

**HIAB**



# **HIAB LOADER BUYER'S GUIDE** **CHOOSING THE RIGHT CRANE**



# CHOOSING THE RIGHT CRANE

1

## What type of material am I lifting?

Examples: Timber, scrap metal, waste and recycling materials, railroad ties, storm debris or concrete pipe

2

## How far do I need to reach?

The distance the loader needs to be able to reach from the side of the truck is measured from the center of the loader's base. Full extended reach affects the loader's lifting capacity.

3

## What is the maximum weight of the material I am lifting at full reach?

The maximum weight should be the heaviest material you lift on a regular basis. A lift chart will help you understand the lift capacity. For example, 1,000 lbs at 30 feet may require more loader capacity than 5,000 lbs at 10 feet.

4

## What type of grapple is required?

For example, if you are handling timber, you may need a bypass grapple. Scrap may require an orange peel grapple. If you are cleaning up debris, a clam style grapple may be needed to minimize damage to the surface beneath.

5

## What size grapple do I require?

The maximum grapple open and closed positions will potentially limit the size of the material or the quantity you can handle.





Once you have answered the above questions, an appropriate loader model and configuration can be selected.

*Note: Once you've chosen a loader to fit your needs, you then need to pair it with a truck spec that is appropriate for the chosen loader. If, however, you choose a truck spec first, then the truck size / spec becomes the limiting factor of the loader size and payload.*

If you have a specific truck, then this will be the base from which maximum loader size and payload limitations will be determined. You must also consider the license category, i.e. a CDL or non-CDL. Non-CDL greatly restricts the size of the truck, the size of the loader and payload.

To find your local sales executive, please click [here](#).

## PAIRING YOUR CHOSEN CRANE WITH THE RIGHT TRUCK



It's crucial that the truck frame can handle the movement, twisting and stress of the loader when operating at maximum outreach and lifting capacity. It is very important to understand the chassis Rated Bending Moment or RBM. RBM specs play a role in determining the size of the loader that a chassis can handle. Therefore, RBM specs must be selected correctly when choosing a truck. In all of these areas of question, Hiab's product support team can and will assist you in determining feasibility.

### Consider state rules.



Rules vary by state. Please make sure to consult with the Hiab engineering department when building your truck to ensure the final product will comply with the rules of your state. Axle loadings, allowable payload, and maximum dimensions all vary by state and may affect the usability of the truck.

### What are your payload requirements?

Having considered the above state rules, you must then calculate the weight of the loader and body when considering payload. Your application may require extra axles and special permits to meet these requirements. Please consult with Hiab engineering.

### Rear mount or behind the cab mount?

It is important to decide whether to mount the loader behind the cab or at the rear of the truck frame. Behind the cab allows the payload to overhang the end of the body and gives the option to have a dump body. A loader mounted at the rear of the chassis requires the product to be lifted over the body and placed between the truck cab and the loader. Rear mount is also the best position for loading a trailer.





# CHOOSING THE RIGHT BODY FOR YOUR PURPOSES

## What body type and style is required for your purposes?

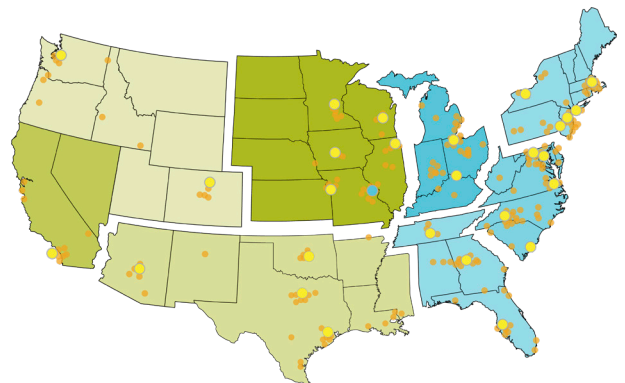
There are many body options that Hiab can provide along with the loader installation. Platform options would include steel floor, wood, rubber, aluminum, dump body, flat body, lumber bunks, hopper body. Along with many accessories, pintle hitch, tool boxes, work lights and many custom options as well.

## Are you using a 3rd party body builder?

If the body is produced by someone other than Hiab, our engineers will work with you regarding truck and loader requirements.



## HIAB USA LOCATIONS



Equipment lead times will vary for truck and equipment, therefore order timing is important.

If you are interested in more information or want to purchase a loader crane, please contact the Hiab sales team at 800.852.2331.

To find your local sales executive, please click [here](#).

### Our commitment to you

Hiab is the world's leading provider of on-road load handling equipment, intelligent services, smart and connected solutions. Hiab's class-leading load handling equipment includes HIAB, EFFER and ARGOS loader cranes, LOGLIFT and JONSERED forestry and recycling cranes, MOFFETT and PRINCETON truck mounted forklifts, MULTILIFT skiploaders and hooklifts, and tail lifts under the ZEPRO, DEL, and WALTCO brands. As the industry pioneer and with a proud 75 year history, HIAB is committed to be the preferred partner and solution provider to its customers and shape the future of intelligent load handling. [www.HIAB.com](http://www.HIAB.com) HIAB is part of Cargotec Corporation. [www.cargotec.com](http://www.cargotec.com)

**For all your sales and service needs, call our nationwide hotline at 419.482.6000 to find your nearest HIAB USA branch.**



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