

VH SPLITTER

VERTICAL/HORIZONTAL CONCRETE SPLITTING MACHINE

CATALOG NO. VHS-9302

Price \$50.00 U.S.A.

BESSER Company, P.O. Box 336, 801 Johnson St., Alpena, Michigan, 49707 U.S.A.

BESSER

VH SPLITTER

VERTICAL/HORIZONTAL CONCRETE SPLITTING MACHINE

SPECIFICATIONS

VERTICAL/HORIZONTAL SPLITTING CAPACITY UP TO - 24" Wide x 12" High x 18" Long

FRAME:

Steel/welded fabrication.

Materials meet or exceed ASTM A36.

MOTOR:

25 H.P. - 460 Volt - 3 Phase - 29 Amps.

PUMP:

1811 R.P.M. (18.6 kw.) at 1500 P.S.I. (1.06 kgs./mm²) maximum - 7.7 in.3/R, (195.6 mm³/R). Working pressure 450 P.S.I. (.32 kgs./mm²).

HYDRAULIC CYLINDERS:

- 8" (203.2 mm) diameter at 6" (152.4 mm) stroke.
- Working pressure 22,500 lbs. (10,206 kg.) at; 450 PSI (.32 kgs./mm²) Pump Pressure.
- Maximum Load 75,000 lbs. (34,020 kg.) at 1500 P.S.I., (1.06 kgs./mm²) Pump Pressure.

AIR CYLINDER:

- 4" (101.6 mm) diameter at 24" (609.6 mm) stroke.
- Working pressure = 95 P.S.I. (.0668 kgs./mm²).

CONTROL: Allen Bradley SLC-150. TCAT LED Timer Display.

MACHINE CYCLE SPEED:

5.5 Seconds vertical and horizontal.

NOTE: Changing the machine from vertical to horizontal or vice versa. can be accomplished in a minimum amount of time. All electrical. hydraulic and air connections are quick disconnects.

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LOGIC: 453242, ELEMENTARY: 453243, REV - 5/26/93 (Program Listing)	18-56
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INSTALLATION

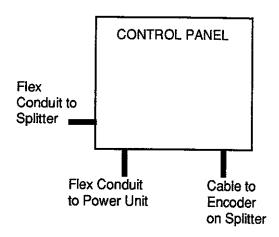
Align bar conveyor with depalleter and move Splitter to depalleter plate, but allow room for flipper plate to operate. Put guides on Depalleter to assure block go between guides on Splitter.

Level roller conveyor with Depalleter plate. Mount LS-6 so it is tripped only when Depalleter is moving back and is behind flipper plate. Mount output gravity conveyor to exit end and slope so units will roll away from Splitter.

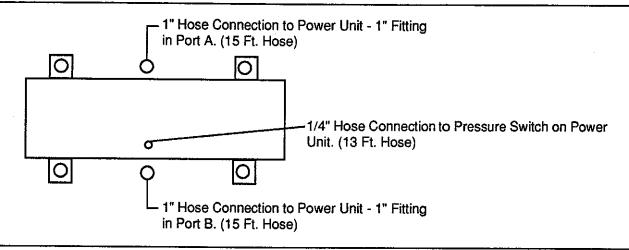
Mount P.E.R.-8 on run-out conveyor; to shut down Splitter when conveyor is full. Connect electrical and hydraulic power to sketch as shown in the following pages. (CHECK FOR PROPER VOLTAGE SET-UP)

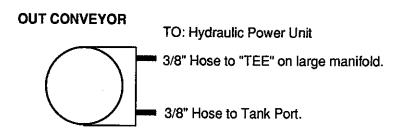
Depalleter interlock only provides Depalleter start signal. Depalleter circuit must maintain to complete cycle.

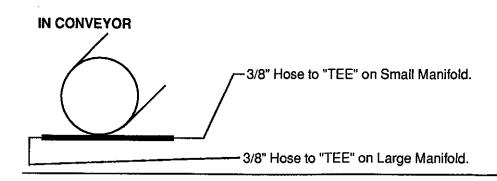
ELECTRICAL & HYDRAULIC CONNECTIONS



Connect wires matching terminal strip in Power unit and wires from Splitter to terminals in Control panel. Plug in encoder cable and lock in place. Not all wires in conduit are used.



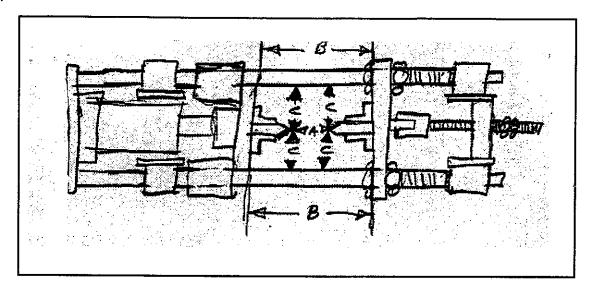




SET UP: HORIZONTAL SPLITS

SPLITTING ASSEMBLY:

MAIN KNIVES: Adjust blade mount to center blade edge between Guide Rods on both assemblies. Adjust blade plate parallel with nuts.



SIDE KNIVES: Align blade edge to Main Knives with Jack screws on assembly. Align center of cylinder to center of unit. See chart for Dimensions.

CHART
A = --B = --C = ---

TABLE: TOP STOP

Adjust table height with crank to give discred Split location. Then adjust top stop to touch top of unit. Adjust level of table using 2 Jack Screws on output side of table. Adjust block guides to center units between blades.

CONVEYOR BAR, STOP ADJUSTMENTS

Adjust low speed forward to 10 feet per minute. Adjust DTAM N7: 1 to 3000. Run in AUTO until table starts to raise, then shut off and lockout. Measure from from of pusher bar to center of table. Measure to closest too inch, ie., 28-3/8" = 2838. Subtract 3000 from measured value and change N7:24 by difference.

Increase value of N7:24 if positive. Decrease value of N7:24 if negative.

Set N10: to "0" to use N7:1>2 for unit location on table. N7:3>6 must be zero for horizontal splits.

N10:11>242 For stored split memory.

Unit locations may need to be fine tuned by adjusting N7:1 and/or 2 and N10: last digit 1 and/or 2.

VERTICAL OPERATION

Remove junper to INII. Adjust main blade edge 1/8" below support table.

Mount vertical support spring and spacer on top threaded rod. Use existing nuts to adjust length of springs to 3-3/4" with blades out. Lock double nuts.

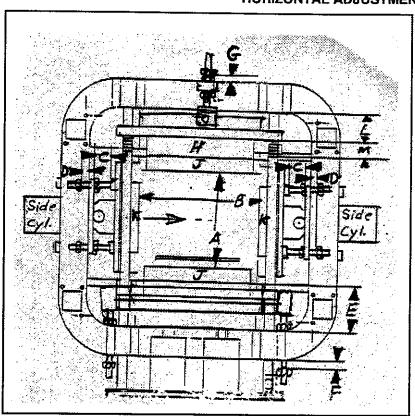
Install side knife springs and adjust to stop side knives from tipping down. Lock in place.

Adjust DTAM N7:1>6 for split location or adjust ACCEPT MEMORY N10:11>246.

1 to 6 splits per cycle can be made all dimensions are from front of pusher bar to center of blade. **DO NOT adjust split distance to less than 350 as this may interfere with bar home switch.**

N7:0 Reads front of pusher bar to center of talble in Horizontal mode to center of blade in Vertical mode.

HORIZONTAL ADJUSTMENTS



Center side cylinders on unit. Make sure blades don't touch when full in.

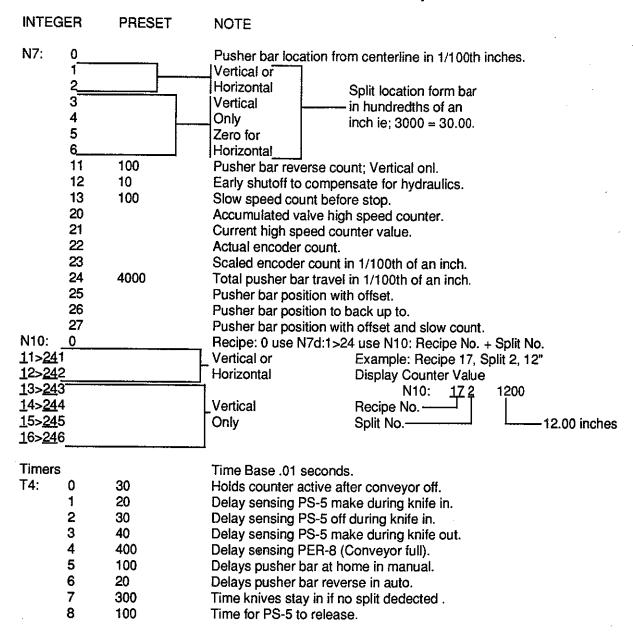
Center Units "B".

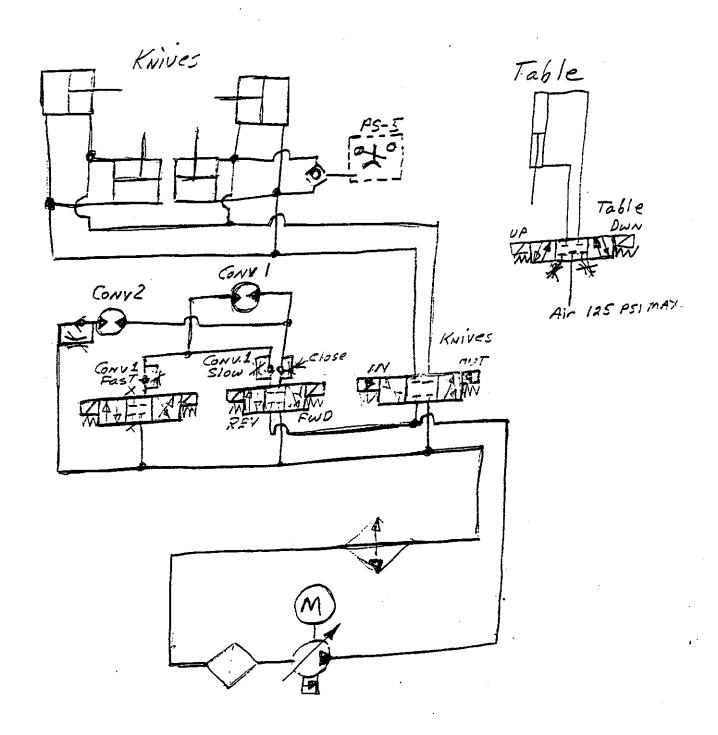
All dimensions taken with knives out, except "A" and "B" which are taken after all adjustments are make and knives are in as a check.

SIZE	8 x 24"	12 x 24"	16 x 24"	16 x 16		
Α	7"	11"	15"	15"	Dimensions with blades in.	
В	23"	23"	23"	15"	Dimensions with blades in.	
С	3-7/8"	3-7/8"	3-7/8"	6-3/8"	Side knife out stop.	
D	1-7/16"	1-7/16"	1-7/16"	1-7/16"	Side knife in stop.	
E	11-1/4"	9-3/8"	9-3/8"	9-3/8"	Inside frame to mount surface.	
F	1-1/8"	1-1/8"	1-1/8"	1-1/8"	Main knive stop in.	
G	1-1/8"	1-1/8"	7/8"	7/8"	Passive knive in stop.	
I	11"	6"	6"	6"	Passive knive spacer.	
J	2 -11-1/4 x 4-1/4"	2-11-1/4 x 4-1/4"	2 -11-1/4 x 4-1/4"	2- 7-1/4 x 4-1/4"	Blade main knives.	
K	1-7-1/4 x 4-1/4"	1-11-1/4 x 4-1/4"	2 -7-1/4 x 4-1/4"	2- 7-1/4 x 6"	Blade side knives.	
L	5-3/8"	9-1/8"	5-3/8"	5-3/8"	Inside frame to mount surface.	
М	4-3/4"	1"	4-3/4"	4-3/4"	End of thread to mount surface.	

DTAM SETTINGS

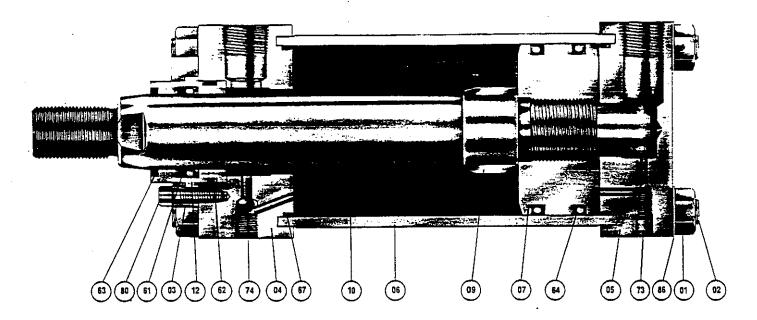
Logic No. 453242 - 26 May 93





SERIES "H"

ATLAS CYLINDER CORPORATION



PARTS LIST

- 01. Tie Rod Nut
- 02. Tie Rod
- 03. Retainer Plate
- 04. Rod Head
- 05. Cap Head
- 06. Cylinder Barrel (Honed Steel)
- 07, Piston
- 09. Rod End Cushion Sleeve
- 10. Piston Rod
- 12. Rod Bearing Cartridge

- 61. Rod Seal
- 62. Cartridge O.D. Seal ('O' Ring & Back-up)
- 63. Rod Wiper
- 64. Piston O.D. Seal
- 67. Barrel Seal ('O' Ring)
- 73. Adjustable Cushion Ascembly
- 74. Cushion Crieck Assembly
- 80. Retainer Plate Capscrews
- 86. Hardened Washer

Cylinder Repair Kit Contents

ITEMS 12-61-62-63-64-67

IMPORTANT

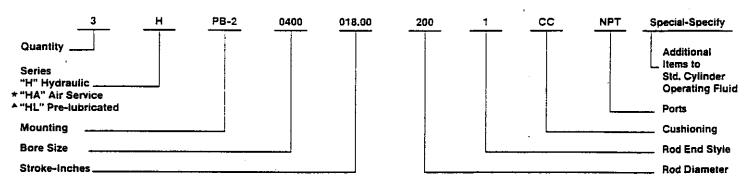
To speed the handling of orders for parts or repair kits, please specify:

- 1. Cylinder serial number
- 2. Cylinder bore diameter
- 3. Stroke
- 4. Piston rod diameter
- 5. Operating medium

ATLAS CYLINDER CORPORATION

SERIES"H"

ENTERING YOUR ORDER OR INQUIRY FROM THIS CATALOG HOW TO ORDER — CODE PROCEDURE



Be sure to always include Serial No. when ordering replacement parts.

ATLAS CYLINDER CORPORATION "H" SERIES CYLINDER CODING SYSTEM

MOUNTING	BORE DIAMETER	STROKE	ROD DIAMETER	CUSHIONING	PORTS
ME5 FS ME6 MP2 IH3 NM0 IH4 NM1 PB2 NM2 PB1 NM2 SA DRE TM1 REF1 TM2 REF2 TM3 BEF1 SL BEF2 CL	0150 : 1½" 0200 : 2" 0250 : 2½" 0325 : 3½" 0400 : 4" 0500 : 5" 0600 : 6" 0700 : 7" 0800 : 8" 1000 : 10" 1200 : 12"	XXX.XX (INCHES)	062 : 5%" 100 : 1" 138 : 1%" 175 : 1¾" 200 : 2" 250 : 2½" 300 : 3" 350 : 3½" 400 : 4" 450 : 4½" 500 : 5" 550 : 5½" 700 : 7" 800 : 8" 850 : 8½"	CR: Cushioned Rod End CT: Cushioned Cap End CC: Cushioned Both Ends NC: Non Cushioned ROD END STYLE 1: Standard Male 2: Oversize Male 3: Female 4: Special 5: Safety Coupler 6: Stub End SPECIAL: SPECIFY	NPT SAE

*"HA" THE ATLAS HYDRAULIC FOR AIR SERVICE

Specify "HA" when ordering, the cylinder will be ready for air service with a chrome plated barrel I.D.

Specify "HL" for air service PRE-LUBRICATED.