

YOUR CRITICAL LIFT EXPERTS

ACECO



**American
CRANE**
& EQUIPMENT CORPORATION

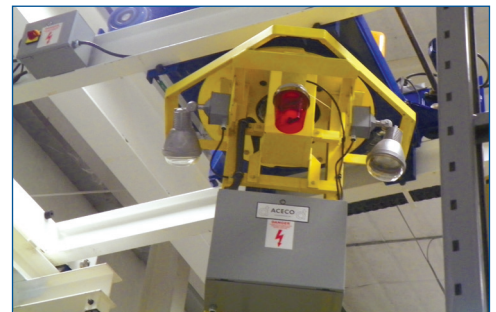
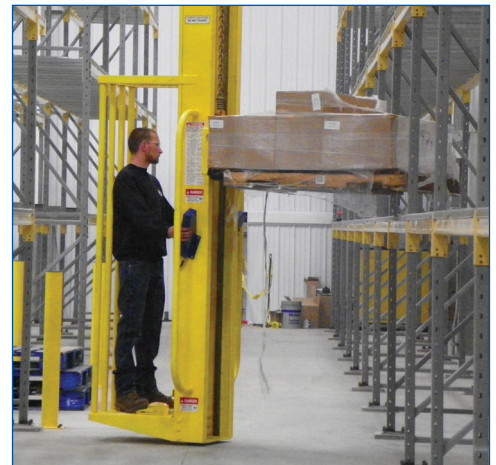
2 TON STACKER CRANE

4,000 lb. High Density Stacker Crane

American Crane's 2 TON STACKER Crane System improves productivity using only a single operator.

Features

- User friendly with four (4) motion motorized movement
- Aisle space requirements narrower than required by conventional forklift
- Precise spotting due to maximum stability at high positions and minimum sway at any elevation
- Mast mounted flood light for floor illumination
- On-board operators safety cage
- Compatible with numerous forks, carriages and lifting attachments
- Designed to run directly on top of racking eliminating additional support structures
- An optimum 4,000 lbs. load capacity, typical of most factory loads
- Trolley wheels ride within the bridge beams, prohibiting derailment
- Heavy duty welded mast construction to provide maximum strength and minimum deflection with 360° continuous mast rotation
- 4-Bar Insulated Conductor System provides continuous trouble free power supply
- User friendly pushbutton operator controls including key locked on/off
- Variable speed solid state controls provide smooth precise positioning
- Safety features include two (2) hoist brakes, hoist free fall catching mechanism, hoist overweight limit and operator's foot controlled "dead-man" safety switch
- CMAA, NEC & OSHA Compliant



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531 Old Swede Road • Douglassville, PA 19518 • 877.877.6778 • 610.385.6061

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104 Rev. 1

TECHNICAL SPECIFICATIONS

MECHANICAL DATA

CAPACITY:	2 Tons (4,000 lbs.) (Standard)
SPAN:	Standard up to 28' – 0"; over 28' – 0" consult factory
HOIST TYPE:	Electric Chain (HMI Class H3 rated)
HOISTING SPEED:	23/8 FPM 2 speed
TROLLEY SPEED:	6 – 25 FPM 2 speed (manually reprogrammable)
MAST ROTATE:	2 RPM Max. single speed variable (manually reprogrammable)
BRIDGE SPEED:	7.5 - 75 FPM 2 speed (manually reprogrammable)
HOIST BRAKES:	AC Disc type plus Weston mechanical load brake
FAIL SAFE BRAKE:	Dual mounted on fork assembly prevents drop of load
BRIDGE BRAKES:	DC Disc type
HOIST MOTOR:	4/1.3 HP, Sq. Cage, TENV, 30 min., Class B insulation
BRIDGE MOTOR:	(2) 1/3 HP, Sq. Cage, TEFC, Continuous, Class B insulation
TROLLEY MOTOR:	1/3 HP, Sq. Cage, TEFC, Continuous, Class B insulation
ROTATE MOTOR:	1/8 HP, Sq. Cage, TEFC, Continuous, Class B insulation
RACK HEIGHT:	Standard up to 16' – 0"; over 16' – 0" consult factory
FORK LENGTH:	30", 36", 42" and 48"; over 48" consult factory

ELECTRICAL DATA

MOTOR CIRCUIT FUSES:	Included
THERMAL OVERLOAD PROTECTION:	Included
POWER SUPPLY:	460-3-60 AC (others available)
CONTROL CIRCUIT:	110 V.A.C. Fused
HOIST & ROTATE CONTROL TYPE:	Full magnetic in NEMA 12 enclosure
BRIDGE, TROLLEY & ROTATE CONTROL TYPE:	Variable adjustable frequency inverter
BRIDGE TRAVEL LIMITS:	Prevents over travel of bridge motion
LIMIT SWITCH TRIPPERS:	Included
OPERATOR STATIONS:	Fixed 10 button station
TROLLEY CONDUCTORS:	Track type included
RUNWAY COLLECTOR SHOE:	Included
RUNWAY ELECTRIFICATION:	4-bar conductor system
ELECTRICAL PANEL:	Custom designed and engineered in accordance with all applicable codes including CMAA, OSHA, and NEC.

CONSTRUCTION FEATURES

BRIDGE CONSTRUCTION:	Top Running Double Girder with wide flange beams, welded construction. Rolled structural end trucks with guide rollers.
BRIDGE WHEELS:	Upper wheels are 9" diameter with roller bearings and pressure grease fittings. Wheels provide minimal friction and maximum load stability. The lower wheel treads are fabricated from a high strength polymer to provide maximum durability.
RAIL SWEEP:	Mounted on the front of each wheel.
TROLLEY CONSTRUCTION:	Steel plate with four (4) integral flanges to assure accurate turntable integration.
TROLLEY WHEELS:	5" diameter with ball bearings.
BEARING LIFE:	5,000 Hrs. L-10 min. (CMAA Class "C" Duty)
TROLLEY GUIDES:	1 1/4" diameter guide rollers to prevent trolley kick-up during lifting operations.
MAST CONSTRUCTION:	Welded 6" channels, separated with ladder cross members. Each channel contains a steel guide bar welded inside to accommodate fork travel.
TURNTABLE:	360° high capacity rotary bearing.
FORK ROLLERS:	(4) 2" diameter crowned cam roller with pressure grease fittings, designed to ride on inboard high strength steel guide bars to distribute the load of the fork frame.
MAST STABILIZER:	Enclosed steel angle frame with 45° corners bolted to mast.
PROTECTIVE CANOPY:	16" x 14 1/2" Plexiglass viewing area for unobstructed visibility.
OPERATOR VIEW PORT LIGHTS:	(2) 150 Watt reflector flood lamps controlled by power on/off switch; 115 volt light circuit.
CHAIN LOAD STABILITY:	5 pocket load sheave to insure that the chain does not slip.
HOIST BRAKE:	Motor mounted multiple disc type holding brake, mechanical load brake, plus regenerative control braking.
LOAD CHAIN:	High strength, Grade 80, electroplated with zinc.
HOIST GEARBOX:	Hardened, precision alloy steel helical gearing.
TRAVEL DRIVE GEAR CASES:	Totally enclosed units with helical gears operating in oil bath. Gear material fabricated from SAE 8620 drop forgings heat treated to 58-60 Rc.

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