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MGL EX1

Primary Scalping Screen



Designed and manufactured at MGL Engineering Inc. in Lakeland, FL, U.S.A.

MGL EX1 Technical Specifications

Overall Dimensions

- Total weight.....33,400 lbs (approx)
- Width.....8' 5-3/4"
- Length.....37' 7"
- Overall working height.....11' 5"
- Loading height.....11' 5"
- Transport Height.....12'
- Screen area.....80 sq ft
- Stock piling height.....9'

Benefits

- High capacity 800 TPH (depending on material and mesh sizes)
- Single 8' x 10' screen box for high amplitude vibration (1/2" of throw – depending on flywheel weight configuration)
- Interchangeable lower deck screen panels
- Easy transport/set up with fifth wheel, 20k axle, air brakes, independent hydraulic jacking legs, springs and mudguards
- Heavy-duty construction
- Quick and easy maintenance access

Applications

- Sand and gravel
- Crushed stone
- Demolition
- Recycling
- Topsoil

The MGL EX1 is a heavy-duty high-capacity portable primary scalping and conveying unit. Used in many applications from aggregates and top soils to C&D recycling the MGL EX1 is designed and built for versatility. (See the MGL EX2 for a higher production option).

Screening Unit:

The MGL EX1 features an 8' x 10' two-deck high-amplitude screenbox.

The upper deck consists of heavy-duty ½" abrasion resistant punchplate/grizzly fingers to withstand the rigors of demolition concrete. A 4" split on the top-deck is standard, however, a heavy-duty welded mesh screen option of any size is available.

The lower deck consists of interchangeable mesh screen panels.

Vibrating action is provided by eccentric screen shafts and adjustable flywheel weights.

Power Unit:

Power is provided by a 74 HP Cummins turbo diesel engine. The engine, hydraulic/fuel tanks, hydraulic valves, and battery are enclosed and mounted above the front chassis assembly near the fifth wheel end of the machine. Multiple panels make for easy maintenance access. A 12-volt twin fan oil cooler also comes standard.

Hopper and Conveyor:

Material is directed from the lower screen deck to the collection/stockpiling conveyor via steel plate and heavy skirting to prevent spillage. The screened material is collected and stockpiled by a 60" wide, 3-ply, vulcanized belt moving at 250-300 ft/min. The fully-skirted conveyor stockpiles to 9' and is fit with a urethane scraper.

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Transport:

The MGL EX1 is outfitted with a single 20k axle, fifth wheel, air brakes, mud guards and running lights for road transport. It also features hydraulic jacking legs for easy hook-up. Transport height is 12'.

Operation:

High production rates of 800 TPH can be achieved when loading material correctly. There are many applications and variations which can alter production results. Independent hydraulic jacking legs for quick accurate set up come standard.

Warranty:

The MGL EX1 comes with a 12 month or 1000 hour warranty (whichever comes first).

Diesel / Hydraulic Drive

Engine:

- Cummins QSF 2.8, 74 HP, turbo diesel
- 45 gallon fuel capacity

Hydraulic pump:

- Permco P257 pump (2-stage)

Hydraulic Motors:

- Screen motors : Permco M257
- Conveyor motor : Sauer-Danfoss OMV-800

Control Valves:

- Screen circuits: Walvoil SD16, single-spool (set at 3200 psi)
- Conveyor/Jacking legs circuit: Youli MB-5, 3-spool (set at 3200 psi)

Recommended Hydraulic Oil:

- Chevron AW 64

Hydraulic System Capacity:

- 95 gallons

Screen Drive Belts:

- 5VX1080 (2x)

Jacking Leg Cylinders:

- 3" bore x 12" stroke (2x)

Typical Operating Pressures:

- Screen: 1000-1500 psi
- Conveyor : 1500-2000 psi

Screen Shaft Speed:

- Nominal shaft speed of 850 rpm

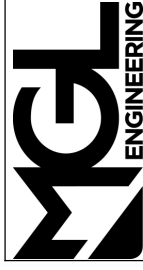
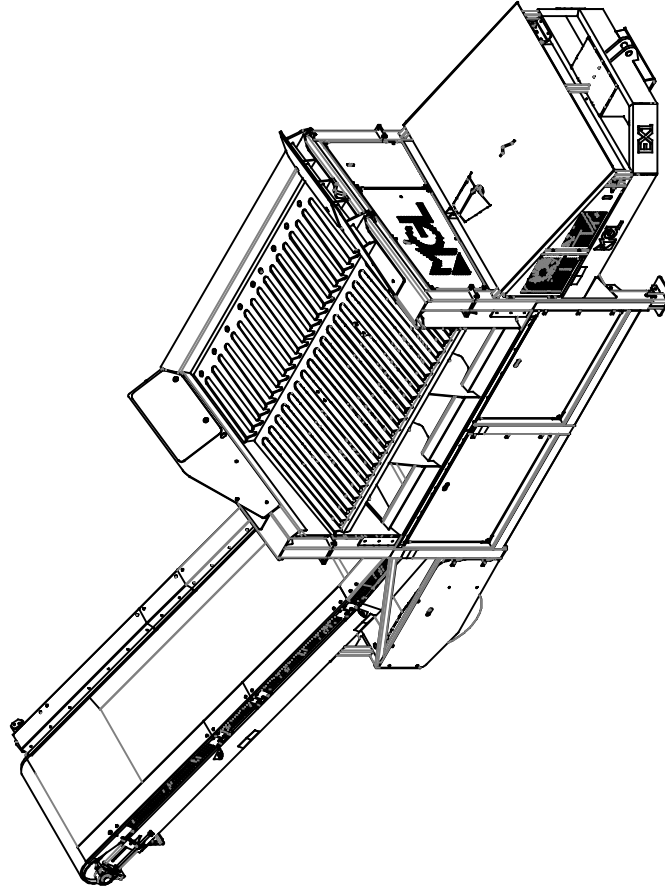
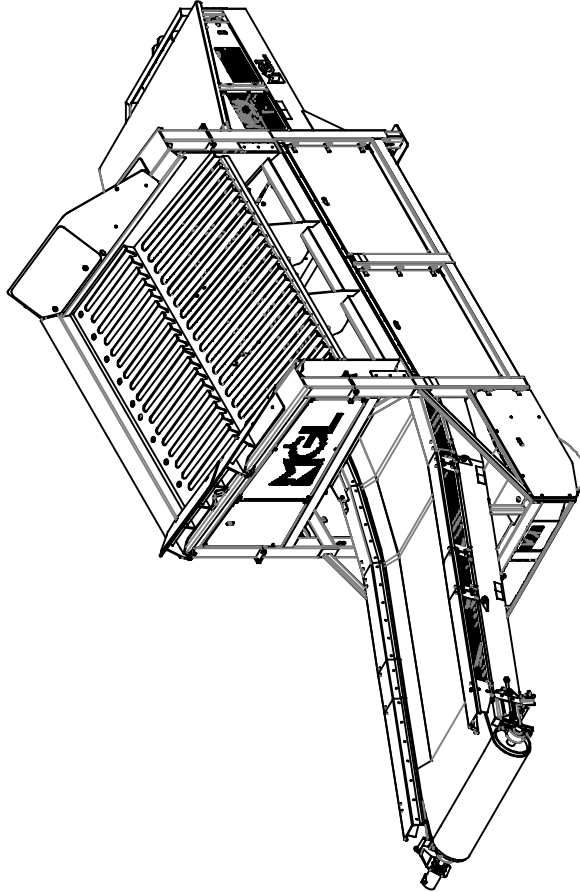
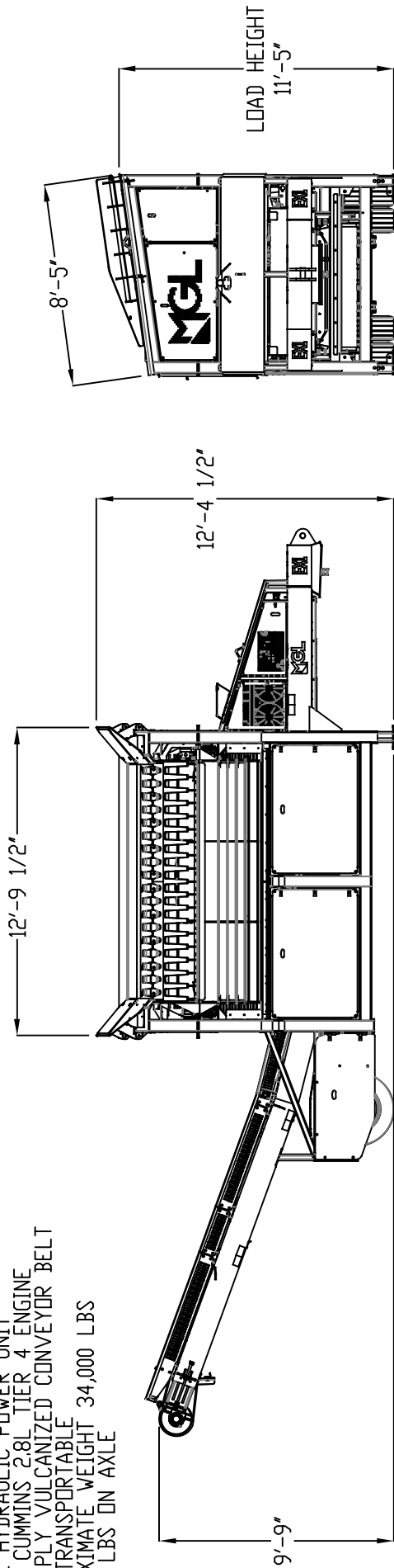
Conveyor:

- Belt: 3-ply, 60" wide, vulcanized
- Drive drum: 16" diameter, 63" wide
- Tail Drum: 12" diameter, 63" wide

Wheels:

- Single 20k axle
- Tires: 255/70R22.5

- GENERAL SPECIFICATIONS:
- HEAVY DUTY, HIGH AMPLITUDE SCREENBOX
 - 120 mm SCREEN BEARINGS
 - 2 DECK, 10'x8' NOM. SCREEN AREA
 - AR TOP SCREEN DECK
 - DIESEL HYDRAULIC POWER UNIT
 - 74 HP CUMMINS 28L TIER 4 ENGINE
 - 60" 3-PLY VULCANIZED CONVEYOR BELT
 - ROAD TRANSPORTABLE
 - APPROXIMATE WEIGHT 34,000 LBS
 - 20,000 LBS ON AXLE



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MGL ENGINEERING		REV
EX1 WHEELED		B
SPEC SHEET		EX1W Spec Sheet
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SCALE: 1/64" = 1'		SHEET 1 OF 1