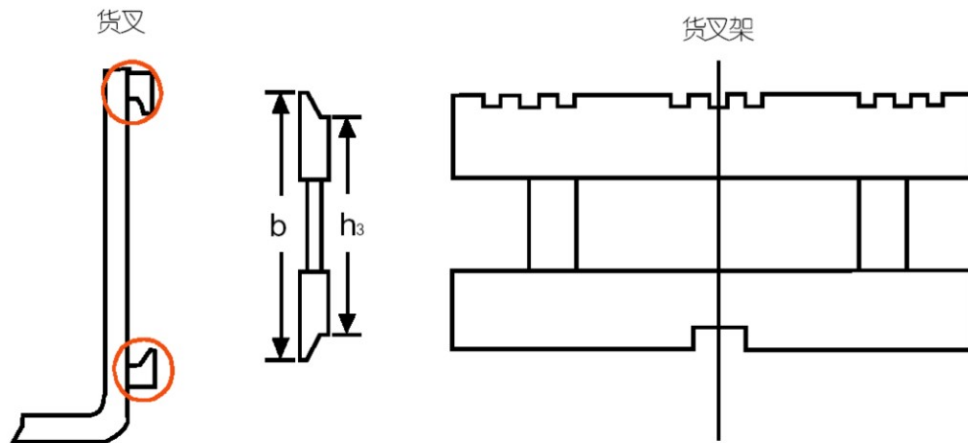


Forklift attachment installation grade and load calculation

At present, China, the United States, Germany, Japan and other countries in the world have adopted the international standard ISO 2328-1993 "Installation Dimensions of Forklift Hook Type Fork and Fork".



Mounting class(A)	II		III		IV		V	
Capacity (Kg)	1000~2500		2501~4999		5000~8000		8001~10999	
unit	mm	inch	mm	inch	mm	inch	mm	inch
b (Nominal)	407	16.02	508	20	635	25	728	28.66
h3 max	381	15	476	18.74	597.5	23.5	681	26.8
h3 min	380	14.96	474.5	18.68	595	23.44	678	26.7

Forklift/Attachment Comprehensive Carrying Capacity Calculation

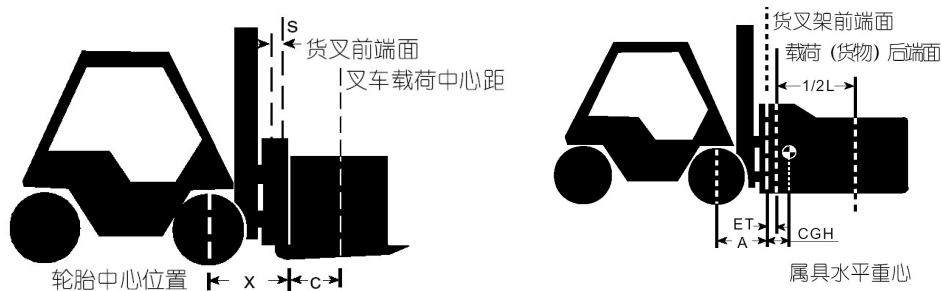
Carrying capacity is an important factor that must be considered in the selection process of forklifts and attachments. The balance weight forklifts installed with attachments will decrease the overall comprehensive bearing capacity of forklifts/attachments due to the following two factors:

- 1 .The torque generated by the weight of the attachment offsets part of

the load-bearing torque of the forklift.

2. Due to the thickness of the frame structure of the attachment, the load center of the cargo moves forward during actual operation.

The following formula helps to calculate the net load capacity, that is, the limit value of the load weight, for reference only.



Q: Forklift rated load capacity--(kg)

(Note: The rated load capacity of a forklift is related to the maximum lifting height)

X: The horizontal distance from the center of the front wheel to the front face of the fork-- (mm)

C: The horizontal distance from the front face of the fork to the load center-- (mm)

S: Fork thickness

M: Attachment weight--(kg)

A: The horizontal distance from the center of the front wheel to the front face of the fork frame-- (mm)

$$A = X - S$$

CGH: The horizontal distance from the front of the fork frame to the center of gravity of the attachment-- (mm)

ET: The horizontal distance from the front face of the fork frame to the rear face of the load-- (mm)

1/2L: The horizontal distance from the rear face of the load to the center of the load-- (mm)

〔Calculation formula〕

$$C_N = \frac{Q(X+C) - M(X-S + CGH)}{A + ET + 1/2L}$$

Take the forklift's rated load-bearing capacity, the load-bearing capacity of the attachment, and the smallest of the calculated comprehensive load-bearing capacity as the comprehensive load-bearing capacity of the forklift/attachment, and the quality of the goods to be carried shall not exceed this allowable value.