

USER MANUAL

FOLDING ALUMINIUM GANTRY CRANES MOVABLE UNDER LOAD



SUMMARY

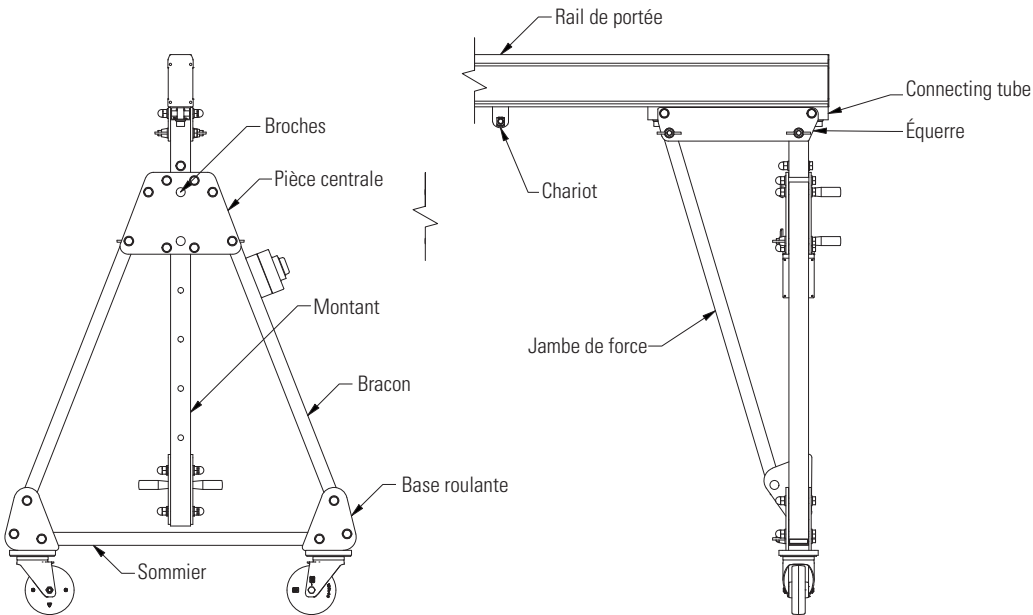
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1. INTRODUCTION

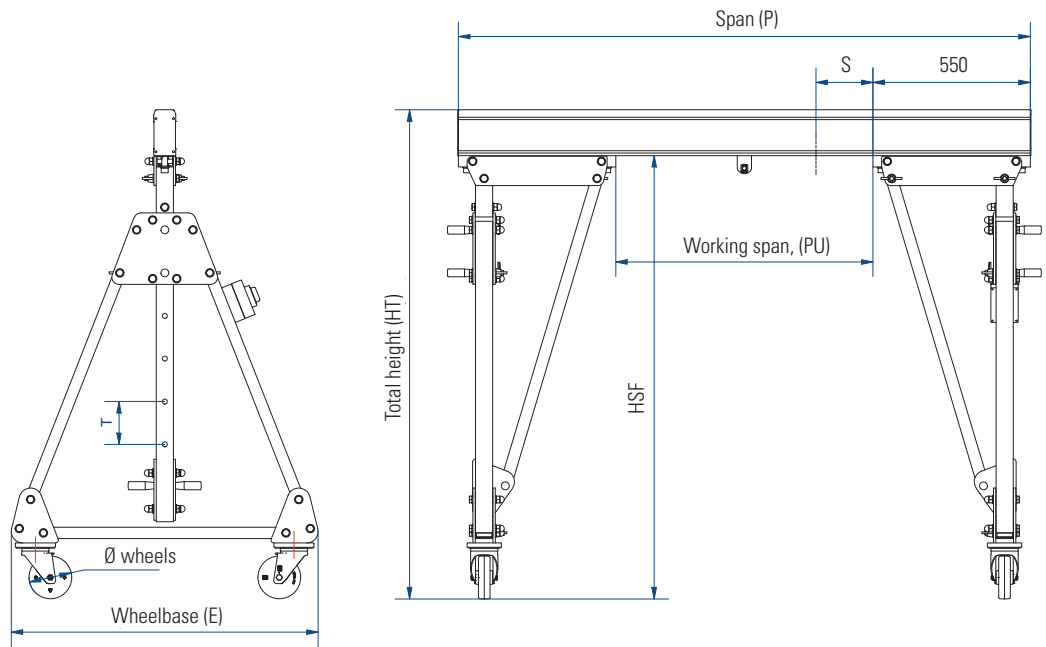
Before use, carefully read and follow the instructions in the user guide.
Always keep the user guide near the equipment, available to the operator and the person in charge of maintenance
This note contains information important for a safe, economic and effective use of the gantry crane.
The product and its technical characteristics are described there, the procedures of assembly of the material are enumerated and the good gestures of use are listed.

Technical specifications:

Présentation



2. SPAN AND HEIGHT



Range / Dimensions	HSF mini (mm)	HSF maxi	T (mm)	ER (mm)
H0	1550	2150	150	1100
H1	2150	3200	150	1520
H2	3000	4000	200	2050

TABLE		
Span P (m)	Effective span Pu (m)	S (mm)
2	0.9	0
2.5	1.4	500
3	1.9	1000
3.5	2.4	1000
4	2.9	1000
4.5	3.4	1000
5	3.9	1000
5.5	4.4	1000
6	4.9	1000

3. SAFETY INSTRUCTIONS



***To ensure proper use of the product,
it should observe the following***

Assembly/Disassembly

- At each gantry assembly, ensure the rigidity of the structure and the tightening of fixing points of the unit.
- Carefully follow the instructions mentioned in 7.

Use

- Before use, inspect the structure of the gantry and lifting components.
- The material cannot be the subject of any other use than the gantry.
- The use of the article should be stopped without delay if a fault is detected.
- Never lift a load exceeding the maximum operating load indicated on the equipment. (Caution! Shock or accidental catching of the load being handled with environment can generate overloads.)
- No parking or circulate under the gantry or under the suspended load.
- Never let anybody unqualified use the equipment.
- The load cannot be lifted only after being properly controlled and secured.
- Never leave a load hanging.
- Never swing the load intentionnaly
- Do not throw the device or its components, avoid damaging the equipment.
- Never use the equipment to pull away, un-jam or pull sideways.
- Do not adjust the scope or the height of the gantry if the load is still hanging.
- Never use the equipment to transport people.
- Never use equipment that is in poor condition (wear, deformation...).
- Do not cause abrupt movement on the equipment.

Operating environment

Designed to operate in harsh environments with temperatures ranging from -10 to +50 ° C, the gantry FramAlu can be used in marine environment and water treatment plant. For use in particularly difficult context imperatively ask your dealer for advice.

In case of projections of acidic material, it is advisable to wash the equipment and dry with a cloth.

Maintenance

- Replace any suspicious or worn parts.
- Repairs to the gantry must be performed by a qualified technician.
- Set out an inspection program and record all the maintenance work carried out on the equipment.
- The conditions for inspection and maintenance of the gantry must be met to ensure proper operation.
- Never modify the equipment without suitable study and the authorizaton of the manufacturer.
- Use only equipment approved for lifting. Use of any unauthorized accessories may be dangerous.

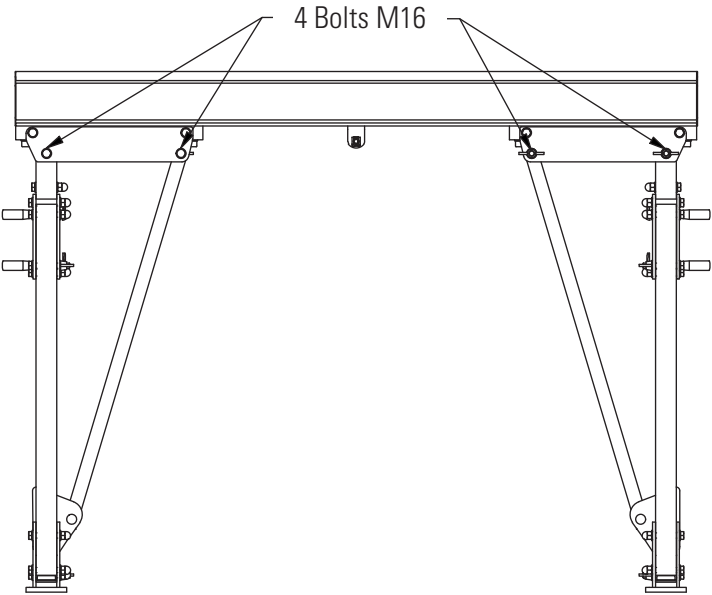
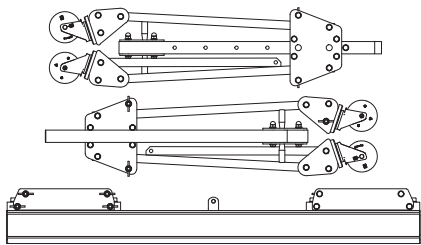
4. STARTING

The following instructions are essential for the proper functioning of the device. Failure to follow these instructions may present a danger to the gantry and its user.

Folding/Unfolding

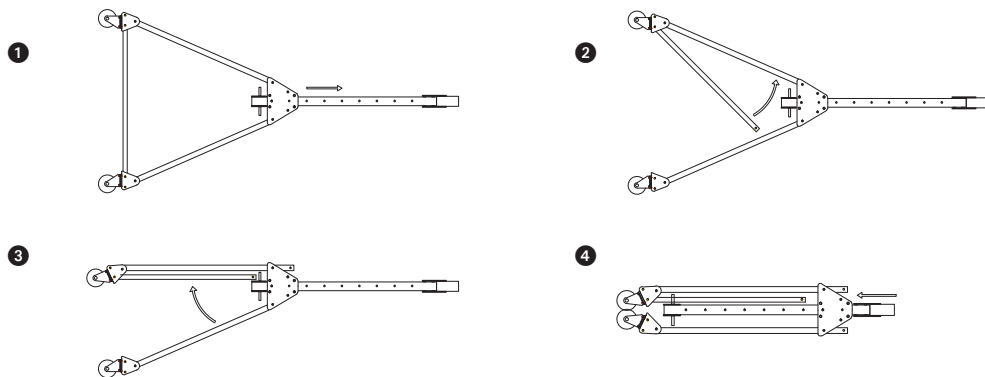
The gantries of HT1 range are foldable for easy storage and their transport. Disassembled and folded the gantries come in three sets: two legs and the beam.

Folding



Folding of feet

Flip the end carriage and the braces inwards



Unfolding

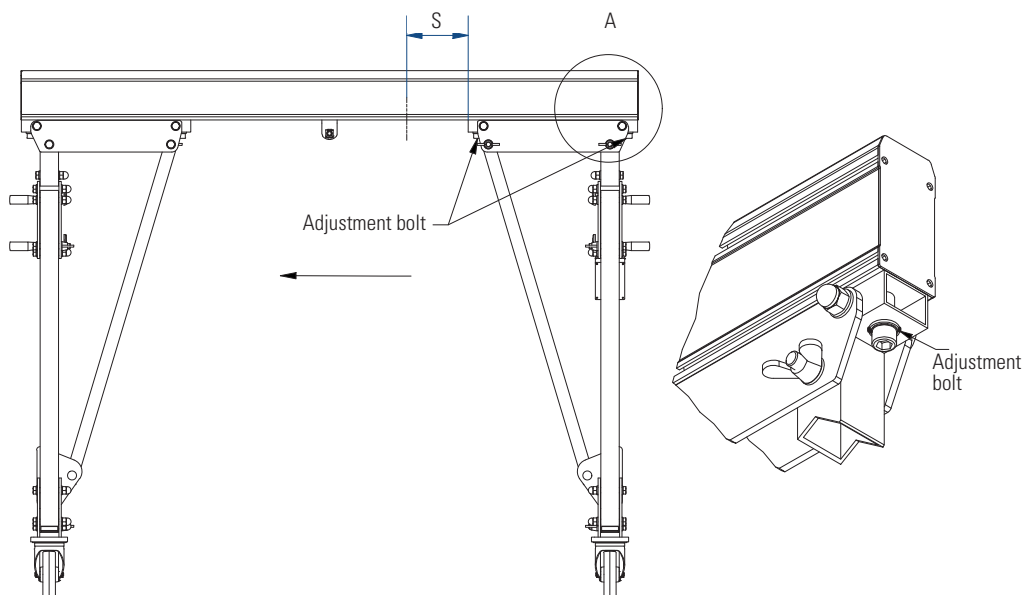
Proceed in reverse order.

- To facilitate assembly, be sure to bolt the braces before the end carriage through the three M16 bolts (2).
- Tighten the eight top bolts (1) until the rail girder is compressed between the brackets and upper plates

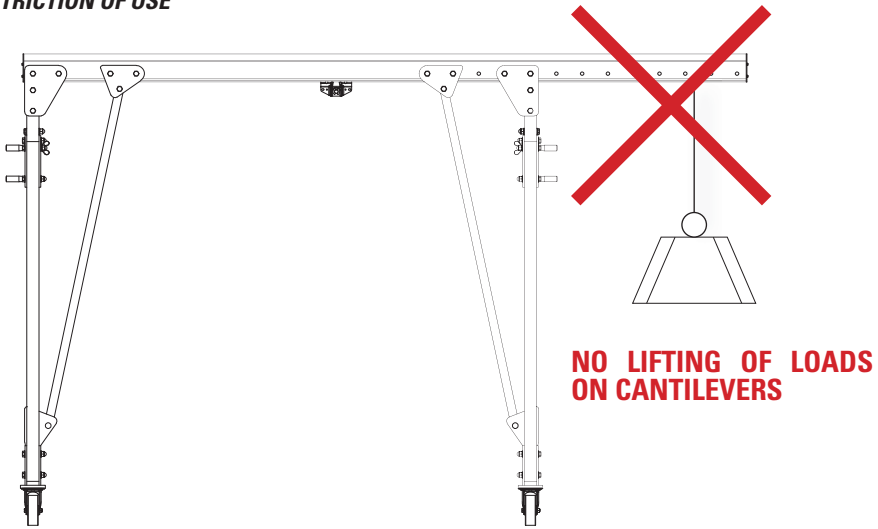
Adjustment of the span

The connecting tubes between the brackets and the beam have two bolts. These allow a leg to be moved along the axis of the rail and thus reduce the effective span of the gantry. To do this, simply loosen the two bolts, move the relevant gantry leg and re-bolt the bolts, tightening them sufficiently to compress the span rail.

Please note that the maximum adjustment range (S) must be observed



RESTRICTION OF USE

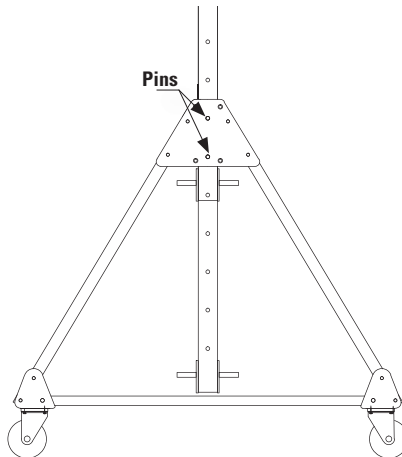


In the event of a short reach, the use of the cantilevered area for lifting is strictly PROHIBITED.

Adjustment of the height

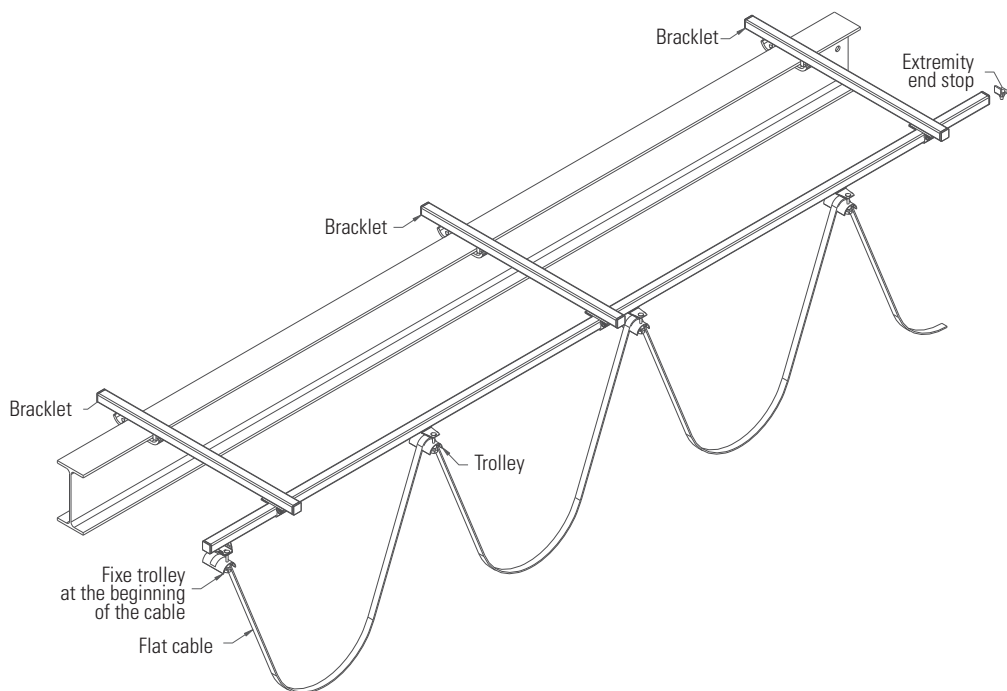
The post slide between central parts and is blocked by two pins.
The handles at the base of the post used for making adjustment.

- Remove the two pins
- Adjust the height of the post due to the handles.
- Lock adjustment by putting the pins.
- Block pins with their respective pin clips.



Do not throw the equipment or stack material on the folded gantry.

5. FEEDING LINE



1. Set the 1st bracket according to the position X of the attached drawing.
2. Put the next brackets with a maximum distance of 2m between them.
3. When the brackets are locked, engage the rail of the line in each bracket and fix it.
4. Insert first the fix trolley at the beginning of the line then the mobile trolley and finally the end stop.
5. Put the flat cable through the trolleys distributing them equally along the rail. Let 1m of cable at the end of the rail to plug in the hoist.

6. REGULATORY REQUIREMENTS FOR USERS OF LIFT- ING EQUIPMENT OR LIFTING EQUIPMENT SUPPORTS

Designation of equipment: Moveable Under Load Aluminium Gantry
Utilisation: Lifting of loads
Category: Lifting equipment support
Functional assembly / disassembly: YES

The constructor shall design and market equipment compliant with technical regulations and shall provide the user with technical documentation and the CE Declaration of Conformity, drafted by the constructor.

The user shall install and use the equipment, and shall maintain it in a compliant condition. The user shall therefore meet the equipment commissioning and regular inspection requirements detailed in the directive of 1st March 2004.

The movement of lifting equipment does not require a supplementary acceptance test.

The assembly/disassembly of Moveable Under Load Aluminium Gantries does not require a new test after every assembly. Regular acceptances should be conducted as shown in the tables below.

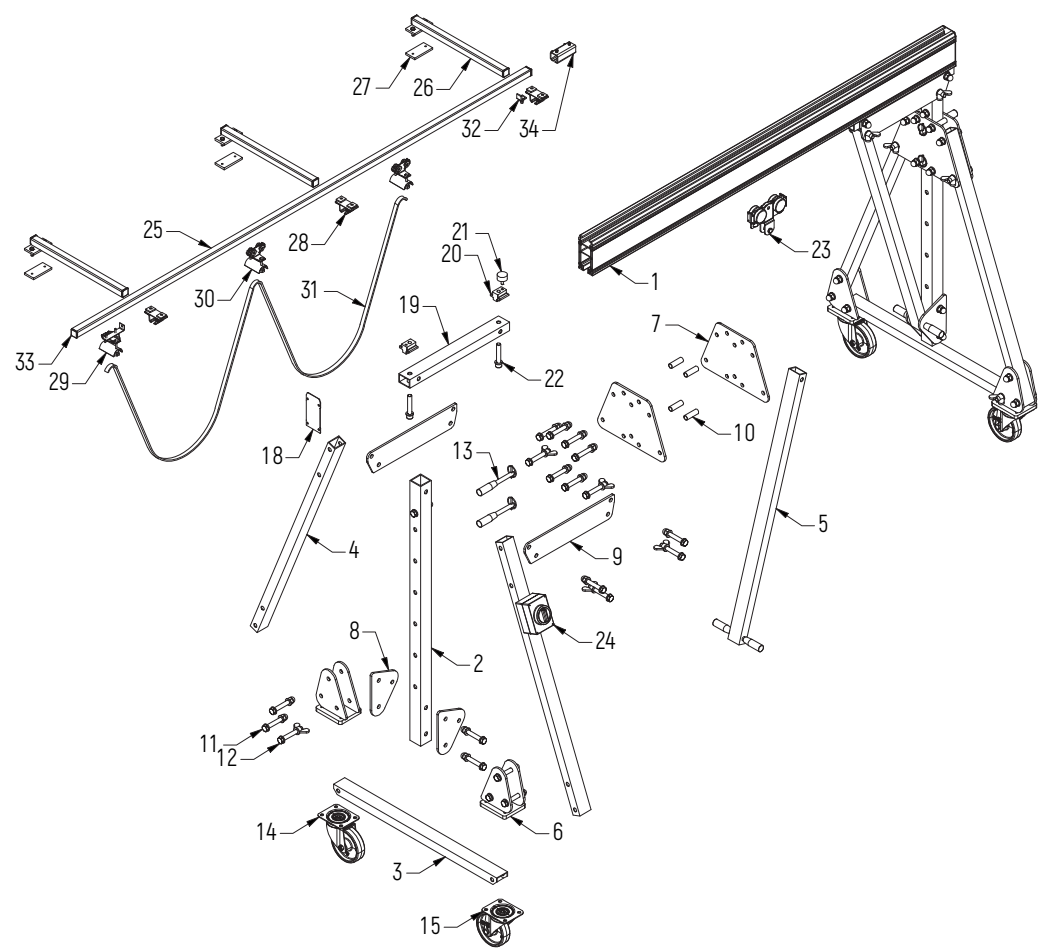
Moveable equipment SUBJECT to disassembly/assembly	Lifting equipment power source		Static Test*	Dynamic Test*	Compati- bility examination	Regular general inspection
	Manual	Other				
Initial commissioning	+		150%	110 %	YES	
Initial commissioning		+	125 %	110 %	YES	
Regular inspection						6 months

* Test coefficients are determined by the lifting equipment power source.

Moveable equipment NOT SUBJECT to disassembly/assembly	Lifting equipment power source		Static Test*	Dynamic Test*	Compati- bility examination	Regular general inspection
	Manual	Other				
Initial commissioning	+		150%	110 %	YES	
Initial commissioning		+	125 %	110 %	YES	
Regular inspection						12 months

* Test coefficients are determined by the lifting equipment power source.

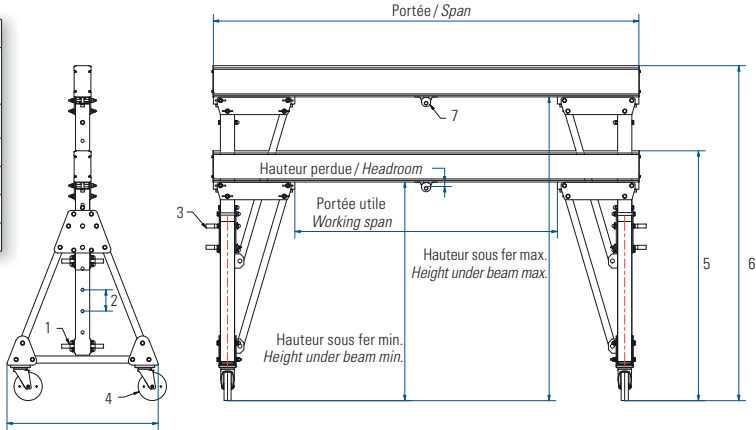
7. SPARE PARTS



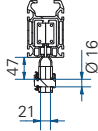
N°	Designation
1	Aluminium alloy strip
2	Column
3	Head beam
4	Upright
5	Diagonal strut
6	Wheel plate (welded subassembly)
7	Central piece
8	Multi-function piece
9	Angle bracket
10	Spacer tube
11	Structure fasteners
12	Beam fasteners
13	Locking shaft + pin
14	Wheel in white polyamide
15	Wheel in white polyamide with parking brake
16	Wheel with polyurethane tread
17	Wheel with polyurethane tread and parking brake
18	Closing plate
19	Connecting tube
20	Inner clam
21	Rubber stopper
22	Connecting screws
23	Trolley for hoist carrier
24	Switch inside case
25	Line rail
26	Cross-stay
27	Mounting strip drilled and tapped
28	Suspension gripper
29	Fixed cable carriage
30	Moving cable carriage
31	Cable
32	End stop
33	Plastic plug
34	Joiner fish-plate

8. CARACTÉRISTICS

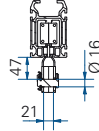
1	Poignée de manœuvre	Operating handle
2	Pas de réglage H0 et H1 = 150 Pas de réglage H2 = 200	Pitch H0 & H1 = 150 Pitch H2 = 200
3	Axe de blocage de hauteur	Locking pin height
4	Diamètre	Diameter
5	Hauteur totale mini	Overall Height min
6	Hauteur totale maxi	Overall Height maxi
7	Chariot porte palan	Hoist trolley



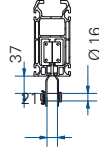
N° C12 B



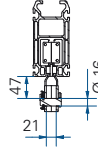
N° C12 B



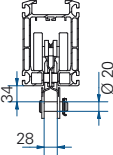
N° C16 A



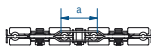
N° C16 B



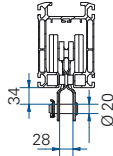
N° C18 A



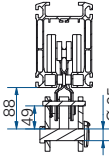
C12B/C16B/C18C/C22C



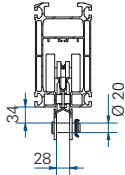
N° C18 B



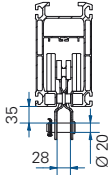
N° C18 C



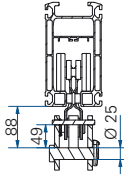
N° C22 A



N° C22 B



N° C22 C



CMU	Portée	Portée utile	Hauteur Sous Fer mini	Hauteur Sous Fer maxi	Hauteur totale mini	Hauteur totale maxi	E	Ø roues	Chariot	Poids H0	Poids H1	Poids H2
Max. capacity	Span	Working span	Height under beam mini	Height under beam maxi	Overall Height mini	Overall Height maxi		mm	Trolley	Weight H0	Weight H1	Weight H2
Kg	m	mm	mm	mm	mm	mm	mm	mm	N°	Kg	Kg	Kg
250 (50)	2	900	1550 (H0)	2150 (H0)	HSF mini + 120 mm	HSF maxi + 120 mm	1100 (H0)	150	C12A	77	87	101
	2,5	1400			HSF mini + 120 mm	HSF maxi + 120 mm		150	C12A	80	90	104
	3	1900			HSF mini + 120 mm	HSF maxi + 120 mm		150	C12A	83	93	107
	3,5	2400			HSF mini + 120 mm	HSF maxi + 120 mm		150	C12A	86	96	110
	4	2900	2150 (H1)	3200 (H1)	HSF mini + 120 mm	HSF maxi + 120 mm	1520 (H1)	150	C12A	88	98	112
	4,5	3400			HSF mini + 160mm	HSF maxi + 160 mm		150	C16A	98	108	122
	5	3900	3000 (H2)	4000 (H2)	HSF mini + 160mm	HSF maxi + 160 mm	2050 (H2)	150	C16A	102	112	126
	5,5	4400			HSF mini + 160mm	HSF maxi + 160 mm		150	C16A	105	115	129
500 (50)	2	900	1550 (H0)	2150 (H0)	HSF mini + 120 mm	HSF maxi + 120 mm	1100 (H0)	150	C12B	85	97	113
	2,5	1400			HSF mini + 120 mm	HSF maxi + 120 mm		150	C12B	88	100	116
	3	1900			HSF mini + 160 mm	HSF maxi + 160 mm		150	C16B	96	108	124
	3,5	2400			HSF mini + 160 mm	HSF maxi + 160 mm		150	C16B	99	111	127
	4	2900	2150 (H1)	3200 (H1)	HSF mini + 160 mm	HSF maxi + 160 mm	1520 (H1)	150	C16B	103	115	131
	4,5	3400			HSF mini + 160 mm	HSF maxi + 160 mm		150	C16B	106	118	134
	5	3900	3000 (H2)	4000 (H2)	HSF mini + 180 mm	HSF maxi + 180 mm	2050 (H2)	150	C18A	126	138	154
	5,5	4400			HSF mini + 180 mm	HSF maxi + 180 mm		150	C18A	131	143	159
1 000 (100)	2	900	1550 (H0)	2150 (H0)	HSF mini + 180 mm	HSF maxi + 180 mm	1100 (H0)	200	C18B	99	119	127
	2,5	1400			HSF mini + 180 mm	HSF maxi + 180 mm		200	C18B	104	124	132
	3	1900			HSF mini + 180 mm	HSF maxi + 180 mm		200	C18B	109	129	137
	3,5	2400			HSF mini + 180 mm	HSF maxi + 180 mm		200	C18B	115	135	143
	4	2900	2150 (H1)	3200 (H1)	HSF mini + 180 mm	HSF maxi + 180 mm	1520 (H1)	200	C18B	120	140	148
	4,5	3400			HSF mini + 220 mm	HSF maxi + 220 mm		200	C22B	132	152	160
	5	3900	3000 (H2)	4000 (H2)	HSF mini + 220 mm	HSF maxi + 220 mm	2050 (H2)	200	C22B	138	158	166
	5,5	4400			HSF mini + 220 mm	HSF maxi + 220 mm		200	C22B	144	164	172
1 600 (150)	2	900	1550 (H0)	2150 (H0)	HSF mini + 300 mm	HSF maxi + 300 mm	1100 (H0)	200	C22B	181	201	209
	2,5	1400			HSF mini + 180 mm	HSF maxi + 180 mm		200	C18C	125	149	171
	3	1900			HSF mini + 180 mm	HSF maxi + 180 mm		200	C18C	130	154	176
	3,5	2400			HSF mini + 220 mm	HSF maxi + 220 mm		200	C18C	135	159	181
	4	2900	2150 (H1)	3200 (H1)	HSF mini + 220 mm	HSF maxi + 220 mm	1520 (H1)	200	C22C	146	170	192
	4,5	3400			HSF mini + 220 mm	HSF maxi + 220 mm		200	C22C	152	176	198
	5	3900	3000 (H2)	4000 (H2)	HSF mini + 300 mm	HSF maxi + 300 mm	2050 (H2)	200	C22C	181	205	227
	5,5	4400			HSF mini + 300 mm	HSF maxi + 300 mm		200	C22C	190	214	236
2 000 (200)	2	900	1550 (H0)	2150 (H0)	HSF mini + 180 mm	HSF maxi + 180 mm	1100 (H0)	200	C18C	125	149	171
	2,5	1400			HSF mini + 180 mm	HSF maxi + 180 mm		200	C18C	130	154	176
	3	1900			HSF mini + 220 mm	HSF maxi + 220 mm		200	C22C	140	164	186
	3,5	2400			HSF mini + 220 mm	HSF maxi + 220 mm		200	C22C	146	170	192
	4	2900	3000 (H2)	4000 (H2)	HSF mini + 300 mm	HSF maxi + 300 mm	2050 (H2)	200	C22C	173	197	219
					HSF mini + 300 mm	HSF maxi + 300 mm						

CMU	HSF	Poutre	A	B	C	Largeur Poutre
Max. capacity		Beam				Width beam
KG		mm	mm	mm	mm	mm
250	H0	120	1680	410	220	77
	H1	120	2320	410	220	77
	H2	120	3250	555	220	77
	H0	160	1680	410	220	77
	H1	160	2320	410	220	77
	H2	160	3250	555	220	77
500	H0	120	1680	430	230	77
	H1	120	2325	385	225	77
	H2	120	3250	560	230	77
	H0	160	1680	430	230	77
	H1	160	2325	385	225	77
	H2	160	3250	545	230	77
1000	H0	180	1660	540	230	120
	H1	180	2325	390	225	120
	H2	180	3250	560	230	120
	H0	220	1660	480	230	120
	H1	220	2325	495	230	120
	H2	220	3250	560	230	120

CMU	HSF	Poutre	A	B	C	Largeur Poutre
Max. capacity		Beam				Width beam
KG		mm	mm	mm	mm	mm
1000	H2	220	3245	595	230	120
	H0	300	1740	480	230	120
	H1	300	2405	495	230	120
	H2	300	3325	595	230	120
	H0	180	1690	585	250	120
	H1	180	2435	570	250	120
1600	H2	180	3245	730	250	120
	H0	220	1690	580	250	120
	H1	220	2330	610	250	120
	H2	220	3245	690	250	120
	H0	300	1770	580	250	120
	H1	300	2410	610	250	120
2000	H2	300	3325	690	250	120
	H0	180	1690	585	250	120
	H1	180	2330	590	250	120
	H2	220	3245	700	250	120
	H0	300	1770	580	250	120
	H1	300	2410	610	250	120
2000	H2	300	3325	690	250	120
	H2	300	3325	690	250	120

Pied en position replié
Foot in the folded position

