

# T5-7ZAC SERIES



TOW TRACTORS



## 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, 17.0 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. The standard cushiony backpad, bulk head pad and thick anti-fatigue floor mat provide excellent comfort when the operator is in the transport position. A large operator platform with low step-in height affords quick entry/exit onto the truck, especially for those applications where walking through is common.

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.

*T5-7Z<sup>AC</sup> Tow Tractor series' 17.0 inch wide control handle and standard multi-function display are shown. An optional 25.0 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.*





Spacious operator's 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.



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.

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.



The multi-function display provides at-a-glance battery state of charge indication. In addition, you have ready access to truck hours, and fault indication.

The spring applied, electrically released parking brake is easily applied by turning the park brake switch, conveniently located next to the key switch.

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.



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.

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.



## OPTIONAL ENVIRONMENTAL PACKAGES TO FIT YOUR HARSHTEST 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 degrees Fahrenheit. 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

### Environmental Packages

#### Package #2 - Severe Freezer/Food Processing/Corrosion

Available for only the T7Z<sup>AC</sup> Tow Tractor model

#### 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



### Environmental Packages

#### Package #1 - Cold Storage/Freezer

Available for both the 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

### Environmental Packages

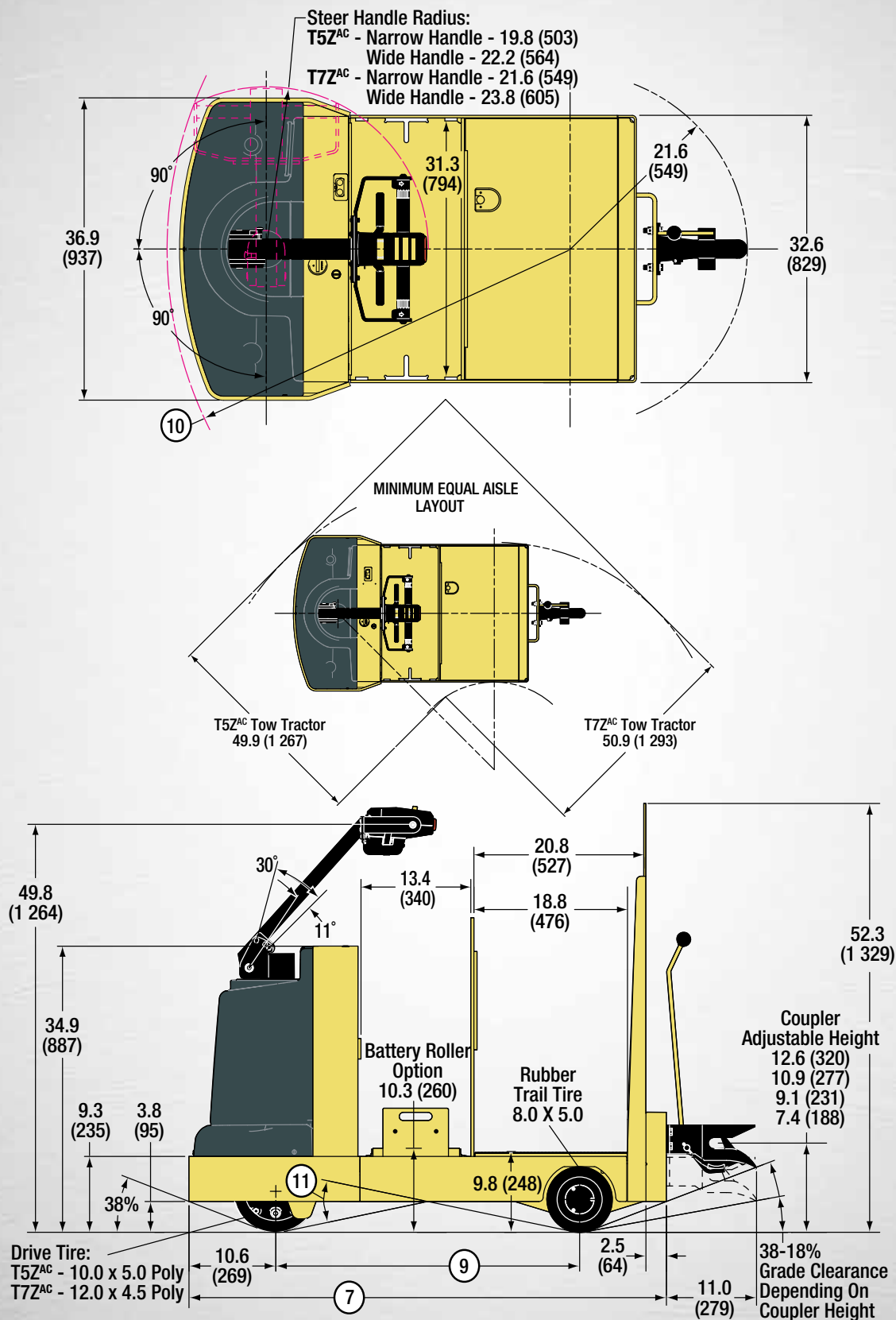
#### Package #3 - EE Construction

Available for only the T7Z<sup>AC</sup> Tow Tractor model

#### Contents:

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

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



Circled dimensions correspond to the line numbers on the tabulated charts on Page 6 and 7.  
 Dimensions are in inches (millimeters).

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

DIMENSIONS	1	Manufacturer	Hyster Company
	2	Model	T5Z <sup>AC</sup>
	3	Capacity, rolling load*	lb. (kg) 10,000 (4 536)
	4	Drawbar pull, normal**/maximum	lb. (kg) 200 (91) / 700 (318)
	5	Voltage	24
	6	Truck width	in. (mm) 36.9 (937)
	7	Overall length, with coupler	in. (mm) 69.3 (1 760)
		Overall length, without coupler	in. (mm) 58.3 (1 481)
	8	Battery compartment size, length x width	in. (mm) 13.4 x 31.3 (340 X 794)
		Maximum battery size, length x width	in. (mm) 13.0 x 30.9 (330 x 785)
	9	Wheelbase	in. (mm) 37.1 (942)
	10	Turning radius, OTR Narrow Handle	in. (mm) 49.2 (1 250)
11	Grade clearance, frame	% 43	
12	Travel speed, standard equipped truck No Load	mph (km/h) 7.8 (12.6)	
	Travel speed, standard equipped truck 200 lb. DBP	mph (km/h) 4.4 (7.1)	

\* 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.

\*\* 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)

### 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

<b>DIMENSIONS</b>	<b>1</b>	Manufacturer		Hyster Company
	<b>2</b>	Model		T7Z <sup>AC</sup>
	<b>3</b>	Capacity, rolling load*	lb. (kg)	15,000 (6 804)
	<b>4</b>	Drawbar pull, normal**/maximum	lb. (kg)	300 (136) / 1,000 (454)
	<b>5</b>	Voltage		24
	<b>6</b>	Truck width	in. (mm)	36.9 (937)
	<b>7</b>	Overall length, with coupler	in. (mm)	71.3 (1 811)
		Overall length, without coupler	in. (mm)	60.3 (1 532)
	<b>8</b>	Battery compartment size, length x width	in. (mm)	13.4 x 31.3 (340 X 794)
		Maximum battery size, length x width	in. (mm)	13.0 x 30.9 (330 x 785)
	<b>9</b>	Wheelbase	in. (mm)	39.2 (996)
	<b>10</b>	Turning radius, OTR Narrow Handle	in. (mm)	51.9 (1 318)
<b>11</b>	Grade clearance, frame	%	42	
<b>12</b>	Travel speed, standard equipped truck No Load	mph (km/h)	8.4 (13.5)	
	Travel speed, standard equipped truck 200 lb. DBP	mph (km/h)	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.

### 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

# TAKE IT TO EXTREMES



## STANDARD EQUIPMENT INCLUDES:

- 24 Volt
- AC traction controller
- 13.4" x 31.3" Battery compartment
- 175 Amp, Red battery connector
- Key switch
- Electronic horn
- Toggle switch activated, electro-mechanical park brake
- Auto Deceleration System (neutral braking)
- 9.8" Operator compartment step height
- 12.0" x 4.5" (T7Z<sup>AC</sup>), 10.0" x 5.0" (T5Z<sup>AC</sup>) Polyurethane drive tire
- 8.0" x 5.0" Rubber trail tires
- 48.0" High load backrest
- 2-Stage hand brake control
- Automatic jaw-type coupler with height adjustable positioning from 7.4" to 12.6" high (9.25" height factory setting)
- Standard construction
- Operator's manual
- 20.8" Deep by 32.0" wide operator compartment with 1.0" thick anti-fatigue floormat, knee cushion and backpack
- High speed "rabbit" cruise control floor switch
- 17.0" Wide control handle with dual, full rotary grip travel control
- U.L. Classification E



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