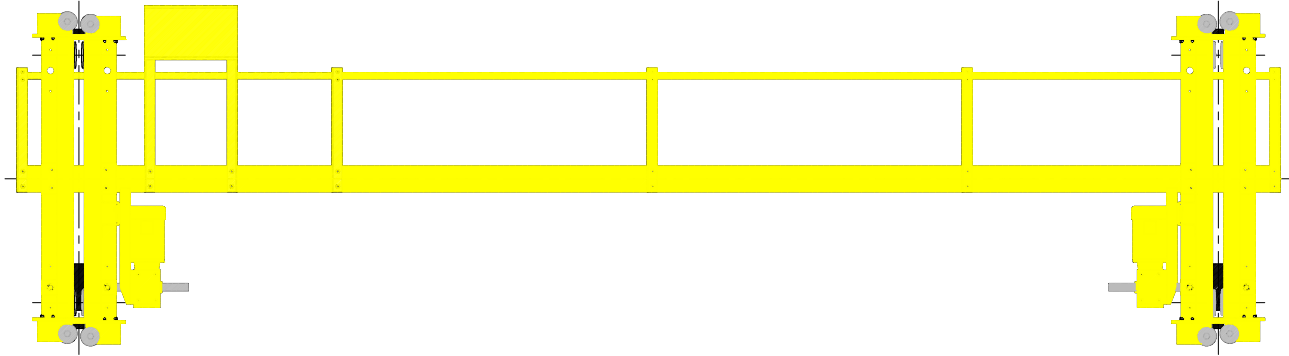




CRANE SPECIFICATIONS - Z-20 Series

Spans to 60' – Capacities to 10-Ton

1/14/11



1. CraneVeyor Z20 cranes are designed for Class A, B or C Service, and are available for motorized and hand geared operation. Heavier duty and severe area cranes are available on application.
2. Wheels are C-1040 steel, flangeless. Wheels include two (2) life-time lubricated, sealed ball bearings, designed for radial and thrust loads. The 5 $\frac{3}{4}$ " dia., wide tread wheels run close to the runway beam web to reduce flange bending stresses. Wheels are available for I-beam or WF beam operation. Runway splice plates must be kept at least 6 $\frac{1}{2}$ " above the bottom flange operating surface. Heavy duty guide rollers at truck ends guide the crane and minimize binding.
3. End trucks are fixed axle type for min. 5 $\frac{1}{2}$ " flange width and maximum 9" flange width beams. A unique split truck design is provided for simple and easy installation. Minimum beam depth is 12". Truck wheel tread width can be modified to accommodate maximum 11 $\frac{1}{2}$ " flange widths. Rubber bumpers and safety lugs are included.
4. Maximum girder deflection is 1/600. Design guide lines follow CMAA Specification No. 74. Girders are wide flange, WF beams with reinforcement as required. End truck to girder bracing is provided for rigidity.
5. Standard motorized bridge speed is 67 or 90 FPM, with 2 speed adjustable frequency control. Optional speeds are 54, 81, 102 & 135 FPM, with other speeds available on application.
6. End truck drive wheels are 9" diameter, rubber tire with 3" traction surface for positive and quiet operation. Drive wheels are keyed to stub shafts. Stub shafts and wheels are mounted from adjustable, spring loaded, precision lifetime lubricated ball bearing units. Single drive motor with drive shaft supported by intermediate bearing units is provided on shorter span cranes. Dual drives (w/o cross shaft) are provided on longer span cranes. A hollow shaft worm gear reducer is keyed to the shaft and torque arm mounted for direct drive and no exposed gearing. Worm gearing provides non-free coasting braking. Standard wheelbases are 6'-0" and 7'-6".
7. Bridge motors are squirrel cage induction type, TEFC, continuous duty, NEMA design B, low slip, suitable for inverter use. Motors are designed for operation in -5° to +40° C ambient temperature with Class B insulation. For operation in high ambient temperatures or severe environment areas, special motors and insulation, can be provided. Motors are NEMA C flange type direct mounted to the gear reducer for easy replacement.
8. A manual disconnect is provided between the runway conductors and controls. The disconnect is fused if there are multiple cranes on the runway. Standard motor control is adjustable frequency drive with dynamic braking, motor overload/over current protection, magnetic mainline contactor, branch fusing, and 115V control transformer in a NEMA 3R enclosure. The AFD control is provided for single, 2-speed or 2-step infinite control, and has programmable acceleration/deceleration, and other advanced features. Controls are for 208/230/460-3-60 power. Specify the power requirement. Other controls, enclosures and voltages are available on application.
9. Bridge conductors on motor driven cranes are festooned flat cable with trolleys from C track. Bridge conductors for electric hoists on hand geared cranes will be festooned stretched wire tagline type.
10. Pendant push button control from hoist/trolley is furnished when crane is ordered complete with hoist. As options, an independent traveling C track/flat cable pendant system or a radio remote control are available.
11. The bridge steel structure is blast cleaned and provided a primer and a finish safety yellow top coat. Other painting systems are available on application.
12. Available options include – air operation – spark proof – hazardous or corrosive environments