

ASB/LSB - ALUMINIUM GANTRY CRANE

INSTRUCTION MANUAL

Reference number:

ASB/LSBxxx-yy-zz series

READ CAREFULLY BEFORE USE THE EQUIPMENT

SECTION 1 - GENERAL DATA

DESCRIPTION

Aluminium gantry crane (ASB/LSB series) is a complete, lightweight, fully customizable (modular design), portable and flexible device designed to be used in variety of lifting applications such as, drainage wells, reservoirs, wells, silos, rooftop, lift-shaft, waste water and many more. For faster device installation additional tools are not needed (device installation - Section 2).

Beam: from 2 to 7 meters.

ASB Combined Beams: 8 and 9 meters. Support for ASB: types - A1 / B1 / C1 / C2. Supports for LSB: types - E1 / F1 / G1 / G2.

ASB Working Load Limit (WLL): from 1500kg up to 3500kg (depends on configuration - please see ASB Technical Data Table). LSB Working Load Limit (WLL): from 500kg up to 2000kg (depends on configuration - please see LSB Technical Data Table). Safety factor for lifting loads: 2.1:1.

Safety factor for personal rescue: 10:1.

ASB - Protection for maximum five people at the same time. ASB Combined Beam - max two people at the same time.

LSB - Protection for maximum three people at the same time.

DEVICE USE SCENARIOS

1. Lifting loads only

ASB/LSB can be used for lifting/lowering loads up to the related Working Load Limit (WLL - which is always indicated on the beam) with chain hoists, RUP50x-CT/DT series devices and other lifting equipment. For lifting loads external trolley must be used.

Lifting loads - Section 3.

2. Personal protection and lifting loads

ASB/LSB device can be used for personal protection (for ASB max. 5 people at the same time and for LSB max. 3 people at the same time) during lifting/rowering loads. When Combined ASB Beams are used - max. 2 people at the same time. During both operations at the same time (personal protection and lifting/lowering loads) WLL of the device indicated on the beam must be reduced - pleasured to be used.

Personal protection - Section 4. Lifting loads and personal protection at the same time - Section 5.

3. Rescue and personal protection only.

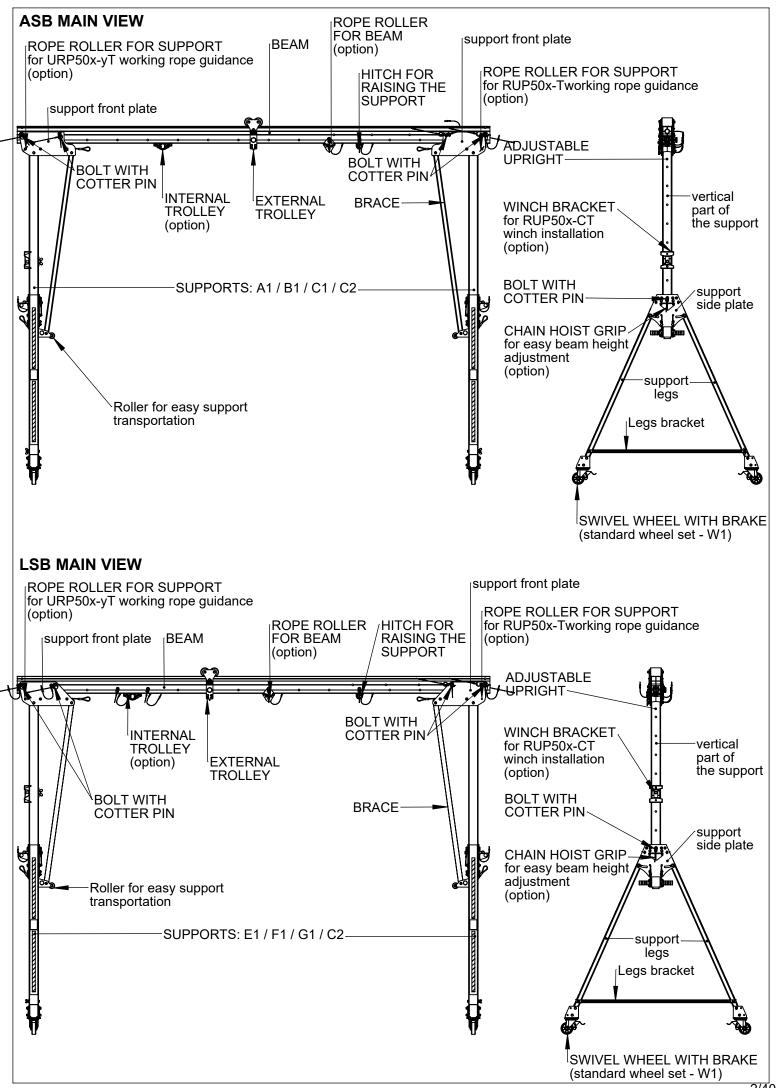
ASB/LSB device can be used for rescue purposes and personal protection as component of personal protective equipment against fall from height. During rescue operation lifting/lowering loads IS NOT allowed. <u>For rescue RUP50x-C or RUP50x-D</u> rescue lifting device must be used. For personal protection internal trolley must be used.

Rescue - Section 6.

Personal Protection - Section 4.



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GENERAL SAFETY INSTRUCTION

INSPECTION BEFORE FIRST USE

ASB/LSB device must be visually and functionally inspected before first use by a competent person. Inspection must establish that all parts of the device are safe and has not been damaged by incorrect assembly, transport or storage. Inspections are carried out by the user.

INSPECTION BEFORE WORKING

Before each use it is obligatory to carry out a pre-use check of the equipment, to ensure that it is in a serviceable condition and operates correctly before it is used. During pre-use check it is necessary to inspect all elements of the equipment in respect of any damages, excessive wear, corrosion, abrasion, cutting or incorrect acting. Especially take into consideration:

- components visual defects,
- test the trolleys for free movement along the beam,
- ensure that WLL of the device is sufficient for the application and will not be exceeded.

Inspections are carried out by the user.

MAXIMUM LIFESPAN / PERIODIC INSPECTION / WARRANTY

Maximum lifespan of the ASB/LSB device is unlimited but its depends on the intensity of usage and the environment of use. Using the device in rough environment, marine, contact with sharp edges, exposure to extreme temperatures or agressive substances, etc. can lead to the withdrawal from use even after one use.

After every 12 months of utilization, equipment must be withdrawn from use to carry out periodical detailed inspection.

<u>Periodic inspections</u> must only be carried out by:

FOR PERSONAL PROTECTION EQUIPMENT (PPE): a competent person who has the knowledge and training required for personal protective equipment periodic inspections OR manufacturer OR manufacturer's authorized representative. FOR LIFTING EQUIPMENT (NON PPE): a competent person responsible in the workplace for the interim inspection of lifting equipment.

Depending upon the type and environment of work, inspections may be needed to be carried out more frequently than

once every 12 months.

During periodic inspection will be established admissible time of the device use till next periodic inspection.

The result of the periodic inspection must be recorded in Identity Card.

Regular periodic inspections are the essential for equipment maintenance and the safety of the users which depends upon the continued efficiency and durability of the equipment.

During periodic inspection it is necessary to check the legibility of the equipment marking.

ASB / LSB standard warranty period counted from purchase date: 3-years. Additional warranty can be purchased.

MAINTENANCE / STORAGE / REPAIR

If during the inspection any defects or damages are detected ASB/LSB device should be immediately withdraw from the use. Do not change the device design, repair or replace elements included in the kit.

When using the device, protect it against mechanical, chemical and thermal damage. Do not use a damaged or malfunctioningparts. Clean a dirty device with a damp cloth. Store the device indoors, away from moisture and sources of heat.

WITHDRAWAL FROM THE USE

Device must be withdrawn from use immediately when any doubt arise about its condition for safe use and not used again until confirmed in writing by equipment manufacturer or his representative after carried out the detailed inspection.

TRANSPORT

The device should be transported in packaging protecting it from damage or getting wet, e.g. bags made of impregnated fabric or in steel / plastic / waterproof wooden cases or boxes.

GENERAL PRECAUTIONS

- ASB/LSB device must be installed in accordance with this instruction manual.
- ASB/LSB device can be used in the temperature range from -20°C to +50°C.
- Working Load Limit (WLL) indicated on the beam MUST NOT be exceeded.

 Working Load Limit (WLL) indicated on the beam MUST BE REDUCED to the RWWL value when personnel is protected (attached to the internal trolley) during lifting/lowering loads in accordance with Section 5.

During rescue operation lifting/lowering loads IS NOT allowed - please refer to Section 6.

Each lifting operation must be properly planned and the weight of the load to be lifted must be known by the operator.

- Before any lifting operation all wheel brakes MUST BE locked.
 Equipment for lifting loads (e.g. hoists, chains) MUST BE attached ONLY to the external trolley attachment point.
- DO NOT attach load to the internal trolley. Internal trolley is intended to be used ONLY as personal protective equipment only.
- The operator must ensure that the additional lifting equipment (e.g.hoists, chains) are properly attached and not expose him or other personnel to danger.
- ASB/LSB device can be moved under load only when a competent person or authority approves a risk

assessment and method statement for a particular reason.

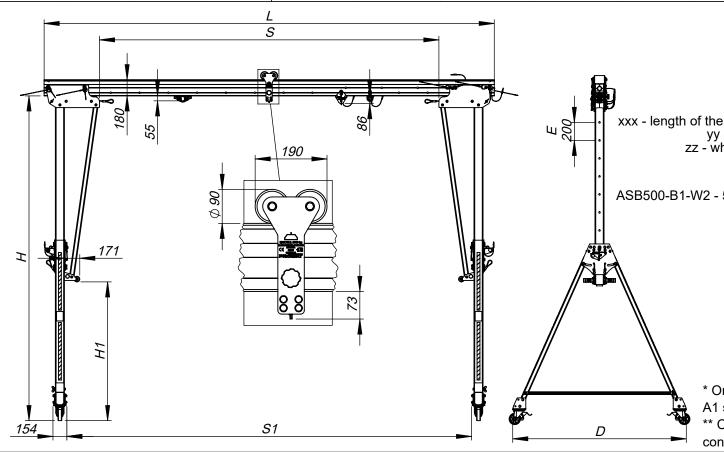
Risk assessment and method statement must consider additional loading in "wet lift" situation.

Do not allow load to swing.

- Beam must be positioned horizontally during any lifting operation.
- Avoid side loads. Lift loads only when load chain is stretched in the vertical position between load and attachment point of lifting device.
- Do not lift or transport loads while personnel are in the danger zone.
- Personnel SHOULD NOT stand or pass under a suspended load.
- Suspended load MUST NOT be left unattended for a long period of time.
- BEFORE starting lowering the load ALWAYS make sure that personnel are not stand or pass under the load.

ASB TECHNICAL DATA TABLE

'L' TOTAL BEAM	'S' Working	'S1' Bottom	Beam weight	A1 SL	A1 SUPPORT		JPPORT	C1 SU	JPPORT	C2 SU	IPPORT	
LENGTH [mm]	span [mm]	span [mm]	[kg̃]	WLL [T]	Total device weight [kg]							
2000	770	1496	26,7	<i>3</i> *	122	3	148	3	204	1	242	
3000	1770	2496	40,1	<i>3</i> *	135	3	161	3	218	1	255	
4000	2770	3496	53,4	3	148	3	174	3	231	1	269	
<i>5000</i>	3770	4496	66,5	2.5	162	2.5	188	2.5	244	1	282	
6000	4770	5496	80,1	2	175	2	201	2	258	1	295	
7000	5770	6496	93,5	1.5	188	1.5	214	1.5	271	1	309	
8000**	6770	7496	112	0.5	207	0.5	232	0.5	289	0.5	327	
9000**	7770	8496	125	0.5	220	0.5	246	0.5	303	0.5	340	
Support Weight [kg]			Weight [kg]	38,2		50,2		72,8		98,4		
'H' - Support height (minmax) [mm]			1594	12194	220	73607	3230	05430	4230	6430		
'H1' - Under roller height (minmax) [mm]				34634		1411541		1642364		1642364		
	•	D' - Legs sp	acing [mm]	1115		1928 2834			834	2834		
'	E' - Support	height increi	ment [mm]		'		200				_	



ASB REFERENCE

ASBxxx-yy-zz

where: xxx - length of the beam [cm] [200 / 300 / 400 / 500 / 600 / 700 / 800 / 900] yy - support height option [A1 / B1 / C1 / C2] zz - wheels set type [W1 / W2 / W3 / W4 / W5 / W6]

EXAMPLE

ASB500-B1-W2 - 5-meter beam with support B1 with \oslash 200mm galvanized steel with solid rubber tyre wheels.

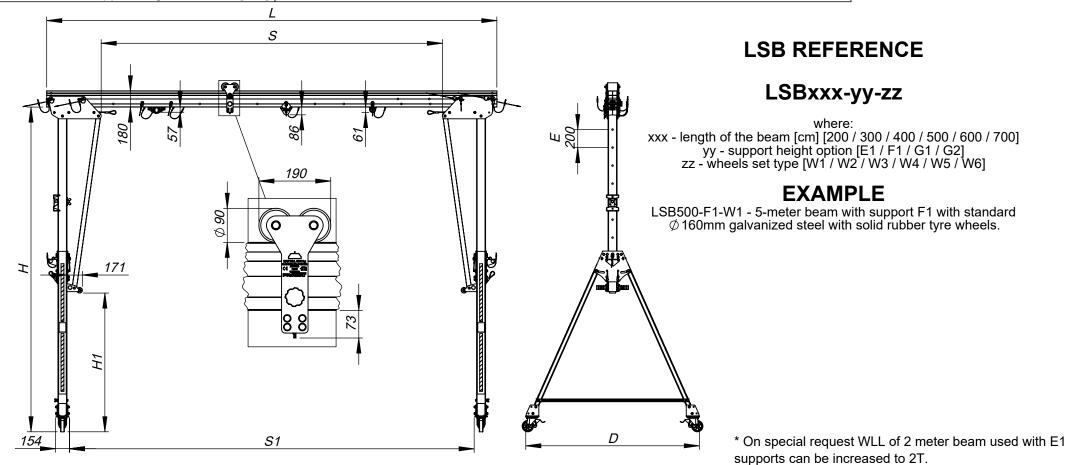
- * On special request WLL of 2 and 3 meter beam used with A1 supports can be increased to 3,5T.
- ** Combined beams (connected using TRE200-002-000 connector).

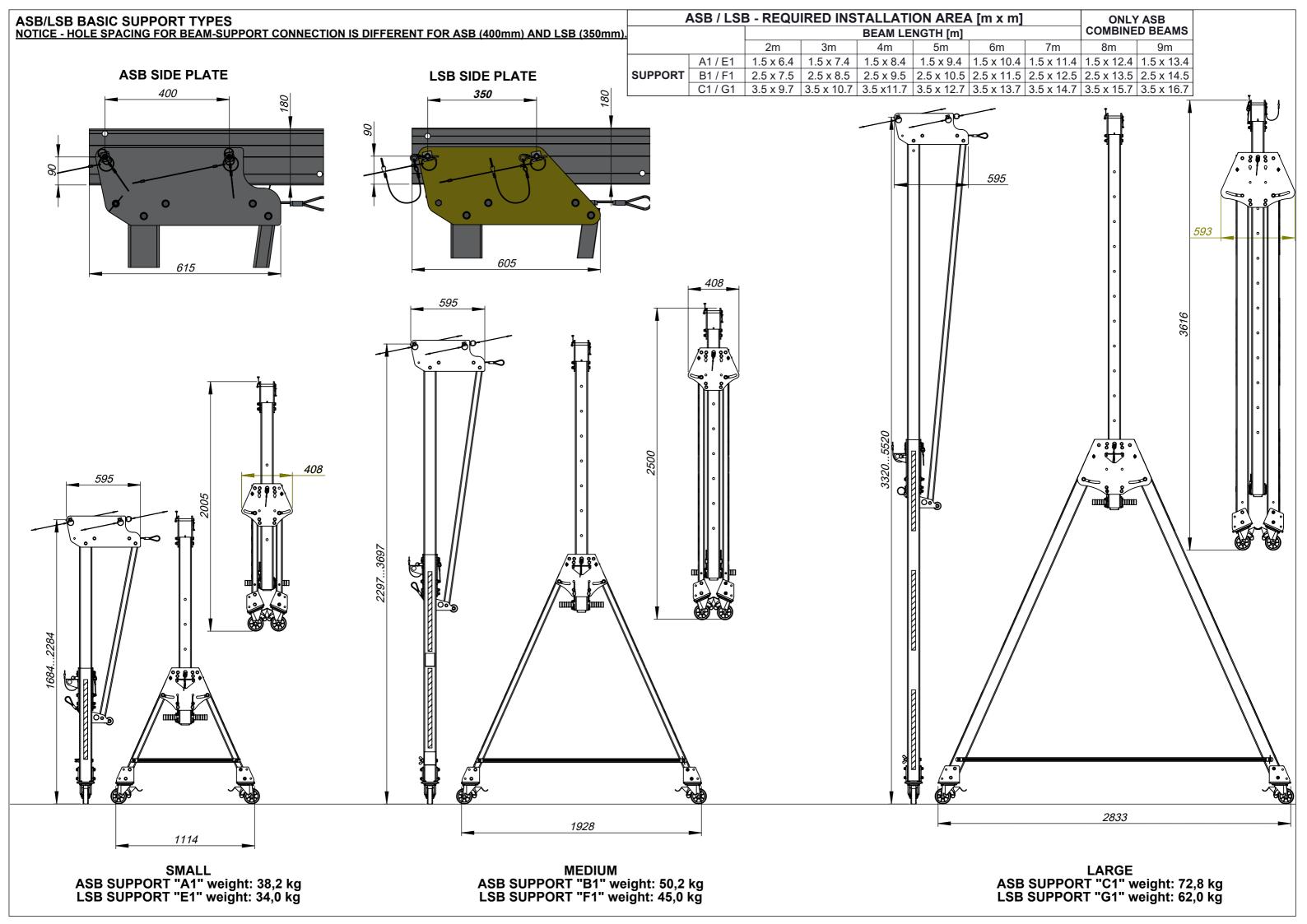
LSB TECHNICAL DATA TABLE

'L' Total beam	'S' Working	'S1' Bottom span [mm]	Beam weight [kg]	E1 SI	JPPORT	F1 SI	JPPORT	G1 SL	JPPORT	G2 SU	IPPORT
length [mm]	span [mm]			WLL [T]	Total device weight [kg]	WLL [T]	Total device weight [kg]	WLL [T]	Total device weight [kg]	WLL [T]	Total device weight [kg]
2000	770	1496	13,2	1.75*	98	1.75	122	1.75	155	0.5	167
3000	1770	2496	19,7	1.5	105	1.5	129	1.5	162	0.5	174
4000	2770	3496	26,3	1.25	111	1.25	135	1.25	169	0.5	180
5000	3770	4496	32,8	1	118	1	142	1	175	0.5	187
6000	4770	5496	39,4	0.75	125	0.75	148	0.75	182	0.5	194
7000	5770	6496	46,0	0.5	131	0.5	155	0.5	188	0.5	200
		Support V	Veight [kg]	34,0			45,0	62,0		68,8	

				I
Support Weight [kg]	34,0	45,0	62,0	68,8
'H' - Support height (minmax) [mm]	15942194	22073607	32305430	42306430
'H1' - Under roller height (minmax) [mm]	34634	1411541	1642364	1642364
'D' - Legs spacing [mm]	1115	1928	2834	2834
'L' Cupport boight ingrament [mm]	•	200	•	·

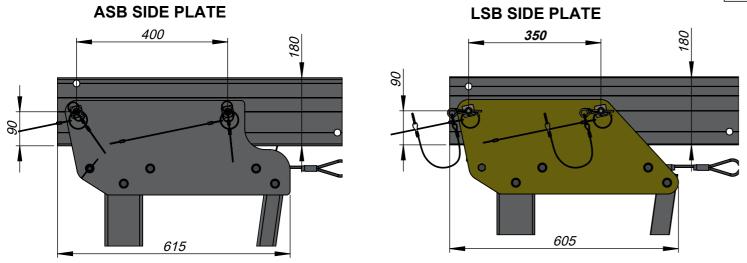
'E' - Support height increment [mm] | 200

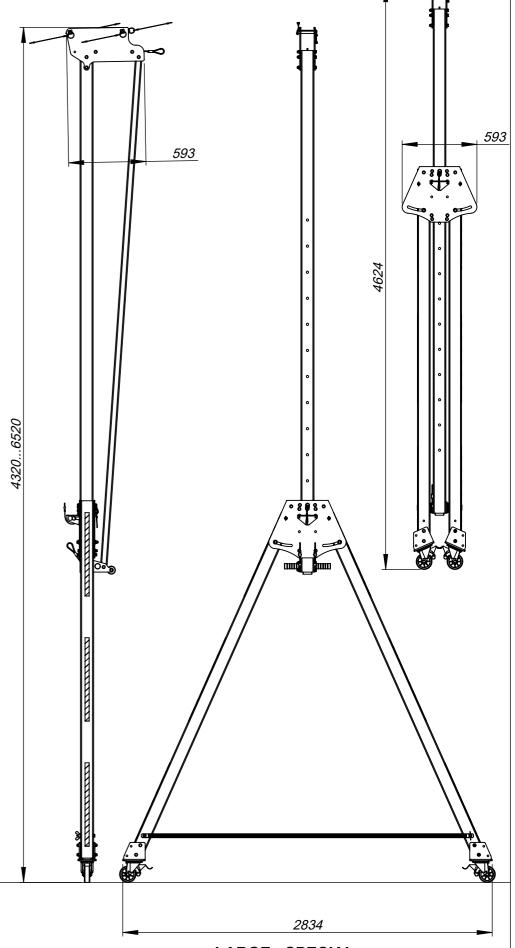




ASB/LSB SPECIAL SUPPORT TYPES
NOTICE - HOLE SPACING FOR BEAM-SUPPORT CONNECTION IS DIFFERENT FOR ASB (400mm) AND LSB (350mm).

	ONLY ASB								
	COMBINE	D BEAMS							
		2m	3m	4m	5m	6m	7m	8m	9m
SUPPORT	C2 / G2	3.5 x 11.7	3.5 x 12.7	3.5 x13.7	3.5 x 14.7	3.5 x 15.7	3.5 x 16.7	3.5 x 17.7	3.5 x 18.7





LARGE - SPECIAL ASB SUPPORT "C2" weight: 98,4 kg LSB SUPPORT "G2" weight: 68,8 kg

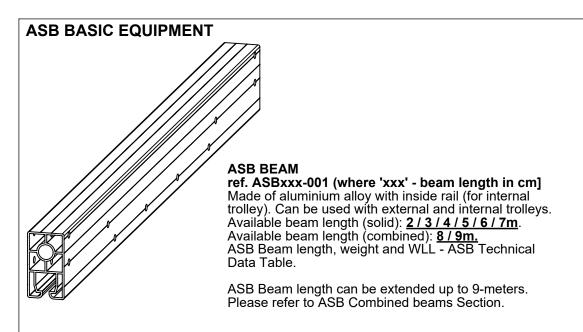
ASB FRAME SPAN REGULATION One support (frame) can be installed to the beam in alternative positions. Regulation step "G" for ASB is always 400mm. Number of steps depends on beam lenth. 'L' 'F range' Outreach 'S RANGE' 'S1 RANGE' Total beam Number of available Working span range Working span range support positions length [mm] [mm] [mm] [mm] [pcs] 770 1496 116 2000 1 116 / 516 / 916 3000 970 / 1370 / 1770 1696 / 2096 / 2496 3 Ν 4000 1970 / 2370 / 2770 2696 / 3096 / 3496 116 / 516 / 916 3 available 5000 2570 / 2970 / 3370 / 3770 3296 / 3696 / 4096 / 4496 116 / 516 / 916 / 1316 4 support (frame) "positions 6000 3570 / 3970 / 4370 / 4770 4296 / 4696 / 5096 / 5496 116 / 516 / 916 / 1316 4 7000 4570 / 4970 / 5370 / 5770 5296 / 5696 / 6096 / 6496 116 / 516 / 916 / 1316 S RANGE G 400 116 F RANGE **ASB** !ATTENTION This configuration is not for combined ASB beams 154 S1 RANGE (8 and 9-meters).

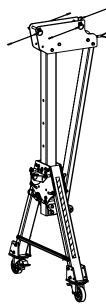
LSB FRAME SPAN REGULATION One support (frame) can be installed to the beam in alternative positions. Regulation step "G" for LSB is always 350mm. Number of steps depends on beam lenth. 'L' 'F range' Outreach 'S RANGE' 'S1 RANGE' Total beam Number of available Working span range Working span range support positions length [mm] [mm] [mm] [mm] [pcs] 2000 770 1496 116 1070 / 1420 / 1770 1796 / 2146 / 2496 116 / 466 / 816 3000 3 2070 / 2420 / 2770 4000 2796 / 3146 / 3496 116 / 466 / 816 3 available 5000 2720 / 3070 / 3420 / 3770 3446 / 3796 / 4146 / 4496 116 / 466 / 816 / 1166 4 support (frame) positions 6000 3720 / 4070 / 4420 / 4770 4446 / 4796 / 5146 / 5496 116 / 466 / 816 / 1166 4 7000 4720 / 5070 / 5420 / 5770 5446 / 5796 / 6146 / 6496 116 / 466 / 816 / 1166 S RANGE G 350 116 F RANGE **LSB**

S1 RANGE

9/40

154





ASB SUPPORT (FRAME)

A1 - ref. ASB500-450-1

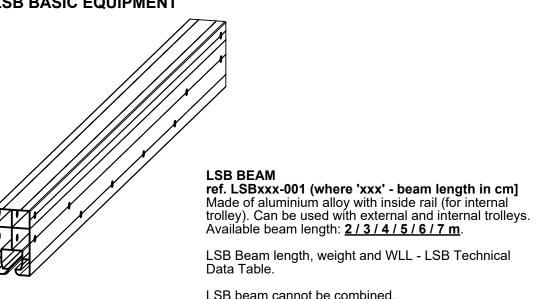
B1 - ref. ASB500-100-1

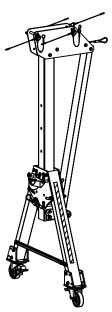
C1 - ref. ASB500-500-1 C2 - ref. ASB500-500-2

Made of aluminium alloy. Various height options. 200mm height adjustment. Foldable construction. Two the same supports are needed for one beam. Equipped with three bolts with cotter pin. Available support types: A1 / B1 / C1 / C2.

Support height and weight - ASB Technical Data Table and Basic support types section.

LSB BASIC EQUIPMENT





LSB SUPPORT (FRAME) E1 - ref. LSB500-450-1

F1 - ref. LSB500-100-1

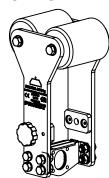
G1 - ref. LSB500-500-1

G2 - ref. LSB500-500-2

Made of aluminium alloy. Various height options. 200mm height adjustment. Foldable construction. Two the same supports are needed for one beam. Equipped with three bolts with cotter pin. Available support types: E1 / F1 / G1 / G2.

Support height and weight - LSB Technical Data Table and Basic support types section.

ASB/LSB ACCESSORIES



EXTERNAL TROLLEY ref. ASB500-200

Made of aluminium alloy, stainless steel and polyamide parts. Position can be locked along the beam using knob.

External trolley can be used **for lifting loads only**.



INTERNAL TROLLEY ref. ASB500-250

Made of galvanized and stainless steel. Space saving. Attachment point only 55mm under the beam. Position locking using bolts with cotter pin.

Internal trolley can be used for personal protection

purposes only.

One trolley can be use for one person. ASB - Max 5 trolleys on one ASB beam.

LSB - Max 3 trolleys on one LSB beam.



WHEELS SET (4 pcs)

Support can be equipped with three types of swivel wheels with brake depending on the site of use:

- <u>W1, ref. ASB100-010</u> Ø160mm galvanized steel with solid rubber tyre for general use (standard).
- W2, ref. ASB100-020 Ø20Òmm galvánized steel with solid rubber tyre for 'all-terrain'.
- W3, ref. ASB100-030 Ø160mm aluminium with non-marking solid rubber tyre (polyurethan) for cleanroom / manufacturing hall.
- <u>W4. ref. ASB100-040</u> Ø200mm cast iron with non-marking solid rubber tyre (polyurethan) for cleanroom / manufacturing hall.
- W5, ref. ASB100-050 Ø200mm aluminium with non-marking solid rubber tyre (polyurethan) for cleanroom / manufacturing hall.
- W6, ref. ASB100-060 Ø250mm cast iron with non-marking solid rubber tyre (polyurethan) for cleanroom / manufacturing hall. Position lock 4 x 90°.
- W7, ref. ASB100-060 Ø250mm TANDEM (double) cast iron with non-marking solid rubber tyre (polyurethan) for cleanroom / manufacturing hall. Position lock 4 x 90°.
- <u>W8, ref. ASB100-060</u> Ø460mm TANDEM (double) pneumatic OFFROAD tyre. Position lock 4 x 90°.

Complete ASB device must be equipped with four the same wheels. Available types of wheels: **W1 / W2 / W3 / W4 / W5 / W6 / W7 / W8**. It is recommended to use additionally Wheel Support set.

FOR W6 / W7 / W8 HSB000-A10-100 CONNECTOR is needed!



HITCH FOR RAISING THE SUPPORT ref. ASB500-360

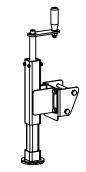
Made of aluminium alloy/galvanized steel. Used during raising and lowering the device support. Chain hoist is attached to the hitch ear.

MUST BE USED with B1 / C1 / F1 / G1 support.



CHAIN HOIST GRIP ref. ASB500-140

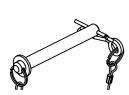
Made of stainless steel. Provides safety rising and lowering the vertical part of the support (adjustable upright) during device installation on the working site. Chain hoist grip is installed on support's side plate. One piece is needed for one support.



WHEEL SUPPORT ref. ASB500-300

Made of galvanized and powder painted steel. Provides device leveling on uneven ground and stabilization during operation. Equipped with locking bolts with wings nuts.

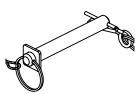
Complete ASB/LSB device should be equipped with four wheel supports.



BOLT WITH COTTER PIN 16mm ref. ASB500-130

Made of galvanized steel. Used for:

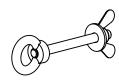
- locking vertical part of the support (one piece for one suport),
- locking beam between support's front plates (two pieces for one support), ASB (A1, B1) / LSB (E1, F1, G1)
- locking internal trolley position along the beam (two pieces for one internal trolley),
- locking rope roller for beam on the beam's holes (two pieces for one rope roller for beam).



BOLT WITH COTTER PIN 17,5mm ref. ASB500-560

Made of galvanized steel. Used for:

 locking beam between ASB-C1 support's front plates (two pieces for one support).



HITCH FOR LIFTING THE VERTICAL PART OF SUPPORT ref. ASB500-370

Made of stainless steel. Used for easy beam height adjustment (vertical part of the support) with chain hoist.

SHOULD BE USED with C1 / G1 support when chain hoist is used.

ASB/LSB ACCESSORIES



WHEEL SUPPORT DISTANCE EXTENDER 40mm ref. ASB500-813

Made of galvanized and powder painted steel. Provides additional 40mm distance between wheel and wheel support. Recommended for W1 wheels (160mm diameter).



HSB000-A09-010

[3.1m x 1.4m (max 4 pcs. B / F supports)]

HSB000-A09-060

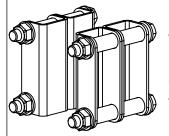
[3.5m x 1.4m (max 2 pcs. C1 / G1 supports)]

HSB000-A09-070

NARROW VERSION: 0.8m ref. HSB000-A09-1xx

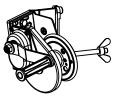
[4.0m x 1.4m (max 2 pcs. C2 / G2 supports)]

SUPPORTS TRANSPORTATION TROLLEY



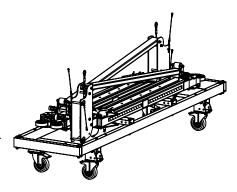
WHEEL SUPPORT DISTANCE EXTENDER 80mm ref. ASB500-814

Made of galvanized and powder painted steel. Provides additional 80mm distance between wheel and wheel support. Recommended for W2 wheels (200mm diameter).



FRAME WINCH ref. ASB500-640

Made of galvanized, powder-painted steel. Equipped with 6-meter strap fits for all support (frame) of ASB / LSB. Used instead of chain hoist grip (ASB500-140) and hitch (ASB500-370) and chain hoist. Provides safety and fast raising and lowering the vertical part of the support (beam height regulation). Solid rubber wheels Ø200mm.



HSB000-A09-110

storage, etc.

[3.1m x 0.8m (max 2 pcs. B / F supports)]

Made of aluminium alloy profiles. Equiped with wheels for easy movement. Apropriate

for door-to-door frames transportation /

HSB000-A09-160

[3.5m x 0.8m (max 1 pcs. C1 / G1 supports)]

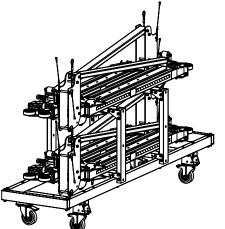
HSB000-A09-170

[4.0m x 0.8m (max 1 pcs. C2 / G2 supports)]



BEAM TRANSPORTER ref. ASB500-600

Made of aluminium alloy/galvanized steel parts. Used for easy beam transportation on long distances. Solid rubber wheels \emptyset 200mm. Suits for ASB and LSB beams.



SUPPORTS TRANSPORTATION TROLLEY NARROW VERSION: 0.9m ref. HSB000-A09-1xx +SECOND LEVEL (ref. HSB000-A09-180)

Made of aluminium alloy profiles. Equiped

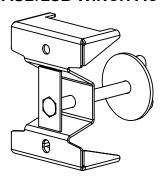
with wheels for easy movement and with second level for increase storage space. Apropriate for door-to-door frames transportation / storage, etc.

HSB000-A09-110 + 2 x HSB000-A09-180 [3.1m x 0.9m (max 4 pcs. B / F supports)]

HSB000-A09-160 + 2 x HSB000-A09-180 [3.5m x 0.9m (max 2 pcs. C1 / G1 supports)]

HSB000-A09-170 + 2 x HSB000-A09-180 [4.0m x 0.9m (max 2 pcs. C2 / G2 supports)]

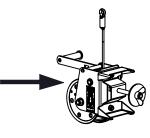
ASB/LSB WINCH ACCESSORIES



WINCH BRACKET (RUP50x-CT) ref. ASB500-190

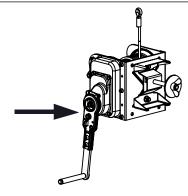
Made of galvanized steel. Equipped with wing-nut for fast installation. Provides RUP50x-CT lifting devices installation to the vertical part of the support.

Fits for all Supports types (A / B / C / E / F / G).



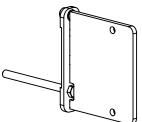
BRAKE WINCH 500kg 25-meter rope ref. RUP502-CT

Made of galvanized and powder-painted steel. Mounted on vertical part of all supports (frames) types.



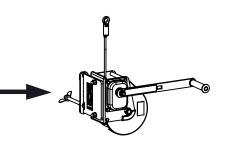
BRAKE WINCH 1000kg 50-meter rope ref. RUP503-CT

Made of galvanized and powder-painted steel. Mounted on vertical part of all supports (frames) types.



WINCH BRACKET (RUP502-DT) ref. ASB500-610

Made of galvanized steel. Equipped with wing-nut for fast installation. Provides RUP502-DT lifting device installation to the support side plate. Fits to A / B / E / F Supports.



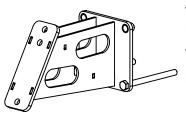
BRAKE WINCH 500kg 25-meter rope ref. RUP502-DT

Made of galvanized and powder-painted steel. Mounted on side plate of small and medium support (frame).



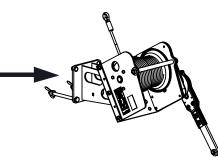
CRW200 BRACKET ref. ASB500-570

Made of galvanized and powder-painted steel. Mounted on side plate of support (frame).



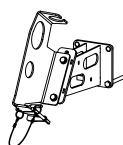
WINCH BRACKET (RUP503-DT) ref. ASB500-190

Made of galvanized steel. Equipped with wing-nuts for fast installation. Provides RUP503-DT lifting device installation to the support side plate. Fits to A / B / E / F Supports.



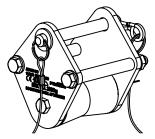
BRAKE WINCH 1000kg 50-meter rope ref. RUP503-DT

Made of galvanized and powder-painted steel. Mounted on side plate of small and medium support (frame).



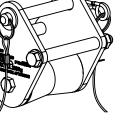
CRW300 BRACKET ref. ASB500-580

Made of galvanized and powder-painted steel. Mounted on side plate of support (frame).



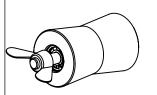
ROPE ROLLER FOR BEAM ref. ASB500-240

Made of reinforced aluminium alloy, stainless steel and polyamide parts. Provides working rope guidance when RUP 50x-CT/DT lifting device is used. Installed to the beam using bolts with cotter pin. Used also with CRW devices.



ROPE ROLLER FOR SUPPORT ref: ASB500-180

Made of polyamide and galvanized steel. Provides working rope guidance when RUP 50x-CT/DT lifting device is used. Installed to the support using bolt with wing-nut. Installed between support front plates. Used also with CRW devices.



ASB MARKING

BEAM IDENTITY LABEL



CONTENT OF IDENTITY LABEL

- a) Device type.
- b) Reference number.
- c) Serial number.
- d) Month and year of manufacture.
- e) CE marking.
- f) Caution: Read the manual.
- g) Markig of the manufacturer or distributor.

WLL TABLE PLATE

ASB – TECHNICAL DATA TABLE											
"L" BEAN LENGTH [mm]	BEAM WEIGHT [kg]	"S" WORKING SPAN [mm]	"S1" BOTTON SPAN [mm]	A1 SUPPORT		B1 SUPPORT		C1 SUPPORT		C2 SUPPORT	
,,				WLL [11]	GANTRY WEIGHT [kg]	WLL [1]	GANTRY WEIGHT [kg]	WLL [1]	GANTRY WEIGHT [kg]	WLL [1]	GANTRY WEIGHT [kg]
2000	26,7	770	1496	3	122	3	148	3	204	1	242
3000	40,1	1770	2496	3	135	3	161	3	218	1	255
4000	53,4	2770	3496	3	148	3	174	3	231	1	269
5000	66,5	3770	4496	2,5	162	2,5	188	2,5	244	1	282
6000	80,1	4770	5496	2	175	2	201	2	258	1	295
7000	93,5	5770	6496	1,5	188	1,5	214	1,5	271	1	309
	SUPPORT V	WEIGHT [kg]	1	3	88,2	50,2		72,8		98,4	
"H"	- SUPPOR	RT HEIGHT [4M]	1594	2194	220	73607	3230	5430	4230	06430
"H1" -	UNDER RO	34	634	141	1541	1642364		164	2364		
	D" - LEG S	1115		1928		2834		2834			
"E"	- HEIGHT I	200		- 1	200	200		200			



GANTRY CE ID LABEL (BOTH SIDES)

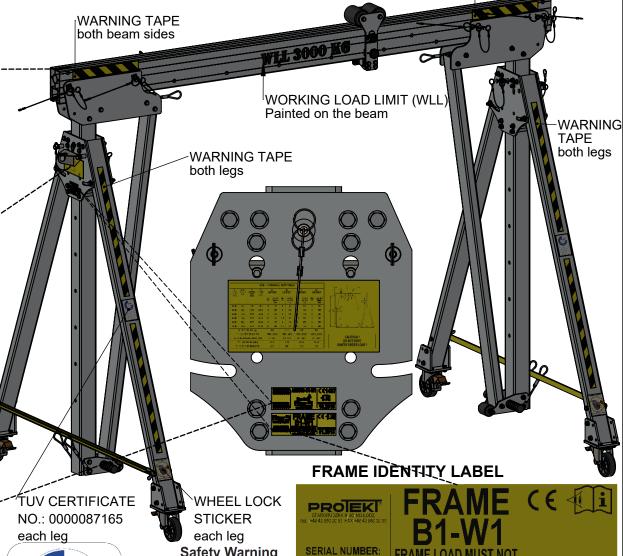


The same serial numbers as in "Beam" and "Frame" ID LABEL

NEXT INSPECTION LABEL

Month and year of the manufacturer's next inspection. Don't use the device after this date.

Attention: Before the first use mark the date of inspection (date of first use + 12 months, e.g. first use 01.2013 - mark inspection 01.2014).
"Next inspection label" placed on Frame Identity Label.





The certificate can be checked at:

Safety Warning



Brakes must be Locked before lifting Load

EXCEED BEAM WLL

WARNING TAPE

both beam sides

LSB MARKING

BEAM IDENTITY LABEL



CONTENT OF IDENTITY LABEL

- a) Device type.
- b) Reference number.
- c) Serial number.
- d) Month and year of manufacture.
- e) CE marking.
- f) Caution: Read the manual.
- g) Markig of the manufacturer or distributor.

WLL TABLE PLATE

			LSB	- TEI	L 8							
"L" BEAH LENGTH [mm]	BEAM WEIGHT [kg]	"S" WORKING SPAN [mm]	"S1" BOTTOM SPAN [mm]		E1 PPORT		F1 PPORT	SU	G1 PPORT		G2 PPORT	
				WLL [T]	GANTRY WEIGHT [kg]	WLL [T]	GANTRY WEIGHT [kg]	WLL	GANTRY WEIGHT [kg]	WLL [T]	GANTRY WEIGHT [kg]	257 73 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
2000	13,2	1496	770	2	122	1,75	148	1,75	204	0,5	242	171
3000	19,7	2496	1770	1,5	135	1,5	161	1,5	218	0,5	255	I 154
4000	26,3	3496	2770	1,25	148	1,25	174	1,25	231	0,5	269	
5000	32,8	4496	3770	1	162	1	188	1	244	0,5	282	\ \\ \\ \
6000	39,4	5496	4770	0,75	175	0,75	201	0,75	258	0,5	295	
7000	46	6496	5770	0,5	188	0,5	214	0,5	271	0,5	309	sı P D
	SUPPORT	WEIGHT [kg	ıl		34		45		62		58,8	
"H" - SUPPORT HEIGHT [MM] 15942194			2194	2207	3607	323	05430	4230	6430	2.000000		
"H1" - UNDER ROLLER HEIGHT ([MM] 34634			634	141	1541	164	12364	164	2364	CAUTION !		
"D" - LEG SPACING [MM] 1115			115	1928		- 3	2834	2	834	DO NOT MOVE		
E	- HEIGHT	INCREMENT	[MM]	2	200	-	200		200		200	GANTRY UNDER LOAD !

GANTRY CE ID LABEL (BOTH SIDES)



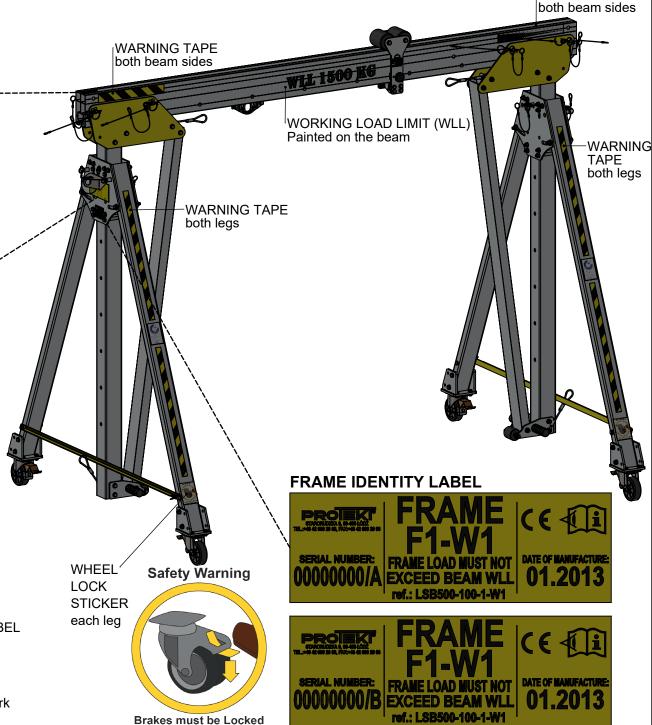
The same serial numbers as in "Beam" and "Frame" ID LABEL

NEXT INSPECTION LABEL

Month and year of the manufacturer's next inspection. Don't use the device after this date.

Attention: Before the first use mark the date of inspection (date of first use + 12 months, e.g. first use 01.2013 - mark inspection 01.2014).

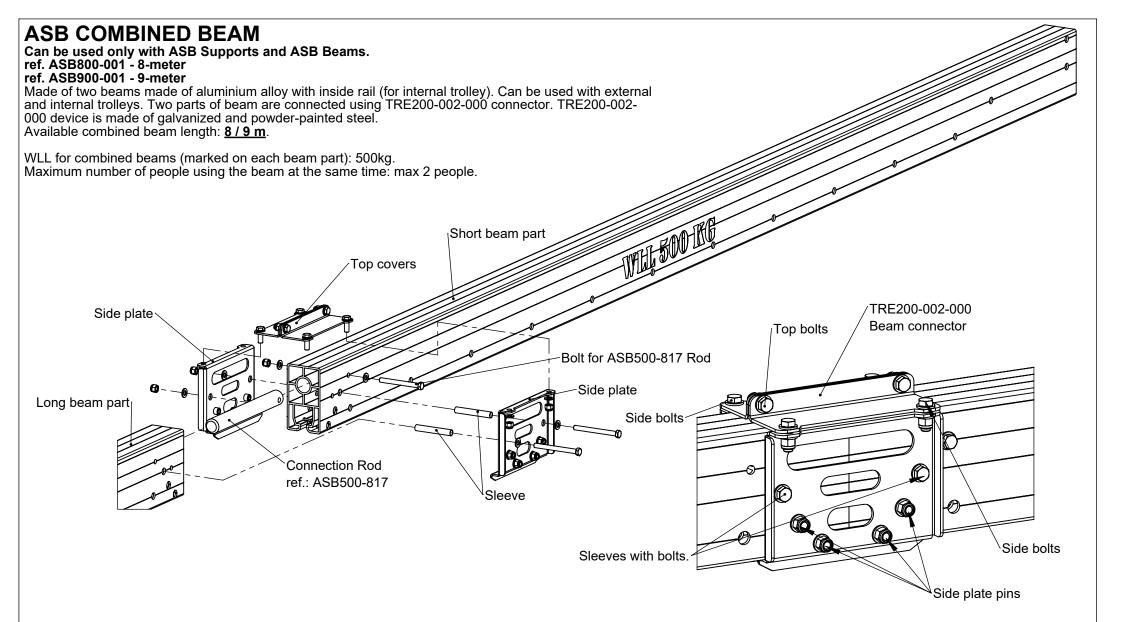
"Next inspection label" placed on Frame Identity Label.



FRAME IDENTITY LABEL

before lifting Load

WARNING TAPE

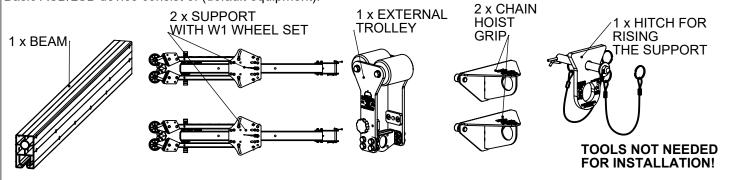


INSTALLATION PROCEDURE:

- 1. Install ASB500-817 Connection Rod in the shorter beam part using M12x120-8.8 bolt with self-locking nut.
- 2. Install two parts of beam to the supports.
- 3. Raise the both beams end and connect them using ASB500-817 Connection Rod.
- 4. Put on the connection point TRE200-002-000 unit (pins on the side plates should be inserted into sockets in the shape of longitudinal holes on the beams).
- 5. Fit two Sleeves into holes and tighten them firmly using two M12x130-8.8 bolts with self-locking nuts.
- 6. Tighten firmly 4 pcs of Side bolts and after that tighten firmly 2 pcs of Top bolts.

SECTION 2 - DEVICE INSTALLATION

ASB/LSB device should be installed by minimum two people equipped with hard hat, protective footwear and gloves. Basic ASB/LSB device consist of (default equipment):



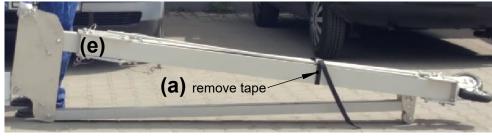
1. SUPPORT PREPARATION:

- Remove the tape (a) holding legs together.
- Spread the legs (b1, b2) and and install between them legs bracket (c1) using bolt with wing nut (c2).

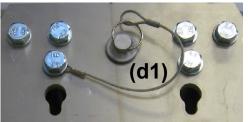


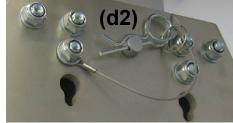


- Lock the wheel brakes (f1) using only protective footwear. DO NOT USE HANDS!
- special roller (f3).

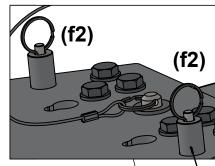


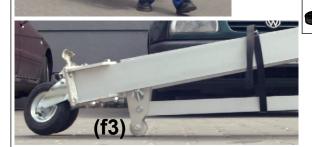


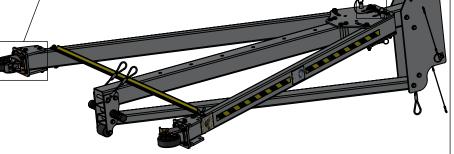








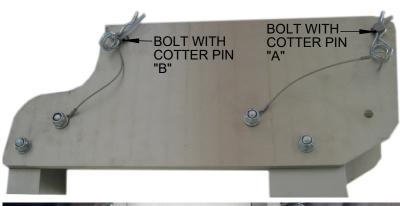




Properly assembled support.

2. BEAM INSTALLATION

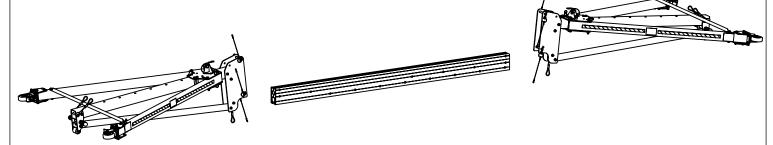
Support is equipped with two bolts with cotter pin ("A" and "B") for beam installation.



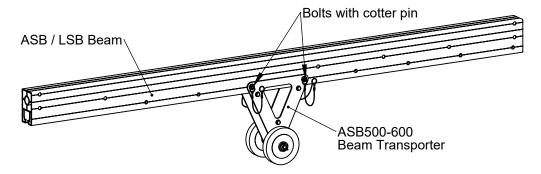
Remove both "A" and "B" bolts with cotter pin.



Place two supports opposite each other with beam between them on firm and flat sufface.



• ASB beam can be easily transported using ASB500-600 Beam Transporter which can be installed to the beam using two bolts with cotter pin.



Connect one end of the beam with support using "A" bolt. Secure the bolt with cotter pin!



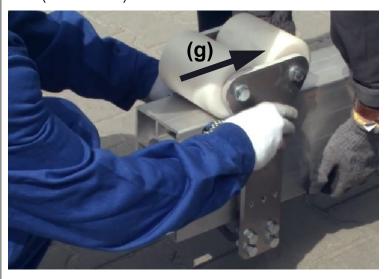


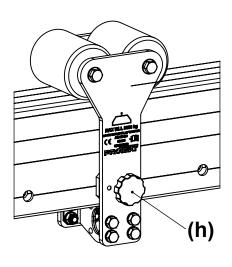
BEFORE INSTALLATION OF SECOND SUPPORT PUT ON THE BEAM ALL NEEDED TROLLEYS!

3. TROLLEYS INSTALLATION

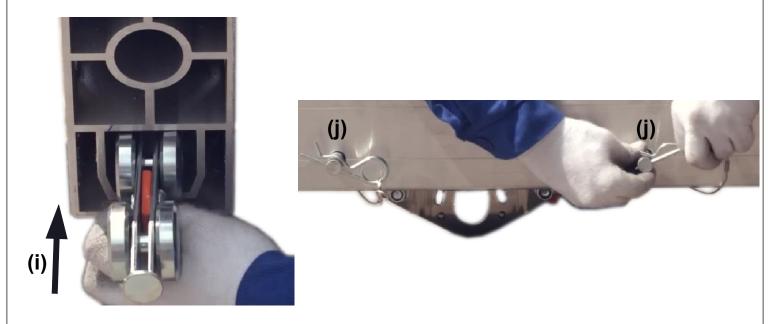
3.1. EXTERNAL TROLLEY INSTALLATION

Put the external trolley on the free end of the beam (g) and secure trolley's position (h) near beam center with knob (friction brake).

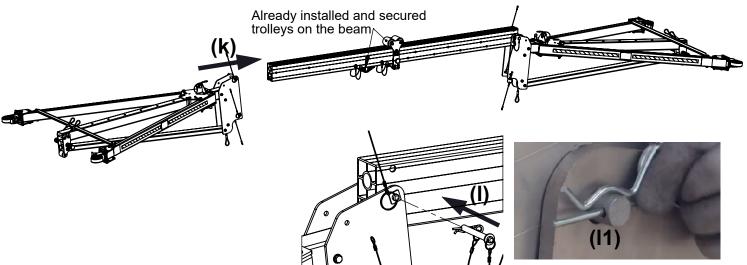




3.2. INTERNAL TROLLEY INSTALLATION
Insert internal trolley into beam's rail (i) and secure trolley's position with two bolts with cotter pin (j).



- After installation of all needed trolleys install second support to the beam end (k) using "A" bolt (l). Secure the bolt with cotter pin (l1).
- In this stage there is easy way to remove ASB500-600 Beam Transporter.



4. RAISING THE DEVICE SUPPORTS

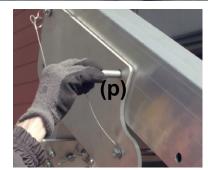
It is recommended that suports should be raised using chain hoist (at least 1,5 tonne WLL) and hitch for raising the support (ASB500-360).

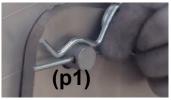
- Attach ASB500-360 hitch into third bottom line hole on the beam (o1). Attach chain hoist to the ASB500-360 hitch installed on the beam (o2). ASB500-360 hitch must be immobilized using bolt with cotter pin (j).
- Attach chain hoist hook to the end of the small steel rope (o3) located between support front plates. Be sure that bolt with cotter pin "B" is removed from support front plate (o4).
- Start raising the support using chain hoist lever (05). While raising ensure the sustainability of whole device.





- Insert the second bolt "B" into support front plate (p).
- Secure bolt with cotter pin! (p1).
- Release chain hoist and remove steel rope.
- Repeat above instructions for second support.





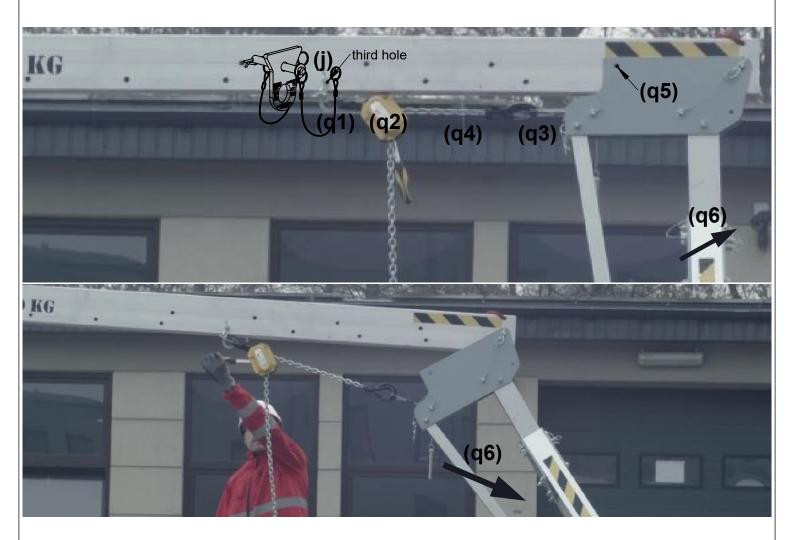
5. LOWERING THE DEVICE SUPPORTS

It is recommended that suports should be lowered using chain hoist (at least 1,5 tonne WLL) and hitch for raising the support (ASB500-360).

- Before lowering support be sure that all wheel brakes are locked (f1). Attach ASB500-360 hitch into third bottom line hole on the beam (q1). Attach chain hoist to the ASB500-360 hitch installed on the beam (q2).
- ASB500-360 hitch must be immobilized using bolt with cotter pin (j).
- Attach chain hoist hook to the end of the small steel rope (q3) located between support front plates..

 Be sure that the chain hoist mechanism is locked, chain strung (q4) and hook properly attached to the end of the steel rope.Small slack of the chain is allowed.
 Remove bolt with cotter pin "B" from support front plate (q5).
 Unlock the wheels and push support outside (q6).
 While lowering the device ensure the sustainability of whole device.

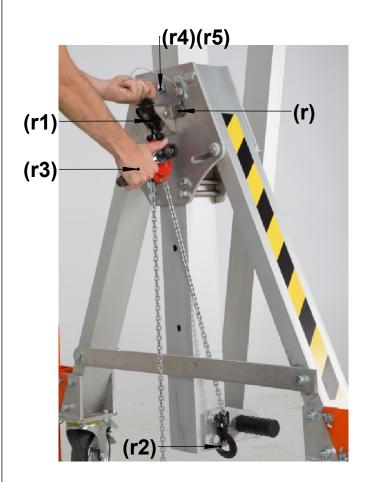
- Repeat above instructions for second support.

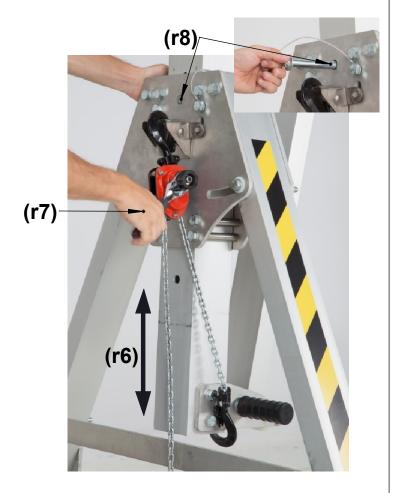


6-A. BEAM HEIGHT ADJUSTMENT (USING CHAIN HOIST)

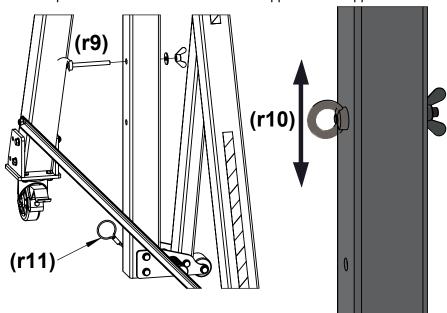
- Hang chain hoist grip on support side plate using two holes (r). Install chain hoist on the chain hoist grip (r1).

- Attach the chain hoist hook to the bottom edge of the vertical part of the support (r2). Pull up the chain and lock the mechanism (r3) so that the bolt with cotter pin was moveable (r4).
- Be sure that the chain hoist mechanism is locked and hook properly attached to the bottom edge of the vertical part of the support.
- Remove the bolt with cotter pin (r5).
- Adjust (up or down) height of the vertical part of the support (r6) using chain hoist lever (r7).
- Insert bolt throught the support side plates and secure it with cotter pin (r8).





- If the chain is too short to attach it to the bottom edge of the vertical part of the support ASB500-370 hitch can be used (r9). Hitch should be installed on hole of the vertical part of the support. Chain hoist hook should be attached to the hitch ear (r10).
- Hook of the chain hoist can be attached to the small steel rope installed on vertical part of the support bottom (r11).
- Repeat above instruction for second support. Both supports must be set at the same height!



BOTH VERTICAL PARTS OF THE SUPPORT SHOULD BE RAISED POSSIBLY EVENLY!

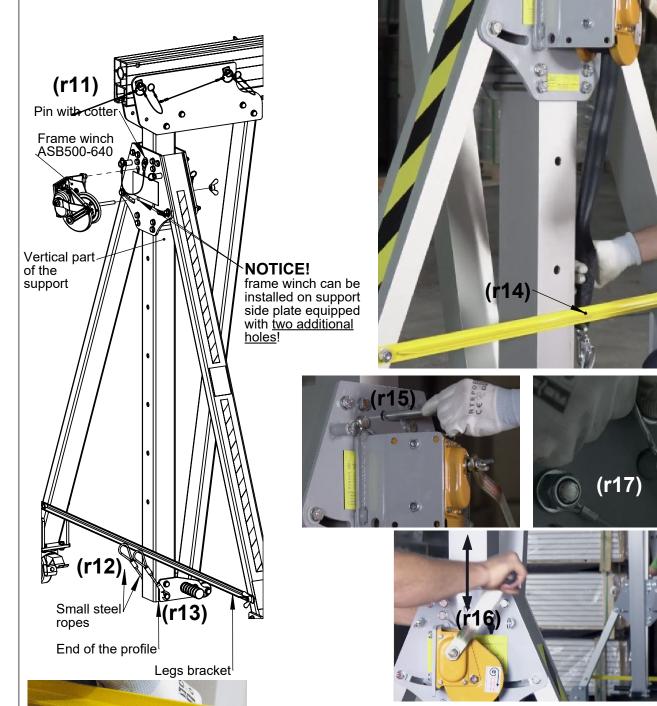
6-B. BEAM HEIGHT ADJUSTMENT (USING FRAME WINCH ASB500-640)Install frame winch ASB500-640 on the side plate holes using wing nut (r11).

- Start extending strap from the winch and attach connector to the:

 end of the small steel rope (r12) located on the lower end of the vertical part od the support,
- or to the end of the profile (r13).

 BE SURE that strap is located behing (inside the ASB/LSB device) the legs bracket (r14).

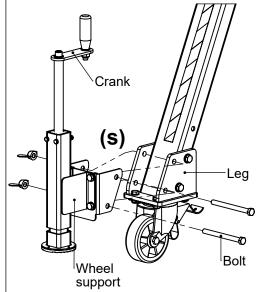
 Tension the strap using winch handle and remove pin with cotter (r15).
- Start adjusting support (frame) height using winch handle (r16). After adjusting pin must be installed and secured with cotter!(r15, r17).
- NEVER USE ASB/LSB DEVICE IF THE VERTICAL PART OF THE SUPPORT (FRAME) HANGS ON THE FRAME WINCH ONLY!!!

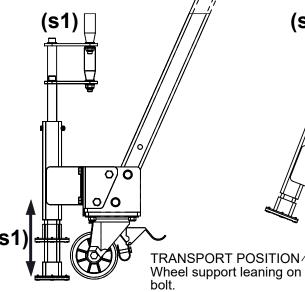


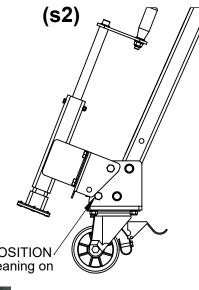
BOTH VERTICAL PARTS OF THE SUPPORT SHOULD BE RAISED POSSIBLY EVENLY!



- 7-A. WHEEL SUPPORT INSTALLATION
 It is recommended to use additionally Wheel Support set.
 Attach the wheel support to the leg using two bolts with wing-nuts (s).
 Rotate the crank handle for height adjustment (s1).
 Additional wheel support position used during transport the ASB device. (s2)











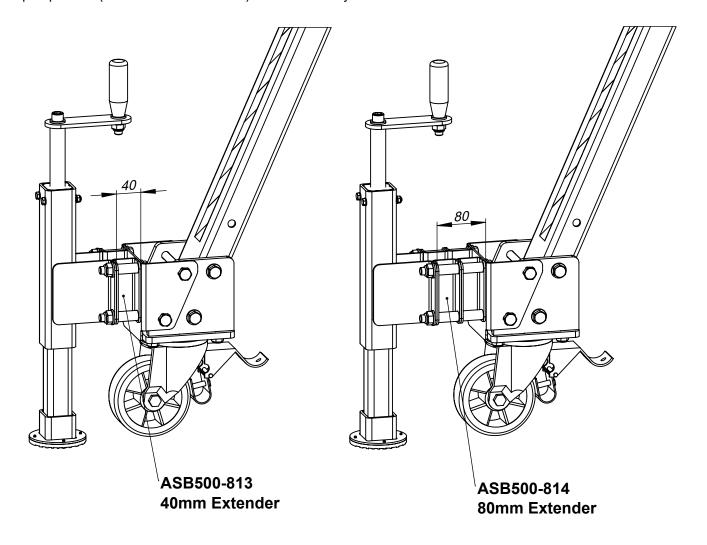


7-B. WHEEL SUPPORT EXTENDER

Distance between wheel and wheel support can be extended using:

- ASB500-813 40mm extender (recommended for W1 160mm diameter wheels) ASB500-814 80mm extender (recommended for W2 200mm diameter wheels)

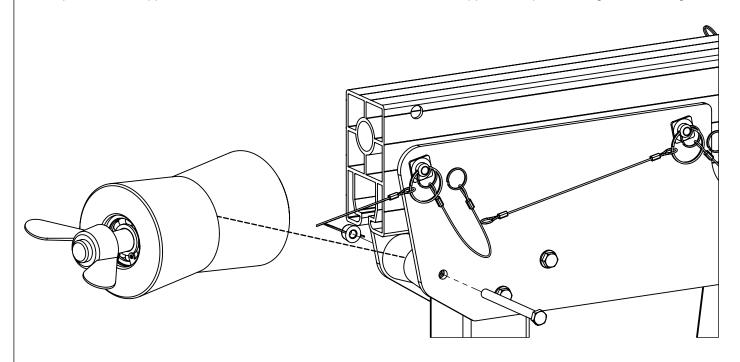
Extenders can be can be used when the device is frequently moved and used continuously with wheel supports. Transport position (described in 7-A section) is not necessary.



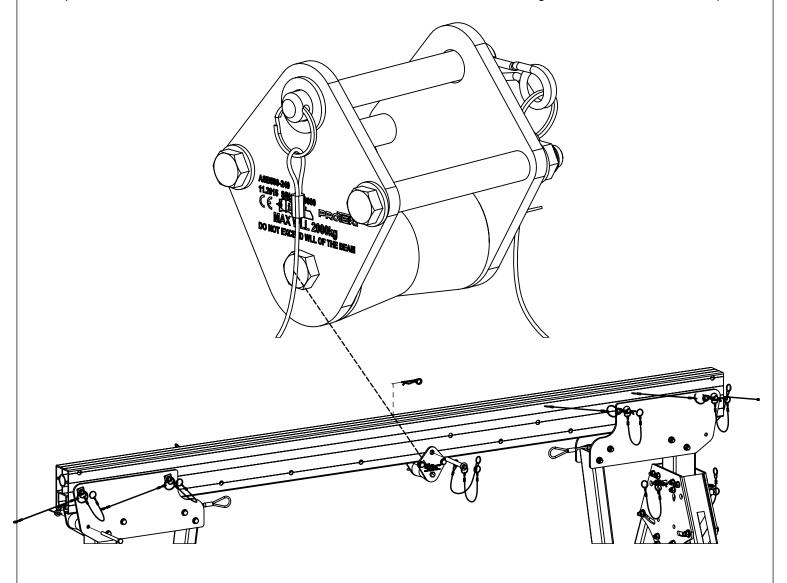
8. ROPE ROLLERS INSTALLATION

ASB device can be used with brake winch. For winch rope guidance two types of rope rollers should be used:

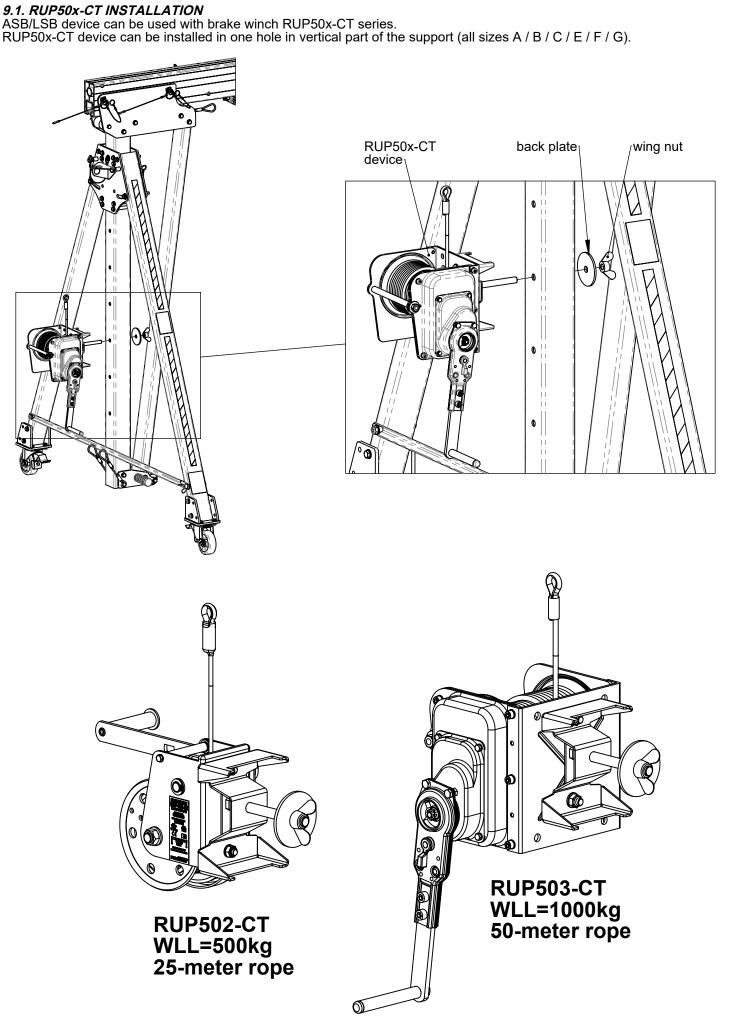
- ASB500-180 rope roller for support ASB500-240 rope roller for beam
- 8.1. Rope roller for support ASB500-180 should be installed between two support front plates using bolt and wing nut.



8.2. Rope roller for beam ASB500-240 should be installed in one hole on the beam using ASB500-130 bolt and cotter pin.

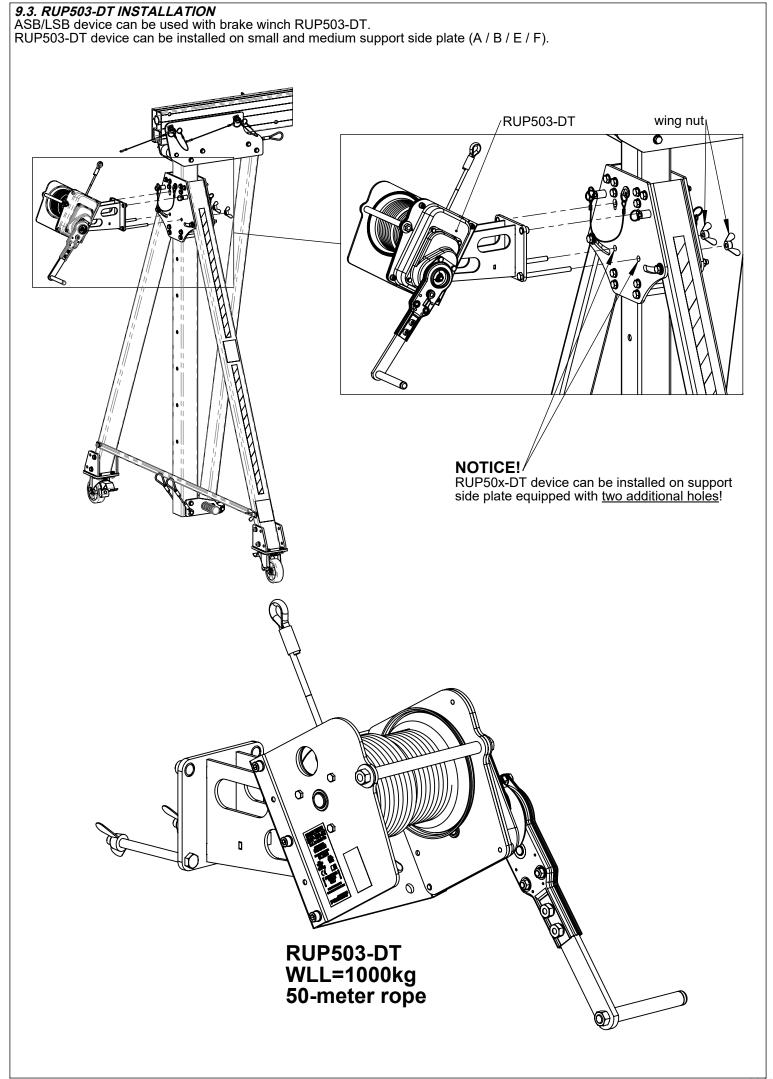


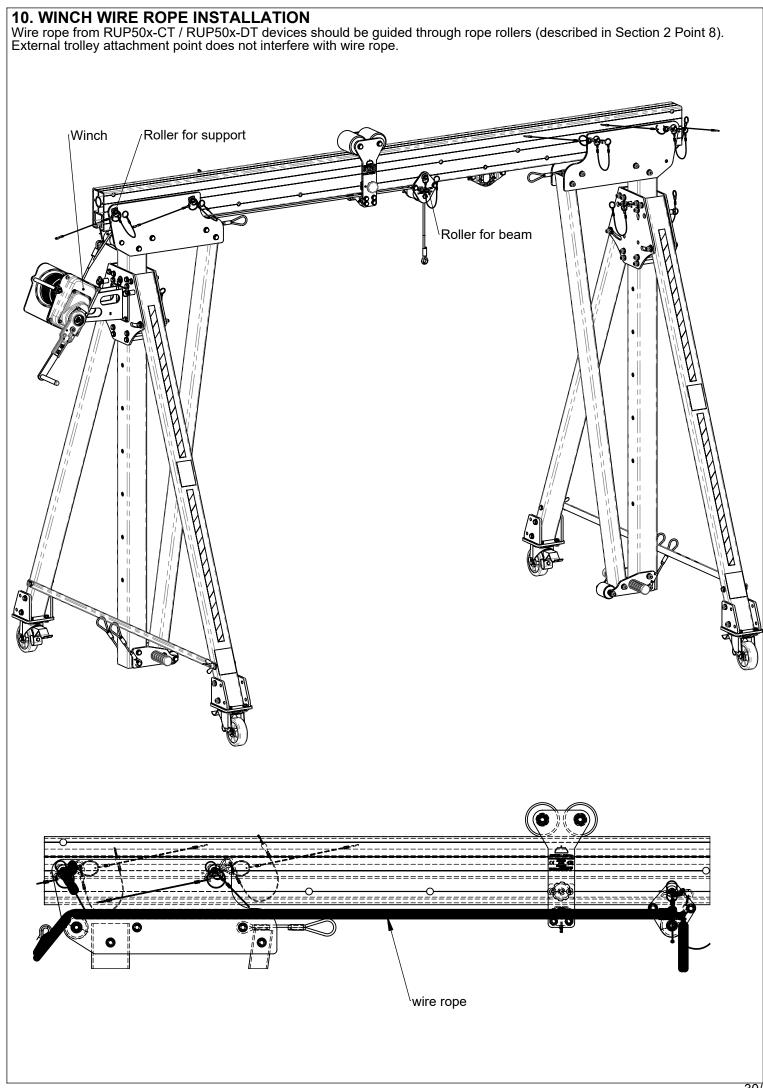
9. BRAKE WINCH INSTALLATION



9.2. RUP502-DT INSTALLATIONASB/LSB device can be used with brake winch RUP502-DT. RUP502-DT device can be installed on small and medium support side plate (A / B / E / F). Ø 0 RUP502-DT wing nut/ 000 **NOTICE!** RUP50x-DT device can be installed on support side plate equipped with <u>two additional holes!</u>

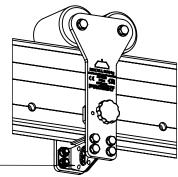
RUP502-DT WLL=500kg 25-meter





SECTION 3 - LIFTING LOADS

External trolley ASB500-200 can be used with ASB/LSB for lifting loads up to Working Load Limit (WLL) indicated on the beam. One beam can be used with more than one external trolley. Loads suspended on several external trolleys MUST NOT exceed WLL indicated on the beam. For personal protection during lifting loads please refer to Section 5.



ASB500-200 EXTERNAL TROLLEY ATTACHMENT POINT FOR LIFTING LOADS lifting loads up to Beam WLL.

DEVICE LOAD CARRYING CAPACITY

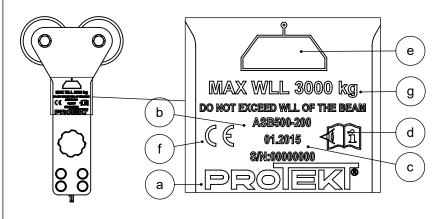
The load hoisted by the ASB/LSB device may be connected to the external trolley attachment point using chain hoists or other lifting devices with appropriate load carrying capacity. External trolley is installed on the beam. Maximum operating carrying capacity of the device is indicated on the beam.

DO NOT exceed Working Load Limit (WLL) indicated on the beam.

GENERAL PRECAUTIONS FOR LIFTING LOADS

- ASB/LSB device is used for lifting and lowering loads weighing up to WLL indicated on the beam.
- External trolley is not an emergency device for lifting people and it should not be used for this purpose.
- Do not use a ASB/LSB device contrary to its intended use.
- Do not lift loads over an area occupied by people.
- Do not change the device design, repair or replaceable elements included in the kit.
- Before each use of the device, carry out thorough inspection to check the device condition and proper operation. Carefully check all parts, paying particular attention to any damage, excessive wear, corrosion, abrasion, cuts and malfunction.
- The device must be immediately withdrawn from use if there is any doubt about the condition of the device or its operation. The device may be readmitted for use only after a manufacturer's detailed inspection, and manufacturer's written consent for its use.
- Position ASB device on a flat, hard and stable surface, free of loose materials, such as rocks, debris etc.
- Check the stability of the load attached to the internal trolley attachment point or cable, on which it is hoisted, to prevent accidental detachment of any of the elements.
- The use of the device with other devices (such as devices for lifting and lowering loads) must be in accordance with the instruction for use of these devices.
- It is forbidden to use the kits in which the ASB/LSB device is included, in which the operation of any component disrupts the operation of other components.
- In case of any doubts as to the condition and usage of this device, please contact the manufacturer of the device.
- Avoid working where user may swing and hit an object or where lines may cross or tangle with that of another worker in the area.

EXTERNAL TROLLEY MARKING



CONTENT OF EXTERNAL TROLLEY MARKING:

- a) Marking of the manufacturer or distributor.
- b) Model symbol / reference number.
- c) Month and year of manufacture / Serial number.
- d) Caution: read the manual.
- e) Device for lifting loads.
- f) CE marking. g) Maximum Working Load Limit notice.

SECTION 4 PERSONAL PROTECTION ACCORDING TO EN 795 AND TS 16415

ASB/LSB with internal trolley (ASB500-250) can be used as a temporary anchorage according to EN 795 and TS 16415.

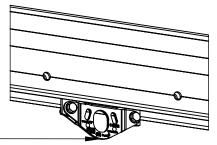
ASB device provides protection for maximum five people at the same time.

ASB with combined beam provides protection for maximum two people at the same time.

LSB device provides protection for maximum three people at the same time.

For personal protection during lifting loads please refer to Section 5.

ASB500-250 INTERNAL TROLLEY ATTACHMENT POINT FOR PERSONAL PROTECTION one person (EN 795)



ASB MAX 5 pcs. LSB MAX 3 pcs.

RULES FOR PERSONAL PROTECTION:

- ONE internal trolley can be used by ONE person at the same time.
- For ASB maximum FIVE people can be attached to the available attachment points at the same time.
- 3. For ASB combined beam TWO people can be attached to the available attachment points at the same time.
- 4. 5. For LSB maximum THREE people can be attached to the available attachment points at the same time.
- Anchor points designed for personal protection should ONLY be used for personal fall protection equipment and NOT for lifting equipment.

GENERAL PRECAUTIONS

- AVOID working where the user may swing and hit an object or where lines may cross or tangle with that of another worker
- Fall arrest and rescue systems used with this device MUST MEET applicable EN standards requirements (EN 795 for anchor devices; EN 362 for connectors; EN 361 for full body harnesses; EN 360 for retractable type fall arresters; EN 1496 for rescue lifting devices; EN 1497 for rescue harnesses; EN 341 for descender devices).
- The Maximum Arrest Force (MAF) to which a user of a Fall Arrest System (FAS), who wears a full body harness, is exposed during an arrest of his/her fall is limited by law 6 kN in EU. The system used to protect user against fall from height must include fall protection equipment reducing the Maximum Arrest Force, acting on the user while arresting the fall, to maximum value of 6kN (e.g. fall safety energy absorber with lanyard or retractable fall arrester).

 Make sure that device is installed in a upright position on a flat, stable and hard surface. The surface must support the load.
- DO NOT use ASB device device for more than five people at the same time.
- It is recommended that the device should be transported and installed by minimum two people.
- The anchor device or anchor point for the fall arrest system should always be positioned, and the work carried out in such a way, as to minimize both the potential for falls and potential fall distance. The anchor device/point should be placed above the position of the user. The shape and construction of the anchor device/point shall not allowed to self-acting disconnection of the equipment. Minimal static strength of the anchor device/point is 12 kN. It is recommended to use certified and marked structural anchor point complied with EN 795.

THE ESSENTIAL PRINCIPLES OF USE OF PERSONAL PROTECTIVE EQUIPMENT

- Personal Protective Equipment (PPE) shall only be used by a person trained and competent in its safe use.
- PPE must not be used by a person with medical condition that could affect the safety of the equipment user in normal and
- A rescue plan shall be in place to deal with any emergencies that could arise during the work.
- It is forbidden to make any alterations or additions to the equipment without the manufacturer's prior written consent.
- Any repair shall only be carried out by equipment manufacturer or his certified representative.
- PPE shall not be used outside its limitations, or for any purpose other than that for which it is intended.
- PPE should be a personal issue item.
- Before use ensure about the compatibility of items equipment assembled into fall arrest system. Periodically check connecting and adjusting of the equipment components to avoid accidental loosening or disconnecting of the components.
- It is forbidden to use combinations of items of equipment in which the safe function of any one item is affected by or interferes with the safe function of another.
- It is essential for the safety of the user that if the product is re-sold outside the original country of destination the reseller shall provide instruction for use, for maintenance, for periodic examination and for repair in language of the country in which the product is to be sold.
- A full body harness (conforming EN 361) is the only acceptable body holding device that can be used in a fall arrest system.
- On full body harness use only attaching points marked with big letter "A" to attach a fall arrest system.
- It is obligatory to verify the free space required beneath the user at the workplace before each occasion of use the fall arrest system, so that, in the case of a fall, there will be no collision with the ground or other obstacle in the fall path. The required value of the free space should be taken from instruction manual of used equipment.
- There are many hazards that may affect the performance of the equipment and corresponding safety precautions that have to be observed during equipment utilization, especially:
 - trailing or looping of lanyards or lifelines over sharp edges,
 - any defects like cutting, abrasion, corrosion,
 - climatic exposure, pendulum falls,

 - extremes of temperature.
 - chemical reagents,
 - electrical conductivity.

INSPECTION

Before each use of personal protective equipment it is obligatory to carry out a pre-use check of the equipment, to ensure that it is in a serviceable condition and operates correctly before it is used.

During pre-use check it is necessary to inspect all elements of the equipment in respect of any damages, excessive wear, corrosion, abrasion, cutting or incorrect acting, especially take into consideration:

- in full body harnesses and belts buckles, adjusting elements, attaching points, webbings, seams, loops;
- in energy absorbers attaching loops, webbing, seams, casing, connectors;
- in textile lanyards or lifelines or guidelines rope, loops, thimbles, connectors, adjusting elements, splices;
- in steel lanyards or lifelines or guidelines cable, wires, clips, ferrules, loops, thimbles, connectors, adjusting elements;
- in retractable fall arresters cable or webbing, retractor and brake proper acting, casing, energy absorber, connector;
- in guided type fall arresters body of the fall arrester, sliding function, locking gear acting, rivets and screws, connector, energy absorber;
- in connectors main body, rivets, gate, locking gear acting;
- in tripods legs, safety pins, eye bolts, feet, chain, connecting elements.

PERIODIC INSPECTION

After every 12 months of utilization, personal protective equipment must be withdrawn from use to carry out periodical detailed inspection. The periodic inspection must be carried out by a competent person who has the knowledge and training required for personal protective equipment periodic inspections. The periodic inspection can be carried out also by the manufacturer or his authorized representative. In case of some types of the complex equipment e.g. some types of retractable fall arresters the annual inspection can be carried out only by the manufacturer or his authorized representative.

During this inspection will be established admissible time of the device use till next manufacturer's inspection.

The result of the inspection must be recorded in Identity Card.

Regular periodic inspections are the essential for equipment maintenance and the safety of the users which depends upon the continued efficiency and durability of the equipment.

During periodic inspection it is necessary to check the legibility of the equipment marking.

MAXIMUM LIFESPAN

Maximum lifespan of the ASB500-250 internal trolley is unlimited but its depends on the intensity of usage and the environment of use. Using the device in rough environment, marine, contact with sharp edges, exposure to extreme temperatures or agressive substances, etc. can lead to the withdrawal from use even after one use.

WITHDRAWAL FROM USE

Personal protective equipment must be withdrawn from use immediately when any doubt arise about its condition for safe use and not used again until confirmed in writing by equipment manufacturer or his representative after carried out the detailed inspection.

WITHDRAWN FROM USE AFTER ARRESTING A FALL

Device must be withdrawn from use immediately when it have been used to arrest a fall. After that must be carried out detailed manufacturer's inspection of the tripod.

The manufacturer's inspection can be carried out by:

- manufacturer
- person recommended by manufacturer
- company recommended by manufacturer.

During this inspection will be established if the tripod can be longer used and will be define the admissible time of tripod use till next manufacturer's inspection and recorded in Identity Card.

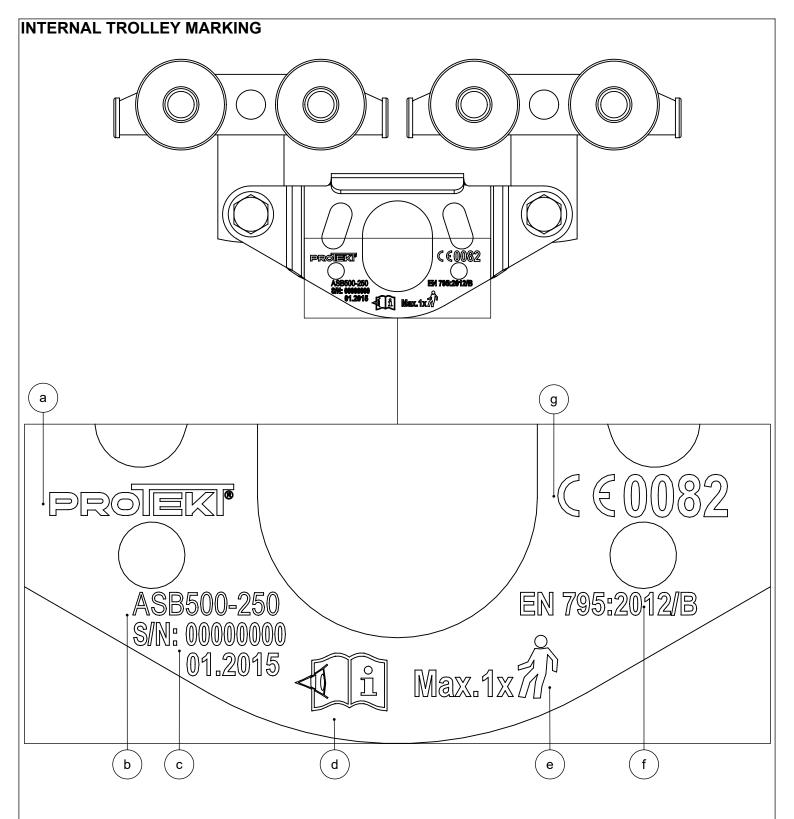
TRANSPORTATION

Personal protective equipment must be transported in the package (e.g.: bag made of moisture-proof textile or foil bag or cases made of steel or plastic) to protect in against damage or moisture.

MAINTENANCE AND STORAGE

The equipment can be cleaned without causing adverse effect on the materials in the manufacture of the equipment. For textile products use mild detergents for delicate fabrics, wash by hand or in a machine and rinse in water. Plastic parts can be cleaned only with water. When the equipment becomes wet, either from being in use or when due cleaning, it shall be allowed to dry naturally, and shall be kept away from direct heat. In metallic products some mechanic parts (spring, pin, hinge, tec.) can be regularly slightly lubricated to ensure better operation. Other maintenance and cleaning procedures should be adhered to detailed instructions stated in the manual of the equipment.

Personal protective equipment should be stored loosely packed, in a well-ventilated place, protected from direct light, ultraviolet degradation, damp environment, sharp edges, extreme temperatures and corrosive or aggressive substances.



CONTENT OF INTERNAL TROLLEY MARKING: a) Marking of the manufacturer or distributor.

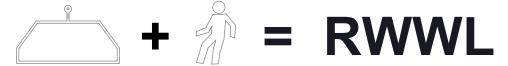
- b) Model symbol / reference number.
 c) Month and year of manufacture / Serial number.
 d) Caution: read the manual.

- e) Maximum number of users permitted simultaneously.
 f) Number / year / type of the European standard.
 g) CE marking and number of the notified body controlling manufacturing of the equipment.

SECTION 5 LIFTING LOADS AND PERSONAL PROTECTION AT THE SAME TIME

Before read this section please refer to Section 3 and Section 4 (All recommendations contained in these Sections apply in Section 5).

- ASB/LSB device can be used for lifting/lowering loads and personnel protection at the same time.
- For lifting loads external trolley and other lifting equipment can be used.
- For personal protection internal trolley can be used.
- When personnel is protected using internal trolley(s) during lifting/lowering load(s) Working Load Limit (WLL) indicated
 on the beam must be reduced to the Reduced Working Load Limit (RWLL). RWLL depends on the amount of protected
 employees.



PERMITTED CONFIGURATION	REDUCED WORKING LOAD LIMIT RWLL =
Lifting loads only	RWLL =
Lifting loads + 1 person protected	= WLL - 600kg
Lifting loads + 2 people protected	= WLL - 650kg
Lifting loads + 3 people protected	= WLL - 700kg
Lifting loads + 4 people protected	= WLL - 750kg
Lifting loads + 5 people protected	= WLL - 800kg

IF RWLL VALUE IS NEGATIVE THE DEVICE CANNOT BE USED FOR LIFTING/LOWERING LOADS AND PERSONNEL PROTECTION AT THE SAME TIME.

example 1:

WLL indicated on the ASB 6-meter beam = 2000kg

3 people protected on three internal trolleys

 $R\dot{W}L\dot{L} = \dot{W}LL - 700kg = 2000kg - 700 kg = 1300 kg$

results: device can be used at the same time for personnel protection (3 people) and for lifting/lowering loads (up to 1300kg).

example 2:

WLL indicated on the LSB 7-meter beam = 500kg 3 people protected on three internal trolleys

 $R\dot{W}L\dot{L} = \dot{W}LL - 700kg = 500kg - 700 kg = -200 kg$

results: device CANNOT BE used at the same time for personnel protection and for lifting/lowering loads.

GENERAL PECAUTIONS:

- DO NOT exceed Reduced Working Load Limit (RWWL) during lifting/lowering loads when the people are protected using internal trolleys.
- <u>LSB device CANNOT be used for lifting/lowering loads and personnel protection at the same time if RWLL</u>
 value is negative.
- For personal protection please refer to Section 4!
- For lifting loads please refer to Section 3!

RWLL VALUE [kg] DEPENDING ON BEAM LENGTH AND NUMBER PROTECTED USERS

	DEI ENDING ON BEAM EENGTH AND NOMBERT ROTEGIES GOERG												
		WLL material only		RWLL 1 person		RWLL 2 people		RWLL 3 people		RWLL 4 people		RWLL 5 people	
	ASB	LSB	ASB	LSB	ASB	LSB	ASB	LSB	ASB	LSB	ASB	LSB	
2m beam	3000	1750	2400	1150	2350	1100	2300	1050	2250	1000	2200	950	
3m beam	3000	1500	2400	900	2350	850	2300	800	2250	750	2200	700	
4m beam	3000	1250	2400	650	2350	600	2300	550	2250	500	2200	450	
5m beam	2500	1000	1900	400	1850	350	1800	300	1750	250	1700	200	
6m beam	2000	750	1400	150	1350	100	1300	50	1250	n/a	1200	n/a	
7m beam	1500	500	900	n/a	850	n/a	800	n/a	750	n/a	700	n/a	

n/a - not applicable

SECTION 6 - RESCUE ACCORDING TO EN 1496/B

GENERAL PECAUTIONS FOR RESCUE:

- Secondary fall arrest system (conforming EN 363) must be used when working with ASB/LSB and RUP 50x-C / RUP50x-D / CRW300 / CRW300.
- Fall arrest and rescue system used with this device MUST MEET applicable EN standards requirements (EN 795 and TS 16415 for anchor devices; EN 362 for connectors; EN 361 for full body harnesses; EN 360 for retractable type fall arresters; EN 1496 for rescue lifting devices; EN 1497 for rescue harnesses; EN 341 for descender devices).

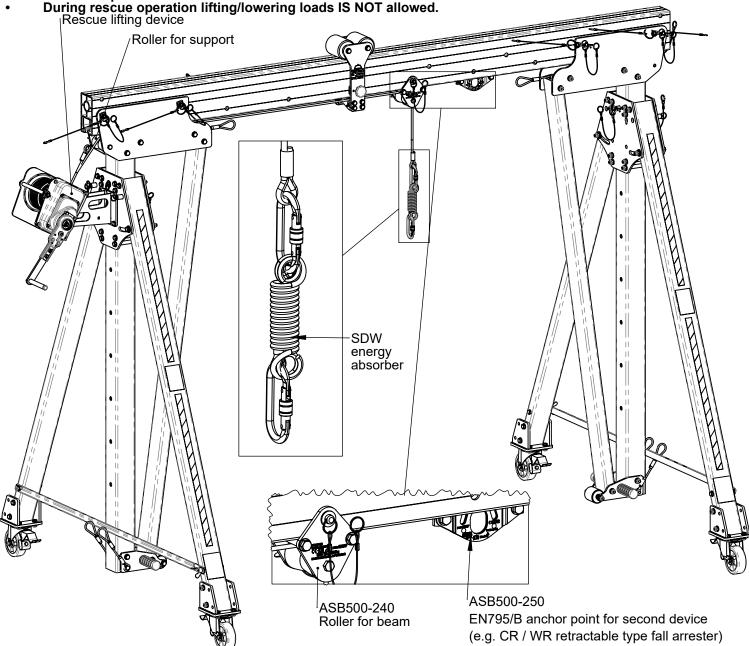
USAGE ASB DEVICE FOR RESCUE PURPOSES

- ASB/LSB device can be used for rescue purposes in conjuction with RUP 50x-C / RUP 50x-D rescue lifting devices and CRW200 / CRW300 rescue lifting device.
- RUP50x-D devices can be installed only on supports side plates equipped with two additional holes please refer to Section 2 Points 9.2 and 9.3.

- Rescue lifting device rope installation please refer to Section 2 Point 10.

 CRW200 / CRW300 device installation please refer to Section 6.

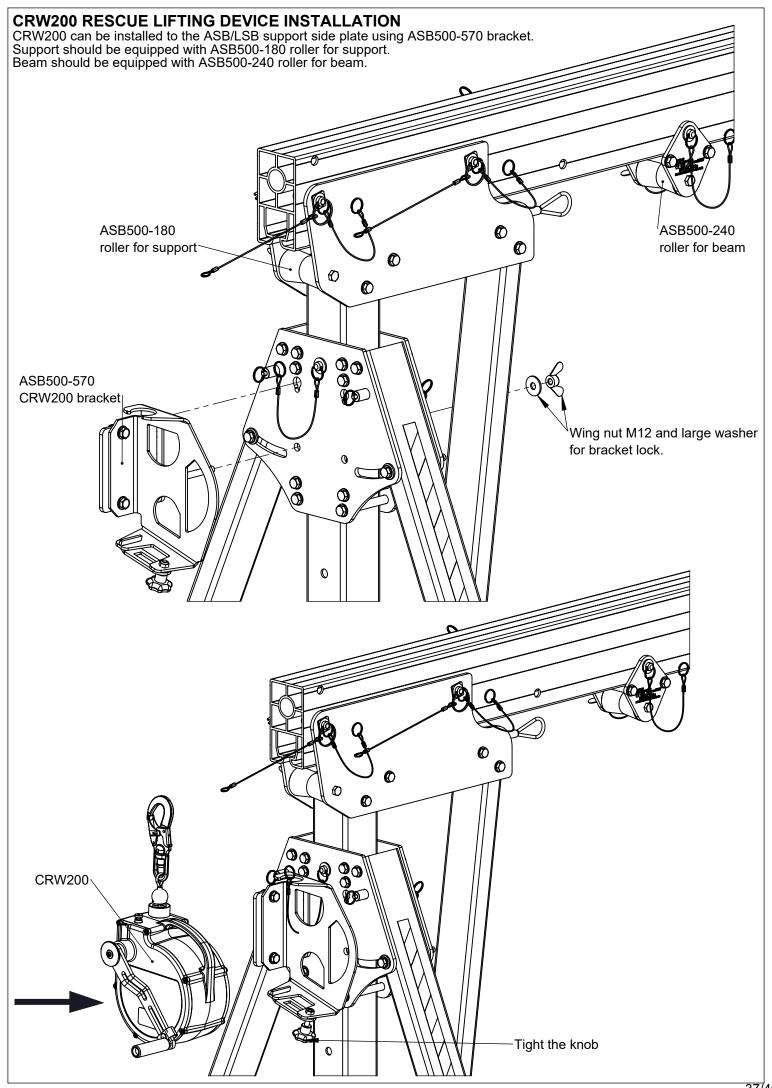
 RUP50x-C / RUP 50x-D Rescue lifting device MUST BE used with SDW energy absorber installed on the end of the wire rope!

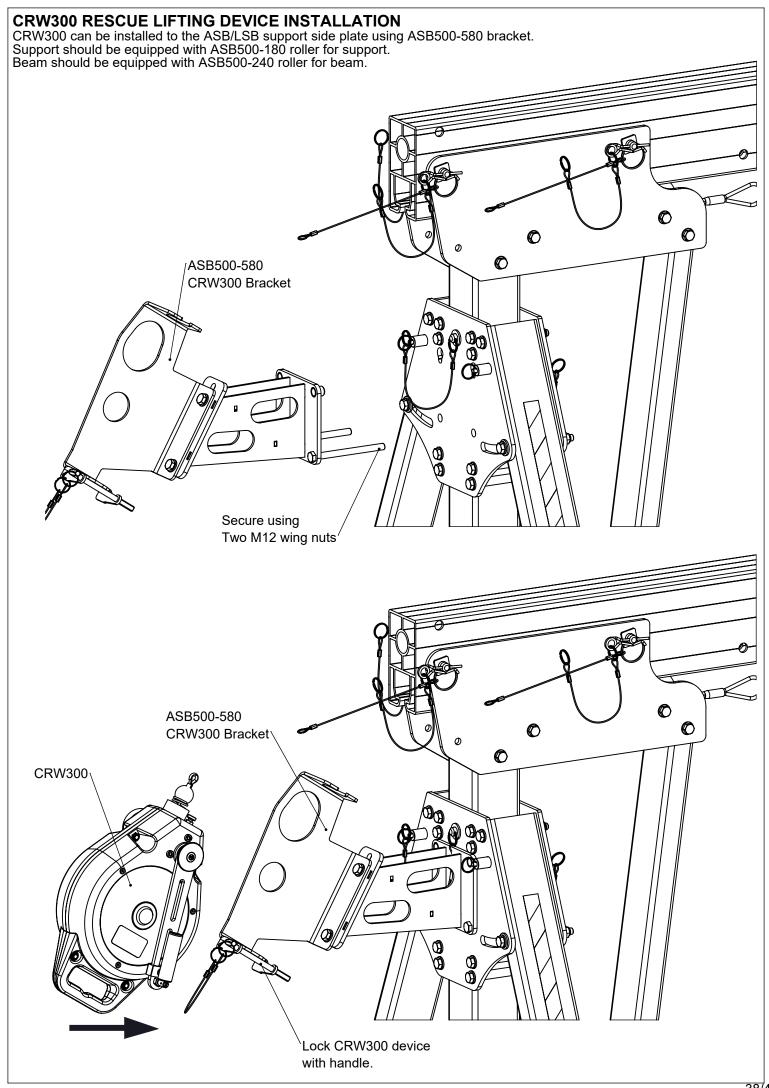


USE LIFTING EQUIPMENT AS PERSONAL PROTECTIVE EQUIPMENT

This device can be used as a personal protective equipment exceptionally according to Directive 2009/104/EC Annex II section 3.1.2.

- While workers are on work equipment designed for lifting loads the control position must be manned at all times.
- Persons being lifted must have reliable means of communication. In the event of danger, there must be reliable means of evacuating them.
- During rescue action always use SDW energy absorber at the end of the rescue lifting device rope.
- · Absolutely not exceed the Working Load Limit.
- Be particularly careful. Do not overload thee device parts. During the use of equipment for lifting loads for the purpose of personal rescue user must be particularly careful and frequently check the condition of components of the set (rope, pulleys, anchor points).
- For personal rescue purposes safety factor must be, at least 10:1.
- For safety reasons, is better to use two winches (one for lifting loads and one for personal protective use).





				TITY CARD		
CAF IN B EQL	RD SHOULD BE FI EFORE THE FIRS JIPMENT'S WITHD	Y OF THE USER ORGANISATION TO I LLED IN ONLY BY COMPETENT PERS IT USE OF THE EQUIPMENT. ANY INF DRAWN FROM USE SHALL BE NOTED	SON RESPO FORMATION O. THE IDEN	ONSIBLE FOR PROTECTIVE EG N ABOUT THE EQUIPMENT LIK NTITY CARD SHOULD BE STOR	QUIPMENT. THE IDENTITY CAR E: PERIODIC INSPECTIONS, RI	RD SHOULD BE FILLED EPAIRS, REASONS OF
		T USE THE EQUIPMENT WITHOUT THE REF NUMBER	HE IDENTIT	SE	8 W	
В	EAM S/	'N		_		
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M	ATERIA	AL TROLLEY S/	N			
		MANUFACTU	RE			
		PURCHASE				
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U	SER NA	RIODIC EXAMI	NAT	ION AND DE		DV
	DATE	REASON FOR SERVICING /		EPAIRS CARRIED OUT	NAME AND SIGNATURE OF	DATE OF NEXT
1		KLFAIK			COMPETENT PERSO	ON EXAMINATION
2						
3						
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11						
12						
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IDENTITY CARD

IT IS RESPONSIBILITY OF THE USER ORGANISATION TO PROVIDE THE IDENTITY CARD AND TO FILL IN THE DETAILS REQUIRED. THE IDENTITY CARD SHOULD BE FILLED IN ONLY BY COMPETENT PERSON RESPONSIBLE FOR PROTECTIVE EQUIPMENT. THE IDENTITY CARD SHOULD BE FILLED IN BEFORE THE FIRST USE OF THE EQUIPMENT. ANY INFORMATION ABOUT THE EQUIPMENT LIKE: PERIODIC INSPECTIONS, REPAIRS, REASONS OF EQUIPMENT'S WITHDRAWN FROM USE SHALL BE NOTED. THE IDENTITY CARD SHOULD BE STORAGED DURING A WHOLE PERIOD OF EQUIPMENT UTILIZATION. DO NOT USE THE EQUIPMENT WITHOUT THE IDENTITY CARD.

MODEL AND TYPE OF EQUIPMENT	INTERNAL TROLLEY (for personal protection)
REF. NUMBER	ASB500-250
SERIAL NUMBER	
DATE OF MANUFACTURE	
DATE OF PURCHASE	
DATE OF FIRST USE	
USER NAME	
·	

PERIODIC EXAMINATION AND REPAIR HISTORY

	DATE	REASON FOR SERVICING / REPAIR	REPAIRS CARRIED OUT	NAME AND SIGNATURE OF COMPETENT PERSON	DATE OF NEXT EXAMINATION
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

PRODUCER: