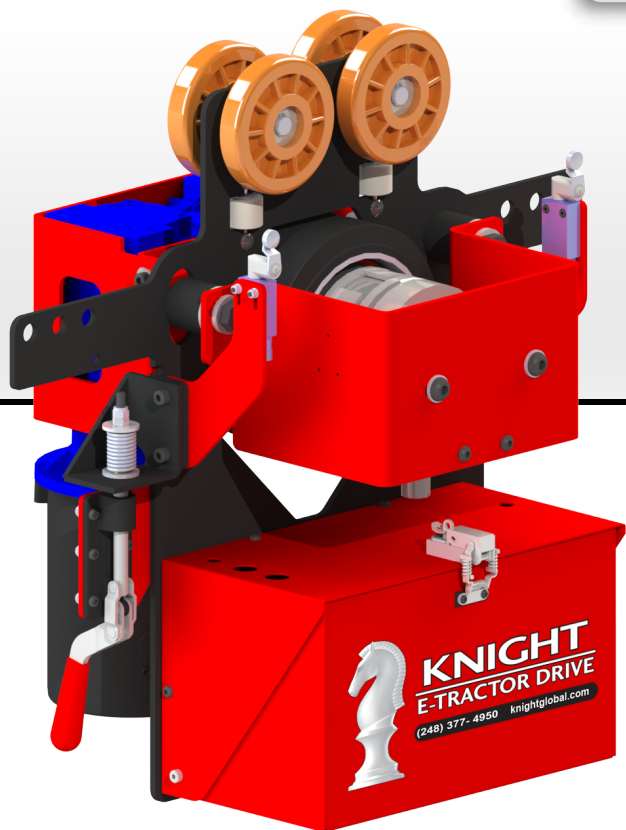


KET3000 Electric Tractor



Knight Global's KET3000 Electric Variable Frequency Drive (VFD) Tractors provide the operator with complete control. The KET3000 Series has a modular assembly design for easy installation and set-up. They are equipped with Knight's proven tractor mechanics using a worm gear reducer that is reliable and maintenance-free.

Different configurations are available depending on the type of rail being used. The VFD Electric Tractor can also be configured to run on different manufacturer's rail systems.

MAX. TOWING CAPACITY: **3,000 lbs [1,360kg]**.

KET3000 Benefits

- Provides ease of towing of fixtures, bridges, and heavy loads.
- Ergonomically assist the operators when controlling the position of loads.
- Adjustable Parameters:
 - Acceleration.
 - Deceleration.
 - Speeds.
 - Controlled start and stop.
- The dual rubber drive wheels provide positive traction between the tractor and the rail.
- Knight's KET3000 tractor is designed with a worm gear reducer. It has been proven to be highly reliable and maintenance free.
- VFD tractors have a modular assembly for ease of installation and maintenance.

KET3000 Features

- Maximum Speed. 180 ft. per min. [2.0 mph]
- Maximum Towing Capacity 3,000 lbs. [1,360kg.]
- Integrated Load Trolley.
- Dual Rubber Drive Wheels.
- Clutch Drive Wheel Engagement 24VDC
 - Drive wheel is always engaged with rail.
 - (Over Center Clamp can disengage tractor if required.)
- Pneumatic Drive Wheel Engagement
 - Drive wheel engages rail when a forward or reverse command is received.
- Programmable speeds, acceleration and deceleration rates.
- Standard Inverter Motor. 1/2 HP, 230VAC single phase.
- Standard VFD Controller. 230VAC Single Phase, for variable speeds on board.
- (2) Year Warranty.
- Over Travel Limits (Ramps sold separately.)

KET3000 Options

- End of travel shocks.
- Pendant cables with tether.
- Tow Bars.
- KCA1020 Two Speed Pendant with Run-Stop Button.
- Wireless pendant controls package.
- Over Travel Limits Ramps.
- Optional Custom Tractors:
 - Non Standard rail.
 - Nema 12 enclosure.
 - Complete fixture integration.
- Combined with Knight Engineering VFD Tractors can provide:
 - VFDTA1006 Return to home function.
 - Wireless capabilities.
 - Custom interface.
 - Coordinated dual tractor drives for large spans.
 - Coordinated with hoist.
 - Interface with other hoists.
 - Remote programming ports.

For more information, please contact a Knight Global representative.



"Due to continuous product development, Knight Global reserves the right to alter product specifications without prior notice."

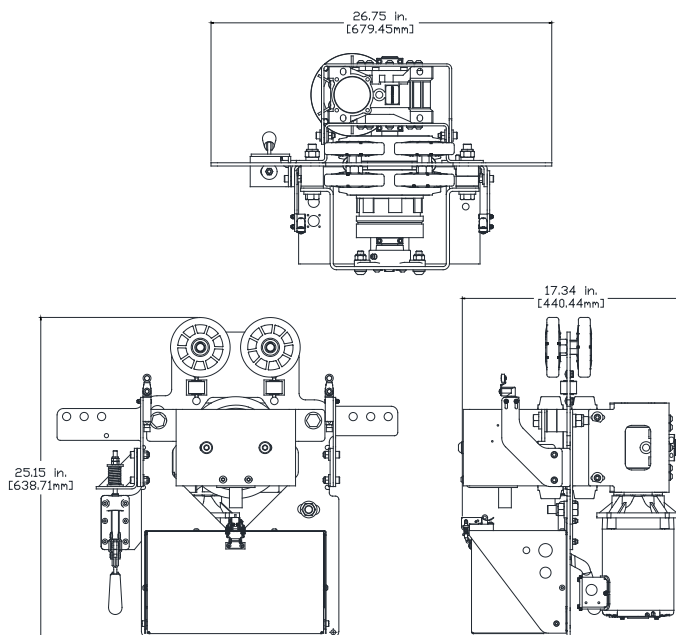
Knight Global (248) 377-4950 www.knightglobal.com



KET3000 Electric Tractor

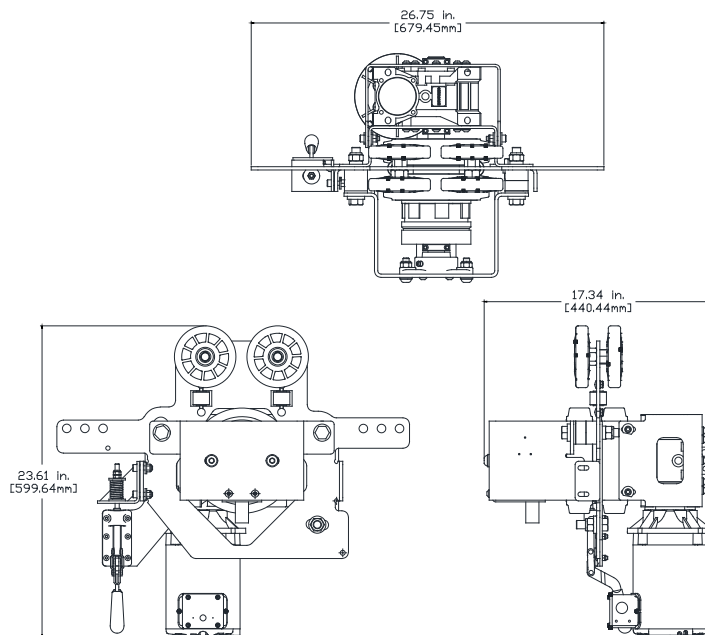
KET3709CC-000

**Knight 7510 Series VFD Tractor
Clutch Drive with Onboard Controls**



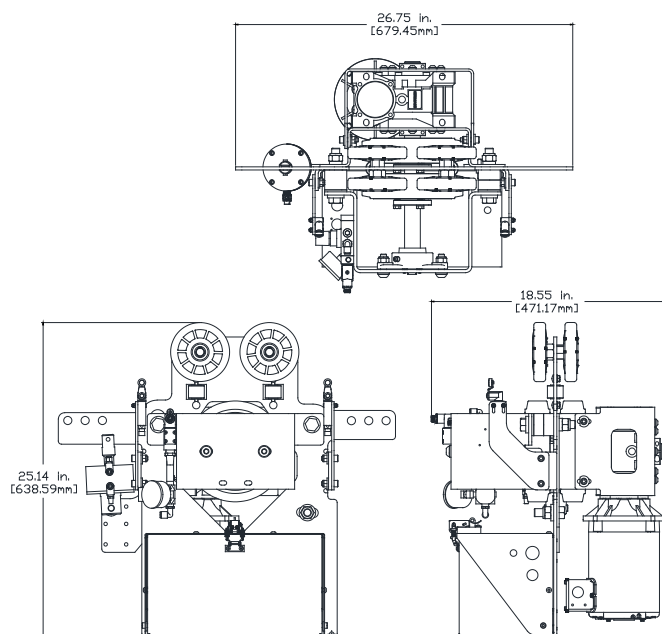
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**Knight 7510 Series VFD Tractor
Clutch Drive, Mechanical Only**



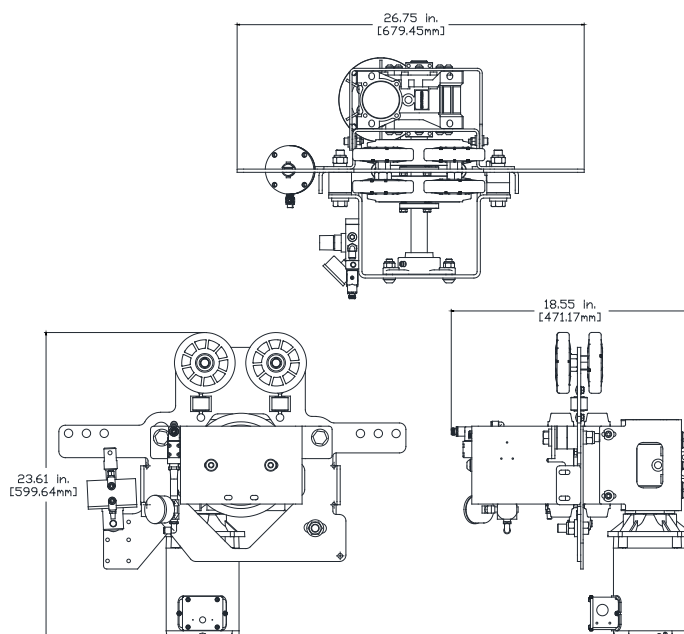
KET3709PC-000

**Knight 7510 Series VFD Tractor
Pneumatic Engagement with Onboard Controls**



KET3709PM-000

**Knight 7510 Series VFD Tractor
Pneumatic Engagement, Mechanical Only**



NOTE: Above dimensions vary by VFD Tractor configuration.

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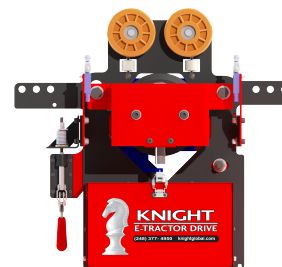
Knight Global (248) 377-4950 www.knightglobal.com



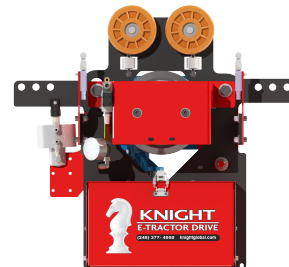
KET3000 Electric Tractor

EXAMPLE:
ORDER # : KET3709PC-000

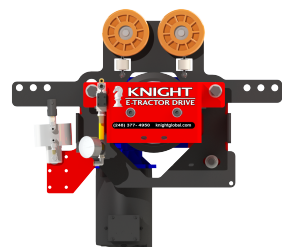
MODEL #						
1 KET	2 X	3 X	4 XX	5 X	6 X	7 - XXX
1. SYSTEM CONFIGURATION: KET = VARIABLE FREQUENCY DRIVE TRACTOR						
2. LOAD CAPACITY: 3 = 3000 lbs [1360kg]						
3. RAIL STYLE THE TRACTOR IS TO BE USED ON: 3 = RAD4500 4 = RAD4110 (4" RAIL) 5 = RAD4800 6 = RAD6110 (6" RAIL) 7 = RAD7510 (8" RAIL) C = NON KNIGHT RAIL (SEE 7 BELOW)						
4. MAXIMUM SPEED IN FEET PER MINUTE (FPM) UNLOADED / GEAR RATIO: 03 = 30 FPM [100:1] 09 = 90 FPM [40:1] 12 = 120 FPM [30:1] 18 = 180 FPM [20:1]						
5. CLUTCH TYPE: P = PNEUMATIC - CYLINDER INCLUDES REGULATOR AND VALVE (10-15 PSI) C = CLUTCH (24 VDC)						
6. CONTROL STYLE: C = CONTROLS ONBOARD M = MECHANICAL ONLY						
7. RAIL STYLE DESIGNATOR: 000 = KNIGHT RAIL ONLY 011 = UNIFIED RAIL: ETA8 012 = UNIFIED RAIL: ETA5 013 = UNIFIED RAIL: ETA4 014 = GORBEL TARCA RAIL (PATENT TRACK 3.25") 015 = GORBEL SUPER TARCA RAIL (PATENT TRACK 3.25") 016 = ZIMMERMAN ZRA2 RAIL						



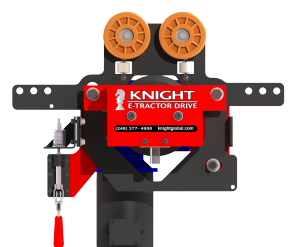
CONTROLS ONBOARD
CLUTCH DRIVE



CONTROLS ONBOARD
PNEUMATIC ENGAGEMENT



MECHANICAL ONLY
PNEUMATIC ENGAGEMENT



MECHANICAL ONLY
CLUTCH DRIVE

POSSIBLE CONFIGURATIONS

1. KET3C03CC-012
2. KET3C03CC-014
3. KET3C03CC-016
4. KET3C03CM-012
5. KET3C03CM-014
6. KET3C03CM-016
7. KET3C03PC-012
8. KET3C03PC-014
9. KET3C03PC-016
10. KET3C03PM-012
11. KET3C03PM-014
12. KET3C03PM-016
13. KET3403CC-000
14. KET3403CM-000
15. KET3403PC-000
16. KET3403PM-000
17. KET3503CC-011
18. KET3503CM-011
19. KET3503PC-011
20. KET3503PM-011
21. KET3603CC-000
22. KET3603CM-000
23. KET3603PC-000
24. KET3603PM-000

25. KET3703CC-000
26. KET3703CM-000
27. KET3703PC-000
28. KET3703PM-000
29. KET3C09CC-012
30. KET3C09CC-014
31. KET3C09CC-016
32. KET3C09CM-012
33. KET3C09CM-014
34. KET3C09CM-016
35. KET3C09PC-012
36. KET3C09PC-014
37. KET3C09PC-016
38. KET3C09PM-012
39. KET3C09PM-014
40. KET3C09PM-016
41. KET3409CC-000
42. KET3409CM-000
43. KET3409PC-000
44. KET3409PM-000
45. KET3509CC-011
46. KET3509CM-011
47. KET3509PC-011
48. KET3509PM-011

49. KET3609CC-000
50. KET3609CM-000
51. KET3609PC-000
52. KET3609PM-000
53. KET3709CC-000
54. KET3709CM-000
55. KET3709PC-000
56. KET3709PM-000
57. KET3C12CC-012
58. KET3C12CC-014
59. KET3C12CC-016
60. KET3C12CM-012
61. KET3C12CM-014
62. KET3C12CM-016
63. KET3C12PC-012
64. KET3C12PC-014
65. KET3C12PC-016
66. KET3C12PM-012
67. KET3C12PM-014
68. KET3C12PM-016
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70. KET3412CM-000
71. KET3412PC-000
72. KET3412PM-000

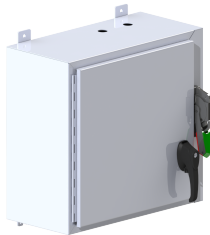
73. KET3512CC-011
74. KET3512CM-011
75. KET3512PC-011
76. KET3512PM-011
77. KET3612CC-000
78. KET3612CM-000
79. KET3612PC-000
80. KET3612PM-000
81. KET3712CC-000
82. KET3712CM-000
83. KET3712PC-000
84. KET3712PM-000
85. KET3C18CC-012
86. KET3C18CC-014
87. KET3C18CC-016
88. KET3C18CM-012
89. KET3C18CM-014
90. KET3C18CM-016
91. KET3C18PC-012
92. KET3C18PC-014
93. KET3C18PC-016
94. KET3C18PM-012
95. KET3C18PM-014
96. KET3C18PM-016

97. KET3418CC-000
98. KET3418CM-000
99. KET3418PC-000
100. KET3418PM-000
101. KET3518CC-011
102. KET3518CM-011
103. KET3518PC-011
104. KET3518PM-011
105. KET3618CC-000
106. KET3618CM-000
107. KET3618PC-000
108. KET3618PM-000
109. KET3718CC-000
110. KET3718CM-000
111. KET3718PC-000
112. KET3718PM-000



KET3000 Electric Tractor

OPTIONAL ACCESSORIES



KCA1018

Flange Disconnect w/ 480VAC – 240VAC Transformer

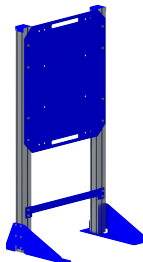
Disconnect box housing a step down transformer for power to the KET3000.



KCA1019

Fused Disconnect Assembly

Disconnect power box for power to the KET3000.



KCA1001

Disconnect Stand

Floor stand to mount an electrical disconnect box.



MRAA7022

Mid-Rail Shock (RAD7510)

Shock absorber located mid-rail to halt KET3000 tractor movement.



MRAS7533

End Cap Shock (RAD7510)

Shock absorber located at the end of the rail to protect KET3000.



MRAA7171-24

24" Limit Ramp Assembly

Used to limit KET3000 movement within a pre-determined work area. (2) required.



MRAA7171-36

36" Limit Ramp Assembly

Used to limit KET3000 movement within a pre-determined work area. (2) required.



ETA1018

Tow Bar Assembly

Connects Knight VFD to carriage trolley, can be used trolley to trolley as well.



ETA1059

Tow Bar Assembly

Connects Knight VFD to Knight end truck.



KCA1045

Pendant Cable Kit

Tethers VFD tractor to Knight Pendant handle too relieve stress on communications cable (5 meter).



KCA1020

2-Speed Pendant with Run-Stop

Dual speed pendant handle to enable and control forward and reverse motion of KET3000.



PENDANT CABLE

8-Pin Micro Switch Cable

Provides I/O control and communication between the 5 meter handle controls and VFD.



KCA1004

Wireless Control Unit 4 Button

Allows for wireless control of KET3000 and additional components.



KCA1005

Wireless Control Unit 6 Button

Allows for wireless control of KET3000 and additional components.



KCA1006

Wireless Control Unit 8 Button

Allows for wireless control of KET3000 and additional components.