

High energy efficiency due to maintenance-free AC drive motor

Effortless operation with electric steering and JetPilot

Curve Control for advanced stability when turning

Electronic SpeedControl for smooth travel

Solid-pneumatic load wheels for increased vibration absorption



EZS 350NA

Tow Tractor (11000 lbs.)

The EZS 350NA is a versatile, ergonomic tow tractor for towing combined loads up to 11,000 lbs. The ability to hitch several trailers together provides added flexibility and increased efficiency in most material handling operations.

A heavy-duty, removable steel hitch plate accepts a wide variety of hitch types. These can be bolt or weld-mounted within a generous height range, based on specific application requirements. The optional single pin and clevis-type tow hitch is visible from every position and is easily accessible.

The truck's high performance is due to a 2.8 kW, 24 Volt AC drive motor. The benefits are powerful acceleration and high travel speeds,

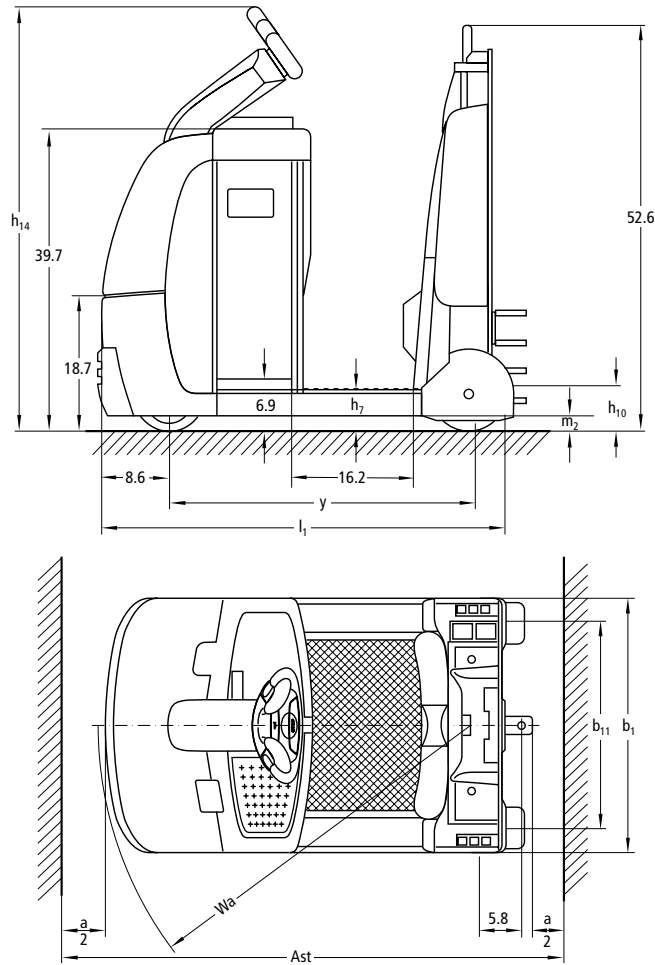
with significant energy efficiency, longer operating times and reduced maintenance (through the omission of carbon brushes). This is a result of the effective design between the drive motor, the electronic controller and the regenerative braking function.

The EZS 350NA offers several ergonomic features, including an extremely low step height of 5.2 inches for frequent mounting and dismounting of the platform. Additionally, a padded backrest with grab handle and a kneepad provide further operator comfort. Vibrations felt during travel are effectively minimized due to solid-pneumatic load wheels and a suspended, stand-on platform with cushioned rubber mat.

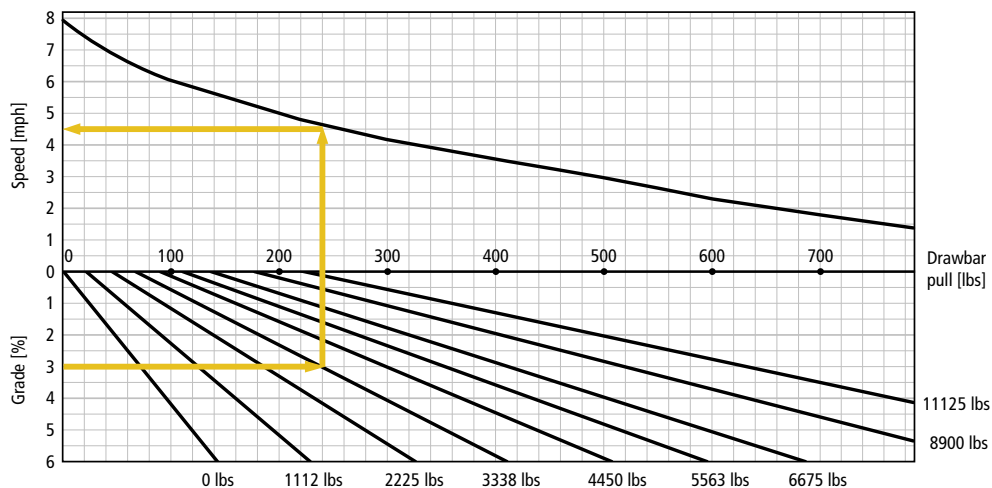
The EZS 350NA also operates effortlessly when turning in confined spaces, due to its short turning radius and JetPilot steering wheel. The limited steering arc of the JetPilot ensures the operator's upper body remains within the confines of the truck compartment during sharp turns, increasing operator confidence and reducing fatigue. In addition, the JetPilot features height adjustment and effortless electric steering. Added control and stability are made possible with programmable Curve Control, which automatically reduces travel speed when turning.

**JUNGHEINRICH**

EZS 350NA



Performance Diagram EZS 350NA



Example:

When the EZS 350NA pulls a 3340 lb. load up a 3% grade, it requires 240 lbs. of drawbar pull and achieves a maximum speed of 4.5 mph.

Notes:

- 1) Continuous operation over 240 lbs. (force) is not permitted.
- 2) The use of braked trailers is strongly recommended for operation on upward / downward grades over 4%.

Technical Data

as of: 01/2010

Characteristics	1.1	Manufacturer (abbreviation)	Jungheinrich	1.1		
	1.2	Manufacturer's type designation	EZS 350NA	1.2		
	1.3	Drive	electric	1.3		
	1.4	Type of operation	tractor / ride-on	1.4		
	1.5	Load capacity / rated load	Q (lbs)	11000	1.5	
	1.7	Rated drawbar pull	F (Newtons / lbs)	1000 / 225	1.7	
	1.9	Wheelbase	y (inches)	45.2	1.9	
	Weights	2.1	Service weight incl. battery (see line 6.5)	lbs	2527	2.1
		2.3	Axle loading, unloaded front / rear	lbs	1301 / 1147	2.3
Wheels/Chassis	3.1	Tires, front / rear	Polyurethane / Solid-pneumatic ⁷⁾	3.1		
	3.2	Tire size, front	inches	9.1 x 3.0	3.2	
	3.3	Tire size, rear	inches	9.8 x 3.1	3.3	
	3.5	Wheels, number front / rear (x = driven wheels)		1x / 2	3.5	
	3.7	Track width, rear	b ₁₁ (inches)	26.8	3.7	
Dimensions	4.8	Platform height	h ₇ (inches)	5.2	4.8	
	4.9	Handle height in drive position	h ₁₄ (inches)	56.9 ¹⁾	4.9	
	4.12	Normal tow hitch (coupler) height	h ₁₀ (inches)	10.1 ⁵⁾	4.12	
		Max. tow hitch (coupler) height		15.3		
	4.19	Overall length	l ₁ (inches)	59.7 ²⁾	4.19	
	4.21	Overall width	b ₁ (inches)	31.9	4.21	
	4.32	Ground clearance, center of wheelbase	m ₂ (inches)	2.0	4.32	
4.35	Turning radius	Wa (inches)	53.9	4.35		
Performance	5.1	Travel speed, loaded / unloaded	mph	4.3 / 7.8 ³⁾	5.1	
	5.5	Normal rated drawbar pull, loaded / unloaded	lbs	225 ⁴⁾	5.5	
	5.6	Max. rated drawbar pull, loaded / unloaded	lbs	786 ³⁾	5.6	
	5.7	Gradeability, loaded / unloaded	%	– ³⁾	5.7	
	5.8	Max. gradeability, loaded / unloaded	%	– ³⁾	5.8	
5.10	Service brake		electric	5.10		
Motors	6.1	Drive motor rating S ₂ 60 min	kW/HP	2.8 / 3.8	6.1	
	6.4	Battery voltage, nominal capacity (at 6 hour rate)	V/Ah	24 / 465	6.4	
	6.5	Battery weight (minimum)	lbs	1036	6.5	
	6.6	Energy consumption	kWh/h	0.97 ⁶⁾	6.6	
Other Details	8.1	Type of drive control	AC SpeedControl	8.1		
	8.4	Sound level at the driver's ear	dB(A)	66	8.4	

- 1) JetPilot (steer wheel) height
 2) total length without tow hitch, as different tow hitch types (lengths) are available
 3) see diagram
 4) nominal tractive power
 5) other tow hitch heights available
 6) at 5.6 mph
 7) drive wheel: Polyurethane; load wheels: Solid-pneumatic

The Jungheinrich Advantage

Innovative AC technology

Jungheinrich AC motors provide increased efficiency and reduced operating costs.

- Outstanding efficiency due to excellent energy management.
- Powerful acceleration.
- Quick directional changes without hesitation.
- No carbon brushes to replace—for a nearly maintenance-free drive motor.
- 2 year warranty on drive motor.

Controlled travel

SpeedControl, an impulse controller, and Curve Control, for automatic speed reduction when turning, work together to facilitate controlled, smooth travel and provide adjustable drive characteristics for every application.

- The requested travel speed is maintained in every travel situation—on both upward / downward grades.
- 3 pre-set, adjustable travel programs allow for adjustment to suit any application.
- Regenerative braking with energy reclamation during deceleration.
- Programmable Curve Control ensures the tow tractor always remains under control.

Optimum ergonomics

- Suspended, stand-on platform with low step height for frequent mounting and dismounting.
- Padded backrest with grab handle and kneepad in operator compartment.
- Short travel distance for the operator from the driving position to the hitch or load.
- The tow hitch can be seen from every position and is easily accessible.
- Electric steering and programmable Curve Control with JetPilot steering wheel.
- Solid-pneumatic load wheels provide smoother travel and reduced vibrations.



JetPilot steering wheel

Rugged construction for the toughest applications

- Chassis made of high-quality 0.31 inch thick steel plate.
- Extra high bumper on front chassis protects the motor compartment from possible impact damage.

Long operating times

Energy-saving AC technology combined with battery capacities up to 750 Ah provide long operating times.

Well informed at any time

- 3 color LED battery discharge indicator as standard or optional "CanDis" information display with 10-bar visual charge indicator, hour-meter and service code display.
- Optional "CanCode" keypad allows for secure truck activation via PIN and includes 3 pre-set travel programs.
- When combined, CanDis and CanCode allow for quick adjustment of speed, acceleration and motor brake parameters without a laptop.

Available options

Several options are available to meet the specific needs of various applications, including:

- Forward / reverse pedestrian touch control.
- Rubber or steel bumper.
- Extended backrest with flip-down seat (adjustable to 3 different height positions).
- Reversing alarm.
- Traction and non-marking drive wheels.
- Backrest-mounted strobe light.
- Front working light.

Built in compliance with ITSDF B56.9 design specifications for Type E industrial trucks with Type EO battery.



Custom tow hitches available upon request



1-877-JH-FORKS

www.jungheinrich-lift.com

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Well worthwhile