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TOW TRACTOR
10,000 – 15,000 LB
PRODUCT BROCHURE

T5-7ZAC



T5-7ZAC SERIES

Latch onto your full low level order picking or transportation capabilities.

The Hyster® T5ZAC and T7ZAC tow tractors provide you the towing capacities to meet your needs. The 3-phase AC induction drive motor unit with integral, tapered roller steer bearing enhances operator control. In addition, it provides authoritative towing power capable of pulling from 10,000 lb (T5ZAC series) to 15,000 lb (T7ZAC series) rolling payload. The 24-volt AC electrical system and transistor controller give you maximum energy efficiency, reduced maintenance and infinite speed control. The state-of-the-art CANbus electrical system reduces wiring and electrical connections, streamlining communications and improving reliability and serviceability.

The 3-position tilt steer column, 17-inch wide steer handle with full rotary grips, and the low profile of the floor mounted high speed pedal provide you excellent ergonomics when transporting goods from point A to point B.

The spacious operator compartment is equipped with a forward bulk-head, operator's back pad, and a shock absorbent floor mat. The removable 1-inch thick floor mat helps reduce the effects of vibration and standing stresses, while enhancing operator stability when traveling over uneven surfaces. A low step height makes entry and exit easy.

Equipped with a 2-stage electro-mechanical brake, applying the brakes is as easy as squeezing either of the two hand brake levers on the control handle. First-stage applies the Auto Deceleration System. The second stage fully applies the brake. Large push buttons can be operated easily from either side of the steer handle.

The T5ZAC and T7ZAC tow tractors are equipped with an automatic latching, manual released jaw-type coupler. Its tow height is adjustable between 7.4 to 12.6 inches from the floor.



Hyster i³ Technology™

Hyster i³ Technology™ integrates commonality among Hyster warehouse products and simplifies the way in which operators and technicians handle and service the truck. This technology allows operator input to optimize performance to suit operator skill level. It also provides setup and diagnostic menus for service technicians.



Your operators can work longer between battery charges with the AC traction control utilized in these 24-volt tow tractors. Plugging, acceleration and top speed can be adjusted to match your operation's requirements. In addition, it provides maximum energy efficiency, reduced maintenance and infinite speed control. The sealed enclosure protects against water and contaminants.



T5-7ZAC tow tractor series' has a 17-inch wide control handle and standard multi-function display (not shown). An optional 25-inch wide control handle is available, as well as the optional "Side Glide" feature that helps increase your picking productivity by making travel between pick-up locations faster. An optional convenience tray is also available.



Mounted in the floor plate, the high speed or "rabbit" speed switch gives the T5-7ZAC Tow Tractor excellent travel speeds, helping to increase productivity.



3-position tilt steer column helps give you comfort and stability. T5-7ZAC Tow Tractor is shown with the 17-inch wide control handle equipped with the optional "Side Glide" feature.

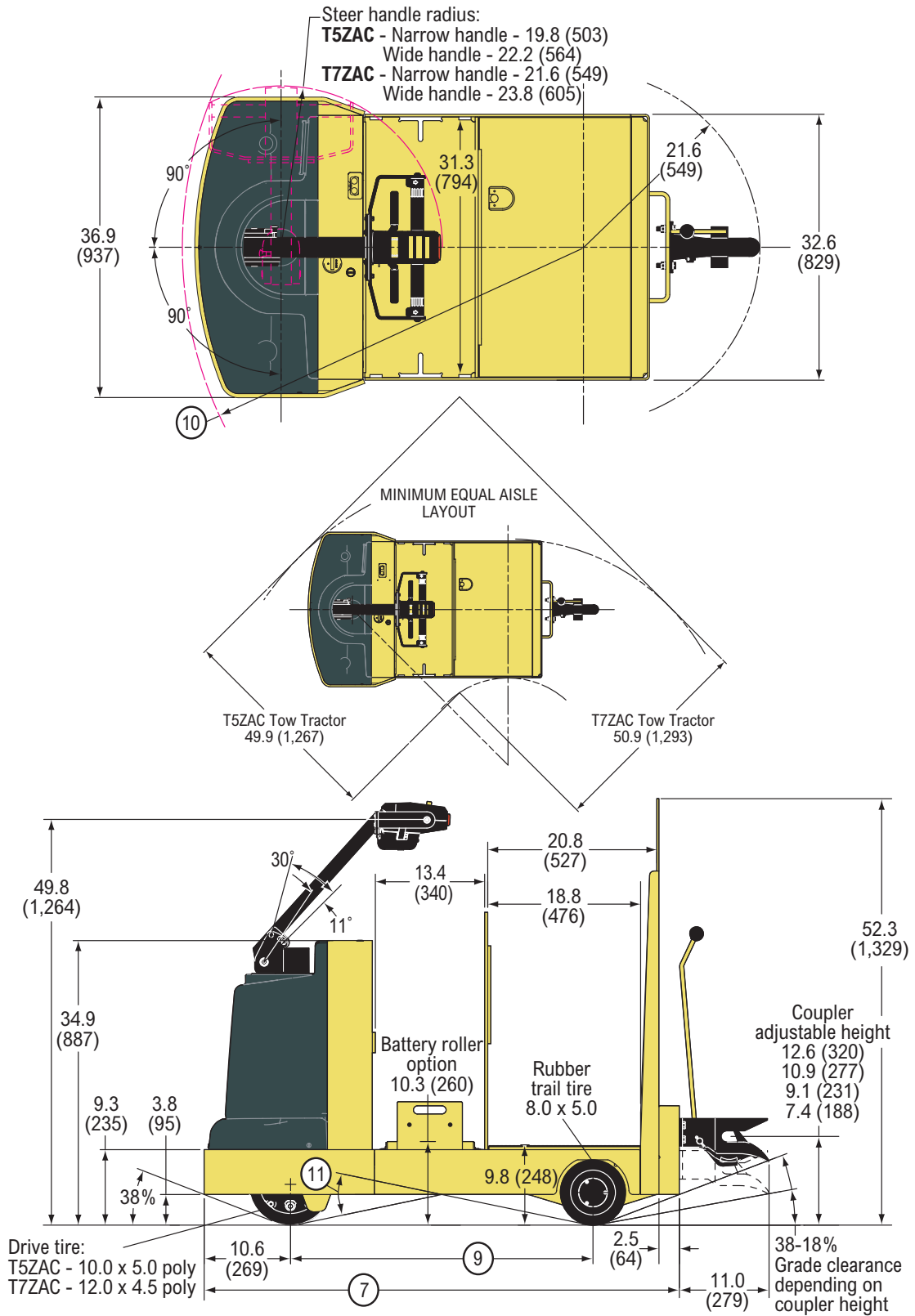


Sealed and bathed in oil, the Master Drive Unit (MDU) bearings provide quiet, smooth, low-effort control.



This Hyster T5-7ZAC Tow Tractor series features a resilient high-impact thermo-plastic cowl cover that won't crack or break. It provides excellent protection against potential damage to internal components like the motor and electronic controls. The top cover is fastened with "snap-fit" spring clips for quick, easy removal. The bottom cover is held in place by 3 screws.

T5-7ZAC DIMENSIONS



Circled dimensions correspond to the line numbers on the tabulated chart inside the technical guide. Dimensions are in inches (millimeters).

T5-7ZAC SPECIFICATIONS

| DIMENSIONS | 1 | Manufacturer | | Hyster | |
|------------|--|--|------------|--|-------------------------|
| | 2 | Model | | T5ZAC | T7ZAC |
| | 3 | Capacity, rolling load ¹ | lb (kg) | 10,000 (4,536) | 15,000 (6,804) |
| | 4 | Drawbar pull, normal ² /maximum | lb (kg) | 200 (91)/700 (318) | 300 (136)/1,000 (454) |
| | 5 | Voltage | | 24 | 24 |
| | 6 | Truck width | in (mm) | 36.9 (937) | 36.9 (937) |
| | 7 | Overall length, with coupler | in (mm) | 69.3 (1,760) | 71.3 (1,811) |
| | | Overall length, without coupler | in (mm) | 58.3 (1,481) | 60.3 (1,532) |
| | 8 | Battery compartment size, length x width | in (mm) | 13.4 x 31.3 (340 x 794) | 13.4 x 31.3 (340 x 794) |
| | | Maximum battery size, length x width | in (mm) | 13.0 x 30.9 (330 x 785) | 13.0 x 30.9 (330 x 785) |
| | | Battery | Type | Lead acid Thin Plate Pure Lead ³ Lithium-ion ³ | |
| | 9 | Wheelbase | in (mm) | 37.1 (942) | 39.2 (996) |
| | 10 | Turning radius, OTR narrow handle | in (mm) | 49.2 (1,250) | 51.9 (1,318) |
| | 11 | Grade clearance, frame | % | 43 | 42 |
| 12 | Travel speed, standard equipped truck No Load | mph (km/h) | 7.8 (12.6) | 8.4 (13.5) | |
| | Travel speed, standard equipped truck 200 lb DBP | mph (km/h) | 4.4 (7.1) | 4.2 (6.8) | |

¹ Rolling load capacity is the gross weight of a trailer, having rolling resistance equal to 2% of gross weight, which can be towed by a force equal to the normal drawbar pull.

² Normal drawbar pull is the greatest continuous towing force which can be sustained with stable component temperatures, under the duty cycle and test conditions specified in ANSI B56.9 - 1992.

³ Optional with Hyster Power Collect™

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

CERTIFICATION: These Hyster® lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.9 revision in effect at time of manufacture. Performance specifications are for a truck equipped as described under standard equipment on this technical guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature, condition of the operating area, proper service and maintenance of the vehicle. If these specifications are critical, the proposed application should be discussed with your dealer.

T5ZAC BATTERY AND COMPARTMENT SPECIFICATIONS

| Number of cells | Cell size | Plates per cell | Capacity Amp-hours | Kwh | "X" dimension in (mm) | "Y" dimension in (mm) | "Z" dimension in (mm) | Battery weight lb (kg) |
|-----------------|-----------|-----------------|--------------------|------|-----------------------|-----------------------|-----------------------|------------------------|
| 12 | 75 | 11 | 375 | 8.7 | 26.5 (673) | 13.0 (330) | 23.3 (592) | 825 (374) |
| 12 | 85 | 11 | 425 | 9.9 | 26.1 (663) | 12.8 (325) | 23.3 (592) | 865 (392) |
| 12 | 75 | 13 | 450 | 10.5 | 30.9 (785) | 13.0 (330) | 23.3 (592) | 987 (448) |
| 12 | 85 | 13 | 510 | 11.9 | 30.9 (785) | 13.0 (330) | 23.3 (592) | 1,035 (469) |

T7ZAC BATTERY AND COMPARTMENT SPECIFICATIONS

| Number of cells | Cell size | Plates per cell | Capacity Amp-hours | Kwh | "X" dimension in (mm) | "Y" dimension in (mm) | "Z" dimension in (mm) | Battery weight lb (kg) |
|-----------------|-----------|-----------------|--------------------|------|-----------------------|-----------------------|-----------------------|------------------------|
| 12 | 75 | 11 | 375 | 8.7 | 26.5 (673) | 13.0 (330) | 23.3 (592) | 825 (374) |
| 12 | 85 | 11 | 425 | 9.9 | 26.1 (663) | 12.8 (325) | 23.3 (592) | 865 (392) |
| 12 | 75 | 13 | 450 | 10.5 | 30.9 (785) | 13.0 (330) | 23.3 (592) | 987 (448) |
| 12 | 85 | 13 | 510 | 11.9 | 30.9 (785) | 13.0 (330) | 23.3 (592) | 1,035 (469) |
| 12 | 100 | 13 | 600 | 14.0 | 30.9 (785) | 13.0 (330) | 26.2 (665) | 1,140 (517) |
| 12 | 125 | 13 | 750 | 17.6 | 30.9 (785) | 13.0 (330) | 31.0 (787) | 1,450 (658) |

NOTES:

- Steel tray with cover required for all batteries
- Battery connector type 175 amp, red
- Cable lead position "B"
- 20.0" (508 mm) cable length
- Maximum cable gauge of 1/0
- Battery well: 31.3" x 13.4" x open (794 mm x 340 mm x open)
- 24 volt

T5-7ZAC FEATURES AND OPTIONS


| PERFORMANCE | STD | OPT |
|---|-----|-----|
| 24-volt AC electrical system | x | |
| AC traction motor | x | |
| Separately Excited Motor (SEM) technology | x | |
| MOSFET traction controller | x | |
| Auto deceleration system | x | |
| Floor mounted high speed switch | x | |
| Four operator selectable performance modes | x | |
| DRIVE | STD | OPT |
| Drive tire (T5ZAC) | | |
| – 10" x 5" polyurethane 90 durometer | x | |
| – 10" x 5" rubber 65 durometer | | x |
| Drive tire (T7ZAC) | | |
| – 12" x 4.5" polyurethane 90 durometer | x | |
| – 12" x 4.5" soft polyurethane 80 durometer | | x |
| – 12" x 4.5" siped polyurethane 90 durometer | | x |
| Load wheels | | |
| – 8" x 5" rubber 65 durometer | x | |
| – 8" x 5" polyurethane 90 durometer | | x |
| HANDLING | STD | OPT |
| Coupler | | |
| – Automatic jaw type with integrated manual release | x | |
| – Pin type | | x |
| – No coupler | | x |
| ERGONOMICS | STD | OPT |
| Steering column with three tilt positions | x | |
| Removable thick cushioned floor mat | x | |
| Cushioned knee and back pads | x | |
| Premium backrest package | | x |
| OPERATION | STD | OPT |
| Battery connector | | |
| – 175 amp red | x | |
| – 175 amp grey | | x |
| Control handle | | |
| – 17" wide | x | |
| – 25" wide | | x |
| – Side Glide™ | | x |
| Convenience tray (battery mounted) | | x |
| RF terminal power supply – 24 volt | | x |
| Audible alarm (reverse direction activated) | | x |
| Multifunction full-color touch display | | |
| – Battery state of charge | x | |
| – Hour meter | x | |
| – Fault indicator | x | |
| Electronic horn | x | |
| Two-stage brake switch | x | |
| Electro-mechanical park brake | x | |
| On-board software | | |
| – Program, test and diagnose | x | |
| – No handset required | x | |
| – Password protected | x | |

| ENERGY SYSTEM | STD | OPT |
|--|-----|-----|
| Set for flooded cell | x | |
| Set for maintenance free | | x |
| Hyster Power Collect™ | | x |
| SUPPLEMENTAL | STD | OPT |
| 12 months/unlimited hour manufacturer's warranty | x | |
| 36 months/6,000 hour powertrain warranty | x | |
| 60 months/10,000 hours frame warranty | x | |
| 3 year/6,000 hour part A comprehensive parts and labor no deduct | | x |
| 5 year/10,000 hour part A comprehensive parts and labor no deduct | | x |
| 5 year/10,000 hour part B powertrain parts and labor no deduct | | x |
| HY-Shield - part A extension to 3 years/6,000 hours - part B extension to 5 years/10,000 hours | | x |
| Parts manual | | |
| – CD | | x |
| – Printed | | x |
| Operating manual | x | |
| CONSTRUCTION | STD | OPT |
| UL Classification "E" | x | |
| UL Classification "EE" (T7ZAC only) | | x |
| Application/Environmental Construction | | |
| – Standard construction operating temperatures: +32°F to 120°F | x | |
| – Cooler/Freezer Package: Operating temps: 0°F to +120°F | | x |
| Key ignition switch | x | |
| Keyless toggle start switch | | x |
| 31.2" x 13.4" open battery compartment | x | |
| Battery rollers | | x |
| 20.8" x 32" wide operator's compartment | x | |
| VISIBILITY | STD | OPT |
| Amber LED strobe light | | x |





Hyster Company
P.O. Box 7006, Greenville, North Carolina 27835-7006

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