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**STRONG PARTNERS.  
TOUGH TRUCKS.™**



**T5-7Z<sup>AC</sup> SERIES**

**TOW TRACTORS**

## > T5-7Z<sup>AC</sup> SERIES

LATCH ONTO YOUR FULL LOW LEVEL ORDER PICKING OR TRANSPORTATION CAPABILITIES.

The Hyster® T5Z<sup>AC</sup> and T7Z<sup>AC</sup> 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 lbs. (T5Z<sup>AC</sup> series) to 15,000 lbs. (T7Z<sup>AC</sup> 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 that control travel speed and direction provide you excellent ergonomics when transporting goods from point A to point B. What's more, the floor mounted, high speed pedal's low profile provides easy access to maximum travel speed.

A spacious operator compartment is 20.8" deep and 32.0" wide. It comes equipped with a forward bulk-head, operator's back pad, and a shock absorbent, removable 1.0" thick floor mat affording ample cushioning. It also reduces the effects of vibration and standing stresses, while enhancing operator stability over uneven surfaces. Best of all, with a 9.8" step height, entry and exit is 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 T5Z<sup>AC</sup> and T7Z<sup>AC</sup> 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® I<sup>3</sup> TECHNOLOGY™

*Hyster® I<sup>3</sup> Technology™ integrates commonality among Hyster warehouse products and simplifies the way in which operators and technicians alike 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 will 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.*



*T5-7Z<sup>AC</sup> tow tractor series' 17-inch wide control handle and standard multi-function display are 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 T5-7Z<sup>AC</sup> Tow Tractor series' excellent travel speeds. So whether you're towing one or more carts your operators spend less time traveling, for enhanced productivity and a better bottom line.*



*3-Position tilt steer column affords you increased comfort and stability, not to mention easy battery change outs. T5-7Z<sup>AC</sup> Tow Tractor is shown with the 17-inch wide control handle equipped with the optional "Side Glide" feature. In addition, the optional convenience tray is shown.*

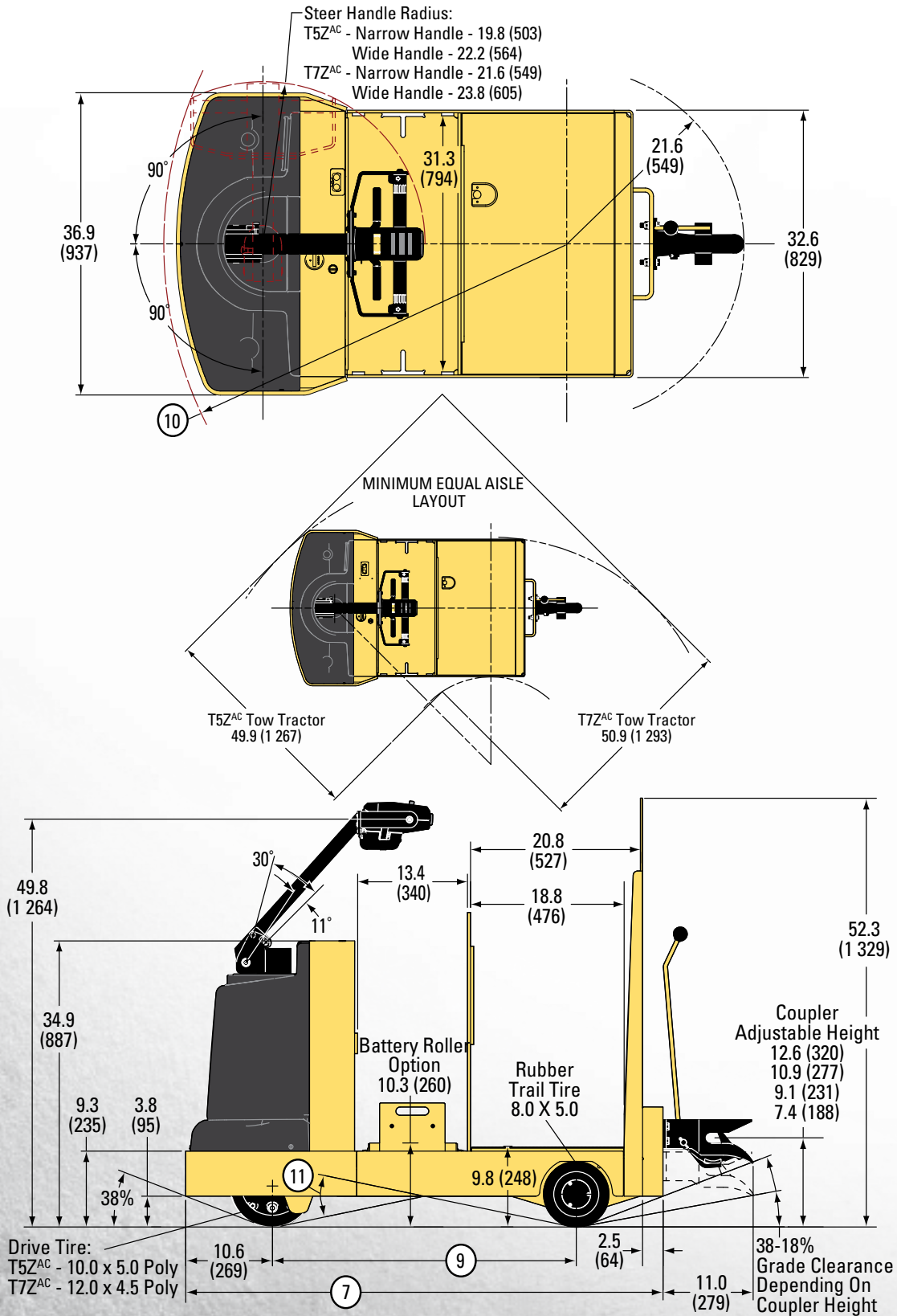


*Sealed and bathed in oil, the Master Drive Unit (MDU) bearings provide quiet, smooth, low effort control of the T5-7Z<sup>AC</sup> Tow Tractor series. Its muscular Master Drive Unit has an integrated pinon gear with a splined coupling for ease of service.*

This Hyster T5-7Z<sup>AC</sup> Tow Tractor series features a resilient high impact thermo-plastic cowl cover that won't crack or break. It provides excellent protection against unexpected 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.



# > T5-7Z<sup>AC</sup> DIMENSIONS



Circled dimensions correspond to the line numbers on the tabulated charts on page 7.  
 Dimensions are in inches (millimeters).



<b>DIMENSIONS</b>	1	Manufacturer		Hyster Company	Hyster Company
	2	Model		T5Z <sup>AC</sup>	T7Z <sup>AC</sup>
	3	Capacity, rolling load*	lb (kg)	10,000 (4 536)	15,000 (6 804)
	4	Drawbar pull, normal**/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)
	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)	

\* 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.

\*\* 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.

† NOTE: Performance specifications are for truck equipped as described under Standard Equipment in this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.

\*\* CERTIFICATION: These Hyster tow tractors meet the design specifications of Part II ANSI B56.1 - 1969, as required by OSHA Section 1910.178 (a) (2) and with Part III ANSI B56.9 - revision in effect at time of manufacture. used with your local authorized Hyster dealer.

## T5Z<sup>AC</sup> 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 lbs (kgs)
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)

## T7Z<sup>AC</sup> 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 lbs (kgs)
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:

- (1) Steel tray with cover required for all batteries
- (2) Battery connector type 175 Amp, Red
- (3) Cable lead position "B"
- (4) 20.0" (508 mm) cable length

- (5) Maximum cable gauge of 1/0
- (6) Battery well: 31.3" x 13.4" x open (794 mm x 340 mm x open)
- (7) 24 Volt

# ➤ AT-A-GLANCE FEATURES

## STANDARD EQUIPMENT

24 Volt	48.0" High load backrest
AC traction controller	2-Stage hand brake control
13.4" x 31.3" Battery compartment	Automatic jaw-type coupler with height adjustable positioning from 7.4" to 12.6" high (9.25" height factory setting)
175 Amp, Red battery connector	Standard construction
Key switch	Operator's manual
Electronic horn	20.8" Deep by 32.0" wide operator compartment with 1.0" thick anti-fatigue floormat, knee cushion and backpad
Toggle switch activated, electro-mechanical park brake	High speed "rabbit" cruise control floor switch
Auto Deceleration System (neutral braking)	17.0" Wide control handle with dual, full rotary grip travel control
9.8" Operator compartment step height	U.L. Classification E
12.0" x 4.5" (T7ZAC), 10.0" x 5.0" (T5ZAC) Polyurethane drive tire	
8.0" x 5.0" Rubber trail tires	

## OPTIONAL ENVIRONMENTAL PACKAGES TO FIT YOUR HARSH ENVIRONMENT

The Hyster T5-7Z<sup>AC</sup> tow tractor series is designed for continuous use in general warehouses and refrigerated coolers, as well as intermittent use in freezers to -15°F. Optional environmental packages include continuous cold storage/freezer, severe freezer/corrosion and UL type "EE" classification.

ENVIRONMENTAL PACKAGE CONDITIONS			
Temperatures	+50°F to +30°F	+30°F to -15°F	-15°F to -40°F
Continuous use in freezer	STANDARD	PACKAGE #1	PACKAGE #2
Continuous use in freezer, out of freezer for battery changes and driver breaks	STANDARD	PACKAGE #1	PACKAGE #2
Intermittent Use: In and out of freezer frequently	STANDARD	PACKAGE #2	PACKAGE #2
Intermittent Use: Operated mostly out of freezer (freezer use limited to 5 minutes per 30 minutes)	STANDARD	STANDARD	PACKAGE #1

### PACKAGE #1: COLD STORAGE/FREEZER

- Available in T5Z<sup>AC</sup> and T7Z<sup>AC</sup>
- Tow Tractor models

#### Contents:

- Low temperature hydraulic fluid
- Handle heater (Horn switch)

#### Recommended Options:

- Siped poly drive tire

### PACKAGE #2: SEVERE FREEZER/FOOD PROCESSING/CORROSION

- T7Z<sup>AC</sup> only

#### Contents:

- Low (arctic) temperature hydraulic fluid
- Synthetic low temperature gear oil
- Enclosed electrical system
- Shielded motor perforated motor bands
- Sealant added to all electrical connections

#### Recommended Options:

- Siped poly drive tire

### PACKAGE #3: EE CONSTRUCTION

- T7Z<sup>AC</sup> only

#### Contents:

- Enclosed electrical system
- Enclosed traction motor
- U.L. listing for type "EE"

# INNOVATIVE TRUCKS ENGINEERED TO MEET THE MOST DEMANDING APPLICATIONS

For more than 80 years, Hyster has been conquering the world's most demanding applications. In the 1920's Hyster started as a manufacturer of lifting machines used in the rigorous logging industry of the United States' Pacific Northwest. A few years later the first forklift trucks were invented and the Hyster brand quickly gained its reputation for rugged quality. Hyster® lift trucks are designed to lower your cost of operations. Every truck we make — gasoline, LPG, diesel and electric — is purpose-built to excel in its application. Every truck is also backed by an unmatched network of specialists.



**Dealer Network** — Our Dealer Network can offer the expertise of fleet managers, parts suppliers, capital procurement specialists and trainers. Hyster's carefully chosen dealers fully understand customer applications, assist in selecting the right lift truck and provide fast, reliable support.



**Hyster Fleet Services** — Even if you operate other brands, we can manage your maintenance and replacement plan. We can offer complete fleet analysis, fleet history summary and a cost-effective proposal for replacement and scheduled maintenance.



**Parts** — With genuine Hyster® replacement parts and UNISOURCE™ parts for all makes of lift trucks, we are your one-stop source for lift truck parts. In fact, we offer more than 7 million part number crosses for most brands of materials handling and other in-plant mobile equipment.



**Rental Products** — When leasing or buying isn't a practical option, we have access to more than 14,000 units for short- and long-term rental. We'll help you maintain output in a cost-effective manner.



**Hyster Capital** — We can arrange solutions for special financing requirements, taking the difficulties out of buying the equipment you need. Whether you purchase or lease a new or used lift truck, Hyster Capital offers superior service and competitive rates.



**Special Products Engineering Department (SPED)** — Different materials require different handling. That's why we can work with you to customize your lift trucks. From strobe lights to specially made forks, SPED has the tools to help you get the job done right.




**Operator Training** — Proper education in operating lift trucks minimizes the risk of injuries due to accidents while increasing productivity. Hyster offers OSHA-compliant materials that support the training of qualified operators.



**Service** — Your local Hyster® dealer offers a flexible, customized and comprehensive maintenance plan based on each lift truck's operation environment. Hyster service programs offer scheduled inspections and maintenance, along with quick, responsive service dispatched to your location.

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