

# Temporary Suspended Access

for Facades, Bridges, Antennas, Chimneys, Dams, Tanks





ALTA platforms,  
France



ALTA platform  
3 m,  
Luxembourg



ALTA platform  
with monorail  
RAILSCAF, France



ALTA platform 15 m,  
London



ALTA platform 12 m, Brussels



ALTA platforms 18 m, Paris



ALTA platform 8 m with 2 suspensions PORTAFIX, Brussels

# Tractel Secalt™ : throughout the world...


# Tractel Secalt™:


## Access to the most inaccessible areas

 For quick interventions at all heights

- > Facades
  - > Cooling Towers
  - > Chimneys
  - > Antennas
  - > Power stations
  - > Dams
  - > Bridges
  - > Wind mills
- > And buildings of all shapes and sizes

 For transporting people, tools and equipment. It is an all in one platform, combining safe working platform with a lift, avoiding the need for a crane.

 For improved efficiency, working at the optimal height and in the right position.

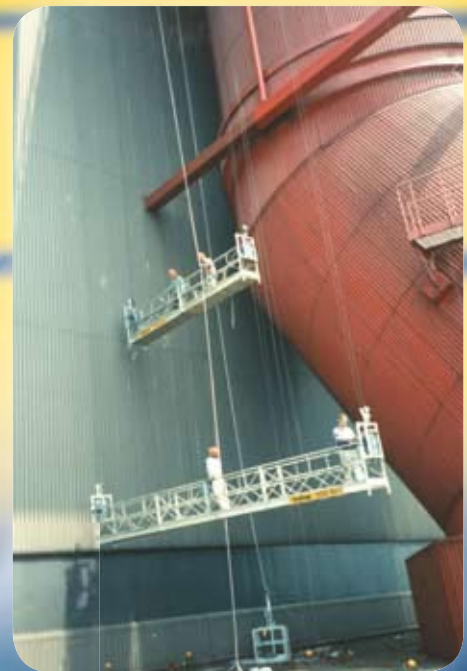
 Tractel Secalt S.A. offers a large range of suspended working platforms.



Air-driven ALTA platforms, offshore platform North Sea



3 ALTA platforms 6 m, cooling tower, Belgium



2 ALTA platforms 6 m and 10 m, Germany



# In every Situation, a T



*Double decked ALTA platform delivered with an overhead crane for load handling (marble plates) and personal lift, Saudi Arabia*



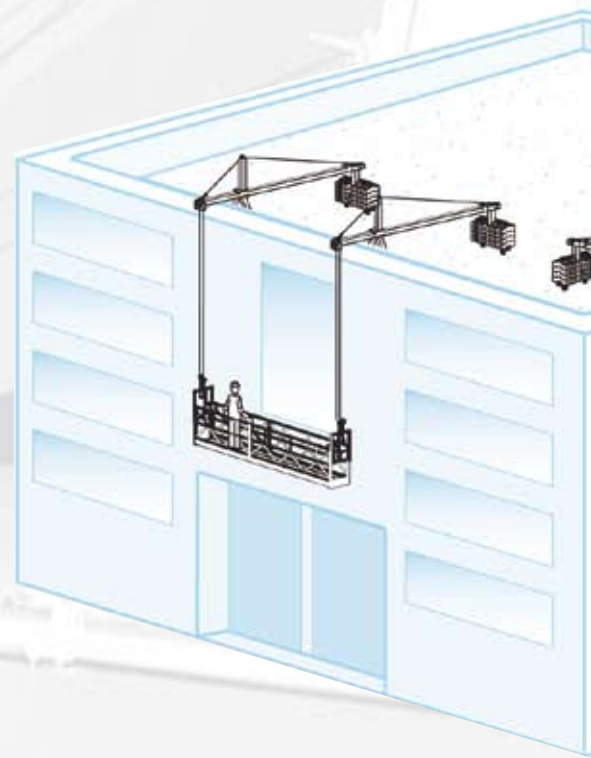
*ALTA platform specially designed for antenna, Germany*



*Circular ALTA platform specially designed Germany*



*Special ALTA platform for dam inspection, Norway*



# tractel Secalt Solution



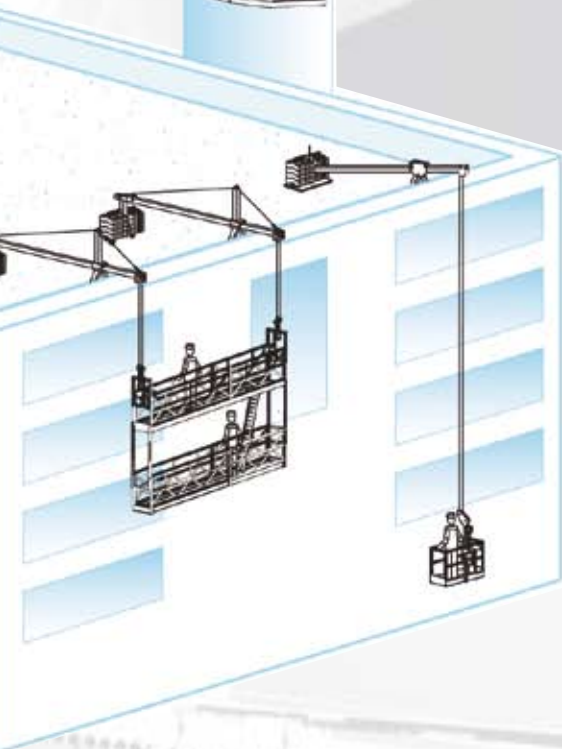
*9 m ALTA platform "C" stirrups and 2 PORTAFIX jibs*



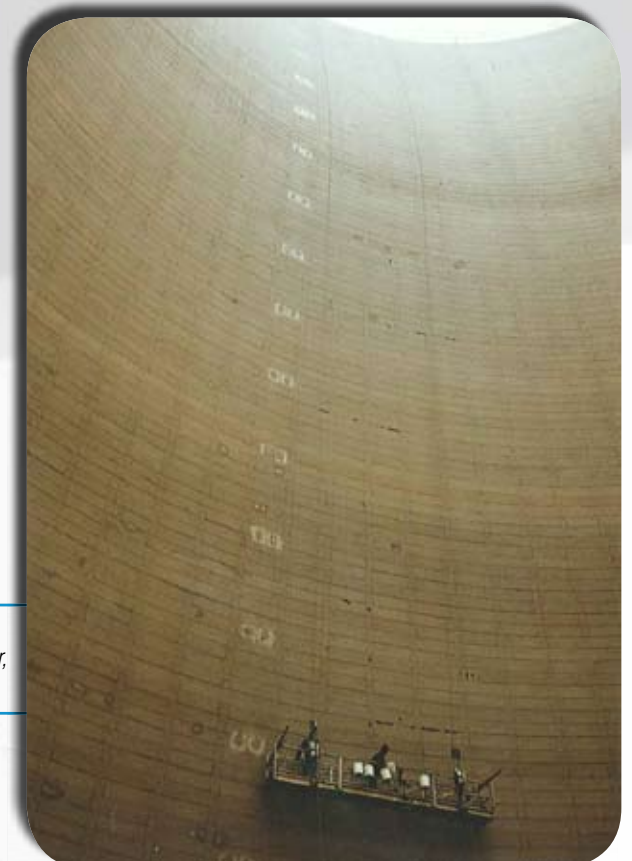
*for refinery tower,*



*4 m ALTA platform on refinery stack, Thailand*



*ALTA platform for cleaning cooling tower, Belgium*



# Assembly, Use

## Suspended Working Platforms

### Description

To install a complete suspended workstation:

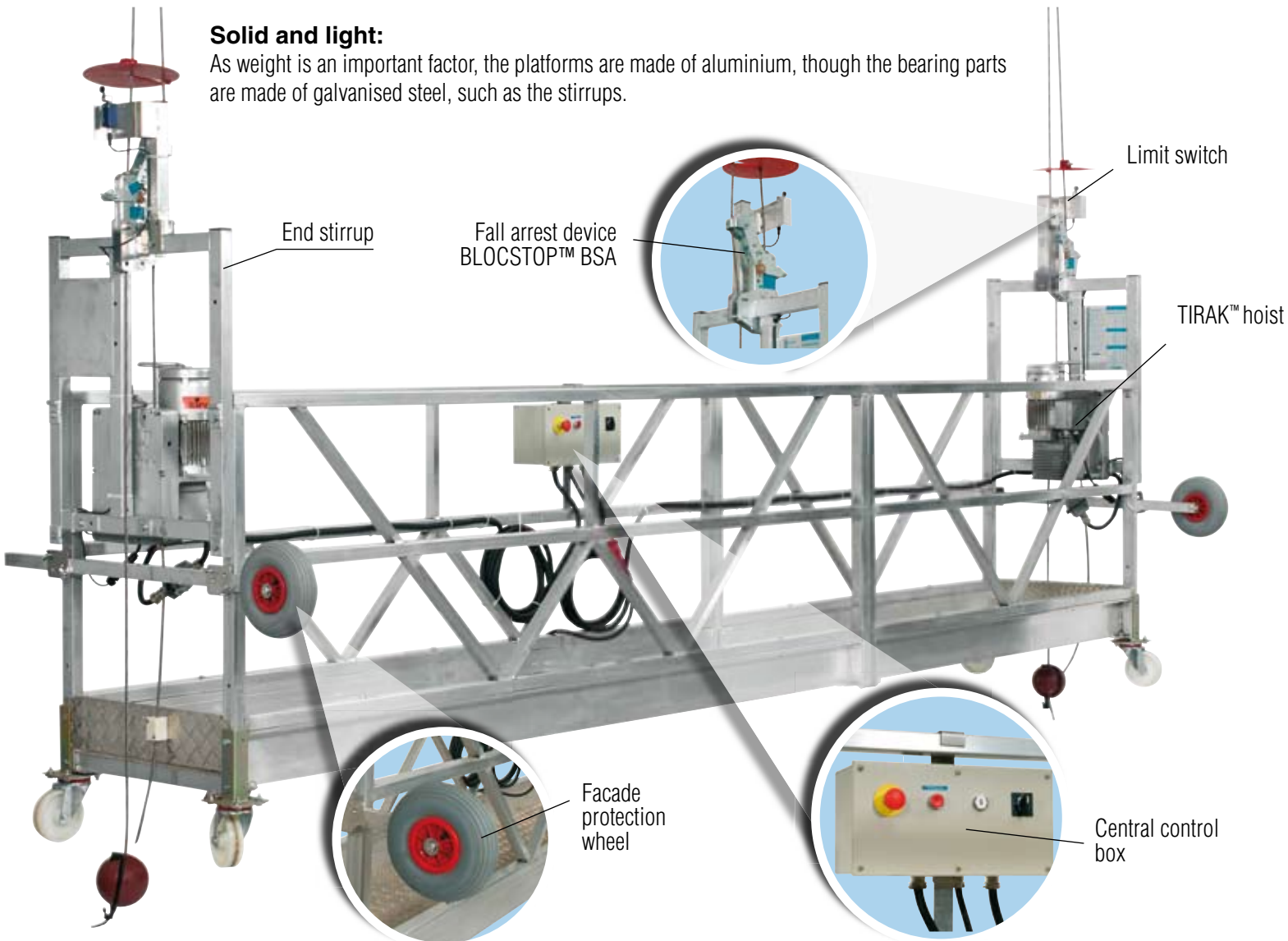
- > an ALTA «L» or «S» platform equipped with either TIRAK™ motorised or SCAFOR™ manual hoists.
- > steel cables connected to supporting PORTAFIX™ jib or OMEGA parapet clamps (see below).

### Modular assembly:

The originality of this design allows working platforms to be built between 2 m and 18 m, by assembling sections of either 2 m or 3 m in length.

### Solid and light:

As weight is an important factor, the platforms are made of aluminium, though the bearing parts are made of galvanised steel, such as the stirrups.



**Two models available depending on the type of work undertaken:**

### ALTA «L»

A model perfectly suited to lightweight applications such as painting and decorating, refurbishing, jointing and repairs, window cleaning etc.

#### Technical details:

- Length: just to 15 m
- Inside width: 0.60 m
- Working load limit: 120 kg/m

### ALTA «S»

The ALTA «S» model is to be used on heavy applications such as facades, chimneys, silos, bridges, etc. It is particularly well suited for rental.

#### Technical details:

- Length: just to 18 m
- Inside width: 0.68 m
- Working load limit: 140 kg/m

# : Ingenuity

## ALTA «L» & ALTA «S»

These platforms offer a real alternative to scaffolding platforms as they can easily access all parts of a building front. They represent an excellent long-term investment as they are light, secure, easy and quick to install.

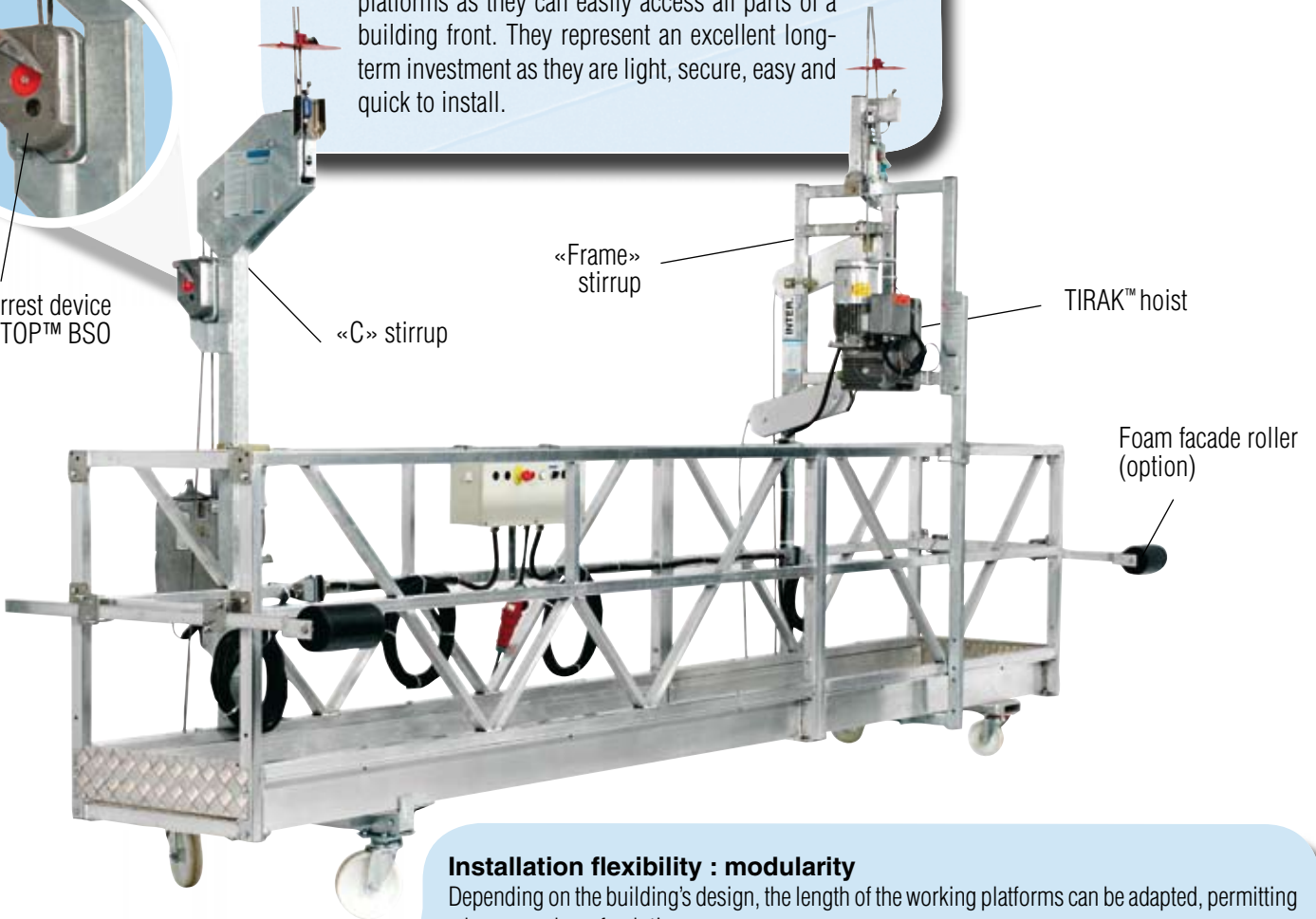
Fall arrest device  
BLOCSTOP™ BSO

«C» stirrup

«Frame»  
stirrup

TIRAK™ hoist

Foam facade roller  
(option)



### Installation flexibility : modularity

Depending on the building's design, the length of the working platforms can be adapted, permitting a large number of solutions.

According to the planned working platform usage (type of work to be undertaken, building design, working weight, number of people etc), Tractel Secalt S.A. offers three types of stirrups for the platform.

#### 1. End stirrups

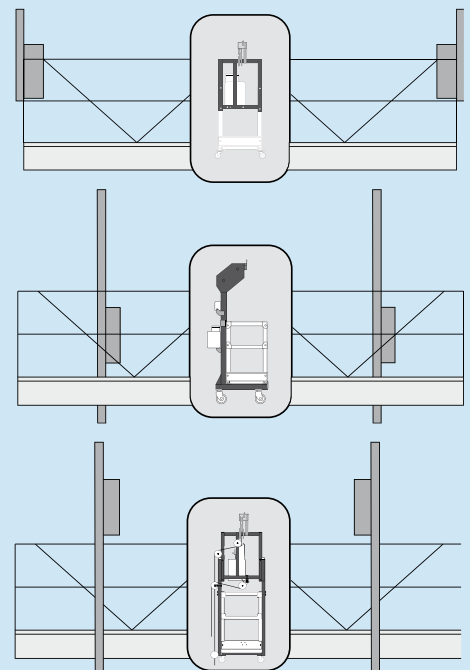
a very economical and lightweight solution just to 12 m in length for ALTA «L» and 15 m for ALTA «S».

#### 2. «C» stirrups

fitted to the external part of the platform, they facilitate access to the building surface and allow the platform to easily access all parts of a building. Maximum length 15 m ALTA «L» and 18 m ALTA «S».

#### 3. «Frame» stirrups

allow easier access to building corners. Its upper part is compatible to the end stirrup. Maximum length 15 m ALTA «L» and 18 m ALTA «S».



# Ergonomics: Cost Reduction

Always suitable solutions thanks to a perfect modularity



## 1 Double decked ALTA platforms

A trusted and proven solution to cover large working surfaces or involving maneuvering of heavy building materials. All the advantages of ALTA «L» & «S» platforms are utilised simply by connecting two platforms into a double decked working platform.

### Technical Information

ALTA «L» maximum length 8 m

ALTA «S» maximum length 10 m

*6 m double decked ALTA platform for building facade*

## 2 Circular platforms

Circular platforms using standard platforms of the ALTA «L» or «S» range combined with angular elements allow access to all surfaces of bridge piers or chimneys.



*Chimney, Germany*



*Wind mill, Germany*

## 3 Maintenance of wind mills

The always innovating TRACTEL® Group is specialised in access equipment for the maintenance of wind power plants (mast, blades, inside access, ...).



# Quick and Efficient

## Our simple and light temporary working platforms

We have a range of simple temporary access machines designed for building inspection, cleaning, repairs, when the work is at height and has to be done quickly.



### SOLO suspended working platform

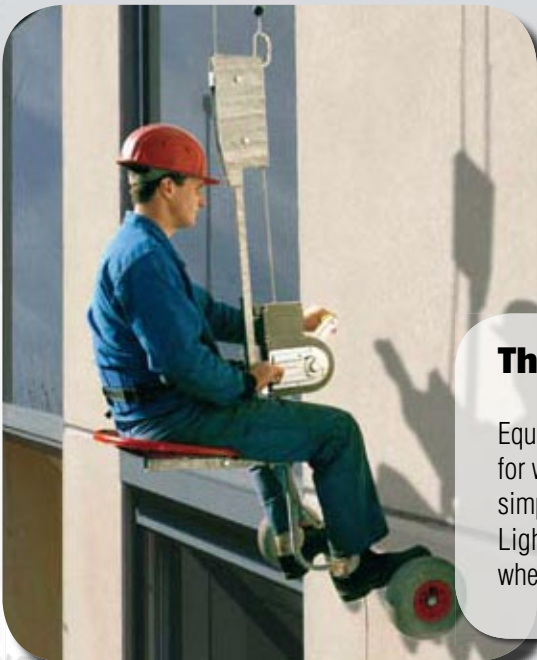
This motorised one-man platform is based on the technique of its sister ALTA «L» platforms. It allows comfortable and quick access to any point of the building facade for one person with material and tools – up to 40 m height. The guiding wheels efficiently prevent the platform from moving.

#### Technical details:

- Material of the platform: aluminium
- Dimensions (L x W x H): 1.14 x 0.89 x 1.17 m
- Overall height: 2.17 m
- Working load: 120 kg.

### The SOLSIT work seat

Supported by a TIRAK™ motorised hoist, the SOLSIT work seat has two buckets for cleaning liquid or tools and guiding wheels.



### The SUBITO work seat

Equipped with the SCAFOR™ manual hoist, the SUBITO work seat is perfect for working on building facades up to 20 m, for inspection, maintenance or simple cleaning tasks.

Light and compact, its operational stability is enhanced by its guiding wheels.

# High Quality Control: Safety

## TIRAK™: The standard for motorised hoists

Thanks to its leading edge technology, its hand built precision, the TIRAK™ motorised hoist has become the standard in wire rope hoists. Constantly being improved, the TIRAK™ is extremely safe, reliable, and is the predominant hoist used by Tractel Secalt S.A. for temporary suspended access.



### TIRAK™ technical information

(Not applicable for North America)

For dimensions and other data refer to the technical sheet

### The TIRAK™ wire rope hoist

- **Extremely reliable due to its innovative design,**

built with the finest quality materials, conforming to EN 1808, safety requirements on suspended access equipment, the most demanding in the world, and to CE directives. All electrical equipment complies with the protection class IP55.

- **Reduced maintenance**

The TIRAK™ has a duty cycle of 100%, is robust and very easy to handle and to maintain, as maintenance has been reduced to a minimum by features such as a lifetime oiled motor.

- **Several models depending on usage**

The electrical motors 50 Hz three-phase 230 / 400 V or mono-phase 230 V are for constant use. Other tensions or two speed motors are available as options.

For hazardous environments at risk from explosion (oil refineries, chemical plants, etc) Tractel Secalt S.A. has the ideal solution in pneumatic motors.

- **Complete safety integration on a single hoist**

Built into the TIRAK™ are a number of complementary safety features such as overload detection device, centrifugal break, electromagnetic motor brake and a manual descent device.

The hoist uses a special high resistance galvanised steel wire rope which is delivered separately either on a spool or drum.

Model	Capacity for lifting people*	Speed	Motor		Cable diameter	Weight of hoist
			Type***	Power		
X-300	300	9	3φ	0.5	8.3	28
X-302	300	18	3φ	0.9	8.3	28
X-301	300	9	1φ	0.5	8.3	29
XA-300	300	4 - 9	A	–	8.3	21
X-400	400	9	3φ	0.7	8.3	29
X-401	400	9	1φ	0.7	8.3	32
X-500	500	9**	3φ	0.9	8.3	39
X-502	500	18**	3φ	1.8	8.3	39
X-501	500	9	1φ	0.9	8.3	43
XA-500	500	4 - 9	A	–	8.3	36
X-820	800	9**	3φ	1.25	9.5	48
X-822	800	18**	3φ	3.5	9.5	60
X-1030	1000	9**	3φ	1.9	10.2	48
XA-1030	1000	4 - 6.5	A	–	10.2	36
X-2050	2000	6	3φ	2.2	14	100
X-2052	2000	12	3φ	5.5	14	110

\* The indicated capacities for man-riding are calculated on the effective breaking strength of the wire rope (safety factor of 8). For countries requiring a higher safety coefficient, the lifting capacity should still be calculated on this basis, bearing in mind that the minimum wire rope breaking strength is 4,800 kg per 8.3 mm cable diameter, 6,800 kg for 9.5 mm, 8,000 kg for 10.2 mm and 16,000 kg for 14 mm.

\*\* Option: for X-500, X-800 and X-1030 series available with three-phase motor and two speeds (4.5 / 9 or 4.5 / 18 or 9 / 18 m/min.)

\*\*\* 3 φ = three-phase 230 / 400 V, 50 Hz, 1500 RPM or 3000 RPM.

1 φ = mono-phase 230 V, 50 Hz, 1500 RPM. Other voltages available.

A = Pneumatic motor, 6 bar pressure, air consumption 1.1 m³/min (XA-300), 1.8 m³/min. (XA-500) or 2.8m³ /min (TA-1020).

# Simple and Light

## The SCAFOR™ manual hoist

The manual SCAFOR™ hoist, which was developed to give maximum security and ease of use at the same time, fits all ALTA, SOLO one man platforms, SUBITO work seat and other platforms, as it can easily be fitted to any stirrups.



### A multitude of advantages:

- As a cable hoist, it is very quick and easy to fit the cable through the hoist, and without a wire drum, the speed and the winding effort remain constant irrespective of height. Working height is only limited to the length of the cable and the cable has a much longer life expectancy as it is not wound onto a drum.
- It only weights 11 kg including all its safety features: small size, easy maintenance and verification, integrated safety device, emergency stop red handle, centrifugal break.

### SCAFOR™ Technical information

*For dimensions and other data refer to the technical sheet*

Model	Dim.	408C
Nominal lifting capacity	kg	400
Effort on each handle for load of 250 kg	kg	7
Unit weight without wire rope	kg	11
Rope travel for one complete cycle	cm	7,5
Diameter of lifting wire rope / safety wire rope	mm	8,3
Breaking strain of wire rope	±kg	4800
Load safety system		yes
Centrifugal break		yes

# Secure Attachment: Adaptability and Stability

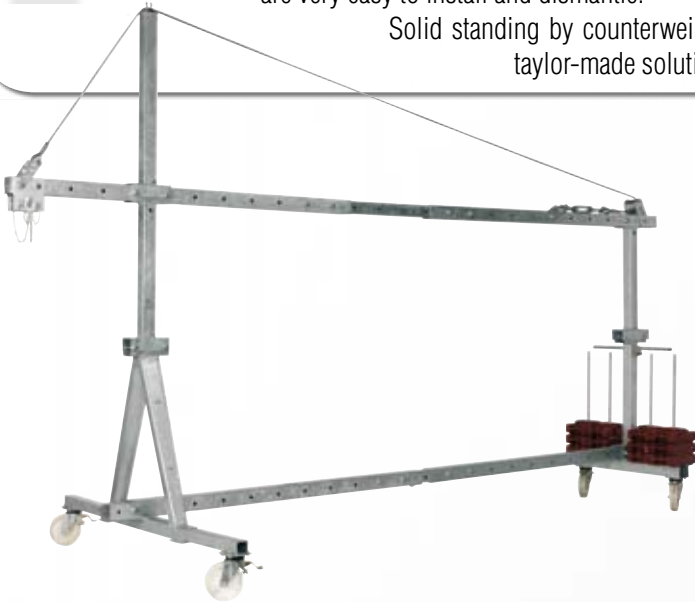
## The suspension jibs

1

### PORTAFIX™ suspension jibs

The mobile PORTAFIX™ suspension jibs allow very fast access to the building facades on nearly every flat roof, and, are very easy to install and dismantle.

Solid standing by counterweights and easy transportation thanks to castor wheels. Other tailor-made solutions can be proposed.



*Low-rise building, Germany*



*Low-rise building, France*



*Tank, Gotha, Germany*

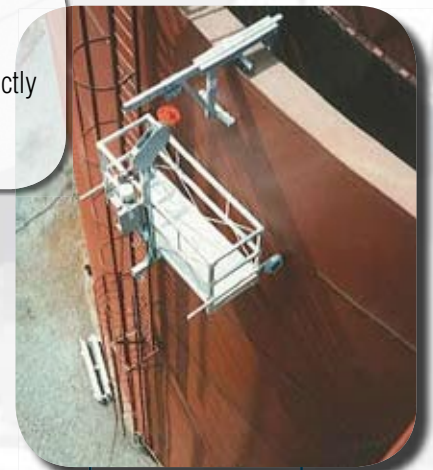
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### OMEGA Parapet clamps

When the parapet is sufficiently strong (reinforced concrete etc), OMEGA parapet clamps can be directly attached. Delivered ready for use, with rollers allowing easy transversal motion.



*Chimney, Germany*



*TEG tank, Germany*

# A Common Point - Reliability

## A complete range of accessories



1

### Wire ropes

Specially developed for their security, resistance and easy maintenance by TRACTEL®, the steel wire ropes can be used with TIRAK™, SCAFOR™ and TIRFOR® hoists.

2

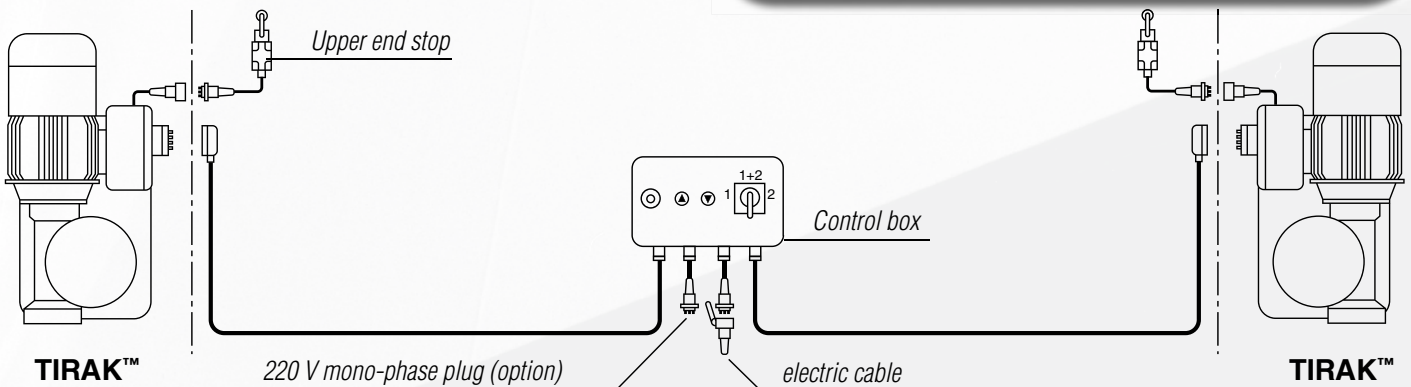
### Electrical installation

All electrical components and installations conform to current regulations (EN 1808), giving peace of mind, security and minimum maintenance.

As standard, all commands are centralised in one control box though as an option, a pendant control station exists.

### Tractel Secalt S.A. warranties

- An electrical installation designed and built according to EN 1808.
- Highest quality materials
- Easy maintenance
- All components are protected IP 55, ensuring smooth functioning even in difficult climatic environments (Tropics, Antarctic, ...).



3

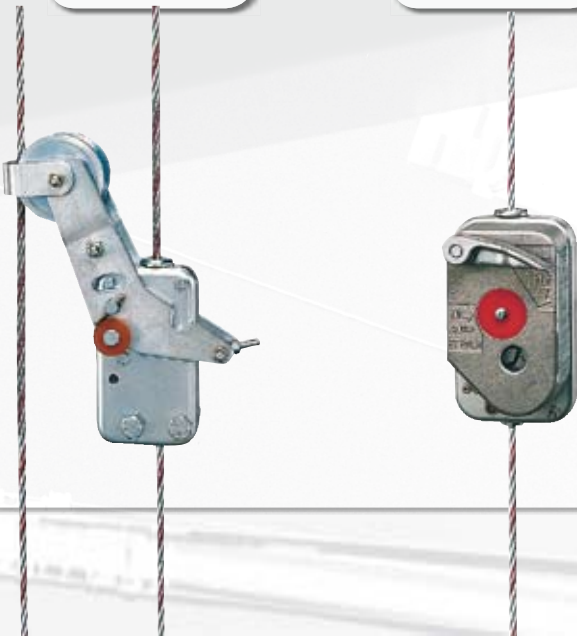
### BLOCSTOP™ fall arrest device

Responding to the most strict safety regulations, the BLOCSTOP™ fall arrest devices can easily be attached to most fittings.

The «TIRFOR®» jaw type unit fitted in the BLOCSTOP™ closes on the suspension wire rope and as it grips over a large area causes no damage to the cable.

BSA  
500 to 3200 kg

BSO  
500 to 3000 kg



### Technical Information

#### Type «BSA» :

Operates automatically when there is slack wire rope or inclined platform.

#### Type «BSO» :

Automatic clamping of the wire rope by overspeed detection.

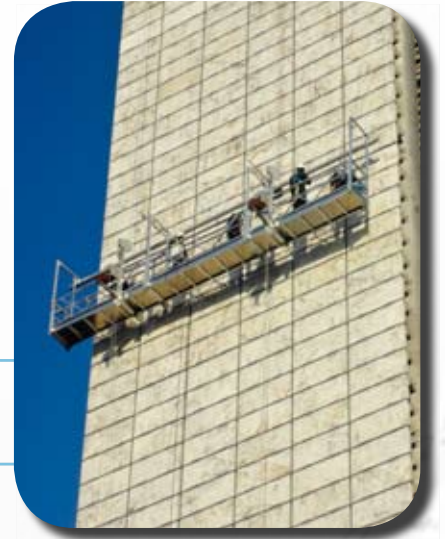
# Exceptional Challenges

## Tractel Secalt S.A. solutions

Tractel Secalt S.A. experience allows it to evaluate all challenging suspended access applications, to study, design and propose tailor-made solutions.



*Permanently attached SOLO platform to monorail for cleaning, Casablanca*



*9 m ALTA platform, Estela Bicentenario, Mexico*



*Air-driven ALTA platforms, offshore platform North Sea*



*15 m gantry for bridge repair work, Belgium*



# Access to Suspension Bridges

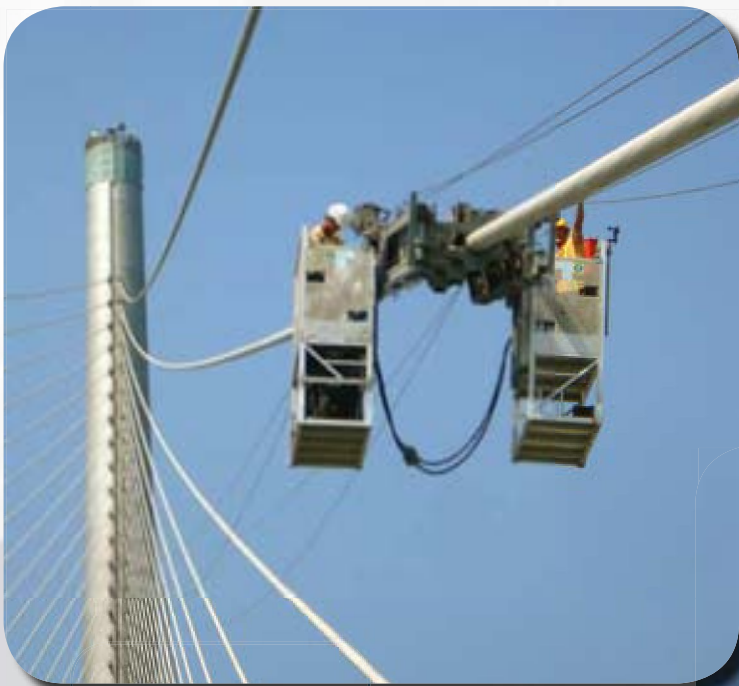
## High technology at altitude

Tractel Secalt S.A. has developed and implemented maintenance platforms on the world's most famous bridges. Our highly skilled and experienced engineers will turn your dreams into reality by designing innovative yet practical solutions.



*Young Jong Bridge, Seoul*

*Stonecutters Bridge, Hong Kong*



*Stonecutters Bridge, Hong Kong*

*Viaduc de Wandre, Belgium*



# Tractel Secalt S.A.: Having the Know-how

## The TRACTEL® Group,

World leader for suspended access systems through its operating company, Tractel Secalt S.A., based in Luxembourg, has a long experience in lifting and materials handling, suspended access and fall arrest equipment. Tractel Secalt S.A., a driving force in the Group, has over 50 years experience in developing tailor-made solutions for both temporary and permanent suspended access.

The Tractel Secalt S.A. name guarantees a complete service :



### Applications & Design

Tractel Secalt's highly qualified and experienced engineers have many years experience of designing and developing access solutions to customer specifications.

Using the latest CAD tools, calculation methods and advances in our hoisting solutions (patented TIRAK™ hoist) the Design engineers produce innovative, leading edge access solutions.

Customer requirements and safety standouts are always at the heart of the Design team's brief and are constantly updated to fit to the most modern technology and construction design.

### Production and Quality Control

With the aim of total Quality, production is certified to ISO 9001:2000.

### Delivery and After-sales Service

As orders are received from all over the world, Tractel Secalt S.A. has developed a fast, responsive organisation. Product standardisation, optimisation of project management and production have led to short delivery times.

Available for all technical or commercial requests, the Tractel Secalt S.A. commercial and after-sales teams can respond with very short reaction time.



### Sales location

Around the world, the TRACTEL® companies together with their partners put their know-how and experience at your disposal to ensure a fast and efficient service and to give you complete satisfaction.

For the details of your nearest distributor, contact Tractel Secalt S.A.

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