

HYFIX BODY CLAMP



Hyva stops rattling of the empty tipper body on the chassis and prevents damage to the chassis
avoids unnecessary wear and tear to the tipper while traveling unloaded
reduces the noise nuisance

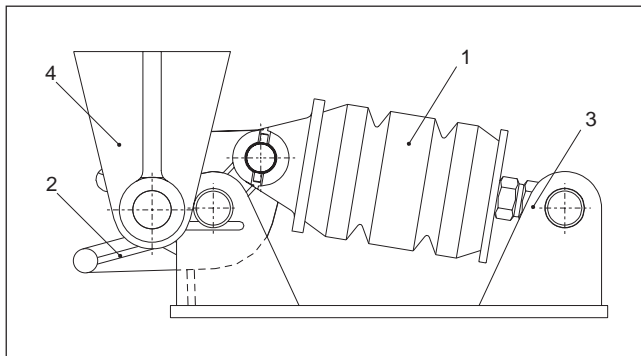
page # 1 / 2

Hyfix: the solution

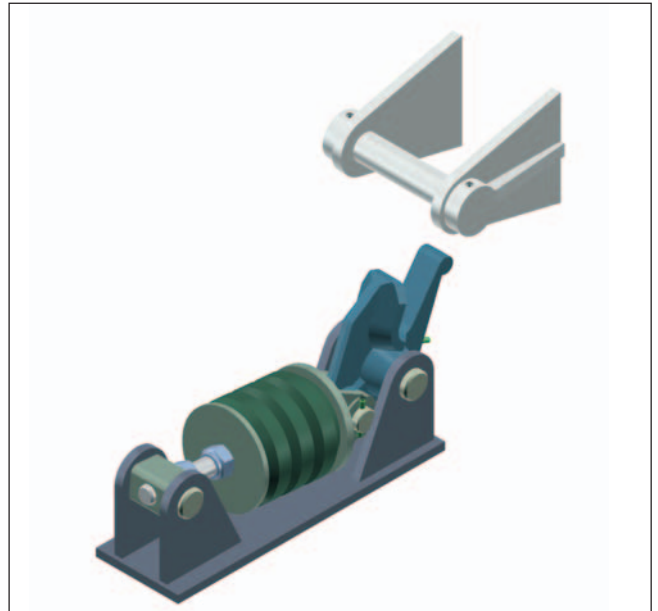
Hyfix body clamp is the revolutionary solution for a consistent tipper problem. A tipper chassis receives enormous hammering from the tipper body caused by potholes and bumps in the road surface. Driving on corrugated roads or across building sites, e.g. dam and road constructions work, causes even more damage to the chassis. The rattling of the tipper body does not cause only a high noise nuisance, but also quite unnecessary wear and tear, (even total damage) to the chassis, the tipper body and to the hydraulic tipping gear. Hyfix resists the forces which occur both in light and heavy load situations. It creates a 'fixed' connection between tipper body and chassis. The compression load in the power block can be adjusted by the continuous bolt and nut, depending on where Hyfix is fitted and the dimensions of the tipper body. The compression load can vary from 250 to 1600 kgs.

main parts

pos.	code no.	description
1		rubber spring
2		hook
3		frame
4		locking bar



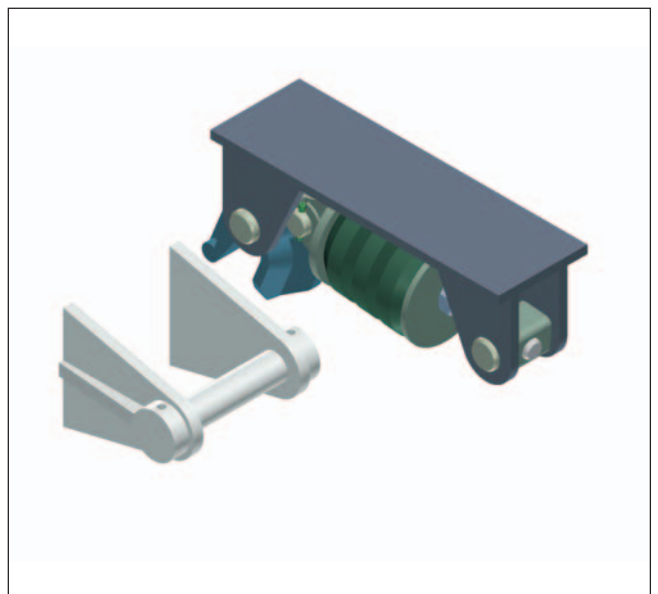
1, 2 & 3	081 02 864 T	Hyfix clamp only
4	148 97 167 T	steel locking bar
4	148 97 168	aluminium locking bar
-	081 02 855	complete Hyfix - steel version
-	081 02 867	complete Hyfix - aluminium ver.



like a lock construction

Hyfix looks like a lock construction! A locking bar, mounted underneath the tipping body, engages with the hook as the body is lowered and the weight of the body forces the hook over centre into the locked position.

The compression load in the power block is sufficient to clamp down an empty tipper body to prevent rattling.



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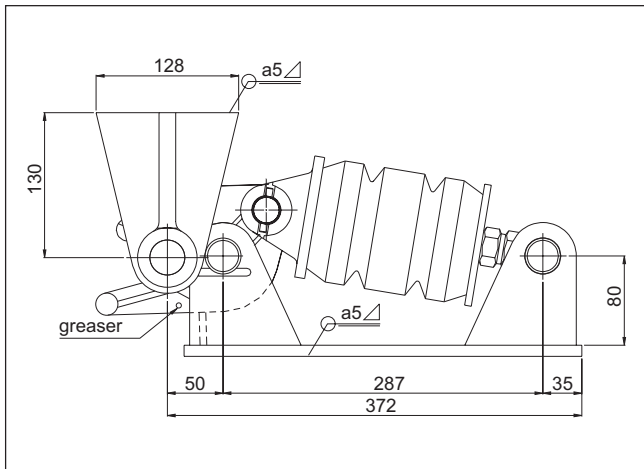


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page # 2 / 2

1. mounting the Hyfix

The Hyfix has to be positioned as close as possible to the headboard. When the tipper body rest on the chassis the horizontal distance between locking bar and Hyfix pen has to be 50 mm and the vertical distance 0 mm. The Hyfix has to be greased regularly. Grease the Hyfix before mounting

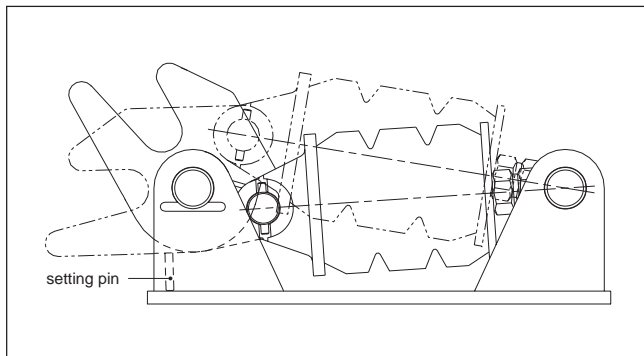


2. welding of the Hyfix

The Hyfix has to be fully supported and welded over the entire surface before the compression load is set, so that no bending moment will arise on the power block and locking bar. The Hyfix bracket has to be fully welded also (a5 weld dimension).

3. open the Hyfix

Open the Hyfix (using a hollow steel bar with ID=±50 mm) and remove the 'setting pin'.



DANGER:
 When the setting pin is removed and the Hyfix closes, there is a possibility of clamping between the power block and the hook.

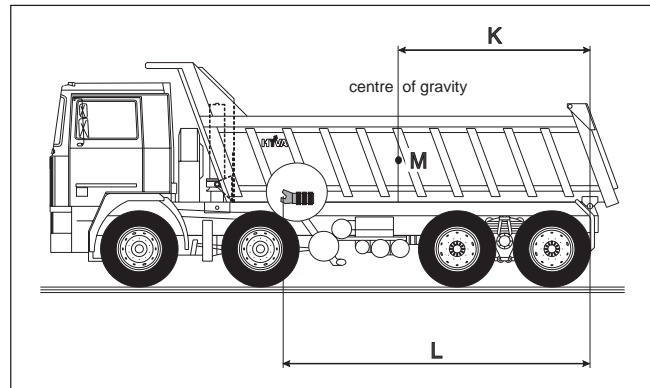
4. compression load

Determine the compression load as follows:
 M = 1500 kg Tipper body with own weight
 K = 2000 mm Distance between centre of gravity and rear hinge
 L = 3500 mm Distance between locking bar and rear hinge

Recommended compression load C:

$$C = M \frac{K}{L} = 1500 \frac{2000}{3500} = 860 \text{ kg}$$

Compression adjustment according the diagram is ±40 mm



compression load diagram

The diagram shows the relation between the power block adjustment and the resulting force in kgs.

