

tirak[®]

Electric, hydraulic or pneumatic hoists with through wire rope,
from 300 to 3000 kg



CE

 **Tractel** Group

*... for lifting and moving access platforms
and for totally safe inspection of buildings...*

The **TIRAK[®]** is a hoist for lifting and pulling loads over unlimited distances. It also provides an unrivalled alternative to a drum winch.



Installation for building maintenance on the dome of the Reichstag in Berlin

Top quality...

The reliability of the **TIRAK[®]** is the result of more than 50 years' experience in the manufacture of lifting equipment. Thanks to the confidence of our customers, the **TIRAK[®]** has become the World Number 1 hoist for access systems.

...Synonymous with savings

With its very simple wire rope drive system, the **TIRAK[®]** requires virtually no maintenance, apart from the regulatory safety inspections. Wear on the wire rope is greatly reduced, thus giving it a very long service life.

Guaranteed safety!

All **TIRAK[®]** hoists comply with **current EC standards**.



All equipment for lifting persons is inspected in accordance with **standard EN 1808**



"Dual traction"

Equipment in the **TIRAK[®] T1000** range pulls the maximum working load horizontally in both directions.

More than simply hoists, they can be used to move loads to and fro: to pull trucks, for internal transport systems or for moving protection covers – just three examples illustrating the various possible applications.

*...with the **TIRAK[®]** we provide you with a low-cost, practical solution to all your problems!*

Combined lift and workstation...

tirak®



Facade assembly with lifting work platforms. Facade units are moved to the required position in the same way, using **TIRAK®** hoists.

Whatever you are doing...

...make your work easier!

If your job requires you to work at heights, whether this is in facade construction, window cleaning, insulation work, chimney building, sheet metal work or painting, etc.

With the **TIRAK®**, you can always position yourself at the right height, enabling you to work in total safety in the most suitable position.



Access cradle for repair work



Access cradle for facade maintenance



Inspecting silos

Wherever you want...

...on buildings, towers, masts, silos, power stations, chimneys, bridges, dams, ships, industrial installations or historic monuments...
...indoors or outdoors...



Access cradle for facade refurbishment

In conclusion...

the **TIRAK®** offers a viable alternative in the construction of scaffolding.



Facade inspection installation with moving trolley on roof – the **TIRAK®** is installed on the centralised control platform.

Facade inspection installation on monorail – there are two **TIRAK®** with a double sheave block system on the platform. The power supply and controls are connected via hard-wired link.



Installations for facade maintenance...

...not only must they meet aesthetic requirements, but they must also play an important role in terms of safety.

The **TIRAK®**, at the heart of every installation, provides controlled safety and assured reliability.

For very specific applications, **TIRAK®** units can be modified.

For lifting, traction, sideways movement!



Lifting a component for a **TIRAK®** round platform using a return pulley block system.

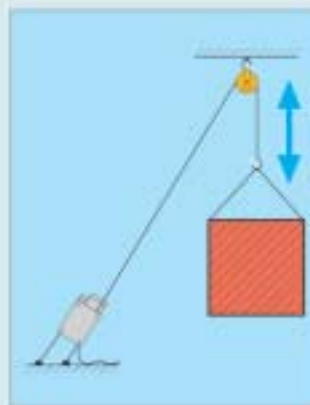
...the **TIRAK®** is not just for transporting people. Its special advantages:

- **Lightweight**
- **Compact shape**
- **Unlimited length of wire rope...**

also make this hoist ideal for lifting equipment and for any other specific applications.

Numerous installation possibilities:

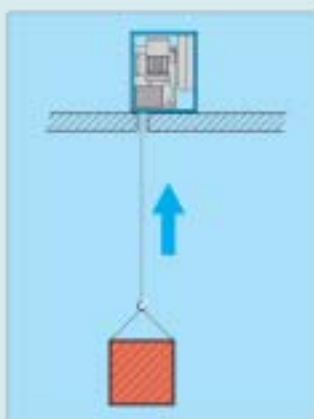
- **TIRAK®** positioned above the load.
- Positioning of the **TIRAK®** independently of the position of the load by simple use of a return system using pulley blocks.
- If you want to pull a load through **an aperture** in a wall or a load-bearing floor, simply place the **TIRAK®** behind or above the aperture. For this application, it is recommended that a **mobile hoist** is used in addition to the **TIRAK®**.



Lifting via return pulley block (simplified diagram)



TIRAK® installed above the load under the upper part of the tower



Mobile hoist on weight-bearing floor (simplified diagram)

The **TIRAK®** hoist can optionally be equipped with a compact wire rope winder. In this configuration it retains all its advantages (size, weight) compared with a drum winch system of the same capacity.



Permissible loads, power supply system and wire rope speed

		Permissible load (kg)					
		300	500	800	1000	2000	3000
		Wire rope speed ¹⁾ (m/min)					
TIRAK® power supply system	400 V / 50 Hz 3-phase	9 / 18	4,5 / 9 / 18			3 / 6 / 12	
	230 V / 50 Hz 3-phase	9					
	24 V DC	10					
	hydraulic motor				0 - 25		
	pneumatic motor	9	8	6,5	5	3,5	

1) Including 2-speed 3-phase hoists.
Optionally also available with one adjustable speed in DC version.



3000 kg



500 kg



300 kg
Pneumatic motor

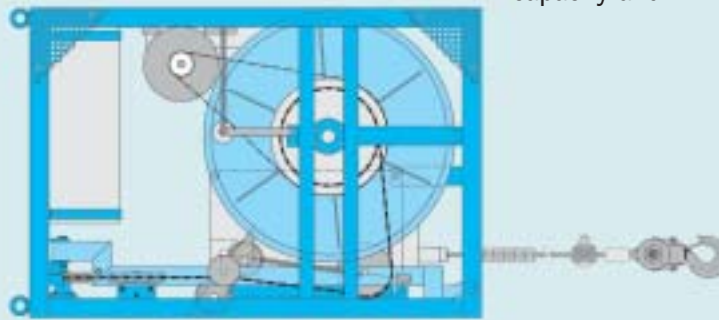
Permissible loads and weights

		WLL	Permissible load (kg)					
			300	500	800	1000	2000	3000
TIRAK® equipment	TIRAK® standard ¹⁾	x (theoretically)	Weight ³⁾ [approx. kg]					
	TIRAK® + winder	(30/40 m) ²⁾	27	40 / 30 ⁴⁾	45	45	100	105
	TIRAK® + winder	(60/110 m) ²⁾	40	53	58	58	115	120
	TIRAK® + reeler	(100-320 m) ²⁾	41	54	59	59	125	130
	mobile hoist	(60-110 m) ²⁾	46	56	61	61		
	mobile hoist	(330-500 m) ²⁾	60	75	80	85	200	210
				115	120	125	545	550

- Standard (9 or 6 mm), 3-phase 50 Hz with pendant control unit
- Variable capacity depending on the diameter of the wire rope
cf. details in the table - Permissible loads and ranges -
- Weight without wire ropes - weights of wire ropes:
8 mm diam. = 0.25 kg/m; 9 mm diam. = 0.31 kg/m; 10 mm diam. = 0.39 kg/m; 14 mm diam. = 0.74 kg/m
- 40 kg - X 500 series; 30 kg - L 500 series

Winding up to 500 m...

...an operating range to solve any lifting problem...
 ... the weight of the unit provides an unequalled advantage in relation to a drum winch of the same capacity and with the same permissible load.



3000 kg permissible load, range 500 m

Capacity up to 3 tonnes

...for direct pulling, you can increase the load using the wire rope according to the sheave block principle.

Permissible loads and wire rope capacities

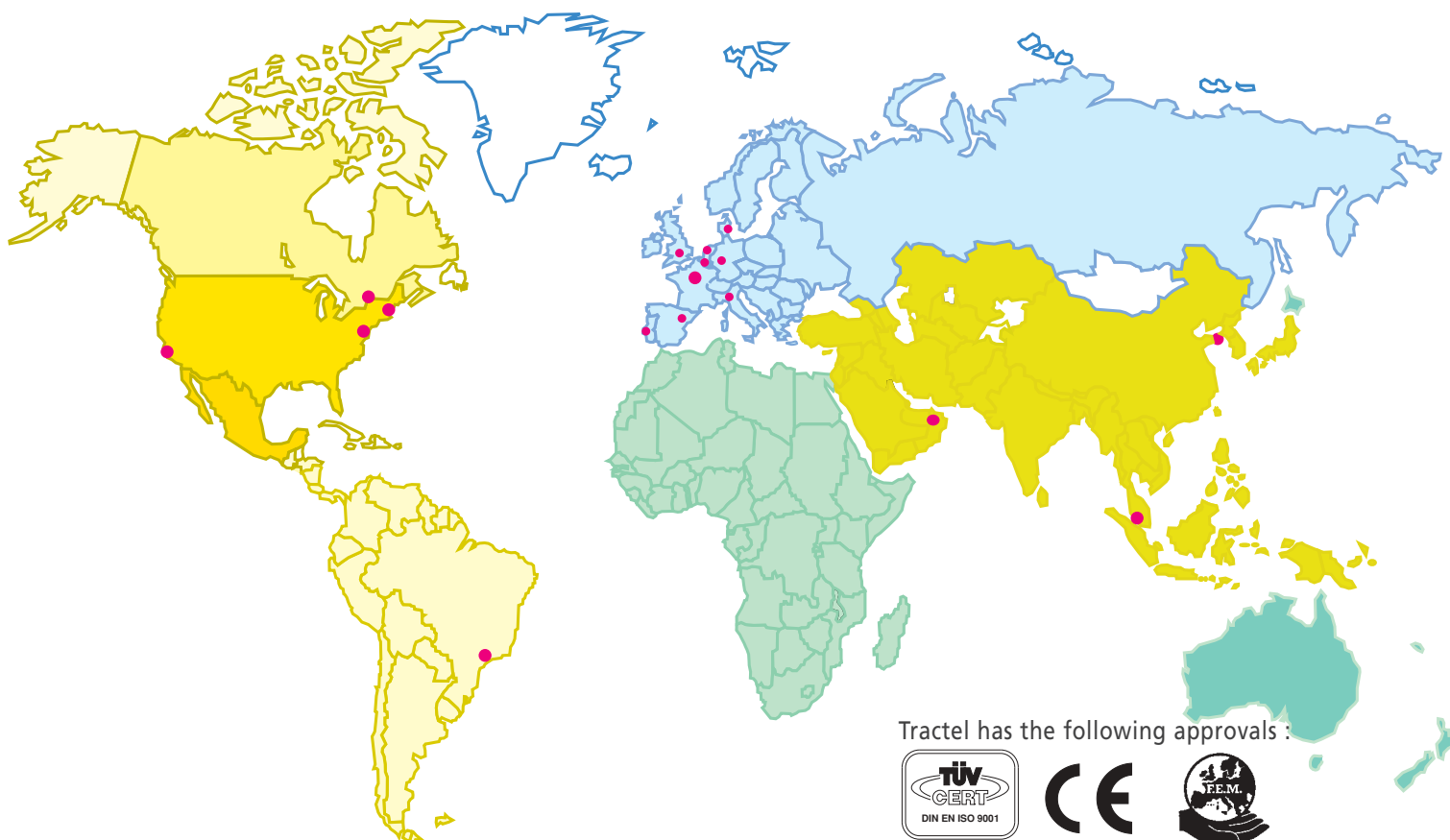
		Permissible load (kg)					
		300	500	800	1000	2000	3000
		● TIRAK® with winding reel			● TIRAK® mobile hoist		
TIRAK® capacity (m)	30						●
	35				● ●		
	40	● ●	● ●	● ●			
	50				● ●		
	60	● ●	● ●	● ●			
	90	●	● ●	● ●	● ●		
	110						●
	120		● ●	● ●			
	160	●			● ●		
	220		● ●	● ●			
	400				●		
	500		●	●			●



*Tell us what you need,
and we will propose the solution.*

Tractel : a global organisation

The Tractel Group is located in 15 countries spread over 4 continents, and has a presence in 80 others through its import agents and dealers. The largest production sites are in France, Germany and Luxembourg.



Tractel has the following approvals :



For the past 30 years the development strategy of the Tractel Group has been based on the magic triangle :

- Technological innovation,
 - Controlling costs,
 - Global marketing,
- with the product at the heart of this triangle.



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The logo for Tractel Group, featuring a stylized figure running or jumping inside a square frame, followed by the word "Tractel" in a large, bold, blue font and "Group" in a smaller font inside a blue-bordered box.
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