



**HIAB**



**MOFFETT TRUCK MOUNTED FORKLIFT (TMF) BUYER'S GUIDE**

**CHOOSING THE RIGHT TMF**

# CHOOSING THE RIGHT TMF

You have material which needs to be moved and you need a TMF to move it. Where do you start? First we need to think of the TMF, the transport vehicle and your material as a complete package. Selecting the correct TMF package for your business involves more than clicking a box on an order form.

To begin, we must fully understand four main topics:

- Your application (your material, where you operate, the correct forklift and other considerations)
- Legal requirements
- Transport vehicle
- Mounting kit and installation review

Our experienced team is ready to help guide you through the selection process. To help sharpen the conversation with your Hiab representative, please think about these topics.

## Your Application

At Hiab USA, we sell machines for applications. We base our recommendations on years of experience and customer feedback. We've taken the guesswork out of selecting the correct tool for the job. Visit our applications page by clicking [here](#).

## Your material

Whether you're moving cubed loads, wide loads, or irregularly shaped loads, different materials lend themselves to specific forklift models, capacities, and even fork shapes. Load Weight and Load Center (also known as CG, or the distance from the vertical fork shank to the balance point of the load) help guide the forklift's required lifting capacity. TMFs' capacities generally range from 4500-8000 lbs at a 24" load center.



2-Way machines, where only the rear wheel steers, are preferred for handling cubed loads, due to the unit's optimized weight, high floatation tires, and smartly-engineered design. These machines are best suited to challenging job sites because of the optimized weight and high floatation tires. These would be the MOFFETT .3 Model Range units.



If you handle loads wider than 10', such as lumber, drywall or steel, a 4-Way machine is preferred since it enables carrying the wide loads, sideways, through narrow openings. These would be the MOFFETT .4-Model Range units.

## Where you operate

When operating in densely populated urban settings more often than in subdivisions, or rural settings, the ability to offload both sides of the transport vehicle from a single side is invaluable. MOFFETT's patented-Lift Assist and Pantograph function allow operators to reach the load on the other side of the transport vehicle and can do so with **full capacity**, at an 8' lifting height.



## Legal Requirements

### Size and Weight

State regulations guide the overall allowable length, vehicle and overhanging load. The minimum overhang for each forklift model can be found in the specification sheet. The specification sheet can be found on our applications page by clicking [here](#).

While a weight distribution should be completed on every TMF installation, it's especially important when changing to a heavier model and/or if the new forklift has a longer mounted CG than the forklift it is replacing. Failure to maintain proper weight on the front axle or kingpin can lead to unexpected loss of vehicle control.

The US DOT and Federal Highway Administration (FHA) regulations guide width and weight requirements, which affect TMF installations. States, cities, and seasonal restrictions can be even more strict than the federal guidelines, therefore it is imperative to understand where the forklifts will be used and if any special permits apply.

## Selecting the transport vehicle

Choosing the right transport vehicle requires as much thought as selecting the correct forklift. While a MOFFETT TMF is equally at home on a tractor-trailer or a straight truck, it should be noted that a tractor-trailer is generally more maneuverable than a straight truck, and affords larger payloads. An existing transport vehicle, may limit payload or forklift selection due to overall vehicle length, weight, axle placement, or even axle ratings. It's always better to start with a vehicle which is optimized for the material and the forklift.



Whether mounting on a new or an existing vehicle, your Hiab USA sales manager will work with our engineering team to create an installation package which balances payload expectations with legal requirements. Equipment lead times will vary for vehicles and forklifts, and therefore, order timing is important.

## Mounting kit and installation review

The native and preferred mounting system for the MOFFETT TMF is the MOFFETT Smooth Ride mounting kit. The key design features of the MOFFETT Smooth Ride mounting kit are to allow mounting and dismounting the machine in less than 60 seconds, and to use the forklift's front tires to insulate the forklift from shock loading during transport. Hiab USA also offers optional compatibility with other mounting systems, as well as universal mounting systems.



As part of the sale, Hiab USA will consider your existing fleet, transport vehicle specifications, and legal requirements to recommend the most logical mounting kit solution. Even if the new forklift will be placed on an existing mounting kit, it is highly recommended to consult your Hiab USA representative to ensure proper weight distribution with the new forklift.

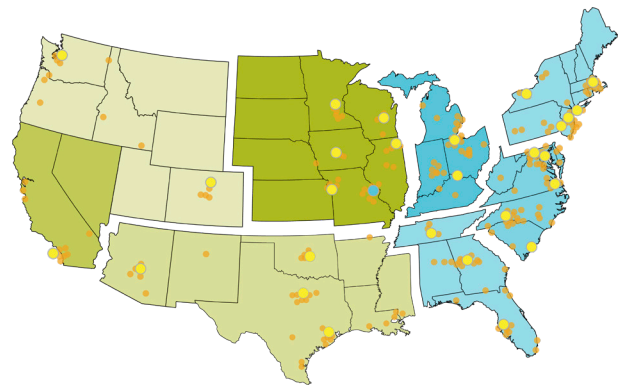
If you have an existing mounting system, and are purchasing a new machine, it's always best to have the installation verified to ensure correct weight distribution and that the new machine mounts correctly in the existing mounting kit.

## Thank You

A journey begins with the first step. If interested in more information or want to purchase a MOFFETT TMF, contact the sales team at (800) 852-2331.

To find out more about Hiab Engineering, body solutions, and how to contact the team, please contact your local sales executive [here](#).

## HIAB USA LOCATIONS



### 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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