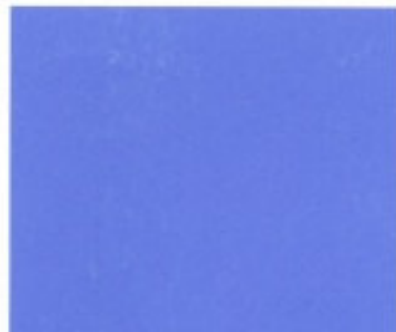




**HAMMAR**



## WE PRODUCE THREE MODELS OF THE HAMMAR 160

1974 THE FIRST HAMMAR rolled out of our workshop. With high quality and top service provided from the very start, we have become the worlds leading producer of self loading trailers.

Hammar's 160-series is a new generation of the well proven SL 30 S with its unlimited life time. A combination of the latest available technology and long experience. The 160 series comes in two basic models; 160 HS and 160 HT (H stands for high stacking). The 160 S and 160 T models are built without high stacking capability. The 160 series can easily be combined with low mounted Hammar stabilizers and are then called 167 HT or 167 T.



Hammar 160 S. The cranes are slid hydraulically on the semi-trailer frame, 20' - 40'. (S stands for sliding).



Hammar 160 HS can high stack any container on top of an 8'6" (2591 mm) high container. Shown here is a 20' - 45' adjustable version.



Hammar 167 HT is a high stacking model mounted on a telescopic trailer. (T stands for trombone). The rear stabilizer, placed low under the semi-trailer frame, makes transferring to or from railway cars and semi-trailers easy.

## TOTAL FLEXIBILITY



With a Hammar you are flexible and independent of other lifting equipment and you avoid waiting time.



You can load and unload from trailer to trailer. When hauling long distance, you can convoy together with several conventional semi-trailers, using the Hammar for loading and unloading.



With the Hammar 160 H and 160 HT you can stack any fully loaded 40' container on top of another one (max 8' 6" = 2 591 mm). With four stabilizers the vehicle stands firmly on the ground.



Loading and unloading containers to and from railway cars is made easy.

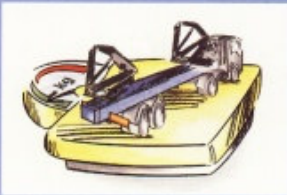


The design of the cranes allows separate handling of two 20' containers on a 40' chassis. The 3" distance between the containers is enough for the Hammar hooks and chains.

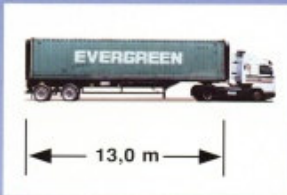


With our Hammar twin lock system you can lift two 20' containers simultaneously.

## CHARACTERISTICS



A twin-axle Hammar 160 S 20' - 40' has a tare weight of only 7.9 tonnes. It is the lightest unit in the industry, giving a high payload and excellent transport economy.



The 160 trailer's overall length is only 13.0 metres (0.8 m longer than a 40' container). It is the shortest side lifter on the market, giving the best manoeuvrability in confined areas.



The cylinders are identical in many places, such as the leg and crane arm cylinders of our 160 HS. Six similar cylinders allow for simple and cheap maintenance.



The stabilizers reach far out. This is important for safe lifting. Hammar leads the industry with 1 850 mm outreach.



Stability when stacking is of utmost importance. All high stacking 160 models have extra stabilizers opposite the handling side.



The 160 series has an integrated security system as standard. The cranes can't be raised if the stabilizers aren't unfolded.



The cranes have a superior outreach. The standard distance between container and semi-trailer can be as long as 1 080 mm



Detail of a 45' Hammar with rear crane and rear under run protection extended beyond the semi-trailer frame.



Hammar can also be delivered on fixed 20' semi-trailers, as with these Hammar 160 H cranes.

## A SEMI-TRAILER FOR EVERY REQUIREMENT



This shows the two principles of the movements of the cranes. Shown here is a Hammar 160 S. The semi-trailer is fixed with the cranes contracted to 20'. The container's centre of gravity is straight above the load centre, allowing maximum load for all container sizes.



Shown here is the same Hammar 160 S with a 40' container. For countries allowing long semi-trailers, we can easily supply 20' - 40' or 20' - 48' capacity Hammars.



Hammar 160 HT in 20' position. A very short and versatile vehicle for confined areas.



Hammar 160 HT with a 40' container. The extension of the semi-trailer is done hydraulically and is manoeuvred from a portable control box. It is delivered with two or three axle bogies, which can be fixed, castor steered or force steered.



Hammar 160 HST. To avoid problems of vehicle length with a 45' container, the rear crane and the under run protection are extended behind the semi-trailer frame. This is possible to achieve within an overall length of 17 metres.



## DETAILS



Hammar 160 is powered by a double flow piston pump mounted directly on the gearbox of the prime mover together with a PTO. Low weight and minimum maintenance.



As an alternative, we offer a diesel engine power pack for independent hydraulic power. With the power pack on the semi-trailer you are free to choose any prime mover.



The cranes are jointed by heavy duty slide bearings with hardened axles polished to exact dimensions.



Together the hydraulic cylinders form the heart of a crane. They are of our own construction and of the highest possible quality. The lifting cylinders are generously dimensioned – 200 mm diameter.



All operational functions are manoeuvred from a portable control box with a six metre long cable.



As an option we can supply cordless remote control or manual hydraulic valves with levers.



The remote control box is kept in a protective and lockable aluminium box.



The new safety hook which we developed ourselves, will not fall out of the corner boxes or catch in the trailer frame by mistake. It is light and easy to handle. It weighs only 1.9 kg and is tested and approved for a container load of up to 47 metric tonnes.



Hammar offers you the option of different combinations of axles and suspensions to suit your every need. Pictured above is a triple bogie with two force steered axles.



As an alternative to manual twist locks, you have an option to order automatic container locks. They will save you a lot of time during every loading and unloading operation.



As an option you can also choose an extra container beam for 2 x 20' containers. By using our ingenious Hammar twin-lock system, two 20' containers can be lifted simultaneously.



The hydraulic hoses move inside a protective casing which can easily be opened when replacing a hose. This makes maintenance easier.



All hydraulic cylinders are connected with special hinged bearings which protect against potentially damaging lateral movement. They give a perfectly straight load and have a long lifetime.



**WE DON'T FOLLOW DEVELOPMENT.  
WE LEAD IT.**



**HAMMAR MASKIN AB**  
SE-517 95 Olsfors, SWEDEN

Phone: +46-33 29 00 00  
Fax: +46-33 29 00 01  
E-mail: [hammar@hammarmaskin.se](mailto:hammar@hammarmaskin.se)  
Website: [www.hammarmaskin.se](http://www.hammarmaskin.se)