

GR8
INDUSTRIES

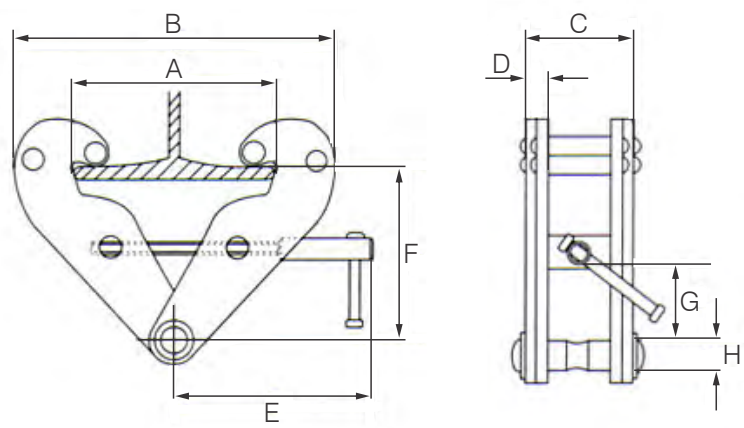


beam clamps and trolleys



labour

Department:
Labour
REPUBLIC OF SOUTH AFRICA



Beam clamp

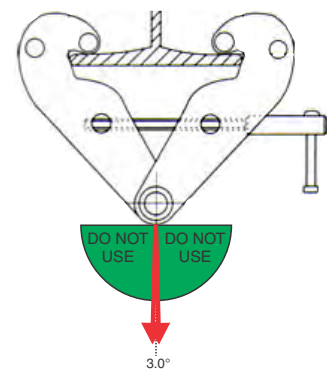
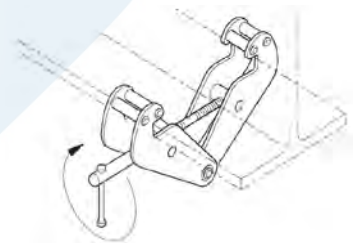
Model	Working load limit [t]	Jaw opening [mm]	A		B		C	D	E		F	G	H	Net weight [kg]
			Min [mm]	Max [mm]	Min [mm]	Max [mm]			Min [mm]	Max [mm]				
BC1	1.0	75~220	260	180	360	64	5	215	102	155	25	22	4.5	
BC2	2.0	75~220	260	180	360	74	6	215	102	155	25	22	5.0	
BC3	3.0	80~320	354	235	480	103	8	260	140	225	45	24	10.5	
BC5	5.0	80~320	354	235	490	110	10	260	140	225	45	28	11.0	
BC10	10.0	80~350	400	250	520	120	12	280	160	230	70	44	16.0	

factor of safety 4:1

Safe use and maintenance



- Always read the safe use instructions before using a clamp.
- Beam clamps are suitable for creating a temporary or semi-permanent hoist anchor point.
- Ensure that the I-beam and supporting structure is capable of carrying the full load required.
- Never overload a beam clamp and prevent the jerking of loads.
- Never use a beam clamp as an anchor point to lift people.
- Only a competent person should install a beam clamp.
- Always keep your distance during lifting and lowering of a load.
- Never travel the load over anybody.
- Any welding to the beam clamp is forbidden, this can influence the hardness and strength of the clamp.
- Always ensure that the beam clamp is centred in the middle of the load to be lifted and do not swing the load.
- Never force the hook of the hoist into the attachment eye or fitting of the beam clamp.

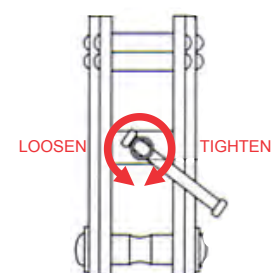


Inspections and maintenance

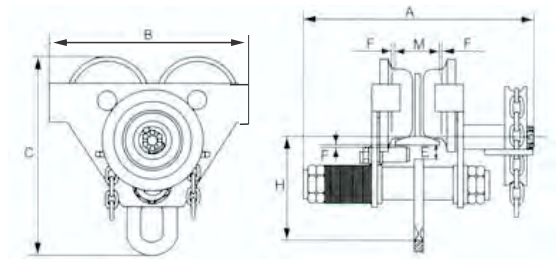
Inspections should be completed by a competent person, before use and at intervals of at least 3 months or sooner if deemed necessary.

Once inspected make sure that the beam clamp is cleaned and working parts lubricated before returning to service.

Never use a beam clamp without a working load limit or a serial number that can be linked to a valid certificate.

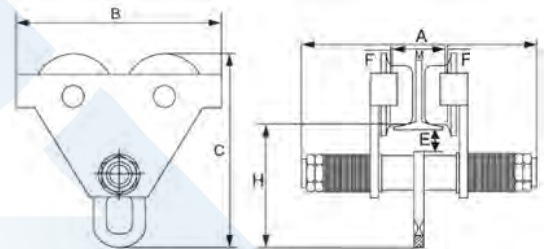


Geared beam trolley



Model		TG0.5	TG1.0	TG1.5	TG2.0	TG3.0	TG5.0	TG10	TG15
Working load limit	[t]	0.5	1.0	1.5	2.0	3.0	5.0	10.0	15.0
Proof load	[kN]	7.40	14.70	22.06	29.40	44.10	73.55	147.10	220.65
Force to move load	[N]	60	80	110	140	150	170	320	250
Min. radius of curve	[mtr]	0.9	1.0	1.0	1.1	1.3	1.4	1.7	2.2
Dimensions [mm]	A	248	280	307	318	340	365	410	420
	B	196	236	260	273	320	366	389	500
	C	190	211	226	236	295	334	460	446
	H	108	115	120	130	164	177	237	270
	F	3							
Recommended I-beam	M [mm]	68~126	80~146	80~150	80~168	88~168	100~170	122~203	122~203
Net weight	[kg]	9.0	14.0	15.3	16.0	24.0	36.0	90.0	121.0
Gross weight	[kg]	10.0	15.0	15.8	17.0	25.0	48.0	106.0	132.0

Plain beam trolley



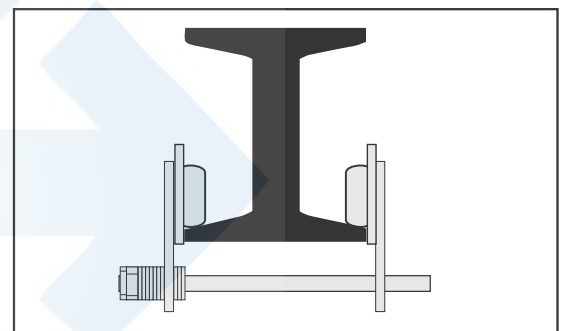
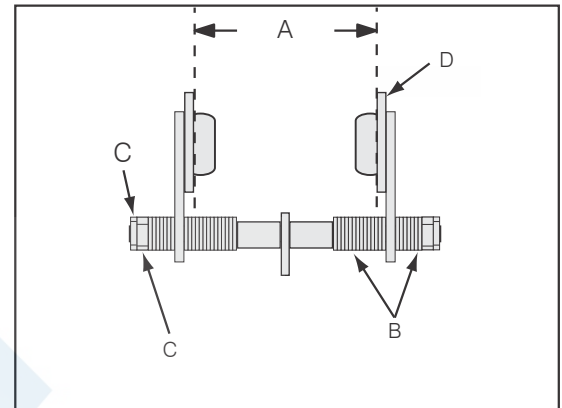
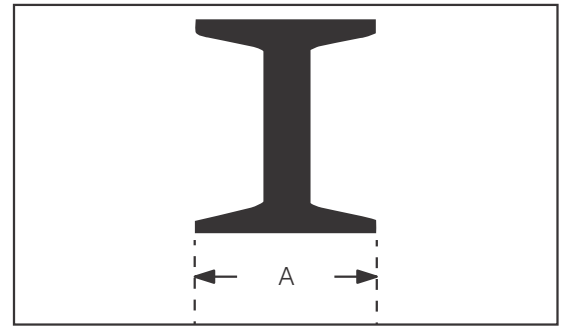
Model		TP0.5	TP1.0	TP1.5	TP2.0	TP3.0	TP5.0	TP10	
Working load limit	[t]	0.5	1.0	1.5	2.0	3.0	5.0	10.0	
Proof load	[kN]	7.40	14.70	22.06	29.40	44.10	73.55	147.10	
Min. radius of curve	[mtr]	0.9	1.0	1.0	1.1	1.3	1.4	1.7	
Dimensions [mm]	A	208	242	260	280	300	316	343	
	B	196	236	260	273	320	366	389	
	C	190	211	226	236	295	334	460	
	H	108	115	120	130	164	177	237	
	F	3							
Recommended I-beam	M [mm]	68~126	80~146	80~150	80~168	88~168	100~170	122~203	
Net weight	[kg]	5.3	8.7	12.3	10.4	24.0	36.0	83.0	
Gross weight	[kg]	5.8	9.5	12.8	11.4	25.0	46.0	108.0	





Installation

- Beam trolleys should only be installed by a competent person.
- Measure the I-beam flange width (A)
- An equal number of spacers (B) should be used on either side when installing the plain trolley.
- Once the trolley is assembled and mounted on the I-beam, tighten the load bar lock nut (C) and suspend a light load to test. When the wheels (D) are flush with the I-beam, tighten the lock nut completely.
- To adjust the clearance distance between the rolling sleeve (M) and the I-beam on the geared trolley, loosen the axle lock nut (P) and move the axle (O) to the required distance before tightening the axle nut again.



Safe use

Ensure that the trolley is of the correct Working load limit (WLL) for the load and there is sufficient adjustment to fit the beam width.

Adjust the trolley to allow approximately 1.5mm-3mm side clearance (F) between the wheel flanges and the beam flange. Ensure that the beam is fitted with suitable end stops.

Only use for loads suspended directly below the trolley, do not side pull.

Always push rather than pull the load suspended on the trolley.

Never travel a load over anybody.

Once installed check the trolley to ensure that there is free and safe travel along the beam.

Always ensure that the trolley is kept clean and the moving parts are lubricated.

Never exceed the stated pull force for the hand chain on the geared trolley.

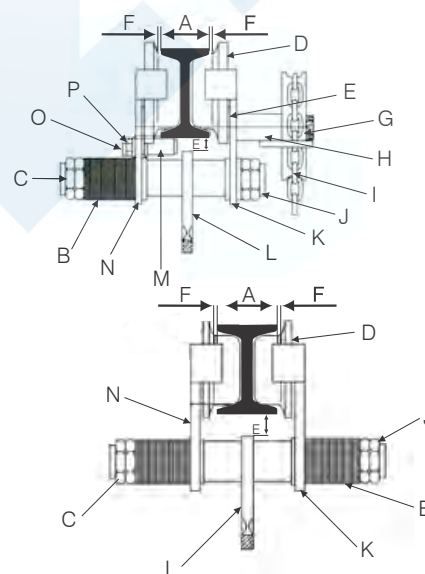
Bearings, gears and I-beam surface should be well greased regularly and all bolts and nuts checked to make sure they are tight.

Inspections

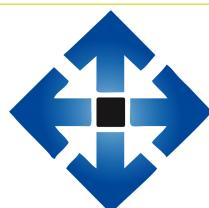
Inspections should be completed by a competent person, before use and at intervals of at least 3 months or sooner if deemed necessary.

Once inspected make sure that the beam trolley is cleaned and working parts lubricated before returning to service.

Never use a beam trolley without a working load limit or a serial number that can be linked to a valid certificate.



A	I-beam width
B	Spacers
C	Load bar lock nut
D	Trolley wheels
E	Hand wheel gear
F	Side clearance
G	Hand chain wheel
H	Hand chain wheel shaft
I	Hand chain
J	Load bar
K	Right side plate
L	Hanger plate
M	Rolling sleeve
N	Left side plate
O	Axle
P	Axle lock nut



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