

RAWSON MANUFACTURING INC.

PORTABLE SCREENING AND AGGREGATE HANDLING EQUIPMENT

PORTABLE SLURRY SURFACING SCREENING EQUIPMENT

MODEL 74830



**AN ECONOMIC WAY TO SCREEN CAKED LUMPS AND
OVERSIZED PARTICLES FROM AGGREGATE**

**A SMOOTH CONSISTENT UNIFORM MIXTURE WILL
INCREASE PRODUCTIVITY AND MINIMIZE DOWNTIME**

www.rawsonscreens.com

Specifications:

74830

Dimensions

Height	12'11"
Length	40' 7"
Width	7'8"
Weight	16,260lbs
Tongue Weight	3,260lbs

Conveyor

Discharge Height	12'11"
Type	Belt, Troughing
Size (main)	30" x 20'4"
Size (Bottom)	30" x 11'10"

Frame

Hitch Type	Pintle
Axles	3) 7000lb.
Tires	235/85R16
Brakes	Electric

Screen

Type	2 Bearing Vibration
Size	4' x 8', single Deck

Hopper

Width	11'1"
Dump Height	11'4"
Size	5.5 cu. Yds.

Engine/Generator

Engine	John Deere 4045D
Generator	Marathon 40kw
Horsepower	80 @ 2500RPM
Voltage	240v 3phase

Standard Equipment:

Frame

(3) Sets landing Gear 95,000lbs
3) 7000# axles
28 gallon fuel tank
Travel Light kit
Safety chains
Standard 6 pin trailer plug
Break away switch
12 volt battery
safety decals
safety guarding
Ramp assembly

Screen

Oil Lubricated Bearings
12 Springs
Screen locks for travel
Screen Cloth clamps
5hp electric motor
v belt drive
Crown Rubber for screen cloth
Brackets for Harp wire screen

Top Conveyor

Flexible tack lag drive pulley
Pillow block bearings head and tail
Sealed 30" 20 Degree Troughing Rolls
Sealed 30" 35 Degree Troughing Rolls
Sealed 30" Return Rolls
Return Roll Safety guards
7.5hp electric motor
220# 2 ply rubber belts
Flexco Hinge lacings on belts R-2 Style
3/8 Solid receiving hopper wiper kit
HTD pulley and belt drive
Guide Rolls with sealed bearings
Safety Guarding around all shafts
1" Rubber Belt Scraper

Under Screen Conveyor

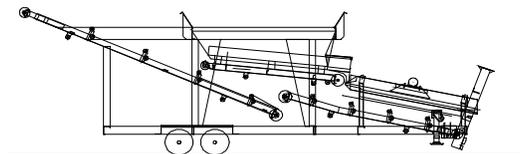
Flexible tack lag drive pulley
Pillow block bearings head and tail
Sealed 30" 20 Degree Troughing Rolls
Sealed 30" 35 Degree Troughing Rolls
Sealed 30" Return Rolls
Return Roll Safety guards
Self Cleaning tail pulley
3/8 Solid receiving hopper wiper kit
220# 2 ply rubber belts

Hopper/Feeder

Pillow Block Bearings Head and Tail
Flexible Tack Lag on Drive Pulley
Leroy Somer Speed Reducer
3hp Electric Motor
V belt drive
Sealed 36" 20 Degree Troughing Rolls
Sealed 36" Return Rolls
Return Roll Safety Guards
220# 2 ply rubber belt
Flexco R-2 hinge belt lacing
3/8 solid hopper wiper kit
Electronic variable speed belt control
Steel door on open end of hopper
Linear actuator on hopper door
Steel side boards on hopper

Electrical

Motor Starters for all motors
Overload Protectors for motor starters
Start/Stop switch for all motors
70 amp circuit breaker
110volt outlet
Frequency control feeder motor drive
Disconnect switch for entire system
John Deere Ignition switch



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John Deere Engine

Model 4045D Power Tech diesel engine. 80 Horsepower at 2500 max RPM. 4.5 Liter Displacement with direct bolt flywheel to generator.



4' x 8' Vibrating Screen Deck

Open top screen deck with vibration mechanism mounted underneath. Made to fit standard screen cloth or harp wire screen. Screen is mounted on 12 springs with rubber locking clamps. Oil lubricated spherical roller bearings on vibration mechanism.

6 Stabilizing Legs

Makes leveling the machine at setup time simple. Keeps machine level throughout job. Takes the pressure off the tires while in running position. Keeps machine stable throughout operation process.

Ramp Setup Kit

New feature for 2003 is a quick setup ramp. The ramp makes cleaning and moving faster and easier. Ramp building material is kept away from frame of the machine.



5 1/2 Cubic Yard Capacity Hopper

Large enough to handle most front end loaders with side boards available for additional capacity.

Linear Actuator for Hopper Door

Where the material exits the feed hopper there is a door to regulate the amount of material eliminating screen overloading. The actuator allows the operator to operate the door control from the ground.

Marathon Generator

Model #361PSL1601, MAGNAPLUS generator offers powerful performance and reliability. Solid state technology, utilizing unirotor construction. UL recognized class H insulation system and long life bearings.



Extra power from Genset

Generator has power for additional lights on the machine, a jobsite trailer or for night lighting setup.

Electronically controlled Belt Feed System

Features a variable frequency control motor drive on feeder. Allows operator to control flow of material onto screen by the turn of a dial. Also can regulate mixture quantities if double hopper option is added.



All Electric Drive

Electrically driven motors are 30% more fuel efficient over hydraulically driven motors.

Dual Conveyor System For Stacking

Allows for higher discharge height for loading directly into trucks. Also a straight conveyor is more accurate for the belt scale option available on the next page

Quick and easy setup

Drop stabilizing legs, fold pintle hitch up. Level machine and start engine. As simple and fast as you can get.

Fold up Pintle Hitch

Makes cleaning tailings pile simple and moving the machine easy. Picture shown on back cover.

Belt Scale With Batch System:

Beltway fully electronic belt scale system. Weigh the load as it comes off the belt into the truck. Batch system allows operator to set different weights in the scales memory for a one button push and machine will stop when weight is met. Most accurate scale on the market.

**Ticket Printer:**

Used with belt scale to print weights of loads in trucks. Very useful for operators to determine the amount loaded in each truck. Shown above in the bottom of the water tight scale panel.

2nd Hopper for blending materials

For precise blending of materials to be screened another hopper with a variable frequency drive is added. The second hopper attaches over the screen. When one hopper is empty the other will automatically shut down. See picture below

**Harp Wire Screen Deck:**

Speeds up production and reduces waste in the Slurry Surfacing Screening process. Less binding and more open screen area for material to pass through onto belt.

**Asphalt Pump/Water Pump:**

The 74830 can also be used as a transfer station. The 2 pumps with electric motors can be mounted directly to the frame and wired into the main electrical panel. While the truck is being loaded with aggregate it can also be loaded with water and asphalt mix. A heated asphalt pump is also available for cold climates.

Air Brakes:

Air over hydraulic brake control is available when electric brakes are not.

Rawson Manufacturing designs and manufactures custom equipment to meet the needs of our customers. New Suggestions are always welcomed.