

4K Mobilstack

4,000 LB. High Density Stacker Crane

American Crane's 4K MOBILSTACK Crane System improves productivity using only a single operator.

Features

- User friendly with 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
- 4000 lb. load capacity is optimum for most typical factory loads
- Trolley wheels ride within the bridge beams, prohibiting derailment
- Heavy duty welded mast construction to provide maximum strength and minimum deflection
- 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 2 hoist brakes, hoist free fall catching mechanism, hoist overweight limit and operator's foot controlled "dead-man" safety switch
- CMAA, NEC & OSHA Compliant



Technical Specifications

Mechanical Data	
Capacity:	2 tons (4000 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 and Rotate Control Type:	Full magnetic in NEMA 12 enclosure
Bridge, Trolley and 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 integral flanges to assure accurate turntable integration
Trolley Wheels:	5" diameter with ball bearings
Bearing Life:	5000 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 degree 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-degree corners bolted to mast
Protective Canopy	16" x 14 1/2" Plexiglas 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.