

# SAFETY WIGGINS FEATURES MARINA BULL



*Wiggins has been manufacturing marina forklifts for over 40 years. That's 25 years longer than anyone else in the industry.*



# WIGGINS HAS MORE SAFETY FEATURES THAN ANYONE ELSE IN THE INDUSTRY

## UNIQUE TO WIGGINS MARINA BULL

### STABILIFT™ SYSTEM

Wiggins' patented StabiLift System measures the leverage of every boat that the Marina Bull lifts. The system displays the weight of the boat and provides feedback based on a green/yellow/red gauge. If green, the boat is well under the capacity of the forklift. If yellow, the operator is trained to stay in first gear and keep the boat low to the ground. If red, the system prevents the boat from being lifted, based on testing and calibration performed at the factory. If you ever have a question about whether your Marina Bull will lift a particular boat, give it a try, and the truck will tell you whether or not it can be lifted!

### SAFE CARRY HEIGHT

When driving through a door or under overhead obstacles, the operator must be aware of the height of the mast. For decades, Wiggins has provided a stripe of reflective DOT tape on the stationary and movable parts of the mast so that when lined up, the mast is at its lowest height. In addition, when coming up from the water, the Wiggins mast pauses for a few seconds at the safe carry height so the operator knows when to move his hand from the negative lift func-

#### STABILIFT

Wiggins' patented StabiLift system weighs every boat and prevents accidental overload.

tion lever to the carriage lift lever so the boat can be raised a few feet without increasing the mast lift height. These features significantly reduce the possibility of the forklift mast hitting a door and causing damage to the building.

### HIGH STABILITY FACTORS

Wiggins designs the Marina Bull with the most counterweight in the industry, providing more stability and better traction for the steer tires when carrying high capacity loads. Wiggins also increases stability factors as the lift height increases, critical to maintaining control while racking boats on high racks. The taller the lift height on a Marina Bull, the heavier the counterweight must be to compensate for the dynamics that occur during high lifts. Wiggins Marina Bull top rack capacity ratings have proven to be the highest in the industry for any model, due to this higher stability factor.

### STABILOCK STEER AXLE SYSTEM

Two decades ago Wiggins developed a method to widen the forklift stability triangle into a stability rectangle, while still allowing steer axle articulation. A tall Marina Bull mast raises the center of gravity such that if the drive wheels pass over uneven ground, such as a drainage grate, and the mast tilts to one side, the passive hydraulic system attached to the steer axle inhibits the forklift motion and helps to safely bring the mast back to center. Also, the hydraulics can be locked so that the wheels at all four corners of the machine are firmly in contact with the ground, significantly reducing the possibility of side tip. Although others have attempted to copy this system, the Wiggins system is the only one specifically designed to handle the mast tilting at high lift heights.

### LOCKING COUNTERBALANCE VALVES

On all cylinders that affect the ability to carry a load safely, Wiggins uses locking valves. The lift cylinders, tilt cylinders, and fork swing cylinders are all protected by these valves that prevent unplanned movement in the event of a hydraulic hose failure. In addition, these valves provide better slow movement control since hydraulic pressure is required to open them. Finally, when the forks are left up over time, they do not drift downward when the machine is shut off and left unattended. These valves also provide a safe and simple procedure for slowly lowering the forks in case of loss of power. The carriage will never come crashing down in the event of a hose failure, unlike forklifts from other manufacturers.

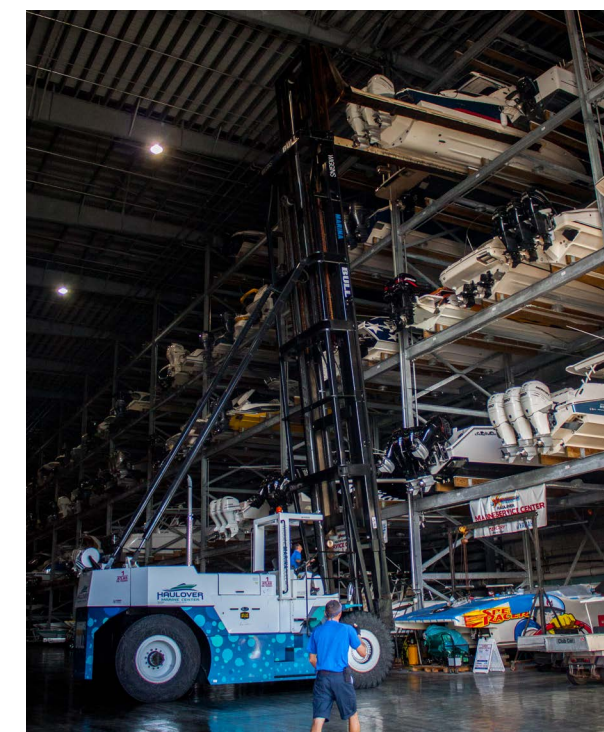


#### SAFE CARRY

Reflector tape shows when inner and outer sections of the mast are lined up and in the safe carry position.

#### STABILOCK

Locking hydraulic cylinders on the steer axle increases stability and prevents mast tilting at high lift heights.



# STANDARD

## BACKUP CAMERA

When the operator shifts the directional control into reverse, the backup camera image appears on the display.

## BACK UP ALARM

All Wiggins Marina Bulls have an audible alarm that sounds when the operator is in reverse. Optional visual notifications such as flashing strobe lights, positioned on the counterweights, provide awareness that the truck is in reverse.

## WHEEL NUT INDICATORS

Proper wheel nut torque is critical to safe operation throughout the duty cycle of the truck. High contrast color indicators are installed on all Marina Bulls wheel nuts so an observer can see at a glance that the wheel nuts are tight because they have not moved. A wheel nut indicator that is not angled in concert with the adjacent wheel nuts alerts the mechanic or operator that they need to be checked for proper torque.

## HORN

As required by international standards, there is an operator activated horn button.

## COMPLIANCE WITH ANSI/ITSDF B56.1-2016

Wiggins products comply with all applicable sections of this standard. Where specifications are not directly applicable to marina forklifts, Wiggins maintains the intent of the section.

## OTHER STANDARD WIGGINS SAFETY FEATURES

- » High stability factor
- » Forks/carriage explicitly designed for long load center boats
- » Rear view mirrors
- » Rear counterweight mirror
- » Skidresistant safety walk on all walkable surfaces
- » Spring applied, hydraulic release parking brake
- » Integrated handrails
- » UL listed battery disconnect
- » Emergency stop button
- » Occupancy sensor switch
- » Seatbelt



### WHEEL NUT INDICATORS

Indicators on the wheel nuts quickly show when any nut has lost torque.

WIGGINS LIFT COMPANY

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