

SPECIFICATIONS
SWX 65B SHUTTLE WAGON

GENERAL DESCRIPTION:

The Central Manufacturing SWX 65B Mobile rail car mover is the largest mobile rail car mover on the market to date. Its gross weight of 100,000 pounds and patent applied for axle mounting system combined with its hydraulic drive gives it the power to do the job normally required by switch engines.

FRAME:

All welded construction with 5" x 120" x 308" deck plate. Vertical 4" and 5" plates form a integral frame section. Four (4) recessed steps in each corner of frame gives access to cab and other components. Removable handrails round frame walk areas.

POWERTRAIN:

ENGINE:

Caterpillar Diesel Model 3406C
Turbocharged-Aftercooled
400 HP @ 2100 RPM
SAE #1 Housing

PUMP DRIVE:

Funk Manufacturing Model 593 P
(3) pads SAE "C"
0.86: 1 Ratio
SAE #1 Housing

TRANSMISSION:

(2) Funk Manufacturing Model 2133H00b Powershift
Three (3) speed forward and Reverse.
Ratios: 1st 5.80:1
2nd 2.50:1
3rd 1.00:1

DRIVE LINES:

Mechanic 7C series

AXLES:

Deere Power Systems Model 1400 Series inboard Planetary, brakes are totally enclosed and oil cooled.

No spin front and rear.

Ratio overall 20.945:1

Parking brake on front axle.

HYD. PUMP & MOTORS:

(2) Linde Pumps Model BPV100 Variable Displacement Pumps mount directly to pump drive.

(2) Linde Motors Model BMV186 Variable Displacement Motors mount directly to Funk transmissions.

BRAKES:

Inboard wet disc brakes completely sealed from contaminants spark free for regulatory compliance in hazardous environments. Fully immersed in oil for extra life. Brake pads are self adjusting Rail car A.A.R. connection, rail car air brake system with 32 CFM air compressor. Cab mounted A-9 valve with three position service. Hydraulic parking brake for vehicle on front axle.

TIRES Four (4) 14:00 R 24 XKD1A *** Michelin tube type tires.

WHEEL: 1024AG rims and solid disc wheels.

RADIATOR:

Young Radiator Co. Heavy Duty bolted Top and Bottom tank construction. 30 Quart capacity.

HEAT EXCHANGER:

Air to oil located in front of Radiator for cooling Transmission and hydraulic pumps.

AIR CLEANER: Farr ECO-SM Series
Totally self-contained, completely disposable
Rated airflow of 1420 cfm @ 6" W.G.

MUFFLER: Donaldson Vertical mounted w/rain cap

STEERING:

Hydraulic all wheel steer. Selector valve for 2 Wheel, 4 Wheel, or Crab Steer. Char-Lynn/Eaton Model 25 Series Load sensing system. Four (4) cylinders 3" Bore x 1 1/4" rod. Steering system in neutral when on rails allowing the guide wheel system to steering the drive axles around the tightest industrial rail curves.

HYDRAULICS:

60 Gallon Reservoir with sight gauge and temp. gauge, removable top cover for easy clean-out. Suction strainers and in tank return filters. The following pumps are used over and above the Linde pumps mentioned in the Power Train. Linde Model HPR 100 Variable displacement for all other hydraulic functions and (2) Tryone Model P16 Gear pumps for transmission charge pumps.

FUEL TANK:

Aluminum 115 Gallon capacity. DOT approved.

ELECTRICAL

24 Volt Starting/12 Volt run, 90 Amp Delco alternator 30 SI series, Rear Stop Lights, 360 degree Spotlight, (2) Federal Signal amber strobe (top of cab), (4) Heavy Duty Delco 900 CCA Maintenance Free Batteries. Full Instrumentation Dacton English/Metric Including the following: Tachometer w/engine hourmeter, hourmeter to record actual on rail running time, Air Pressure, Engine Oil Pressure, Engine water Temp., Transmission Oil Temp., Fuel Level, and Voltmeter. Rail pressure gauges, Linde charge pump pressure gauges, Linde pump pressure gauges, motor return pressure gauges, main system pressure gauge.

CAB:

Fully Insulated 120" wide x 60" long rubber mounted. (2) High back w/arm rest, air suspension seats mounted on swivel, can face forward, or to the rear. Instruments and all operating controls located on pedestal in center of cab. Roof Mounted Red Dot Heater/air conditioner rated @ 46,000 BTU/hr. Safety Glass through out. Two (2) rear doors behind operators seats and one (1) front entrance door in center of cab.

RAIL GEAR:

Patent applied for rail guidance system consist of (8) 13" diameter guide wheels (1) each at front and rear of each drive wheel. (8) special inverted design 3-1/4" bore, 4" Dia.. rod hydraulic cylinders with constant pressure hydraulic system keeping rail wheels down on rail. Cylinder allows movement for uneven rails, frogs, and switches while maintaining guide wheel force. This rail guidance system guides drive axles around the tightest curves.

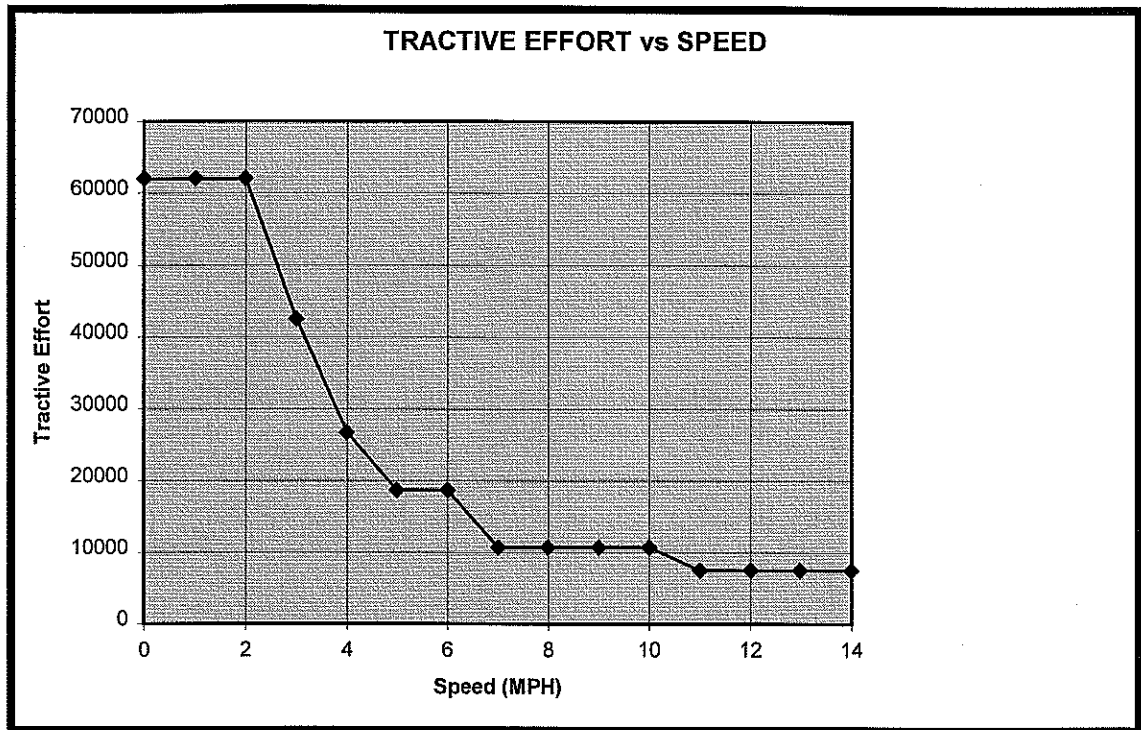
COUPLERS:

Front and Rear AAR Type with two (2) Rubber spring buffers. Air operated unlatch from operator seat. Hydraulic coupler positioner for both front and rear couplers, controlled from operators seat.

GENERAL DIMENSIONS:

Wheel Base	156"
Overall Width	120"
Overall Length	350"
Overall Height (top of cab)	146"
Vehicle Speed:	
Max.	14 MPH
Weight	100,000#

TRACTIVE EFFORT: 55,000 LBS. one coupler (Without weight transfer)
 Above specifications subject to change without notice.



OPTIONS INCLUDED IN BASE UNIT

The following list of options that were priced separately in the last purchase that are included in the basic rail car mover:

- | | |
|--|---------------------------------|
| No Sanders | Return Filter at ea. Case drain |
| Transmission RPM Readout | Three piece hood |
| Transmission Run Hours | (8) Aeroequip test points |
| Pressure Gauge 5000psi | Removable Handrails |
| Heat Shield | Turbo Boost Gauge |
| 10,000psi Gauge Hyd. Circuit | Under Hood Work Lights |
| Steel Guard Hose | Instrument panel work lights |
| New Oil Cooler Design | Shut-off valve locks |
| Remote Compress locked out
with Trans. Engaged. | Additional Hyd. Level Sensor |
| Magnet in Hyd. Tank | Low rail pressure shut down |
| Taylor Hyd. Filtration system | Roof mounted air conditioner |

OPTIONS AVAILABLE:

85 CFM REMOTE MOUNTED AIR COMPRESSOR:

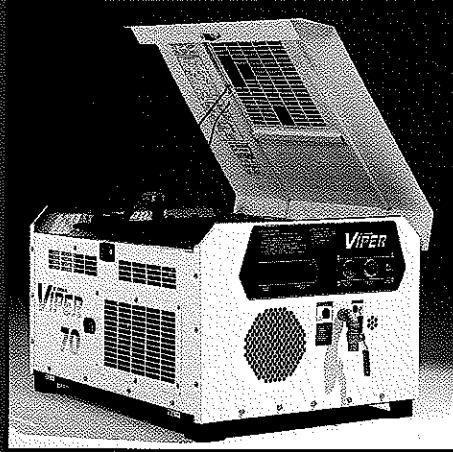
VanAir hydraulic driven rotary screw air compressor. Self contained unit mounted on rear walkway of Shuttle Wagon. Compressor is directly coupled to a hydraulic motor and housed in a sheet metal enclosure with oil cooler and side-mounted receiver/oil sump. Filters are full flow, replaceable element for compressor lubricating oil. Two-stage dry-type air filter for compressor air inlet. Hydraulic motor driven by Shuttle Wagon main hydraulic pump. 85 cfm compressor is controlled by operator with on/off switch on console. Shuttle Wagon total air output at 2100 rpm is 117 cfm with remote air compressor operational.(see attached literature)

ENGINE HORSEPOWER:

Increase engine Horsepower from 400 to 460

SPARE TIRE AND WHEEL ASSEMBLY:

Viper Engine Driven Specifications:



Dimensions:

Length 42.0"
 Width 33.0"
 Height 29.0"

Compressor:

Type Sullair oil flooded rotary screw
 Rated Delivery 70 CFM @ 100 psig
 60 CFM @ 150 psig
 Oil Sump Capacity 2.5 Gallons
 Service Valves One 3/4" NPT
 Air Intake System Single stage-dry
 Inlet Control 0-100% stepless demand
 Cooling System Air to Oil

Engine:

Engine Make Kohler (Model CH25)
 Fuel Type Gasoline
 Engine Type 4-Cycle, V-Twin, Overhead Valve
 Cooling Air Cooled
 Bore & Stroke 3.27" x 2.64"
 Horsepower @ Rated RPM 25 HP
 Full Load Speed 3300 RPM (70 CFM @ 100 psig)
 3300 RPM (60 CFM @ 150 psig)
 Idle Speed 2450 RPM
 Fuel Tank Capacity 5.0 Gallons

Weight:

Dry 500 lbs.

All Specifications Subject to Change Without Notice.

Viper Hydraulic Module Specifications:



Dimensions:

Length 39.0"
 Width 20.0"
 Height 21.0"

Compressor:

Type Sullair oil injected rotary screw
 Oil Sump Capacity 2.5 Gallons
 Service Valves One 3/4" NPT
 Air Intake System Single stage-dry
 Inlet Control 0-100% stepless demand
 Cooling System Air to Oil
 Oil Separation System Spin on Coalescer Element
 Hydraulic Motor Gear Type
 Ambient Operating Range -20°F to + 110°F

Ratings:

Standard Pressure Model

Capacity (cfm)	60	70	85
Air Pressure (psig)	100	100	100
Hydraulic Flow Required (gpm)	16.5	18.5	22.5
Hydraulic Pressure Required (psig)	1950	1950	2000

High Pressure Model

Capacity (cfm)	60	70	85
Air Pressure (psig)	150	150	150
Hydraulic Flow Required (gpm)	16.5	18.6	22.5
Hydraulic Pressure Required (psig)	2500	2550	2500

Package:

Main Frame Formed Steel with Bolt-down Provision
 Enclosure Sheet Metal with Service Access
 Service Items Grouped with Accessible Location
 Supply Connections Hydraulic -Oil In 3/4" 37' JIC
 Oil Out 1" 37' JIC
 Electrical -12 vdc positive & ground
 High Temp. Shutdown

Weight:

Dry 333 lbs.

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