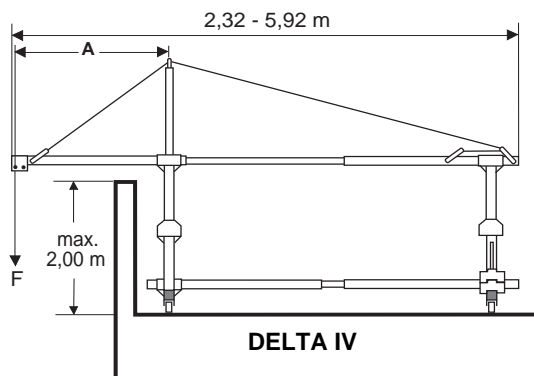
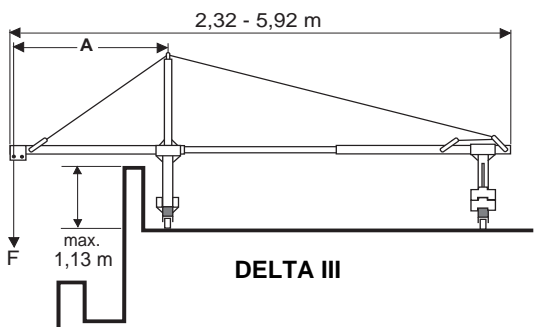
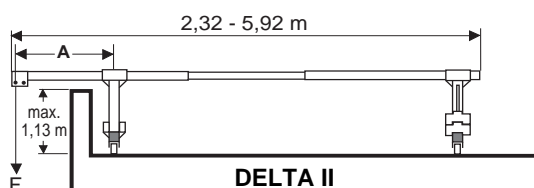
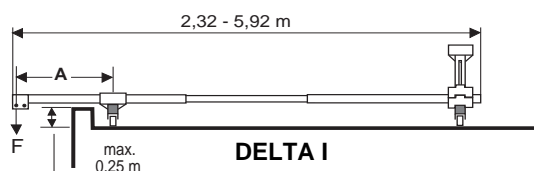


*replaces sheets T-482-12/95 (DELTA) and T-176-10/91 (parapet clamps)

In most applications, it is possible to use a system of mobile suspension jibs in the roof for the attachment of temporary suspended platforms.

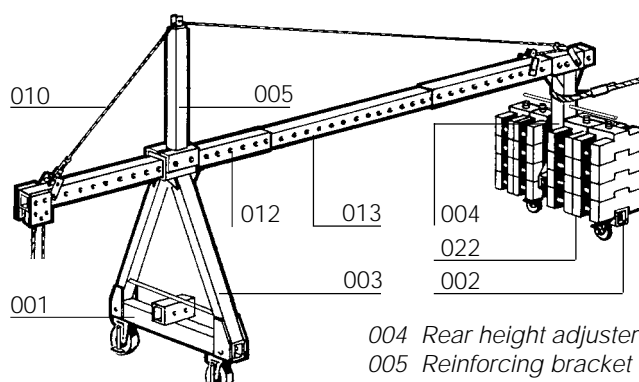
We offer the following solutions.

CE The equipment conforms to EU Directives and is manufactured in accordance with ISO 9002.



1. DELTA SUSPENSION JIBS

DELTA suspension jibs have been designed specially for use with our ALTA and TANGOR suspended platforms. Following the instructions of this technical sheet, they can also be used for suspending other types of platform.



001 Front crossbar
002 Rear crossbar
003 Front height adjuster

004 Rear height adjuster
005 Reinforcing bracket
010 Guying wire rope
012 End jib
013 Intermediate jib
022 Cast iron counterweight

1.1. Standard configurations

DELTA jibs are made up of components which give the following standard assemblies. The stability of the jibs is provided by counterweights.

DELTA I – The telescopic jib (012/013) is mounted directly on the front (001) and rear (002) crossbars. It can be moved on the castor wheels. This assembly is only for use on parapets not exceeding 25 cm.

DELTA II – A height adjuster (003/004) is fitted to both the front and rear crossbars, to allow the telescopic jib to pass over obstacles up to 1.13 m high (chimneys, ventilation shafts, parapets, etc.).

DELTA III – Fitted with a reinforcing bracket (005) and guying wire rope (010), this model is recommended for longer overhangs.

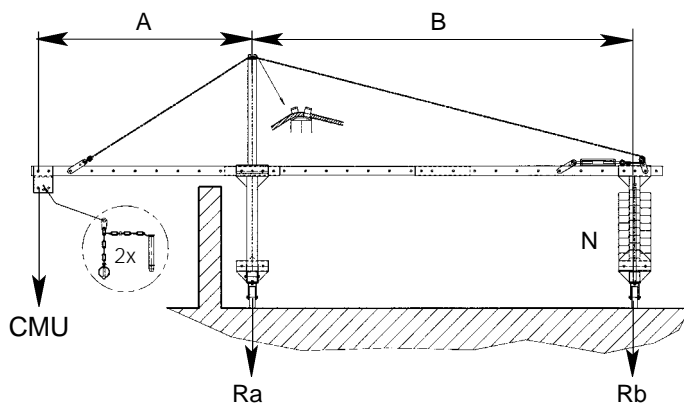
DELTA IV – Fitted with two additional height adjusters (004) on the front and rear crossbars, with a second complete set of telescopic jibs (012/013) and crossbar extensions to increase the distance between the front wheels, this model is able to pas over obtacles up to 2 m high.

*replaces sheets T-482-12/95 (DELTA) and T-176-10/91 (parapet clamps)

1.2. Maximum permitted overhang (A)

working load limit (WWL)* per jib	DELTA I + II	DELTA III + IV
300 kg	1,00 m	2,00 m
500 kg	0,80 m	2,00 m
700 kg	-	1,40 m
800 kg	-	1,20 m

***Maximum loading* should be taken to mean the nominal capacity of the hoist and not the actual suspended load.
The loads indicated above apply to the capacities of our TIRAK hoists X-300, X-500, X-720 and T-1020.*



1.3. Calculation of the number of counterweights

The tables below (page 3/4) illustrate the number of counterweights needed for the different capacities (WLL) depending on the overhang (A) and the distance (B) behind the fulcrum.

The tables show that it is always best to have the maximum distance (B) behind the fulcrum, space permitting, to reduce the number of counterweights, making assembly and dismantling much easier.

It should be noted that the total length of the telescopic jib (A + B) should not exceed 5.60 m.

1.4. Installation and operating advice

- Before assembly of the DELTA mobile suspension jibs, always check to ensure that the roof is suitable to take the relevant loadings. If necessary check the loadings with the authorities responsible for the building.
- Adjust the jib centres to suit the stirrup centres of the platform used.
- The traversing castors should always stand on planks to protect the roof covering and the weatherproofing, as well as to spread the loadings more evenly, and facilitate moving the jib.
- Never allow the jibs to rest on the parapet.
- When assembly is complete, lock the brake on the castor wheels.
- The jibs must be completely assembled and fitted with all the required counterweights before the platform is attached to the jibs.
- Conversely, the platform should be detached from the jibs before the counterweights are removed.
- Regularly check the condition of the various components. Use only original manufacturer's spare parts and components.
- The suspension jibs should be anchored at the rear to a fixed point using a sling.

*replaces sheets T-482-12/95 (DELTA) and T-176-10/91 (parapet clamps)

Platforms fitted with TIRAK X-300 hoists. Nominal capacity per hoist: F = 300 kg

Overhang		Distance behind the fulcrum B (m)												Ra max* (kg)	Rb max** (kg)
A	m	1,4	1,6	1,8	2,0	2,4	2,8	3,2	3,6	4,0	4,4	5,0	5,2		
without guy wire	0,4	9	7	6	6	4	4	2	1	1	1	0	0	300	240
	0,6	14	12	11	9	7	5	4	4	3	2	2		310	290
	0,8	19	17	15	13	11	8	7	6	5	4			340	340
	1,0	24	21	19	17	12	10	9	8	7	6			380	390
with guy wire	1,2	30	26	23	20	16	13	11	10	9	8			420	460
	1,4	35	30	27	23	19	16	14	12	10				450	510
	1,6		35	30	27	22	19	16	14	12				470	490
	1,8			34	31	25	21	18	16					480	470
	2,0				34	28	24	21	18					490	460
N = Number of counterweights per jib															

Platforms fitted with TIRAK X-500 hoists. Nominal capacity per hoist: F = 500 kg

Overhang		Distance behind the fulcrum B (m)												Ra max* (kg)	Rb max** (kg)
A	m	1,4	1,6	1,8	2,0	2,4	2,8	3,2	3,6	4,0	4,4	5,0	5,2		
without guy wire	0,4	16	13	12	10	8	7	5	4	3	3	2	2	430	320
	0,6	24	21	19	17	13	10	9	8	7	6	5		490	410
	0,8	33	29	25	23	19	15	13	11	10	9			540	510
with guy wire	1,0		36	32	29	22	19	16	14	13	11			570	530
	1,2				35	28	23	20	18	16	14			590	500
	1,4					33	28	24	21	19				590	470
	1,6						32	28	25	22				590	450
	1,8							32	28					590	450
	2,0							36	31					610	500
N = Number of counterweights per jib															

Platforms fitted with TIRAK X-720 hoists. Nominal capacity per hoist: F = 700 kg

Overhang		Distance behind the fulcrum B (m)												Ra max* (kg)	Rb max** (kg)
A	m	1,4	1,6	1,8	2,0	2,4	2,8	3,2	3,6	4,0	4,4	5,0	5,2		
with guy wire	0,4	23	19	17	15	12	10	8	7	6	5	4	4	590	410
	0,6	35	30	27	24	19	15	13	12	10	9	8		660	550
	0,8			36	32	27	21	19	16	14	13			700	540
	1,0					32	28	24	21	19	17			700	470
	1,2						34	29	26	23	21			720	480
	1,4							35	31	27				730	490
N = Number of counterweights per jib															

Platforms fitted with TIRAK T-1020 hoists. Nominal capacity per hoist: F = 800 kg

Overhang		Distance entre appuis B (m)												Ra max* (kg)	Rb max** (kg)
A	m	1,4	1,6	1,8	2,0	2,4	2,8	3,2	3,6	4,0	4,4	5,0	5,2		
with guy wire	0,4	26	22	20	18	14	12	9	8	7	6	5	5	670	450
	0,6		35	31	27	22	18	15	14	12	11	9		740	540
	0,8					31	25	22	19	17	15			750	460
	1,0						32	28	24	22	19			770	460
	1,2							34	30	27	24			790	480
N = Number of counterweights per jib															

* Ra max = dynamic response **for each front wheel**, with the platform suspended (dynamic coefficient = 1,25). For final response **for each front wheel** (operating load multiplied by a coefficient of 3): multiply the Ra max. values by approximately 2.2.

** Rb max = maximum response **for each rear wheel**, with the platform on the ground.