

The M16 Tractor Drive (Motoveyor) is a rugged heavy-duty monorail drive unit designed to move loads under punishing requirements while providing dependable performance and durability.

SPEEDS:

Standard speeds are 50, 75, 100, 125, 150, 200, 250 and 300 FPM. Contact the factory to inquire about speeds above 300 FPM. Furnished less controls. Inverter duty motors and 2 speed motors are available.

MOTORS:

Standard motors provided are NEMA C face, TENV, Class F insulation, 30-minute duty and are available for standard commercial power supplies. The motor has a standard NEMA shaft extension. The motors are designed for intermittent reversing crane and trolley drive service. Standard motors are CSA approved.

BRAKE:

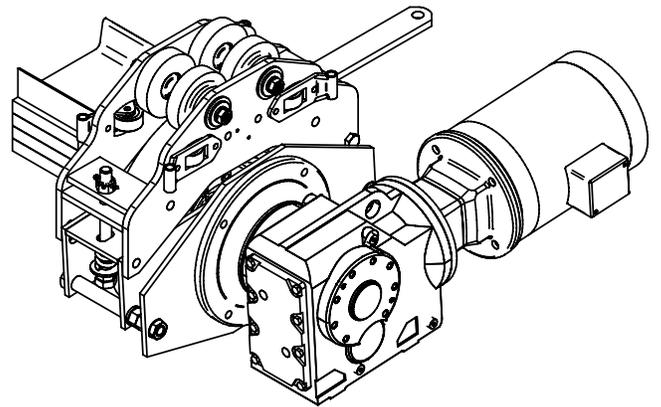
An electric motor brake is optional.

GEARING:

Helical/Worm gears operate in a high strength gray cast iron gear case and oil bath. Gear case includes double oil seals on the output shaft. Gears are designed and manufactured to AGMA standards for maximum life.

CONSTRUCTION:

Both the upper and lower frames of the M16 are of heavy fabricated steel. The upper frame includes hardened steel wheels and side guide rollers. The lower frame, for mounting the drive wheel and motor, is connected to the top frame in a manner that allows quick and easy adjustment of the drive wheel pressure against the underside of the track. The tractor drive is spring loaded to absorb shock loads and to maintain constant pressure on the drive tire.

**DRIVE WHEEL:**

The 16" diameter under-rail drive wheel gives positive action, no-slip traction, regardless of the load. The industrial rubber tire is pressed on to a cast iron wheel, and is supported by ball bearings.

TROLLEY WHEELS:

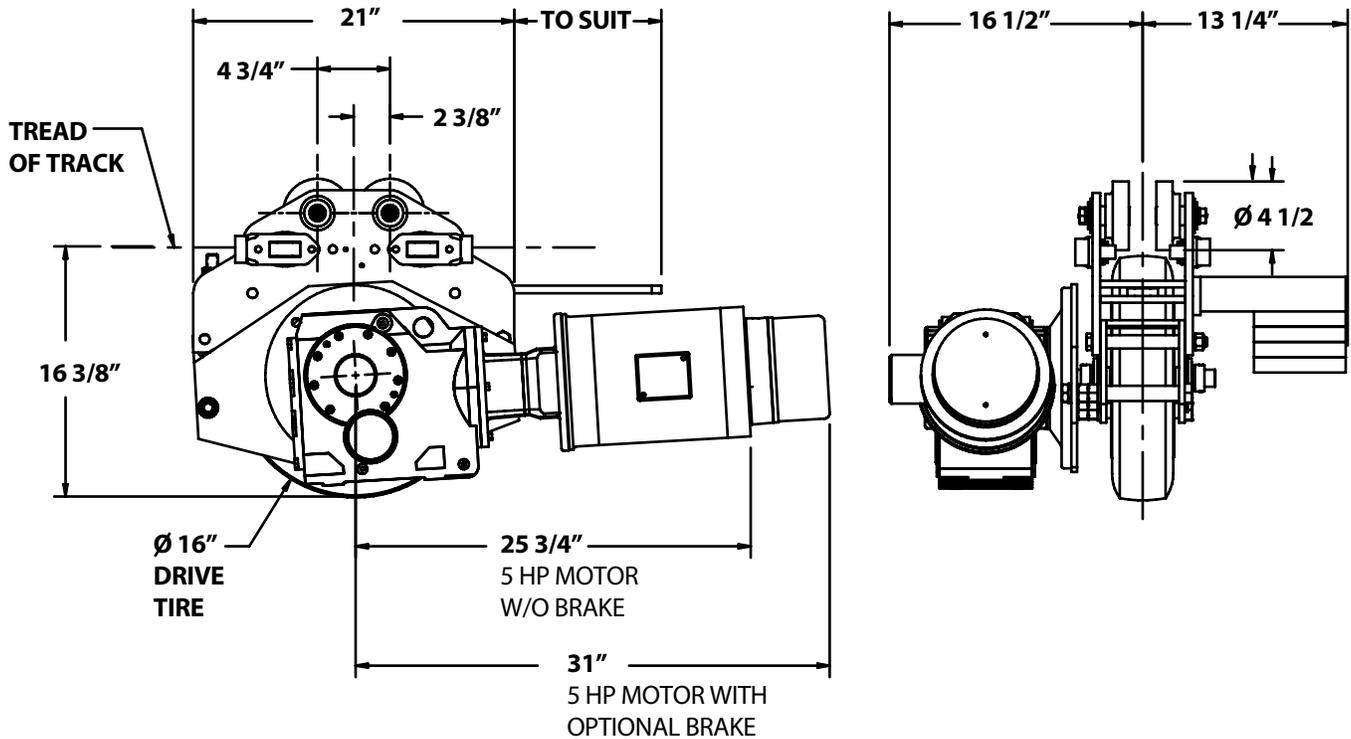
The M16 tractor drive is equipped with 4-1/2" diameter flangeless steel wheels with a hardened tread. Side guide rollers are also included in the upper frame. The wheel axle is equipped with a grease fitting for refreshing lubricant under abnormal conditions.

BEARINGS:

Each wheel includes a heavy-duty double row, pre-lubricated tapered roller bearing.

OPERATION:

The M16 tractor drive is designed to operate on 3.25" or 3.33" flange Loudon and Trambeam track. Unit will negotiate electrified SuperTrack and TrojanTrack switches as well as curves with a 29" or larger radius. The tractor drive will also navigate through 505.7824, 505.7825, 505.7830, and 505.7831 latches and latch blocks. Contact the factory to discuss applications not listed.



NOMINAL SPEED (FPM)	MAXIMUM TOW LOADS (LBS)						
	3/4 HP	1 HP	1 1/2 HP	2 HP	3 HP	5 HP	7 1/2 HP
50	28,500	38,000	53,000	-	-	-	-
75	19,000	25,300	38,000	50,700	53,000	-	-
100	14,300	19,000	28,500	38,000	53,000	-	-
125	11,400	15,200	22,800	30,400	45,600	53,000	-
150	9,500	12,700	19,000	25,300	38,000	53,000	-
200	-	-	10,500	14,000	21,000	35,000	52,500
250	-	-	8,400	11,200	16,800	28,000	42,000
300	-	-	-	9,300	14,000	23,300	35,000

AVAILABLE OPTIONS:

Options available for this tractor drive include construction for hazardous locations, bronze trolley wheels, motor brake, motor brake with manual release, quick tire release, special motor, air motor and epoxy paint. This tractor can also be provided to operate on 4" patented track, 4 1/2" patented track or structural steel.