Hydraulic Trailer Hitch

Description
The Hydraulic Trailer Hitch latch works simultaneous with the hydraulic lever that operates the 2’ dovetail. When loading or unloading equipment, employees must raise and lower the dove tail. This innovation will latch and unlatch automatically, so the operator doesn’t have to manually latch or unlatch it. In the past, the factory latches have been broken. This eliminates the chance of operating the trailer in an unsafe manner.

Benefit
This hitch improves safety and saves time by automatically latching or unlatching. The operator doesn’t need to manually operate a latch. In addition, this hitch is stronger than the factory latch making it safer.

Materials and Labor

Materials List:
- 1 - Hydraulic Cylinder $60
- 1 - Hydraulic Hose $50
- 1 - 1x4 inch Flat Steel $65

Total Materials Cost: $175

Labor: 6 hours

For More Information Contact:
Scott Austin at dennis.austin@modot.mo.gov or (417) 326-5632.

Trailer in raised position

14.500"

100" + 2.75" + 1.60" + 6.00" + 100" + 100" + 2.00"

1.750" x 4.00" plate

1.000" ID tube

Latching supports (See drawing)

Tote frame (See drawing)

Trailer Deck

Latch Support (9\#)

1.600" dim.

1.600" dim.

1.600"

2.00"

Trailer Latch Hydraulic Schematic

Use 2" x 10" Hydraulic Cylinder

Trailer Latch Cyl.

Tailgate Cyl.

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