

ACCESS SYSTEMS

ACCESS SYSTEM WITH MOBILE SAFETY STEPS

DESCRIPTION | DECISIVE ADVANTAGES



The access system with mobile safety steps is a secure and comfortable system. It allows the technician to adapt the height of each step and to stop securely wherever he needs, without being limited by the height of fixed steps or platforms.

The access system is made of several pieces of equipment gliding on two rails tightened to the mast. The two handles are connected to the chest of the technician's safety harness. Each handle is tied with a line of adjustable length to a step, gliding on the same rail.

The handles are securely blocked on the rail by the weight of the technician: he cannot glide the handle up or down as long as he does not release his weight from the step attached below the handle. To climb on a mast, the technician will move his weight from one step to the other, releasing the corresponding handle which he will be able to move up, simultaneously moving up the step attached to it. He will then step on the newly moved step, blocking it on the rail, and move the other handle with the attached step.

The technician will progress up or down the mast by alternatively moving his weight from one side to the other, and gliding the equipment which is released from his weight. He can stop for work or rest wherever he wants, just by applying weight on both steps. During the entire time using the system, he will remain securely tied to the mast by his harness.



Two rails tightened to the mast

Selflocking handles

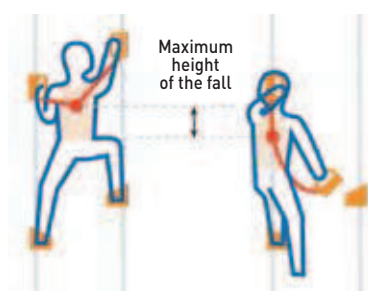
Mobile steps

MASTERING HEIGHT

SECURELY BLOCKED ON THE RAIL

The mobile step system inherently prevents any accidental fall since handles and steps would immediately be blocked on the rail by the weight of the falling body. Moving the handles is only possible by voluntarily releasing weight from one of the two steps. It is impossible to release both steps simultaneously since the technician cannot release his weight from both legs at the same time.

In the worst case including a failure of one handle / step system, the other handle would immediately block on the rail and prevent any fall lower than the maximum height difference between the two handles (40 cm). The system's safety is mechanically redundant by design..



Handles:
weight-triggered
blocking
system



LADDER WITH SAFETY RAIL OR SAFETY CAGE

Access to the service platform on high lighting masts may also be done by galvanized steel ladder with security rail. This access has several advantages compared to welded steps:

- Better climbing comfort (400 mm wide steps, continuous handrail)
- Higher security with the T-rail system rather than a simple lifeline

In case of safety cage, the resting steps are replaced by a resting platform.

Climbing ladder, 400 mm wide, with two side rails, starting at 3m above ground to prevent unauthorized use.

Available on high masts with a minimum head diameter of 168 mm.

With rail for railblock-type fall prevention system (fall prevention system, shock absorber and harness may be supplied by Petitjean).

The ladder is equipped with fixed resting steps (155 x 255 mm), tightened to the side rails.

The rail may be replaced by a safety cage (rings Ø650 mm). Ladder sections are aligned. A D15-Type resting platform, 1.5m long, will replace the safety steps. The platform allows two persons to cross.



Ladder with handrail
and resting platforms



Ladder with safety
cage and platform

INNER ACCESS

For large masts (minimum head diameter 600 mm), the ladder may be located inside the mast. In that case, the ladder is equipped with a lifeline cable or safety rail, resting steps and inner lighting..



CONFORMITY

The access system is in conformity with ISO 14122-4 - Safety of machinery - Permanent means of access to machinery - Part 4: Fixed ladders.