

# Metso HP400 Cone Crusher Unit #1386

#SOR0340

Equipment As Follows:

Nordberg HP400 Cone Crusher, the heart of the plant is the high-performance HP Series cone crusher. Designed for portable installations, this cone crusher is the most compact, economical to operate and productive machine in its class. The HP Series offers substantially higher production capacity over traditional cone crushers. It also provides excellent product shape, making it suitable for both secondary and tertiary crushing.

Equipped with manganese steel crushing members, bronze bearings and replaceable main frame seat liners. Features include hydraulic bowl clamping and adjustment, automatic tramp iron release and hydraulic clearing of the crusher chamber. Remote control station mounted to side of plant allows convenient operation for adjusting the closed side setting, or for clearing the crusher.

Additional HP cone features include a package lubrication system consisting of an internal independent pump, oil pressure sensor, temperature sensor, oil tank with strainer, oil level sensor, (2) oil heater with control panel, oil filter and oil cooler (air-radiator type), and crusher tools.

## GREYHAWK PORTABLE HP400RD PLANT

### 1. MAIN CHASSIS

- 24" Mainbeam
- Tri-axle Hutch Spring Suspension with 49-1/2" axle spacing
- Qty 12 11R22.5 tires on hub piloted wheels
- Air controlled brakes on all axles
- LED side marker and taillights
- Large machinery platform with handrails and toe kicks
- Observation platform with fold down handrails
- Adjustable king pin support
  - Adjustable tubular supports reduce the amount of blocking required in the kingpin area during plant operation, which simplifies set up and tear down.
  - The kingpin supports have Acme threaded rod adjustment and fold up for transport.
- Crusher feed basket (mad need to be removed for travel)
- Overflow chute to direct excess material from the feed basket to the discharge conveyor
- Crusher motor base with hydraulic assist

### 1. REAR DISCHARGE CONVEYOR (48")

- Channel frame design

- Superior 5" CEMA C channel mount idlers
- Superior 5" CEMA C channel mount impact idlers in high impact areas
- Superior 5" CEMA C return idlers
- 3 ply, 3/16" top cover conveyor belting
- Adjustable skirt rubber in load zone under the crusher
- Receiving hopper lined with 1" steel backed rubber
- Head Pulley
  - Superior 12" drum pulley
  - XT30 hubs
  - 3-7/16" pillow block bearings (SCM)
  - Master PT shaft mount reducer
  - WEG 20HP motor
- Tail Pulley
  - Superior 12" wing pulley
  - XT30 hubs
  - 2-15/16" bearings
  - Tube in tube takeups
  - Flange mount bearings (SCM)

### 3. ELECTRICAL

- NEMA4 enclosure
- Enclosure is bolted to a steel support frame for setting on grade during operation
- Lifting eyes
- Connected to plant with 15' of cable to allow the customer to position the enclosure
- Door interlocked disconnect linkage
- Warning horn
- Square D circuit breakers
- Square D NEMA rated starters
- Discharge Conveyor – 20HP
- Crusher lube pump – 10HP
- Crusher lube oil cooler – 7.5HP
- Crusher hydraulic pump – 10HP
- Crusher motor – 400HP/1800RPM
- Crusher is controlled by a WEG soft start
- Door mounted amp meter for crusher amperage
- Hour meter
- Pushbutton start/stop control
- Fork Pockets on Support Frame

### 4. HYDRAULICS

- 13HP Honda gasoline engine with electric start and backup recoil start
- (6) Hydraulic jacklegs with lock-out valves

- The hydraulic jack assemblies are designed for service as a “Run-on” jack, however, we highly recommend the use of cribbing to properly support the portable chassis
- Six bank valve body for independent control of each jackleg
- Single bank valve for independent control feed conveyor positioning
- Single bank valve for raising and lowering the feed conveyor tail section
- Single bank valve for side discharge conveyor positioning
- Single bank valve for crusher motor adjustment

## 5. SAFETY/GUARDING

- We install all standard guarding, customer will be responsible for compliance with local codes.

## 6. GENERAL:

- Paint
  - Sandblasted
  - Two-part epoxy primer
  - Two-part urethane topcoat
  - Chassis Color-GH Beige
  - Handrail/Guarding Color-GH Safety Yellow
  - Decals-Orange & grey striping
- (2) sets of owners/parts manuals



