

APPLICATIONS

EPA/EPC/EPF/EPE/EPL pulleys are designed for man riding applications.

They are in conformity with EN 1808.

They can also be used for material lifting.

These pulleys are mainly designed for temporary Wire rope lifting or tracting applications, when quick installation and/or removal of the pulley is necessary.

They can be fixed to a mobile or fixed anchorage point having the required WLL.

They are compatible with TRACTEL hoists.

Shaves are made of black polyamide and flanges of S690Q steel.

Colors : flanges : yellow / hook : white or red / sheave : black.

The new version has a new protection flanges.

Compared to EP pulleys launched in 2014, the protection carter is replaced by bent flanges.

These flanges now have two functions:

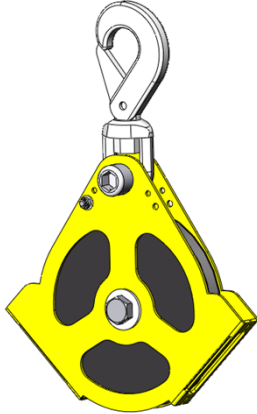
- Protection of hand and fingers against trapping in the pulley groove, as required by EN 18008
- Stop detection limit for equipped hoists. Stop detection is a requirement of EN 1808 for man riding installations.

The flanges geometry allows to use the pulley as opening pulley and facilitate Wire rope positioning.

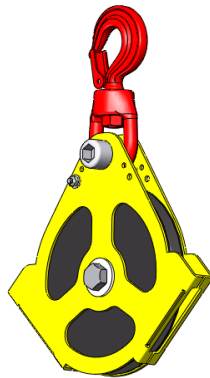
The EPC and EPF pulleys are equipped with a security hook.

The EPE and EPL pulleys are equipped with a hook with safety latch

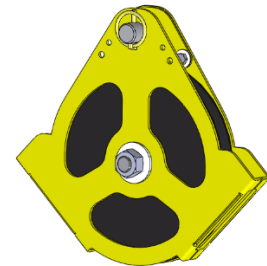
EPC
Safety Swivel Hook



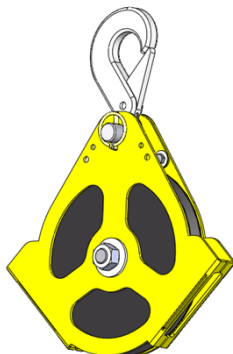
EPE
Swivel hook with Safety Latch



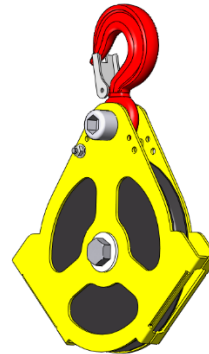
EPA



EPF
Safety Fixed Hook

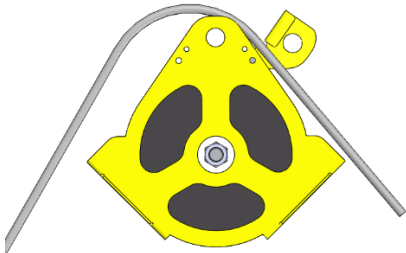


EPL
Fixed Hook with Safety Latch

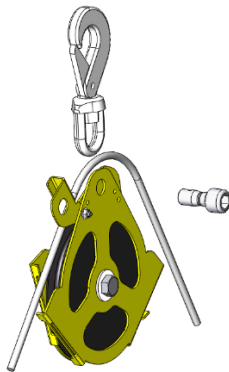


INSTALLATION

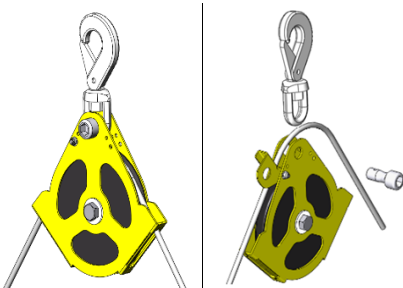
New design allows an easier installation.



1. Remove the axis, shift the brace and install the Wire rope.



2. Fit the Wire rope inside the flanges by rotating them.



3. Put the brace back in place, place the axis (and the hook if the pulley is equipped with a hook).

TECHNICAL CHARACTERISTICS

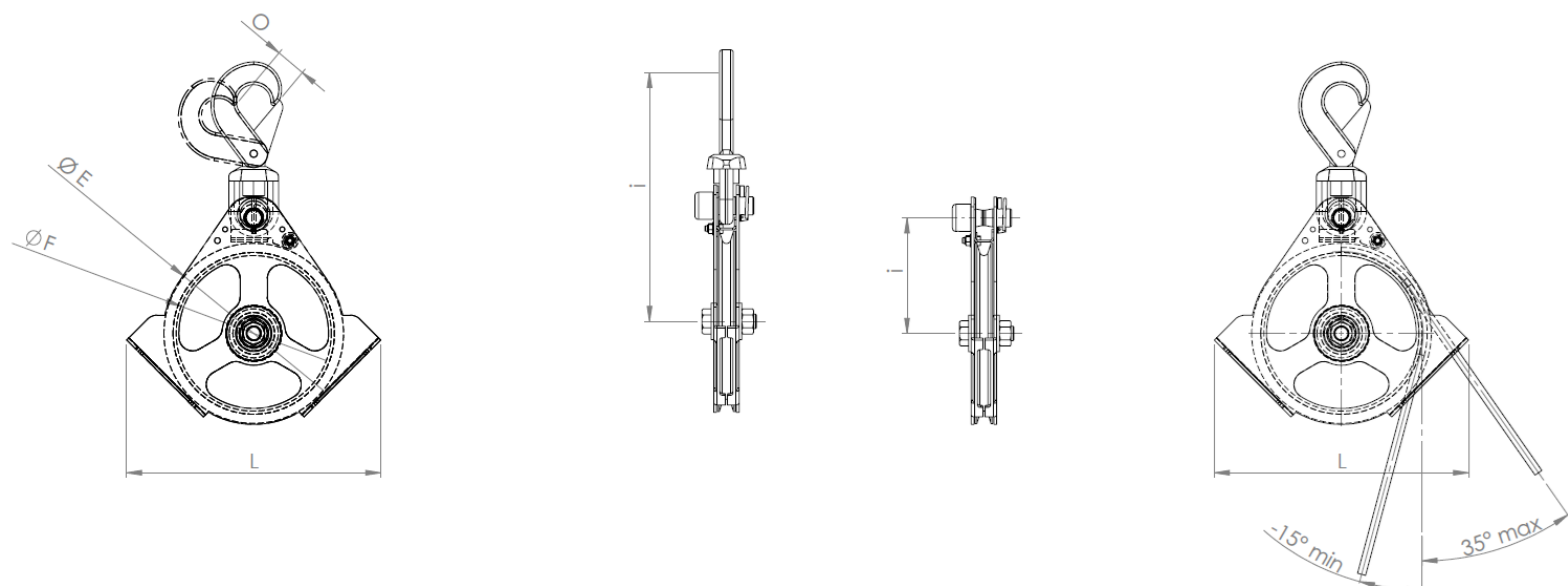
- Ultimate load is 4 times the working load limit (WLL).
- The EP pulley have been designed according to the FEM 87 and EN 1808 regulations
- The EP pulley comes with a polyamide (PA6G) sheave and a steel body (S690 Q)

DIMENSIONS

EP Pulleys exists in five models, with three different anchoring systems

- EPA equipped with an axis for reduced space installation
- EPC equipped with a swivel safety hook
- EPF equipped with a fixed safety hook
- EPE equipped with a swivel hook with safety latch
- EPL equipped with a fixed hook with safety latch

Reference	Group code	WLL	Sheave		Height I	Width L	Opening O	Weight	Motorised application		Manual application	
			Bottom of groove Ø F	Outside Ø E					Wire rope C	tirak™ exemples	Wire rope C	tirfor® exemples
EPC1.6-8/9	III	252699	1,6 t	171 mm	198 mm	280 mm	34 mm	3,4 kg	8 mm	X3xxP XA300P X4xxP X5xxP XA500P L5xxP X8xxP XA820P	9 mm	TU-6P
EPE1.6-8/9	III	252709						262 mm				
EPF1.6-8/9	III	252719						253 mm				
EPL1.6-8/9	III	252729						127 mm				
EPA1.6-8/9	III	252739						2,6 kg				
EPC2.4-10/12	III	252749	2,4 t	196 mm	228,5 mm	326 mm	43 mm	6,8 kg	10 mm	X10xxP XA1030P	11,5 mm	TU-12P
EPE2.4-10/12	III	252759						339.5 mm				
EPF2.4-10/12	III	252769						288.5 mm				
EPL2.4-10/12	III	252779						6.3 kg				
EPA2.4-10/12	III	252789						5.4 kg				
EPC5-14/16	III	252799	5 t	277,5 mm	323,5 mm	455 mm	47 mm	15.6 kg	14 mm	X20xxP	16,3 mm	TU-24P
EPE5-14/16	III	252809						440.25 mm				
EPF5-14/16	III	252819						379.25 mm				
EPL5-14/16	III	252829						14.9 kg				
EPA5-14/16	III	252839						206.25 mm				



SAFETY WARNINGS

- Strictly forbidden to either be under or to walk under the load.
- Never use this block for a load exceeding its Working Load Limit (WLL). The WLL is written on the block.
- Shock loading or specific conditions must also be taken into consideration when determining the product to be used.
- Shocks or particular conditions of use must be considered when choosing the product to use.
- The block should be regularly inspected (priority checking: parts correctly assembled, no excessive movement, no excessive wearing or corrosion, no deformation, no weld corrosion or cracking, free rotation of the sheave).
- Prior to using the block, check for proper position and locking of the axles. Threaded axle head should be visible after application of nuts.
- Never use a block with a hook (EPF, EPE, EPL or EPC) as head fitting without ensuring that the safety latch is correctly operated and in good condition.
- For lifting operations, the user must refer to the safety rules and regulations applicable to this use.

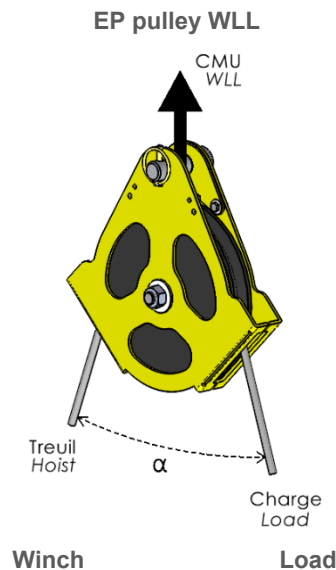
MAXIMUM APPLICABLE LOAD ON THE PULLEY LINE

The maximum Working Load Limit (WLL) written on the side of the block is the maximum load that should be exerted on the block and its connecting fitting.

This total load value F varies with the angle (α) between the incoming and departing lines to the block. The following table (A) indicates the factor to be multiplied by the line pull to obtain the total load F on the block.

Please refer to the table and sketch hereunder indicated:

α angle	Effort applied on the suspension
0°	Winch WLL x 2
15°	Winch WLL x 1.98
30°	Winch WLL x 1.95
45°	Winch WLL x 1.85
60°	Winch WLL x 1.73
70°	Winch WLL x 1.63



OPTION REMOTE INSTALLATION

It is possible to install the pulley at a distance:

- Replace the security hook by a standard hook with safety latch (EPC à EPE, EPF à EPL)
- Add a threaded cap in order to insert a pole (group code 106697, sold by TSAS).

This solution is sold as a kit (designation EP-MCP, group code 192969) including threaded cap, threaded pole end, screws & bolts.

When ordered along with a pulley, it is delivered installed on the pulley.

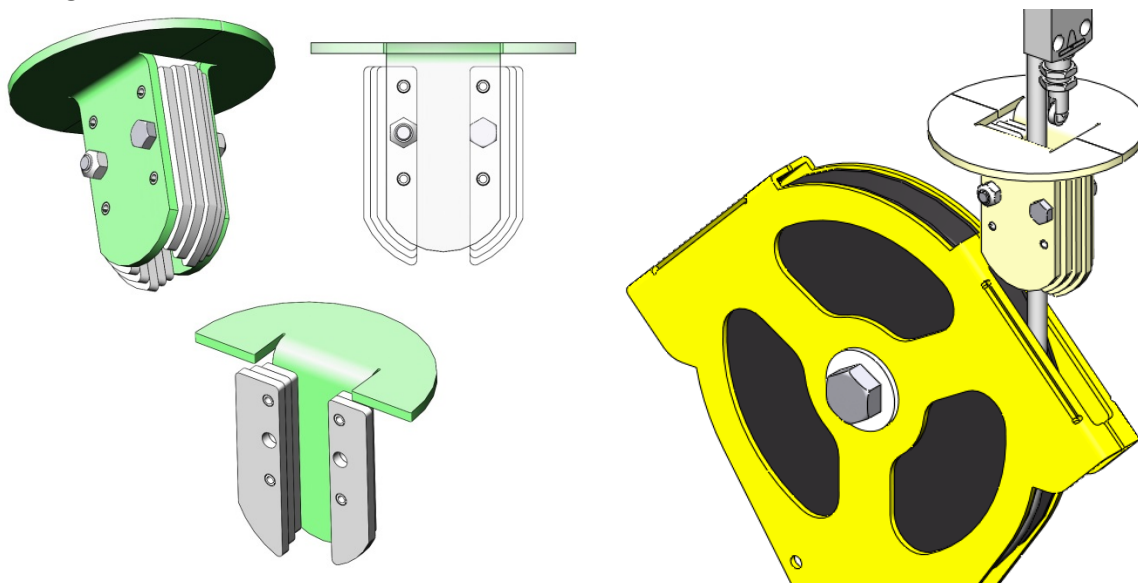
Due to the heavy weight of EP 5 pulleys, they are impossible to handle with the pole. Therefore, this option is only available for EP 1.6 & EP 2.4 pulleys.



OPTION LIMIT DETECTION STOP

Depending on the type of stop limit that is being used, the gear-casing cannot always activate the limit detection stop

In this case, Tractel Solutions suggests an additional stop system which has to be installed onto the wire-rope while assembling the material.



Designation EP-BFC, group code : 192959