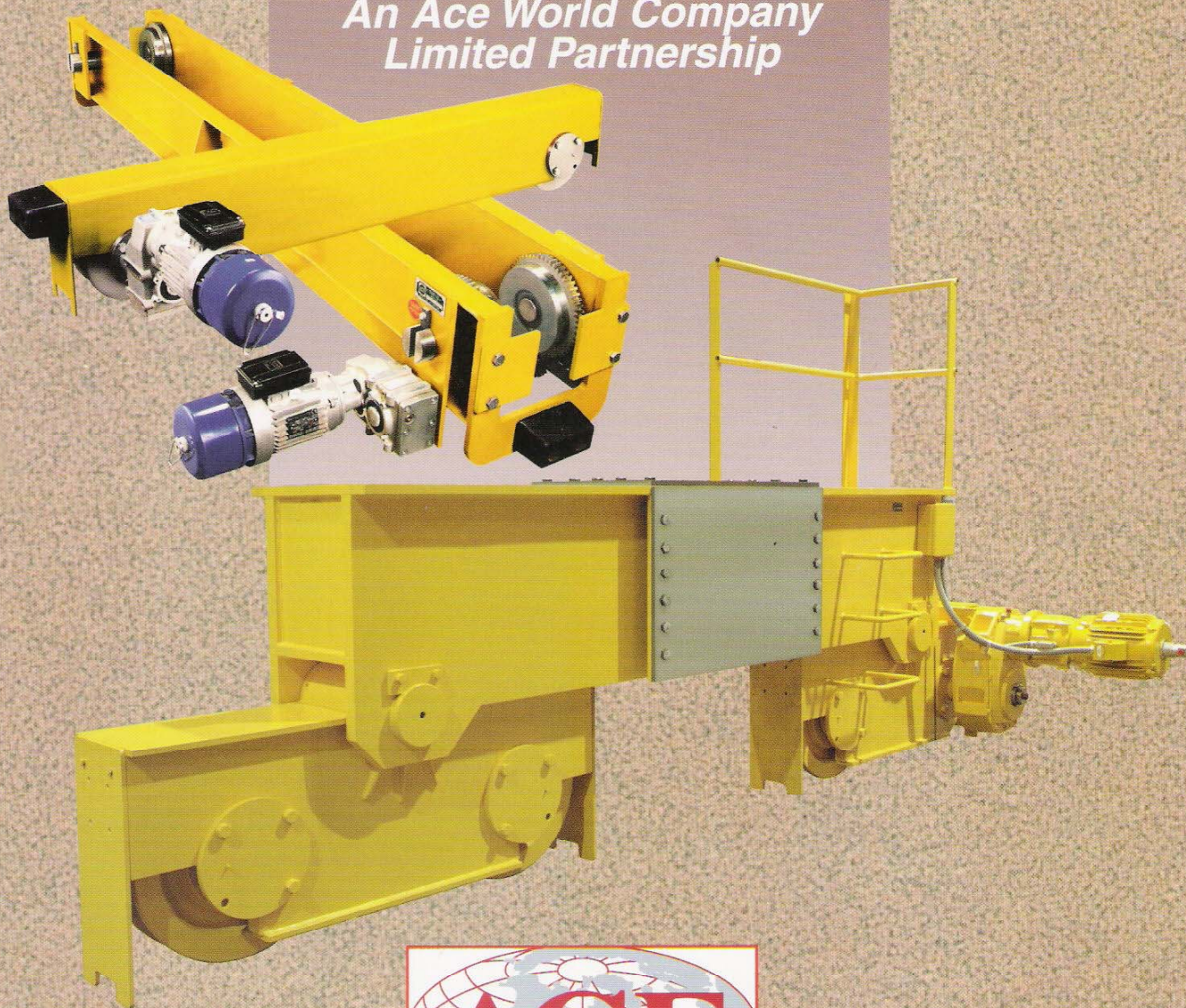


# ACE-TRUCKS

*An Ace World Company  
Limited Partnership*



ISO 9001  
REGISTERED



**WORLD COMPANIES, INC.**



*Quality Products for Maximum Performance*



## ACE-TRUCKS

An Ace World Company Limited Partnership

**A**t ACE TRUCKS we never compromise quality. Every component is tested and inspected during each step of manufacturing. We manufacture 90% of our parts, keeping control of quality at ACE. It is the unwavering commitment to excellence that has made **ACE END TRUCKS** the name customers depend on.

Performance of quality does not apply only to our manufactured product. We realize the importance of customer service and parts availability. Our reputation is built on satisfied customers.

Our experienced engineers, customer service personnel and sales staff are knowledgeable, efficient and committed to the business ethics of **ACE TRUCKS** that has established a superb reputation in the industry. When you purchase an **ACE END TRUCK**, you are buying a product where commitment, service and experience assures quality.

## Value

- **COMPETITIVE PRICES**
- **BEST DELIVERY IN THE INDUSTRY**
- **SUPERIOR SERVICE**
- **SUPERIOR QUALITY**
- **TOTAL RELIABILITY**
- ... **GIVES YOU TOTAL SAVINGS**

# ACE Trucks Offers: Pre-engineered Fixed Axle Top-running and Underhung End Trucks.

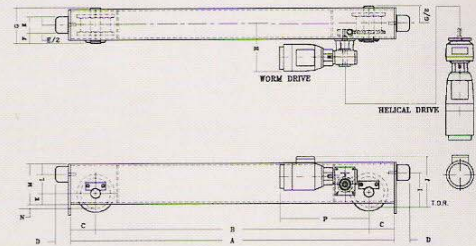
## Design Features

- All welding is completed prior to machining to assure precision alignment.
- Axle bores are line bored in one setup insuring perfect wheel alignment.
- Rail sweeps and bumpers are included.
- One coat of red oxide all purpose primer
- Double flange flat tread machined high tensile ductile iron crane wheels.
- Axles and pinions are machined from cold rolled alloy steel.
- Wheel gear and pinions are machined to AGMA commercial class standards.
- Drive pinions are keyed and set screwed to pinion shaft.
- ACE Drives high efficiency worm gearmotor without brake or optional parallel helical gearmotors with brake.
- Specifically engineered and sized for overhead crane travel applications.
- 460, 230, 208, 575 or 380 volts, 3 phase and 50 or 60 hertz applications are available.
- Standard motors have Class "F" insulation.
- Motors are rated continuous duty for variable frequency controls.
- Standard motors have thermal protection.
- Reducer gears and pinions are case hardened, 58 to 61 Rockwell, ground and run in an oil bath enclosed housing.
- Motors are coupled to gearbox input shaft. No risk of oil leaking into motor as well as rapid replacement of motor without opening gearbox and draining oil.
- Optional disc brakes are adjustable for all voltages.

## CMAA Class "C" top-running tubular fixed axle end truck

- High strength ASTM A500 Grade B structural tubing.
- Wheels fit standard 40#/yard crane rail (option for larger rail is available).

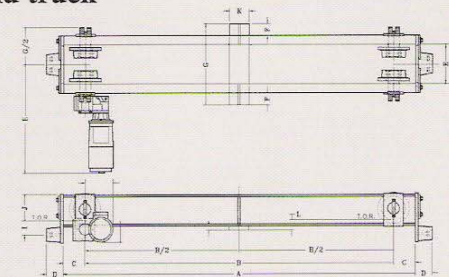
Capacity ..... up to 10.0 tons  
Max Wheel Load lbs. .... 12,000 lb.  
Max Span ..... 52'0"  
Wheel Diameter ..... 6"  
Speed FPM ..... 65 or 100



## CMAA Class "C" underhung end truck

- High strength A-36 plate or channel
- Wheels fit standard 4.06 to 8.27 flange width (wider frames are available).

Capacity ..... up to 7 1/2 tons  
Max Wheel Load lbs. .... up to 13,700 lb.  
Max Span ..... 60'0"  
Wheel Diameter ..... 8"  
Speed FPM ..... 80 or 125



**PATENTED TRACK WHEELS ARE AVAILABLE UPON REQUEST.**

## The ACE tapered bushing system makes replacing hollow shaft gear units child's play

The maintenance man who has replaced hollow shaft gearboxes and blasphemed at the force required to remove them from the machine shaft will love our system.

Gear pulleys, sledge hammers, cutting torches, and angle grinders can be put aside. With our system, all you need is a hook wrench and an open end wrench.

Our tapered bushing is available only from ACE World Company on units with 2 h.p. and larger motors.





## Pre-engineered Top-running Rotating Axle

ACE TRUCKS designs and manufactures End Trucks with fixed and rotating axles, top-running, under-running single girder and double girder, CMAA class "C" through "F". Many options are available upon request.

- **Crane Capacities:** For single girder cranes with capacities up to 25 tons and 100' 0" span. For double girder cranes with capacities up to 800 tons and 150' 0" span.
- **Truck Construction:** Reinforced structural tube and fabricated box plate construction.
- **Wheels:** Wheels are straight-tread, double-flange machined from alloy steel. Available for 8, 10, 12, 15, 18, 21, 24, 27, 30 and 36 inch wheel applications. X-TEK 60+ Rockwell and patented truck wheels are available.
- **Standard Rotating Axle Designs Include:**
  - Double-row, spherical-roller bearings with hardened outer races housed in precision machined bearing capsules.
  - Lined bored, reinforced bearing seats to assure accurate wheel alignment.
  - Hardened wheel treads and flanges.
  - All helical gearing is totally enclosed in oil bath lubrication.
  - Torque arm mounted reducers over 2 h.p. include exclusive ACE tapered bushing system.
  - Reinforced rectangular structural tubing chassis provide strong, clean design.
  - Shock absorbing bumpers are standard.
  - All shafts and axles are hardened alloy steel.
- **Gear Motors:** Gearing is carburized, helical, that is ground for accuracy. Units are furnished with disc or shoe brakes. Gearmotor units have standard A.C. voltages of 230/460 V, 60 Hz. Also available are 208, 575 Volt, 60 Hz as well as 250 and 500 volt D.C. Standard gearmotors have Class "F" insulation. Foot mounted components with split gear cases are also available.

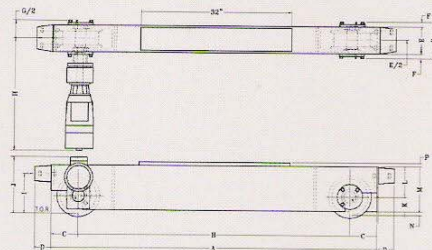


*Popular sizes of end truck frames and components are produced in quantities. This permits us to reduce our costs and thereby offer more competitive pricing as well as have the best delivery in the industry.*

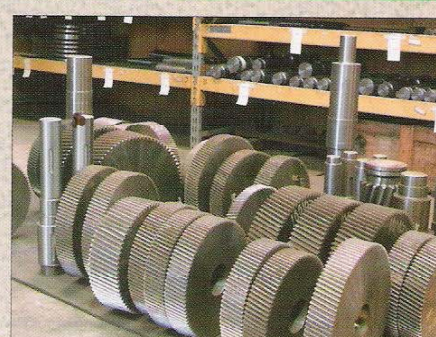
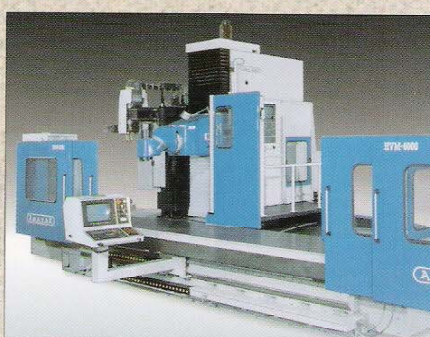
**CMAA Class "D" standard  
("E" through "F" available)  
top-running, rotating axle  
end truck for single-girder  
and double-girder cranes**

- High strength ASTM A500 Grade B structural tubing.
- Wheels fit standard 40# through 175# yard crane rail.

Capacity ..... 5-100 tons  
Max Wheel Load lbs. .... up to 130,500 lb.  
Max Span..... 100' 0"  
Wheel Diameter ..... 8" through 24"  
Speed FPM..... 120-300



**We manufacture all parts and components except for motors, brakes and small reducers. We maintain a large inventory that permits us to offer quick delivery of new units and fast response to service needs.**

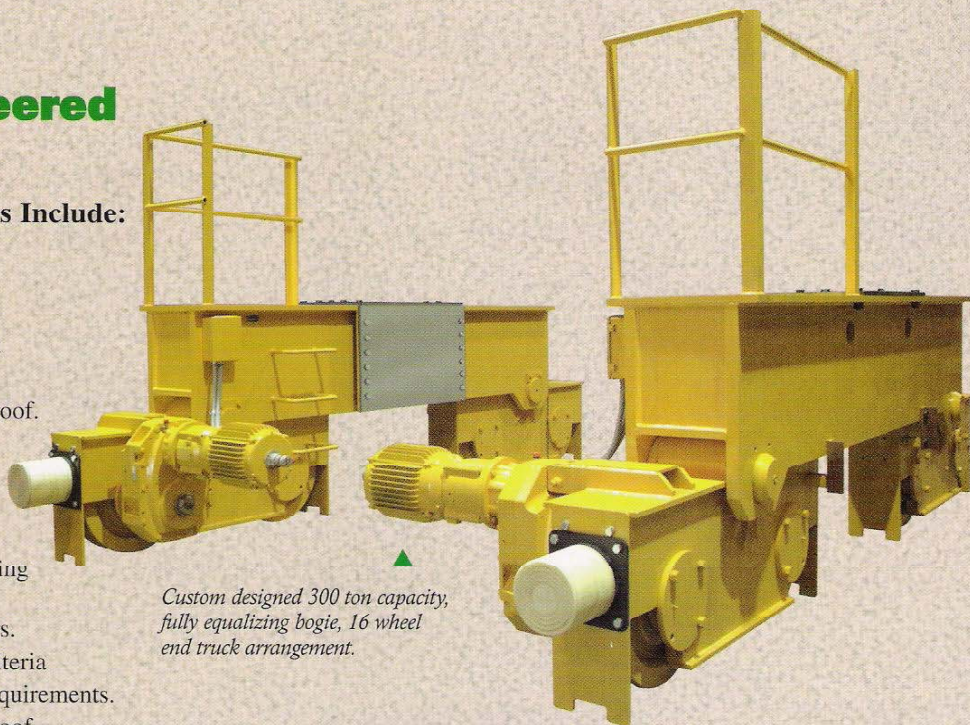




## Custom Engineered End Trucks

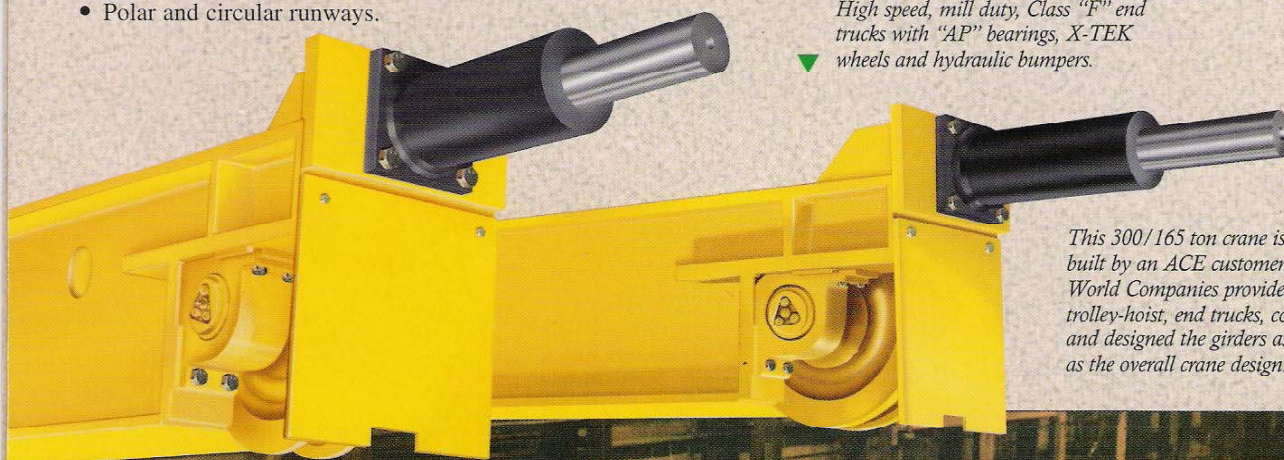
### Available Optional Features Include:

- Capacity through 800 tons.
- High speed and severe duty.
- Hydraulic or spring bumpers.
- Platform bridge drives with foot mounted components.
- Spark resistant and explosion proof.
- 90° MCB and "AP" bearings.
- 60+ Rockwell wheels.
- Low profile and close side approach arrangements.
- Fully equalizing and compensating bogie arrangements.
- Special footwalks and crossovers.
- Designs to CMAA and AISE criteria
- NRC and single failure-proof requirements.
- Spark resistant and explosion proof.
- Polar and circular runways.



*Custom designed 300 ton capacity, fully equalizing bogie, 16 wheel end truck arrangement.*

*High speed, mill duty, Class "F" end trucks with "AP" bearings, X-TEK wheels and hydraulic bumpers.*



*This 300/165 ton crane is being built by an ACE customer. ACE World Companies provided the trolley-hoist, end trucks, controls and designed the girders as well as the overall crane design.*





## ACE World Companies - our people make the difference!

All precision machining is performed by highly skilled machinists. Welders are tested on a regular basis and must pass the stringent requirements of AWS D1.1.

Each component of each end truck is thoroughly examined and must pass rigorous standards. All completed end trucks are inspected prior to shipment.



*Our personnel take great pride in their work. They are one of the major reasons why ACE Trucks are known world wide for quality.*



## Controls

All types of crane controls are available. Many for immediate delivery from stock. We offer single-speed with electronic "Soft-Start", A.C. variable frequency, flux vector, stepped magnetic, two-speed, D.C. constant potential, D.C. variable voltage and special automation packages.

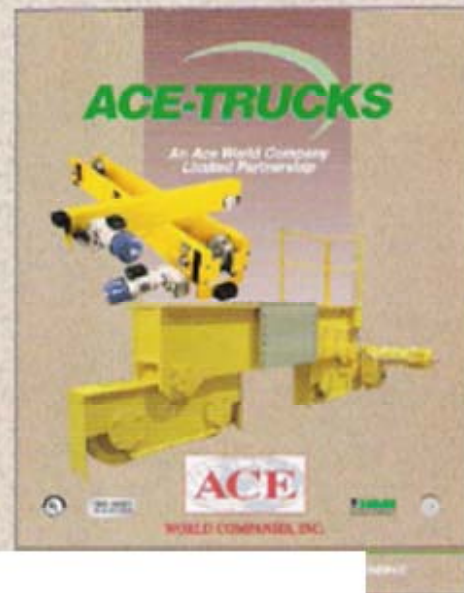
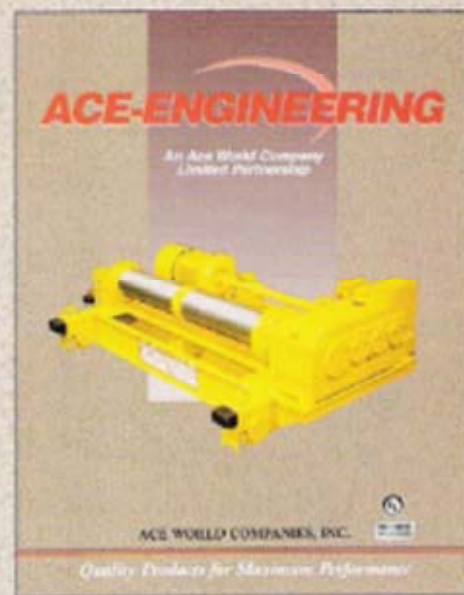
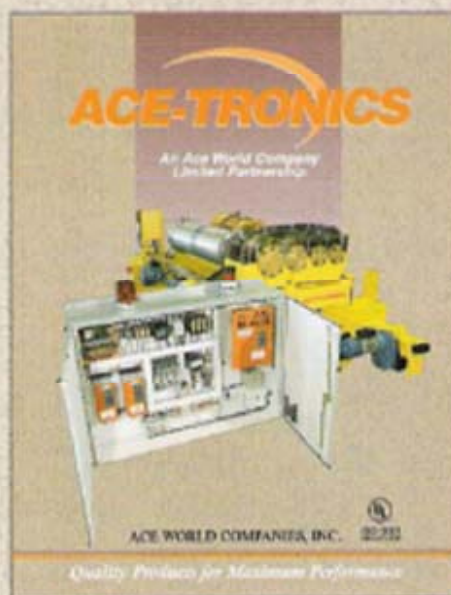
Control packages include magnetic mainline disconnects, manual disconnects, transformers, dynamic braking resistors and NEMA 12 enclosures. Packages that integrate hoist, trolley and auxiliary functions with bridge controls are available upon request.

Optional features such as air conditioning, radio control, explosion-proof, magnet and grab controllers are also available.



# Available Products

- All Type of Hoisting Systems up to 800 Ton Capacity
- Critical Lift Hoists
- Polar Trolley Hoists
- Explosion Proof Hoists
- Log Handling Hoists
- Automated Hoisting Systems
- Two Drum Bucker Hoists
- CMAA and AISE Design Hot Metal Hoists
- CMAA Class "E" and "F" Hoisting Systems
- All Type of Winches
- Complete Control Systems
- Motorized Rotation Hook Blocks
- Motorized Lifting Beams
- Transfer Cars
- All Type of End Trucks
- Stacker Crane Systems
- Custom Manufactured Machinery
- All Sizes and Types of Gear-reducers and Drives
- Large Machine Shop Services
- Gear Cutting Services
- New and Retrofit Custom Gear Reducers
- Cable Drums up to 64" Diameter by 36 Feet Long
- Double Girder Under Hung Hoists
- Replacement Parts for Most Makes of Cranes and Hoists



**Engineered Lifting Systems, LLC**  
**1630 Headland Drive**  
**Fenton, MO 63026**  
**Call toll free 866-1200**  
**[www.engineeredlifting.com](http://www.engineeredlifting.com)**



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**WORLD COMPANIES, INC.**  
Corporate Office and Manufacturing Facility



**HMI**  
MEMBER COMPANY

10200 Jacksboro Hwy., Fort Worth, Texas 76135

Phone (817) 237-7700 • Fax (817) 237-2777 • [www.aceworldcompanies.com](http://www.aceworldcompanies.com)