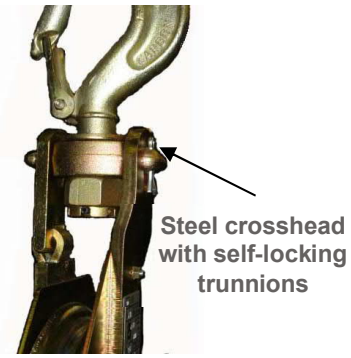
APPLICATIONS

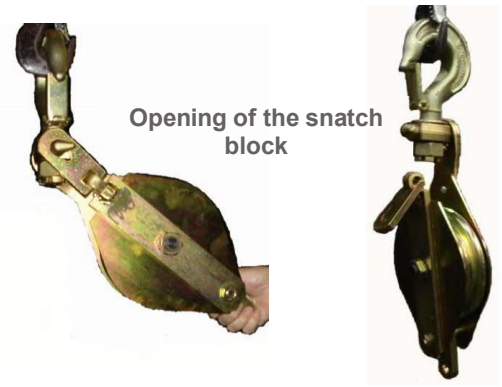
The single sheave snatch blocks of the EGZ's range are mainly used for temporary applications for pulling and lifting, when quick assemblies and/or dismantling are required. They can be suspended to a fixed or mobile anchorage point with the right strength corresponding to the required load.

Thanks to an easy instalment and availability of a ring becket, these snatch blocks are most often used for blocks assemblies or wire rope direction changes.

EGZ's snatch blocks are fitted with a swivel hook which ensure good positioning of the pulley regarding the cable.

Some EGZ pulleys are compatible with standard tirfor® and tirak® wire rope cable, and some are also in conformity with the main requirements of EN 13157 Standard.





DESCRIPTION

A hook with safety latch is installed on the EGZ's snatch blocks model to ensure a quick and safe attachment.

Once the snatch block is not under tension, the opening, operated by turning ¼ turn the snatch block body around the steel crosshead, makes the introducing of the wire rope in the groove possible, while the block remains suspended. All the parts stay interdependent during the flange opening and the wire rope introduction.

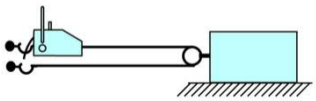
The locking axle is secured by a safety pin, which prevents from any unscrewing or uncontrolled movement.

Steel crosshead with self-locking trunnions avoids any opening of the loaded snatch block. This locking system is easy and efficient.

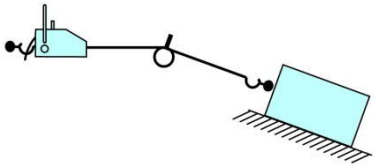
The ring becket allows a block sheaving 3 times thanks to a shackle, hook etc.

Installation examples

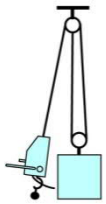
Traction block assembly



Change of wire rope direction



Lifting block assembly



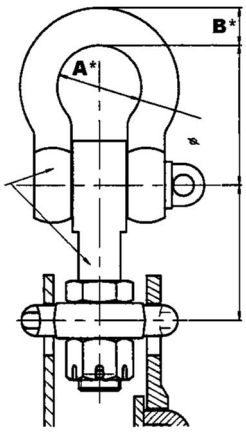
Examples :
- 2-fall reeving with tirfor 800 kg: lifting capacity 2x800 = 1600 kg
- 3-fall reeving with tirfor 800 kg: lifting capacity 3x800= 2400 kg

TECHNICAL CHARACTERISTICS

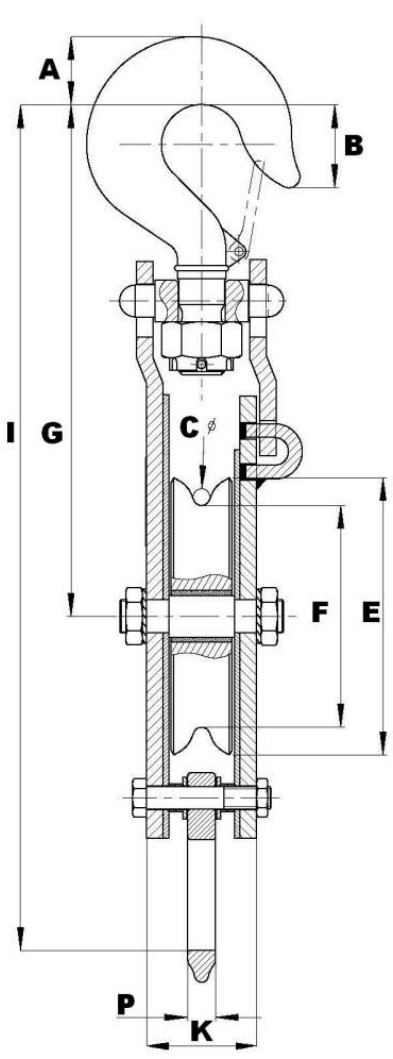
- Ultimate load is 4 times the working load limit (WLL).
- Zinc bichromated coating.
- The sheaves are fitted either on bronze bush or on ball or roller bearing (Please refer to the below table)
- Some pulleys (listed below), are in conformity with EN13157 requirements

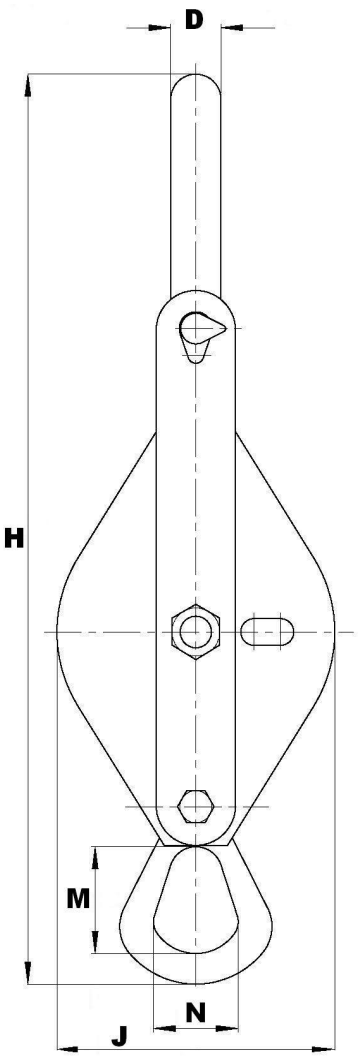
DIMENSIONAL CHARACTERISTICS

Ref.	Group code	WLL[1] (t)	EN 13157	Bushing[2]	Sheave Ø F Ø BoG[3]	Sheave Ø E Ø Ext	Rope Ø C Ø min/max	Dimensions in mm A	B	D	G	H	I	J	K	L	M	N	O	P	Weight (kg)
E303GZ	101829	1		Bb&Gr	80	100	8/9	33	43	24	225	440	389	106	38	50	50	69	52	18	3
E460GZ[4]	101839	2.4	Yes	Bb&Gr	132	160	7,5/8,3	41	59	30	315	594	530	170	58	77	80	64	23	20	7
E313GZ	105629	2		Bb&Gr	132	160	10/12	41	59	30	315	594	530	170	58	77	80	64	23	20	7
E323GZ	192859	3,2		Bb&Gr	160	200	13/15	49	60	38	369	682	610	210	80	94	80	64	23	20	15,5
E470GZ[4]	101849	4.8	Yes	Bb&Gr	160	200	10/11,5	49	60	38	369	682	610	210	80	94	80	64	23	20	15,5
E490GZ	192869	5		Bb&Gr	160	200	13/15	49	60	38	368	696	617	210	80	94	80	64	23	20	17
E333GZ	192879	5		Bb&Gr	210	250	16/18	49	60	38	405	769	690	260	88	94	80	64	23	20	20,2
E480GZ[4]	101859	6,4		Ro	275	336	14/16,3	68	80	48	510	982	878	343	92	110	92	74	36	25	34
E347GZ	192889	8		Ro	275	336	21/23	68	80	48	510	982	878	343	92	110	92	74	36	25	34
E305GZ	252119	1		Bb&Gr	80	100	8/9	36	16	/	235	433	399	106	38	50	69	52	18	16	3



E305GZ Piton Manille





[1] WLL : Working load limit
[2] Bb & Gr : bronze bush & axial lubrificator - Ro : roller bearing
[3] BoG : Bottom of groove
[4] For tirfor® ropes

NON-CONFORM USES

- NEVER USE FOR PERSONNEL LIFTING.
- Strictly forbidden to either be under or to walk under the load.
- The block should be regularly inspected (priory checking: parts correctly assembled, no excessive movement, no excessive wearing or corrosion, no deformation, no weld corrosion or cracking, free rotating sheave).
- Prior to using the block, check for proper position and locking of the snatch block.
- Never use a block with a hook as head fitting without ensuring that the safety latch is correctly operated and free from deformation.
- For lifting operations, the user must refer to the safety rules and regulations applicable to this issue.
- When using a block sheaving 3 times, ensure that the block on which the becket is loaded is not over-loaded (see here after).

WIRE ROPE STRENGTH REDUCTION

The ratio $\frac{\text{Pitch Ø (= Ø BoG + rope Ø)}}{\text{Rope Ø}}$ between the pitch diameter of the sheave and the wire rope diameter, called the winding ratio, alters the tensile strength in the wire rope as hereafter:

Winding ratio	Reduction
6	21%
8	17%
10	14%
15	11%
20	9%

Above values are given for information only, up to the construction of the wire rope.

For more information, please ask your wire rope supplier.

MAXIMAL EFFORT APPLIED ON THE HEAD FITTING OF THE BLOCK

The maximal effort applied on the suspension is depending on the load and on the α angle formed between the fall of the load and the fall on which this effort is applied.

The resultant value must be strictly lower to the working load limit (WLL) of the block and the resistance of the anchorage point where the block is fitted.

Angle α	Suspension load
0°	Hoist WLL x 2
15°	Hoist WLL x 1.98
30°	Hoist WLL x 1.95
45°	Hoist WLL x 1.85
60°	Hoist WLL x 1.73
90°	Hoist WLL x 1.41
120°	Hoist WLL x 1
150°	Hoist WLL x 0.52
180°	0

Important remark : In case on a 3 legs block assembly, add to the above calculated effort the load applied on the becket. The total value of the calculated effort must be strictly lower to the working load limit (WLL) of the block and the resistance of the anchorage point where the block is fitted.