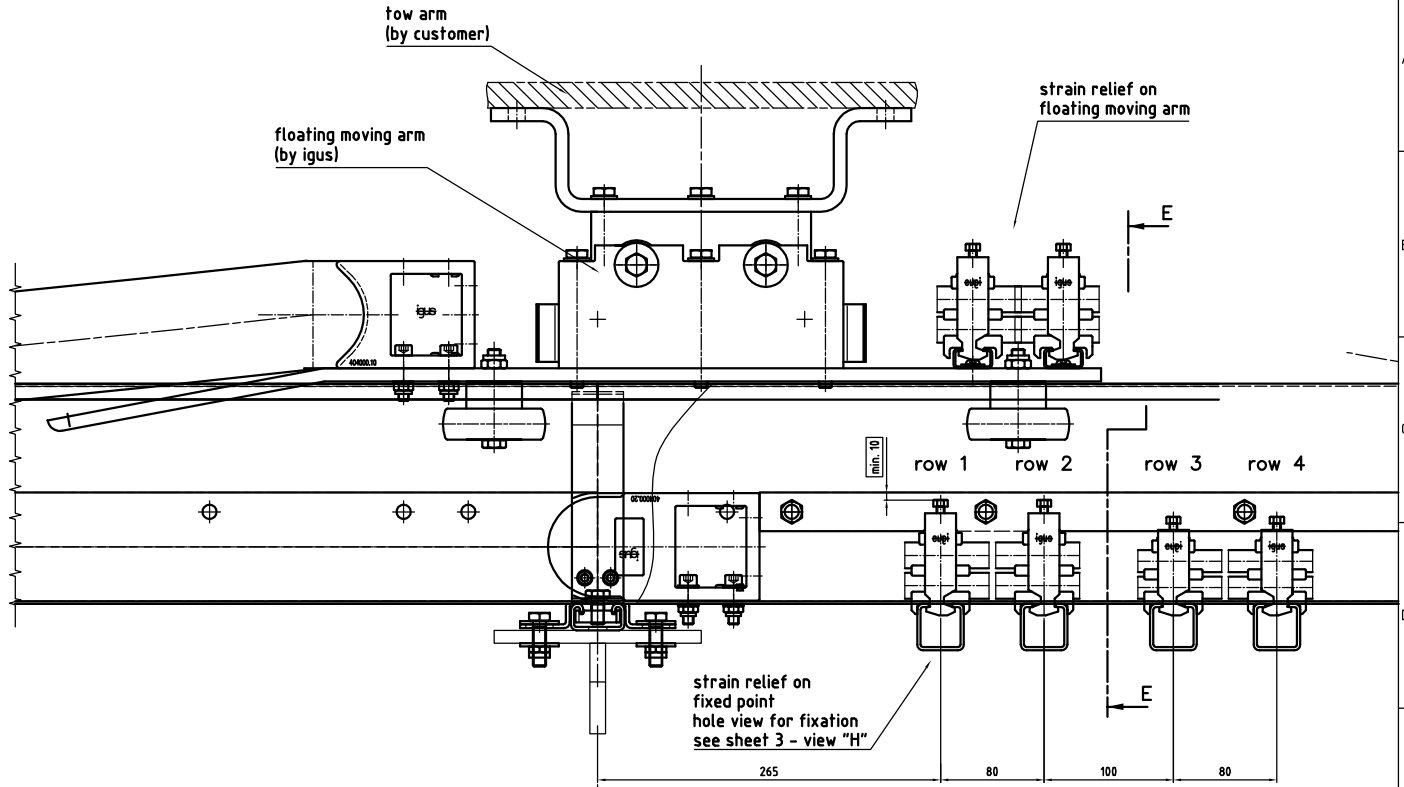
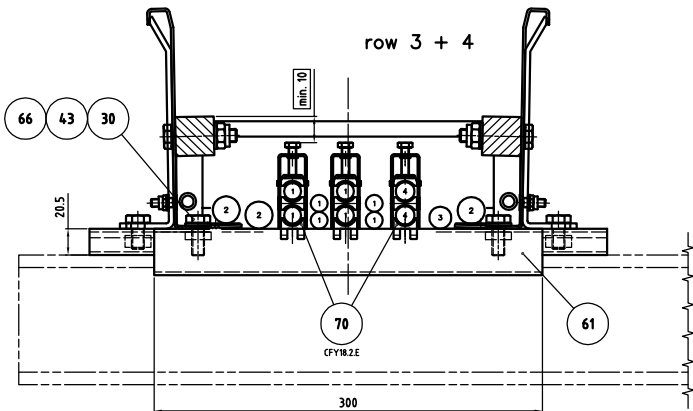
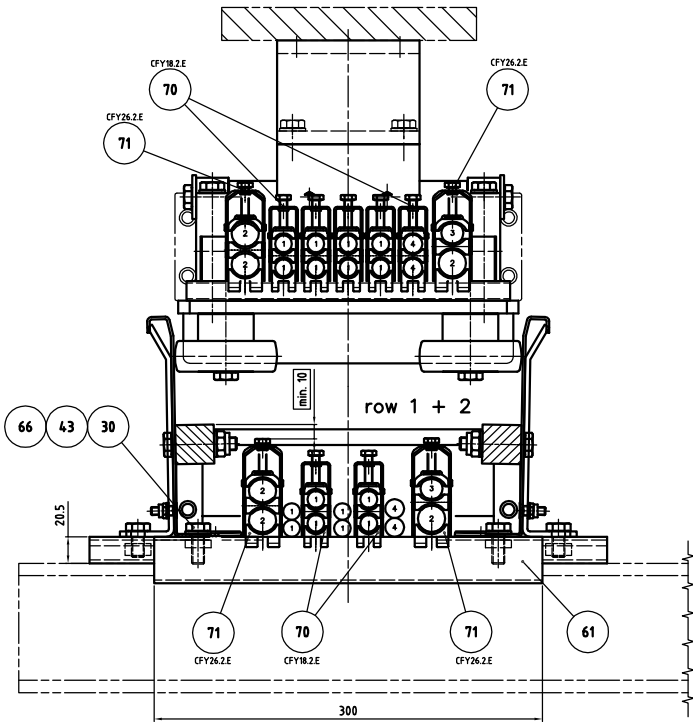
- sheet 1 - arrangement of energy chain and support
- sheet 2 - installation details
- sheet 3 - energy chain fixation
- sheet 4 - strain relief

Additional drawings:

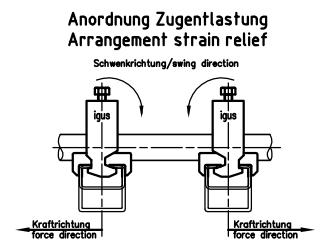
- interior shelving with long travel: drw.-no. 22928.3...
- floating moving arm: drw.-no. _____
item-no. _____

Protection mark in accordance with DIN 34	For ϕ the half tolerance of bore + shift is valid -	Allowed deviation for measure without tolerance declaration								
		rating	above to	0,5 6	6 30	30 120	120 315	315 1000	1000 2000	2000 4000
Agreement of the copy with the original		Version: 27.01.2005		Scale: 1:5 / 1:2		Material:				
		Date: 27.01.2005 Name: Mönikes		Drawing no.: 22927.2		Guiding trough system				
		Decided by: 27.01.2005 Name: T.Diehl		Project:		STS- crane				
		igus Spicher Straße 1a 51147 Köln		Sheet 3/4		BL				
Index	Amendment	Date	Name	Origin	Drawn up for	Drawn up by	CAD no. 22927 AZ			

Section E - E M 1:2



Strain relief assembly
Important note:
 A spare cable loop (2% of cable length, max. 1000mm) is required at both ends of the Energy Chain, after strain relief installation. Cables must be strain relieved at both ends of the Energy Chain. For double strain relief, please note:
 1. Use clamps to fasten cables at moving end, see section E - E. Clamps must be installed "opposed" (see Arrangement strain relief).
 2. Position Energy Chain carefully in the mechanical end position, so that the upper run is as long as possible
 3. Use clamps to fasten cables at stationary end
Important note: In the position described above, cables must not touch the cross bars on the inner radius and must be able to move freely (sideways and lengthwise).



Attention!
 All screws to be fastened with a torque spanner!

Please confirm the drawing with signature!

draft authorization

date
signature
customer

Technical data:

Ser.-no. Chain:	4040CR.22.250.S10.0
travel stroke:	— m
Chain length:	— mm
pitch of links:	91 mm
pitch of NC links:	91 mm
pitch of adapter links:	91 mm
pitch of roller links:	182 mm
number of links:	— piece
number of NC links:	—
number of adapter links:	— piece
number of roller links:	— piece
travel speed:	3,5 m/s
acceleration:	0,88 m/s ²
temperature:	— °C
additional load:	6,12 kg/m

Additional sheets:
 sheet 1 - arrangement of energy chain and support
 sheet 2 - installation details
 sheet 3 - energy chain fixation
 sheet 4 - strain relief

Additional drawings:
 interior shelving with long travel: drw.-no. 22928.3...
 floating moving arm: drw.-no. _____
 item-no. _____

Additional partlist .xlt

Protection mark in accordance with DIN 34	For # of the half tolerance of bore + shift to max.	Allowed deviation for measure without tolerance declaration										
	rating	above	0,5	6	30	120	315	1000	2000	4000	10000	20000
Agreement of the copy with the original	Date	Name	Version: 27.01.2005									
	Date	Name	Scale: 1:2									
	Date	Name	Material: 22927.1									
	Date	Name	Guiding trough system									
	Date	Name	STS- crane									
	Date	Name	Project:									
	Date	Name	Sheet 4/4									
	Date	Name	CAD no. 22927									