
CHALLENGER®

CH-50

HEAVY DUTY INTEGRATED TOWING & RECOVERY EQUIPMENT



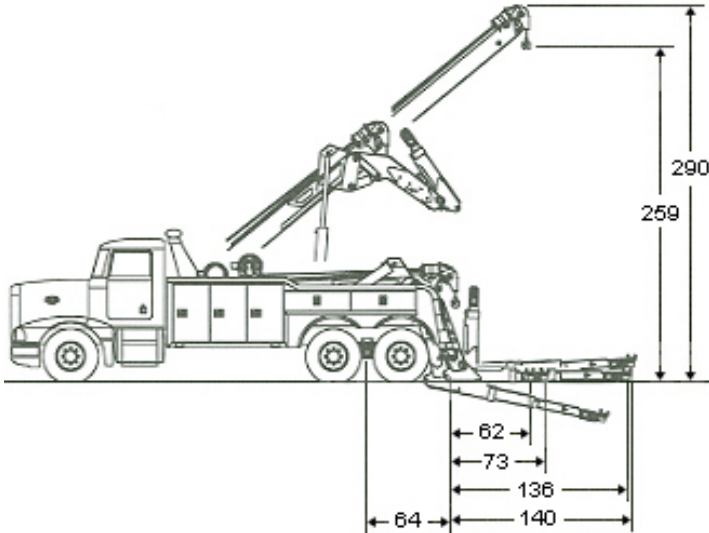
The CH-50 from Challenger is built to perform in both towing and recovery applications. Dual 50,000 lb. planetary recovery winches mounted on a full hydraulic 50-ton recovery boom combined with an integrated underlift that offers full power tilt sets the **CH-50** well ahead of the competition. Couple those features with an underlift reach of 136", an underlift design that does not interfere with recovery applications plus a weight conscious body design, and you'll understand why the **CH-50** from Challenger is in a class by itself.

**Challenger's
CH-50**
*... A Heavy Duty
Towing Vehicle In a
Class by Itself!*

Note: Some optional equipment may be shown.

Challenger CH50

Wrecker Specifications



Body

Standard Body Configuration

- > 156" C.B. Steel

Optional Body Configuration

- > 156" C.B. Aluminum
- > 180" C.B. Steel or Aluminum
- > 204" C.B. Steel or Aluminum

Maximum frame height for the CH50 is 42".

Contact the factory for information on taller frame height.

Boom

Boom Structural Rating (S.A.E.)

- > Retracted 30° 100,000 lbs.
- > Extended 30° 30,000 lbs.

Maximum Extension 140"

Maximum Angle 39°

Maximum Hook Height 259"

Reach Past Underlift 3° Boom Angle 127"

Lift Cylinder Size 7" Bore

*Estimated Shipping Weight 17,650 lbs.

Winch

Winch Capacity (2) 50,000 lbs.

Winch Type Planetary

Cable Specifications

- > 3/4" x 250'
- > 6 x 37 I.W.R.C.

Air Cable Tensioners Standard

Air Winch Clutch Release Standard

Underlift

Underlift Tilt 10° + 7° -

Capacity Fully Extended to C.L. of Forks 17,000 lbs. @ 136"

Capacity Fully Retracted to C.L. of Forks 55,000 lbs. @ 62"

Recommended Minimum Chassis

Front Axle 14,600

Rear Axle 40,000

Clear C.B. 156" C.B.

After Frame from Center of Rear Axle 40"

R.B.M. 3,000,000 in/lb.

All recommendations are minimums, heavier specifications may be required depending on chassis and equipment weight. Always consult your local distributor or the factory for additional information. The outside frame rails of chassis extending behind cab must be free of fuel tanks, air tanks, battery boxes, etc.

Standard Body Features

- Steel Modular Body
- 96" Wide
- 3 Large Forward Compartments
- Compartment Over Wheel Well
- Galvanized Double Panel Doors
- Door Checks
- Double Action Latches w/Key
- Federal #108 Lighting
- Flexible Wire Loom
- Toolbox Lights
- Rubber Fenderettes
- Mud Flaps
- Side Worklights
- Chain Rack
- Fork Holders
- Recessed Air & Electrical Hookups
- Shelves
- Rubber Isolators
- Enclosed Inner Wheel Wells
- Light Pylon – 3 Piece
- "D" Rings (Tail Board Mount)
- Fork Riser Brackets
- Power Touch System (Includes 15-Function Wired and Wireless Controllers, In-Cab Underlift Controls, and Front & Rear 12-Function Switch Panels)

Standard Boom Features

- Power Elevation
- Power Extension
- Dual Planetary Hydraulic Winches
- Air Cable Tensioners
- Air Free Spools
- Diagonal Rear Spade
- Flipper Foot Spade
- Dual Hydraulic Pump
- 360° Sheave Head
- Cable Tie Back (Boom)
- Dual Control Stations
- Hydraulic Pressure Gauges (Drivers Side)
- Tail Board Recovery Anchors

Standard Underlift Features

- Power Elevation
- Power Extension
- Power Tilt
- Hydraulic Fold
- 3 Stage Design
- 2 Piece Pivot Pin
- Upper/Lower Thrust Washer
- Handheld Lanyard
- Low Profile Crossbar

Standard Underlift Features (cont)

- 70° Pivoting Crossbar
- Low Profile Fork Holders
- 8 Sets Cast Steel Forks
- 1 Pair Spring Lift Adapters
- 1 Pair Hook Adapters
- Safety Chains in Rear Pockets

Optional Equipment

- Air Shift P.T.O.
- Tailgate Underlift Controls
- Additional Body Lengths
- Aluminum Modular Boxes
- Tunnel Crossovers
- 24", 30", 36", and 48" Tunnel Saddle Box
- LED Smart Lights (Aluminum body)
- Convenience Group (Rails & Steps)
- Aluminum Dress-up Kits
- Composite Aerodynamic Light Pylon
- Composite Boom Wings
- 7-Drawer Tool Box
- Folding Sink
- Offset Fort Holder Extensions
- Chain Hook Slide Adapter
- Pintle Hook Attachment
- 5th Wheel Plate (Requires Pintle Hook Attachment)
- King Pin Attachment (Requires Pintle Hook Attachment)
- Trailer Ball Adapter (Requires Pintle Hook Attachment)
- Heavy-Duty Tire Lift
- Tire Lift Storage Brackets
- Additional Lifting Forks
- Low Pull "D" Ring Kit
- Chain Kits
- Recovery Straps
- Snatch Blocks
- Boom Angle Indicator
- Light Bar
- Strobe Kits
- Work & Hookup Lighting
- Wide Load Light Bar
- On-Board Truck Scale
- Engine Data Information Center
- Rear Camera and Monitor
- Installation
- 3-Stage Trident Boom Option (rated at 18,000 lb capacity at full extension and provides 299" of hook lift height at maximum boom angle)

All ratings are based on structural factors only, not vehicle capacities or capabilities. Specifications shown are approximations and may vary depending on chassis selected. Miller Industries Towing Equipment Inc. reserves the right to change or modify product and or specifications without notice or obligation. Some equipment shown is optional.



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