

DESCRIPTION & DIMENSIONS

Quantity: 1 Model: RR11-17,

Description: Electro-hydraulic, self propelled, arm feed, dual head roof control drill. Drillheads mounted on extending and swinging booms. Machine is designed for an average mining height not to exceed 8' (2,438 mm).

Approximate Dimensions -- Similar to JHF Drawing No. 12-01-54

Length: 23' 10" (7264 mm) Width: 9' 6" (2,896 mm)

Chassis Height: 35" (889 mm) Wheel base: 73" (1,854 mm)

Underclearance: 9" (229 mm) Weight: 39,000 lbs. (17,690 Kg.)

SPECIFICATIONS JHF Proposal No. 1792011

Chassis:

Independent front and rear chassis lift - 7 degrees up, 3 degrees down

Side entry tram deck on L.H. rear of machine

Hinged manually adjustable tram canopy

Tow eyes (3) on rear bumper

Machine mounted operator's manual

9' (2,743 mm) reach "L" type TRS

Hydraulic articulated TRS beam with hydraulic pad extend and leveling link with out-by pad

Note: Leveling link increases the overall height of the machine by 2" (51 mm) beyond height noted above of 35" (889 mm) to approximately 37" (940 mm)

Positioning and TRS controls at front left corner of chassis

3/8" (9.5 mm) thick cover plates with 2" (51 mm) fringe

Sound deadening of motor-blower compartment

20 lb. (9.1 Kg.) manually actuated dry chemical fire suppression system

Zoned lubrication system

Fletcher orange paint

Five (three paper, one laminated, one cd) copies of parts & service manuals

Drive System:

Four wheel drive with heavy duty 120/180 pitch chain, chain oilers, countershafts and mud relieved sprockets

Tractor steering, turns within length

Staffa B-80 radial piston tram motors with high flow motion control valves

M.S.H.A. approved braking system with automatic spring set, hydraulic release disc brakes

Tram speed: 0-1.5 mph (0-2.4 Km/Hr.)

32" - 14.5 X 15 STA foam filled tires

Tram freewheel towing circuit w/hand pump to release brakes

Hydraulic System:

Maximum working pressure: 2,500 psi (172 Bar)

Pressurized hydraulic tank with breather

Tank capacity: 160 U.S. gallons (605 liters)

Hand operated fill pump with screened in-take

Magnetic tank strainer and Schroeder high pressure filters

SAE O- ring fittings in hydraulic components and control valves

Manuli Rock Master 3500 psi hoses with JIC fittings

1" (25.4 mm) hoses on high flow circuit

Schroeder test mates on each pump section

High speed forward tram circuit

Two Parker P350/315 series, 31-9 gpm (117-34 lpm) gear pumps, sized for 50 Hz. motor rotation

Pressure gauge on each pump section, brakes and TRS accumulator

Main relief valve

Hydraulic power take off with quick disconnects at rear of chassis

Hedland stainless steel flow meters on each pump section
Venturi type oil fill pump

CONTINUED JHF Proposal No. 1792011

Electrical System:

M.S.H.A. approved 995 VAC, 50 HZ. electrical system

Two 50HP, 50 HZ, 995 Volt Reliance motors, with ATEX certification, with quick-change motor mounts located at rear of chassis

Service Machine controller with Cutler Hammer vacuum line starters and MORA overloads

Normally closed push button ("Funka" button) to test open the pilot circuit located on the electrical enclosure. Diode grounding system per SNSG specs, assuming this does not conflict with MSHA regulations. Phase protection relay installed in enclosure.

Trailing cable entrance gland located at rear right hand corner of chassis

Horizontal axis cable reel with electrical plug connection located at rear of chassis

Cable reel equipped with shut off switch, and trailing cable plugged into the reel

550' (167 M) of #2 AWG-3 GGC shielded, round trailing cable, provided and installed by JHF

Note: trailing cable electrical plug is not provided (has not been specified)

Intrinsically safe plug-in type panic bar at all control stations

Intrinsically safe plug in type start switches located at drill and tram controls

Low oil level warning/shutdown circuit

High temperature warning/shutdown circuit

Ocenco incandescent illumination system

Trolex methane monitor provided by customer and installed by JHF

Dust System:

M.S.H.A. certified, vacuum type dry dust collection system for hollow shaft drill steels

Fletcher manual dump dust collectors with auto dump dust pre-cleaners

Roots high performance belt driven blowers with a capacity of 62 cfm (1.76 cm/m)

Vacuum at drillhead: 15" (381 mm) of Hg

Vacuum regulated by an adjustable relief valve mounted at blower in-take

Separate system for each drill boom

Dust bag adapter system (includes 100 bags)

Drilling System:

Arm feed drilling system with off-set booms

Feed length: 72" (1829 mm)

Boom extend: 22" (559 mm)

(Booms to be a 32" (813 mm) offset to achieve the 1M center bolt spacing)

Thrust: 0-10,000 lbs. (4,536 Kg.)

Feed rate: 0-30 fpm (0-9.144 Mpm)

Drill head separation: 37" (940 mm) minimum, 19' (5.79M) maximum, 18' (5.49M) straight line

Fletcher deep chuck drillheads with mechanical face seals and HOTL deep chuck

Drill head motor with 1 ½" (38mm) diameter gear for slower drilling rotation and increased torque.

Two spare drill motors with 1 ¾" (44.5 mm) diameter gear are to be provided for higher torque, if necessary.

Torque: 0-300 ft.-lbs. (407 Newton-M)

Rotation: 0-560 rpm

CONTINUED JHF Proposal No. 1792011

Drilling System:

Drilling controls located on outside of drill booms

Joy stick drill feed and rotation control with feed boost with variable rotation and feed control

Adjustable bolt torquing circuit with thrust relief

Rotation flow control

Feed package valve

Driller canopies with side extensions mounted on two stage square support posts with adjustable shims and pin on canopies