

**5 - 250 TON CAPACITIES
THROUGH CMAA CLASS F**

20 / 5 Ton - Navy Crane Center
Specification with Complete Documentation
& Testing, NDT, Class D, Fully Decked, Dual
Disc Brakes, Barrel Coupling, All Steel
Components, Data Loggers, Keyed Bypass
Limit Switches, Hour Meters.



40 Ton CMAA Class D, Fully Decked, 1/2
Depth Grooving on Drum, Commercially
Available Motors, Gearboxes and
Components.



25 Ton CMAA Class D, Nested Lube,
Weight Management System with
Digital Display, Over Wrap Limits,
Anti-Collision.



Dual Foot Mounted Shoe Brakes



Weight Management System
with Digital Readout



Laser Aligned Shafts, Couplings,
Motors and Gearboxes.



MCB Housings with Equalizing Wheels



Easily Accessible Upper Sheave
Nest for Inspection, Maintenance
and Repair



Nested Lubrication System



Custom VFD Control Packages using VFDs built in our UL Listed Panel Shop. Features include Full Automation with HMI Displays, Data Loggers, Keyed Bypass Limit Switches, Hour Meters, Zone Limits and Anti-Collision.



CE Series Built-Up Hoist



Corporate Headquarters
8511 Norcross Rd.
Colfax, NC 27235
Phone: 888.845.5646

Branch Locations
Richmond, Virginia
Simpsonville, South Carolina
Geneva, New York
Charleston, South Carolina
Atlanta, Georgia
Reading, Pennsylvania



CUSTOM ENGINEERED "CE" SERIES BUILT-UP HOIST STANDARD DESIGN FEATURES:

Capacity: 5 thru 250 Ton.

Service Class: CMAA Class D standard. Available through Class "F".

Industries: Heavy Manufacturing, Steel Service, Hot Metal, Aerospace, Defense, Foundries, Paper Mills

Trolley Frame: One-piece welded structure with load girts, heavily ribbed and gusseted to resist vertical, lateral, and torsional stresses. All areas which do not require openings for operation are fully decked, making all equipment readily accessible from the top of trolley. Lifting lugs are also provided.

Hoist Reducer: High quality cast iron (steel available) gear case is foot mounted and horizontally split. Helical gears are alloy steel, carburized to 60Rc then finished ground to meet AGMA class 12 standards. Shafting is heat treated, high-alloy steel mounted on spherical roller bearings. Splash lubricated and provided with dual lip oil seals. Other features include oil level dipstick, inspection access cover, air breather, magnetic drain plug, and lifting lug.

Hoist Motor: Standard motor is a foot-mounted Vector motor, continuous duty rating with class "H" insulation, thermostats and encoder. Fully flexible geared coupling used at motor output shaft. Lifting eye and easily accessible junction box are also provided.

Hoist Brake: Foot mounted shoe brake is standard. Disc, hydraulic disc and multiple brakes are optional.

Hoist Drum: Welded Steel Construction. ½ depth grooving and fleet angles designed to minimize wire rope wear and extend rope life. Left and right hand grooving for true vertical lift.

Upper Sheaves: Located above trolley deck for easy access. Equipped with anti-friction bearings. Running sheaves offer minimum 20:1 cable ratio. Idler sheave ratio is a minimum 12:1.

Wire Rope: 6 x 37 IWRC extra improved plow steel designed for hoisting service. Sized for a 5:1 safety factor.

Lower Block: Heavy, one-piece steel weldment. Sheaves are enclosed and fully guarded for added operator safety. Forged alloy or carbon steel hook is mounted on a roller thrust bearing for 360° rotation. A spring-loaded safety latch is also provided.

Limit Switches: Each hoist is provided with a weight operated upper limit and a rotary upper and lower geared limit switch. Overload protection is standard on all Flux Vector applications.

Trolley Trucks: Rotating axle wheels supported on spherical roller bearings mounted in modified MCB housings. Fabricated structural box sections and accurately machined for trouble free operation. Double flanged wheels are C1045 steel and flame hardened to 425 BHN available up to 600 BHN. Lubrication fittings, rail sweeps and bumpers are provided.

Trolley Drive: The drive consists of an integral brake motor mounted to a helical reducer. The drive unit is shaft mounted on the drive axles and is splash lubricated in an oil-tight gear case. Standard features - continuous duty, Class "F" insulation and motor thermostats.

Accessories: Auxiliary hoists, flame hardened drums and sheaves, centralized lube systems, outdoor & hazardous locations, weigh systems, power limit switches, over wrap limits, base-mount design, stainless wire rope, rotating lower blocks, anti-sway reeving, operator cabs, mill-duty brakes, hook rotation blocks, hydraulic bumpers, custom forged hooks, hand railings, coupling guards, and tie offs for fall protection and below the hook devices such as grabs, buckets, spreaders & magnets.

52 / 10 Ton, 88' Lift, All Steel Components, Carburized Wire Rope Drums with ½ Depth Grooving and Drum Lock, Barrel Couplings, Overwrap Limits, Foot Mounted Shoe Brakes, MCB Trolley Design, Nested Lubrication and Gear Box Oil Drainage System, Duplex Hooks, Commercially available Motors, Gearbox and Bearings, Hydraulic Bumpers, Access Gate and Handrail



Modeled in Solidworks 3D to ensure accuracy in design and manufacturing

 **PIEDMONT
HOIST & CRANE**
OVERHEAD CRANE SPECIALISTS