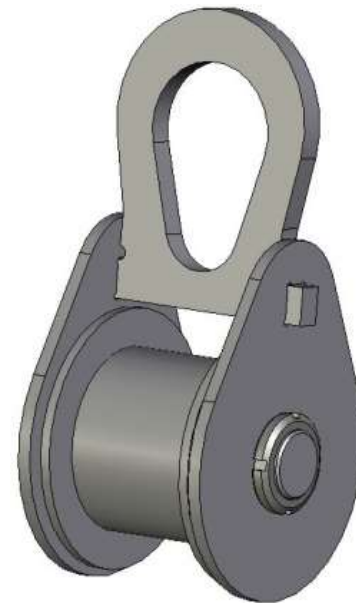


Description

The PRB turning over pulley equipped with a textile strap allows:

- The turning and lifting of all kind of coils.
- The turning over of loads
 - with the synchronisation of PRB turning over pulley with a motorised Pal-turn™ turning over;
 - with two (or more) PRB turning over pulleys



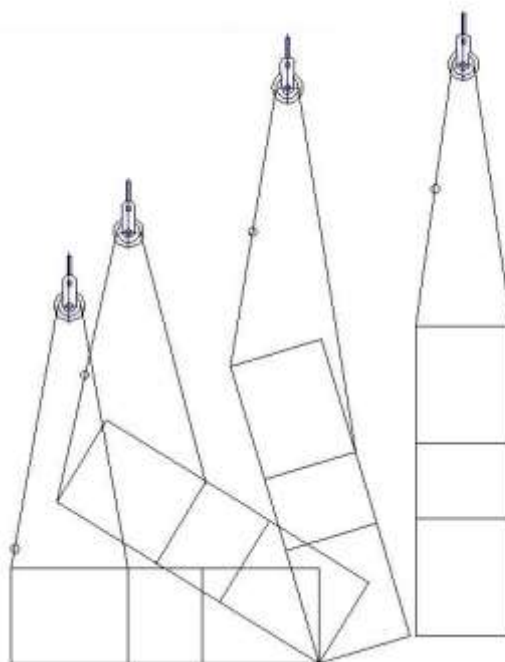
Functioning

The PRB turning over pulley is equipped with a free rotating sheave for strap for a secure and smooth turning over.

The user can:

- **Tilt the coils**

Or other loads providing that there is a hole to pass the belt through (i.e. sheaves) – by adjusting the position of the lifting point. The load must be in contact with the floor during the coil handling.



a. Coil lifting

The coil has to be laid on brackets (dollies), in order to wrap the strap around the load.

The user can then easily handle the load by smoothly moving of the position of the lifting point (combination of vertical and horizontal crane movements). The movement must be flexible and smooth: make sure that the hook of the lifting mean is in a straight line with the centre of gravity of the load, in order to prevent sudden coil movement during operation.

Plan the immobilization of the tilted up coil, to avoid any rolling (e.g. on 2 beams) and set it to allow easy removal of the strap.

b. Laying down of the coil

The tilting of the load from vertical to horizontal position requires an inclined bracket to permit the coil rotation. When the rotation starts, the user can then easily turn the coil while regularly playing with the position of the lifting mean (combination of vertical and horizontal crane movements). The movement must be flexible and smooth: make sure that the hook of the lifting mean is not too far from the load to avoid sudden coil sliding at the beginning of the rotation.

The coil has to be laid on brackets (dollies), to allow easy strap removal.

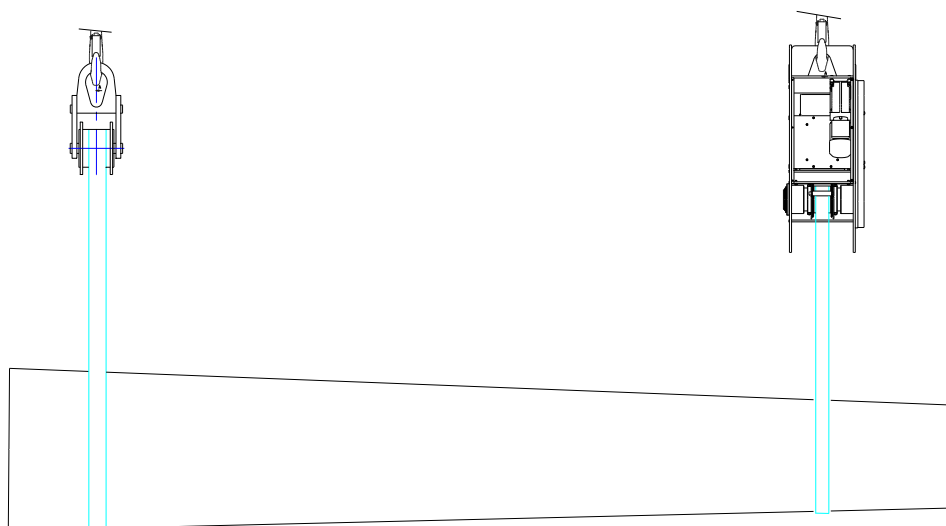
• Turning over the loads

a. Using PRB pulley with a motorized turning over Pal-turn™ system.

The load, completely supported by the straps, is turned without contact with the floor

The rotation is controlled by the Pal-turn™

2 lifting means are requested.

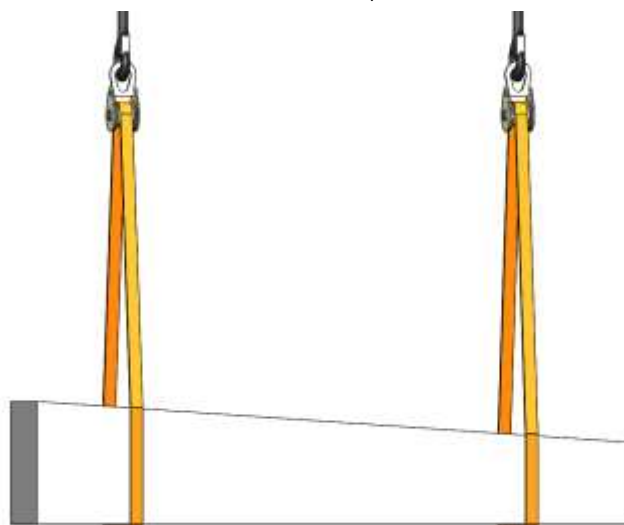


b. Turning over a load with 2 (or more) PRB turning over pulleys.

2 (or more) lifting means or one lifting beam are requested.

The load centre of gravity must be perfectly centred to avoid any runaway.

Rotation by manual action on the load or the straps



Important instructions

- The PRB turning over pulleys allow operations with a high safety level. Make sure that the people in charge meet the safety requirements of these operations.
- Check the free alignment of the load and hanging point of the equipment.
- Always check that the strap capacity is adapted to the pulley capacity.
- Always check the good condition of the safety catch of the hook, on which the pulley is hung, as well as the catch of the strap hook.
- Always use the adapted individual protection equipment (gloves, safety boots, helmet, glasses...) during the material handlings.
- Do not use the turning over pulleys for personnel lifting.
- Warn the people around during the lifting or moving of the load.
- Regularly examine the condition of the material (see below).
- Temperature of use : -20° à +100°C
- TRACTEL SOLUTIONS SAS disclaims all responsibility for the consequences due to disassembly or modification of the product outside its controls, especially in case of original pieces replacement by pieces of other origin.
- Only TRACTEL SOLUTIONS SAS original spare parts should be used.

Inappropriate use

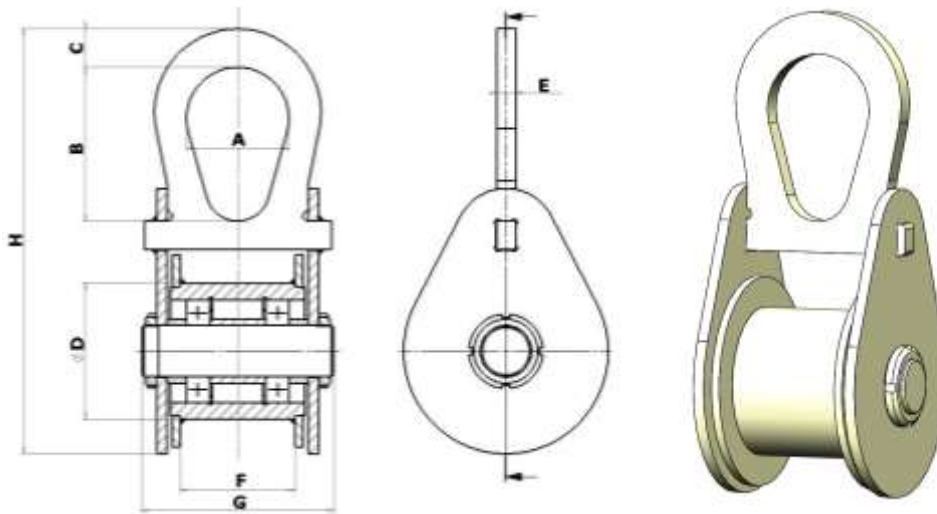
- Never exceed the working load limit WLL (see signalling plate).
- Do not leave the pulley hung with no-load on its strap: the metallic parts of the strap can hurt people.
- The closing system of the strap must not rest on sharp edges of the load, neither pass in the pulley during the turning over.
- Never use a damaged pulley or if you have a doubt over its correct functioning.
- Use the pulley without sudden movements.
- Never leave pulley hanging unattended.
- It is strictly forbidden to either be under or walk under the load.
- Never move the hanging load above or near people.
- Do not expose the pulley to extreme temperatures, to abrasive or chemical material.
- Do not turn loads over, on which other unattached loads are placed.
- Only use one load at a time.

Dimensional characteristics

Type	WLL ¹ (t)	Group code	Dimensions in mm								Weight (kg)
			A	B	C	D	E	F ²	G	H	
PRB2-90	2	189768	80	120	25	88	12	90	145	317	8.2
PRB3-90	3	189778	80	120	30	106	15	90	150	346	11
PRB5-120	5	189788	100	170	50	135	20	120	190	452	24

Other capacities on request

¹ WLL = Working Load Limit ² The strap width must be smaller than F

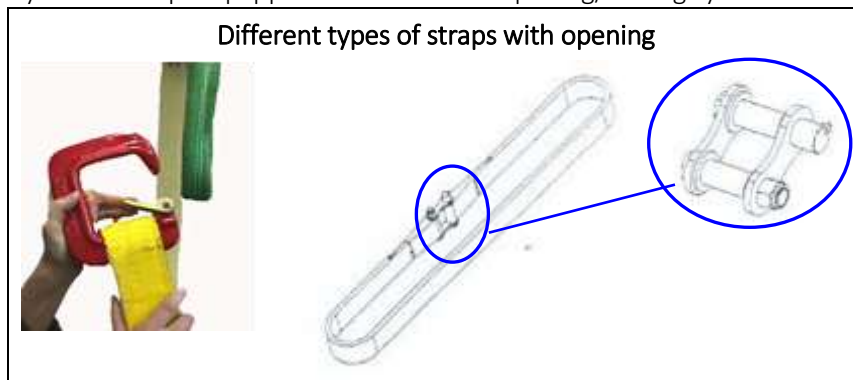


General characteristics

- Manufactured without load bearing welds.
- Safety factor: 3 in accordance with the EN 13155.2003 norm.

Choice of the strap

- The choice of strap is the guarantee of security and good functioning of the turning over pulley.
- In case there are sharp edges on the load it is compulsory to use straps with a protection (polyurethane) on the side in contact with the load's sharp edges.
- It is compulsory to use straps equipped with a secured opening/closing system.



- The definition of the strap (WLL, length, width, quality, opening/closing system) depends on many criteria (weight, quality & dimensions of the load, PRB pulley dimensions, turning mode...).
- It is recommended to contact TRACTEL Solutions for a correct definition of the most adapted strap.