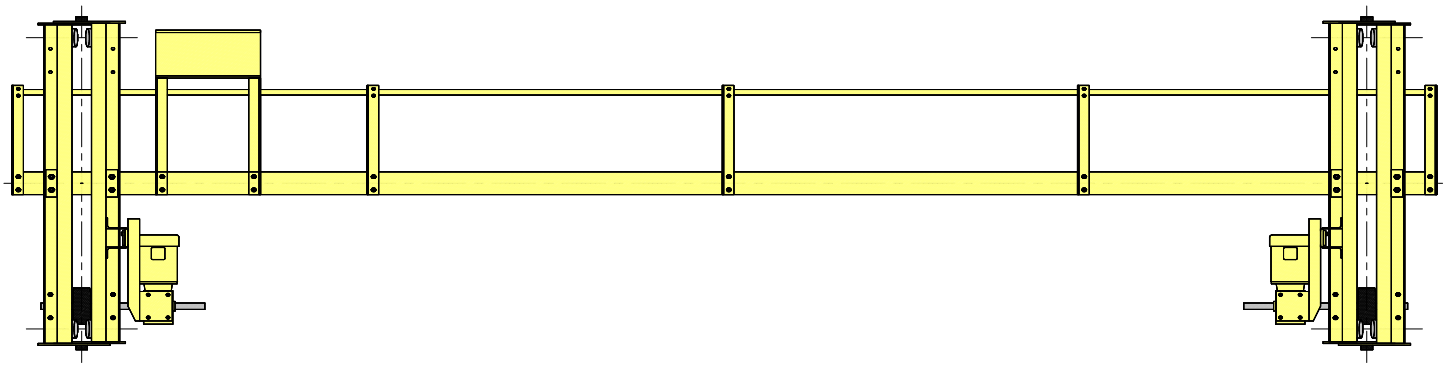
CRANE SPECIFICATIONS - Z-6 Series

Spans to 60’ – Capacities to 3-Ton

1/15/11



1. CraneVeyor Z6 cranes are designed for Class A, B or C Service, and are available for motorized, hand geared and push/pull operation. Heavier duty and severe area cranes are available on application.

2. Wheels are C-1040 steel, flangeless. Wheels include two (2) sealed life-time lubricated ball bearings, designed for radial and thrust loads. The 4” diameter, wide tread wheels run close to the runway beam web to reduce lower flange bending stress, and to guide the crane and minimize binding. Wheels can run on I-beams or WF beams without exchanging parts. Runway splice plates must be kept at least 4” above the bottom flange operating surface.

3. End trucks are fixed axle type for minimum 3¼” and maximum 8” flange width beams. A unique split truck design is provided for simple and easy installation. Minimum beam depth for push type cranes is 7” & 8” for motor driven cranes. Truck wheel tread width can be expanded to accommodate up to 10” runway flange width, and will include guide rollers at each truck end to guide and minimize binding. 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 60 or 90 FPM, with 2 speed adjustable frequency control. Optional speeds are 40, 80 & 120 FPM, with other speeds available on application.

6. End truck driver wheels are 8” 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 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” with 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 push-pull and hand geared cranes will be festooned stretched wire tagline type.

10. Pendent push button control from hoist/trolley is furnished when crane is ordered complete with hoist. As options, an independent traveling C track/flat cable pendent 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

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