

PRODUCT INFORMATION BULLETIN



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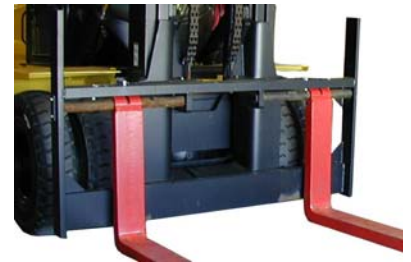
TO: ALL HYSTER DEALER PRINCIPALS, SALES MANAGERS, & SALES REPRESENTATIVES
FROM: PETER SIESSEL – VICE PRESIDENT, HYSTER MARKETING
SUBJ: H170-360HD Carriage/Attachment Options

This bulletin was developed to provide you with an overview of the 17,000 thru 36,000 pound truck carriage/attachment offerings. Even if you have already taken the time to evaluate the available options on the H170-360HD products, you owe it to yourself to take just a little more time to understand the applications they are used in. Hyster Company offers seven different carriage/attachments options in our standard price book for this series. These types include the Standard Pin Type Carriage, Fork Positioner with *Simultaneous Fork Control*, Fork Positioner with *Individual Fork Control*, Sideshift – Pin Type, Dual Function Sideshift Fork Positioner, Sideshift Fork Positioner with *Simultaneous Fork Control* and Sideshift Fork Positioner with *Individual Fork Control*.

In order to satisfy the customer, you must make certain that you are providing the machine configuration that best serves their application. With this in mind, the following information was developed as a guide to assist you in making the proper carriage/attachment selection.

Standard Pin Type Carriage

This pin type carriage is 92.5" (2,350 mm) wide for the H170-280HD and 98.5" (2,500 mm) wide for the H300-360HD. The pin diameters are 3" (75 mm) for the H170-280HD and 3.3" (85 mm) for the H300-360HD. The forks move directly on the pins. The pin diameter for the previous H170-360XL series was also 3" (75 mm) therefore, forks from the H170-280XL may be used on the H170-280HD, but the old forks cannot be used on the H300-360HD.



- Applications for this are all general fork usage, and in numerous cases an attachment of some type is fitted. This option requires only the minimum truck lift and tilt of (2) function hydraulics (We supply (3) function as standard due to numerous requirements for attachments).

Fork Positioner (FP)

The carriage is a pin type and is 92.5" (2,350 mm) wide for the H170-280HD and 98.5" (2,500 mm) wide for the H300-360HD. The pin diameters are 3" (75 mm) for the H170-280HD and 3.3" (85 mm) for the H300-360HD. The pin diameter for the previous H170-360XL series was also 3" (75 mm) therefore, forks from the H170-280XL may be used on the H170-280HD, but the old forks cannot be used on the H300-360HD. In this case only the forks move and are in "carriers" (also known as "pockets") which are connected to the cylinders and assist the fork to slide along the pin reducing the forks tendency to want to crank over sideways.

(Note! As an easy physical recognition point the carriage does not have the two top mounted slide bars as with all other types of sideshifting carriages). This type of carriage allows Fork Positioning (FP) to occur by moving the forks Simultaneously or Independently. To maximize FP the forks must be in the mid position. The total amount of "Out to Out" or "In to In" of the forks affects the amount of FP - with the new HD series the "In to In" of the 170 – 280 remains at 4.65" (118 mm), and the 300 – 360 went from 25.5" (650 mm) to 4.65" (118 mm) dramatically improving the amount of S/S. Total "Out to Out" dimensions are 87.5" (2225 mm) for the H170-280HD and 93.4" (2375 mm) for the H300-360HD.



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- Applications for this type of front end are for general cargo handling, specifically where forks need to be positioned equally “In to In” or “Out to Out” before picking up loads (simultaneous control) or one fork has to be positioned in order to lift the load symmetrically (independent control). Examples of industries where these would be used are lumber, steel and concrete. This option requires a minimum of either (3) hydraulic functions for Simultaneous operation or, (4) functions for Independent operation.

Sideshift (S/S)

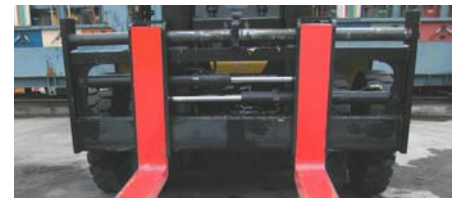
The carriage is 92.5” (2,350 mm) wide for the H170-280HD and 98.5” (2,500 mm) for the H300-360HD. The pin diameter for the H170-280HD series is 3” (75 mm) and 3.3” (85 mm) for the H300-360HD. The forks move directly on the pins, and with the XL series all having had 3” (75 mm) diameter pins this means the old forks will fit the H170-280HD’s but not the H300-360HD products. With this option the forks are mechanically locked into position, the S/S may then be moved with a maximum side to side movement of 6” (150 mm) to either side for the H170-280HD and 8” (200 mm) on the H300-360HD.



- Applications for this are general forklift operation where the load may have to be aligned such as trailer loading, rack loading, etc. Examples of industries where these are used in lumber, steel, concrete, stevedoring, etc. This option requires a minimum of (3) hydraulic functions.

Dual Function Sideshift Fork Positioner (DFSSFP)

The carriage is 92.5” (2,350 mm) wide for the H170-280HD and 98.5” (2,500 mm) for the H300-360HD. The pin diameters for the entire series (H170-360HD) are 3.5” (90 mm). For the H170-280HD the maximum “In to In” is 5.5” (140 mm) and has a maximum “Out to Out” of 86.3” (2,190 mm) with a total sideshift capability of 16.3” (415 mm). The H300-360HD’s maximum “In to In” is 5.5” (140 mm) and



maximum “Out to Out” is 92.1” (2340 mm) with a total sideshift capability of 17.7” (450 mm). To maximize S/S the forks must be in the central position. With this option the forks may be moved Simultaneously or Independently. The fork “carriers” in this case are much heavier duty than any other front end attachment in this series of trucks, and provide support of the fork shank over a greater depth allowing the forks to slide along the load before being fully lifted. This may be required in heavy load applications where they may not be symmetrical or have not been completely picked up before final position changes have to be made.

- Application examples for this type are concrete (lampposts - non symmetrical loads), steel (ingots, odd shaped pieces, etc) and heavy unfinished lumber. This option requires a minimum of (5) hydraulic functions.

Sideshift Fork Positioner (SSFP)

Also known as the “Apron” style sideshift, the carriage is 92.5” (2,350 mm) wide on the H170-280HD and 98.5” (2,500 mm) on the H300-360HD. The pin diameters are 3” (75 mm) for the H170-280HD and 3.3” (85 mm) for the H300-360HD. These options were available only through SPED on the old XL series. As on previous options mentioned the XL forks can only be used on H170-280HD series and not on H300-360HD products. Fork options may be selected to move the forks Simultaneously or Independently, once again “carriers” are used for fork positioning. After the load is positioned on the forks the S/S can be activated (to align loads on trucks, racks, etc.) and the whole “carriage” will move with the load, this eliminates any load scuffing in the area behind the forks.



- Application examples for this option are drywall, any finished product, lumber, etc. This option requires a minimum of (4) hydraulic functions for Simultaneous operation, or (5) functions for Independent operation.

SUMMARY

In order to gain complete satisfaction we must customize our products to satisfy the needs of the customer. The information outlined in this bulletin will allow you to show the customer exactly how your sales team stands out from the other manufacturers sales people who are unaware or cannot explain the benefits of selecting the correct configuration to meet their application needs.

As always, we appreciate the support of our distribution network and the sales organization.

Sincere Regards,



Peter M. Siessel
Vice President of Marketing – Hyster Company

The information contained in this bulletin is for information purposes only, Hyster Company reserves the right to change the design of our products without incurring an obligation to modify previously manufactured products.