

ACE Engineered

# Hoists

CMAA D & E Class  
Designed Equipment

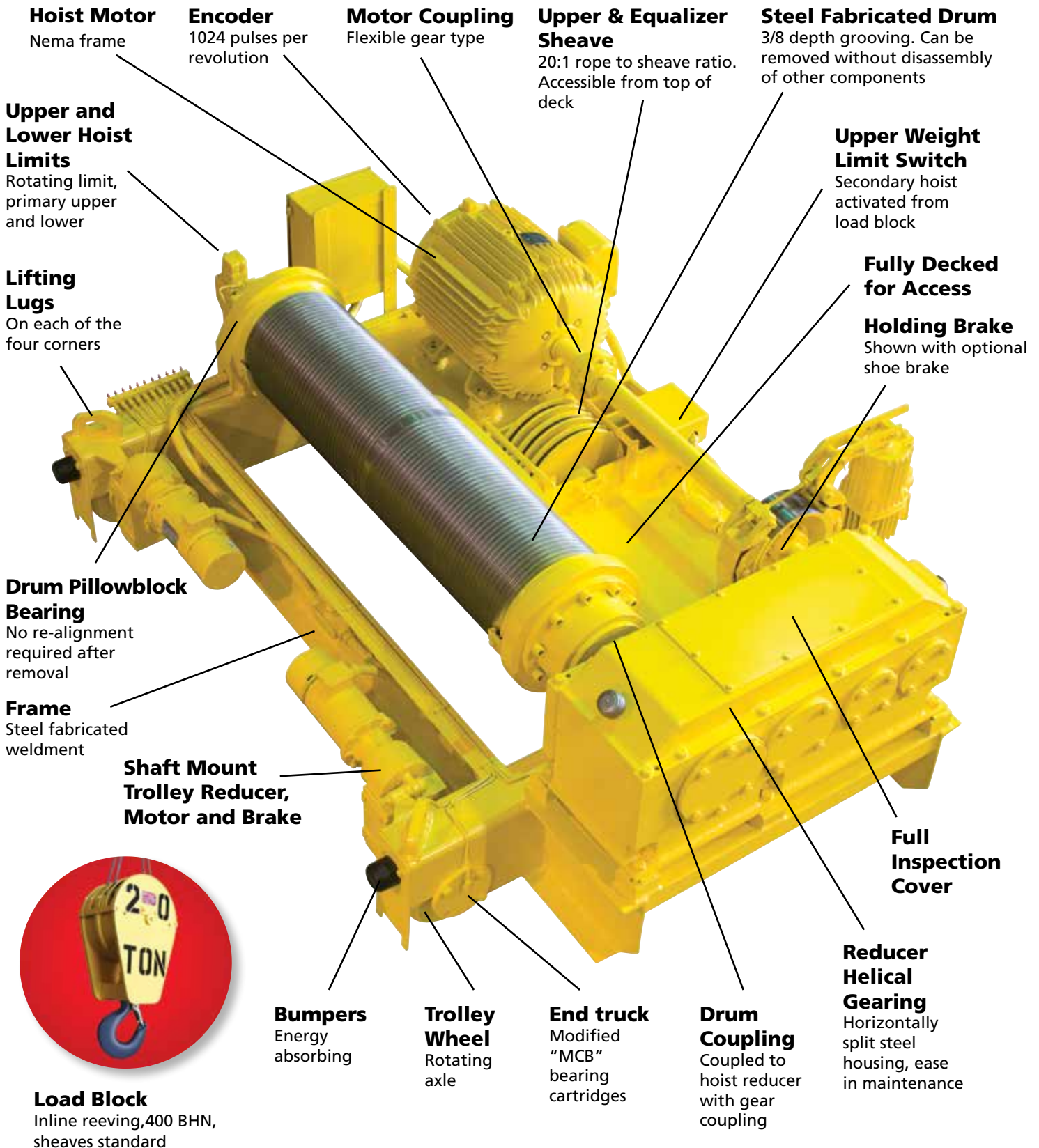
*From concept sketch  
to engineered product*



Crane Components  
& Engineered Products

# CMAA **D**CLASS Built-up Features

ACE World Companies Built-up Hoists conform to all aspects of CMAA 70



**DCLASS****ECLASS**

## STANDARD ACE FEATURES

Hoist reducer	★ Steel fabricated, horizontal split, 10,000 hrs L-10 bearing life, helical through hardened gearing with encapsulated bearings	★ Steel fabricated, horizontal split, 20,000 hours L-10 bearing life, helical through hardened gearing with encapsulated bearings
Hoist motor	★ 60 min, "F" Ins, TEFC, NEMA design foot mounted	★ 60 min, "H" Ins, TENV, NEMA design foot mounted
Trolley frame	★ Steel fabricated, weldment, fully decked	★ Steel fabricated, weldment, fully decked
Hoist brakes	★ Midwest Oil Shear Brake	★ AC thruster shoe optional, Midwest Oil Shear brake standard, 150% motor torque
Trolley wheels	★ Double flanged, 400 BHN	★ Double flanged, 400 BHN
Trolley bearings	★ Double row spherical, 10,000 hrs L-10 bearing life	★ Double row spherical, 20,000 hrs L-10 bearing life
Grooving	★ .375 x rope diameter	★ .50 x rope diameter optional
Cable drums	★ Steel fabricated, double flanged	★ Steel fabricated, double flanged, fleet angles <3°
End Trucks	★ Tubular, rotating axle modified MCB	★ Tubular, rotating axle modified MCB
Limit switches	★ Upper, lower and weighted type limits	★ Upper, lower and weighted type limits with additional slowdown limits
Trolley motor	★ NEMA, 60 min, TENV, "C" Face	★ NEMA, 60 min, TENV, "C" Face
Trolley brakes	★ AC, disc, 50% torque	★ AC, disc, 50% torque
Trolley reducer	★ Hollow shaft, helical gearing, 12 AGMA	★ Hollow shaft, helical gearing, 12 AGMA, increased service factor
Upper sheaving	★ 20:1 ratio, 10,000 hrs L-10 bearing life	★ 24:1 ratio, 40,000 hrs L-10 bearing life with individual grease ports, double row Timken bearings per sheave optional
Load block	★ Steel fabricated, rotating hook	★ Steel fabricated, rotating and pivoting hook, double row Timken bearings per sheave optional
Load block sheaves	★ 20:1 ratio, 400 BHN hardness	★ 24:1 ratio, 400 BHN hardness with individual grease ports on sheaves optional
Lifting lugs	★ Included	★ Included
Controls	★ Flux vector	★ Flux vector
Line reactor	★ Optional	★ Included
Branch circuit fuses	★ Included	★ Included
Contactors for brake	★ IEC	★ IEC
Enclosure	★ 4/12 rated	★ 4/12 rated
Wiring	★ THHN	★ THHN
Conduit	★ Combination, flex-rigid	★ Combination, flex-rigid
Resistor Class increased duty	★ 150% braking torque	★ 150% braking torque with 20% more wattage for

# CMAA **E**CLASS Built-up Features

ACE World Companies Built-up Hoists conform to all aspects of CMAA 70

## Reducer

Horizontally split steel housing, ease in maintenance

## Drum Coupling

Coupled to hoist reducer with gear coupling

## Steel Fabricated Drum

\* 1/2 depth grooving. Can be removed without disassembly of other components

## Drum Pillowblock Bearing

No re-alignment required after removal

## Upper and Lower Hoist Limits

Rotating limit, primary upper and lower

## Full Inspection Cover

## Holding Brake

Shown with optional shoe brake

## \* Spooling Bar

## \* Heat Treated Grooving

## Encoder

1024 pulses per revolution

## Trolley Wheel

Rotating axle

## Endtruck

Modified "MCB" bearing cartridges

## \* Power Circuit Limit Switch

## \* Foot Mounted Trolley Drive

## Frame

Steel fabricated weldment

## Upper Sheave Assembly Removable From Deck

## Equalizer Sheave

24:1 rope to sheave ratio. Accessible from top of deck

## Hoist Motor

Nema frame



## Load Block

400 BHN, sheaves std with individual grease ports, \*double tapered cone and cup bearings

\* Shown with optional features. See back page for more details.

# Reliable, Durable and Affordable

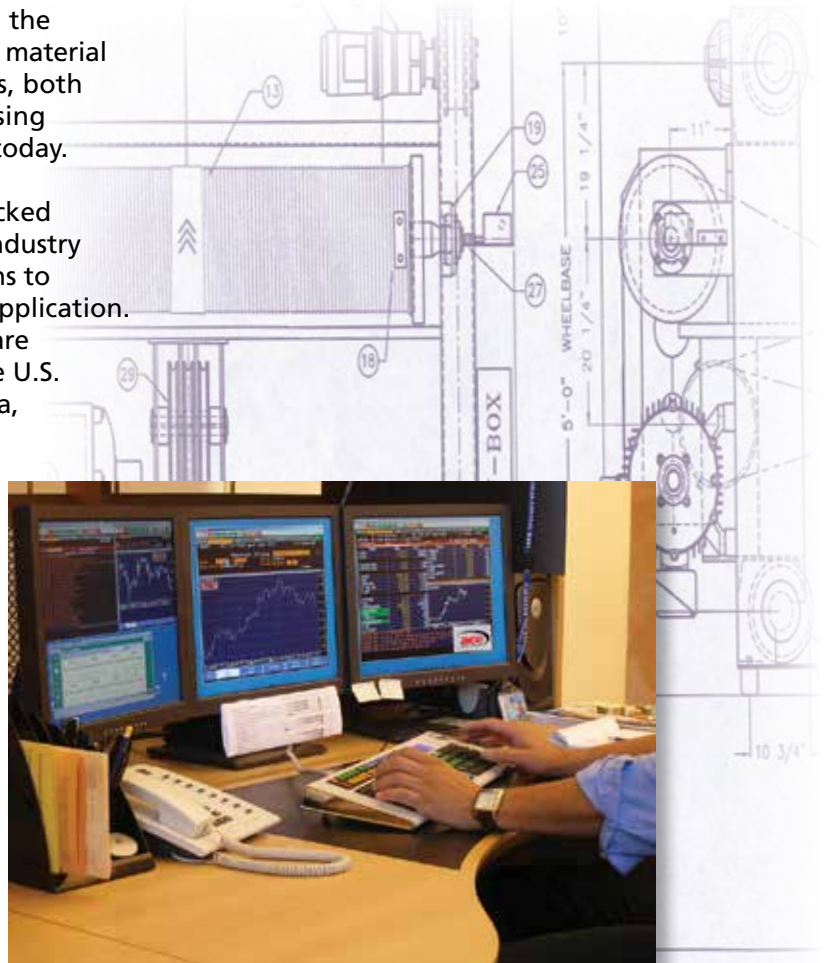
## ACE technology keeps pace with the rapidly changing needs of our clients and the industries we serve.

Since 1987, ACE World Companies has supplied the industry with American-made, custom designed material handling solutions. Our vast range of products, both standard and custom, have been developed using the most sophisticated technologies available today.

The Company's commitment to invention is backed by extraordinary engineering prowess. As an industry leader, ACE matches material handling solutions to virtually any field, manufacturing or industry application. ACE hoists, systems, controls, trucks and drives are operating effectively and safely throughout the U.S. and internationally in North and South America, Europe, Asia and Africa.

### On time delivery, every time, defect free.

- Products must be  **durable**  and easy to maintain in order to meet our customer's criteria for  **reliability** .
- **Low cost**  of ownership is much more valuable than low price. Quality lives on while price is soon forgotten.
- From standard to custom-built, we build all types of hoists.
- Extensive engineering and manufacturing capabilities allow ACE to design and produce highly specialized custom trolley hoists, drives, controls and end trucks.
- Our reputation is a direct reflection of the quality and dependability of our people.
- Rely on our engineers to help you with design and application problems.
- Depend on our customer service for efficient, caring response to your needs.
- ACE ISO 9001 MANUFACTURING facilities ensure quality and on-time delivery of world class products and systems solutions.

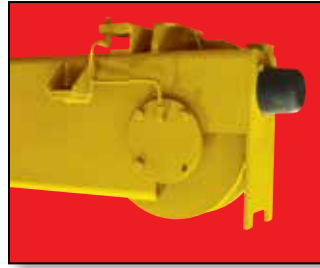


# OPTIONAL FEATURES

Keep ACE hoists the leader in the industry



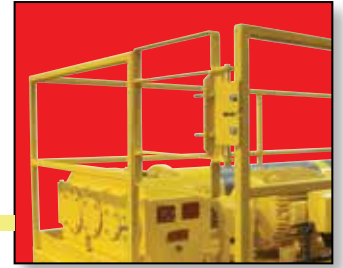
**Spooling Bars**



**Trolley Jacking Pads**



**Centralized Lubrication**



**Trolley Handrails**



**Foot Mounted Trolley Drives**



**Power Rotating Load Block**



**90° MCB Trolley Cartridge**



**60 RC Wheel Hardness**

## Additional Options

- Emergency braking "Caliper Brake"
- Overspeed sensing
- Rope to drum and sheave ratios – 30:1 & up
- Redundant reeving
- Sister hooks
- Taconite seals
- Mechanical load brakes
- Coupling guards
- Concrete stripping packages
- Express speeds on hoisting
- Hook locks
- Gravity latches
- Anti sway reeving
- Twin and quad hook arrangements
- Bucket applications
- Magnet applications
- Heat treated drums
- Cab on trolley
- DC Hoists
- Wound rotor motors with eddy current brakes
- 1/2 depth and 3/4 depth grooving available
- Heat treated grooving
- Drain valves
- Stacker hoists
- Automated hoist systems
- CMAA Class F hoist
- Power circuit limit switches

Unlimited speed and hoist capacity available



Crane Components  
& Engineered Products

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