THE "HARDOX"



AMREP'S "HARDOX" Elliptical Shaped Front Loader Body, for East and West applications, is now available in all sizes and lengths, with full pushout or hoist ejection. Amrep's unique elliptical shaped construction, using 3/16" Hardox material, allows for a simpler and cleaner design, providing more strength and long wear life capability. Hardox has a hardness rating of 400 BHN and a PSI strength rating of 180,000 tensile and 145,000 yield. Standard features include: Automatic packer with 25 second cycle, $6\frac{1}{2}$ " bore packing cylinders with 120,000 lbs. force, 48" high packer blade with full follower, "V" style packer guides with Hardox wear strips mounted floor and sides, 8,000 lbs. loader arms with 16 second dump cycle.

For More Information Call: (909) 923-0430



1555 S. Cucamonga Ave., Ontario, CA 91761 Fax: (909) 923-2485





AMREP "HARDOX" FRONT END LOADER UNIT

STANDARD PUSH-OUT UNIT (MODEL AMHFLPO-21 OR 22)

THE FOLLOWING SPECIFICATIONS ARE FOR 38 – 40 CUBIC YARD FRONT LOADING REFUSE COMPACTION BODIES TO BE MOUNTED ON CUSTOMER'S THREE OR FOUR AXLE CHASSIS.

BODY AND PACKER DESIGN

THE ELLIPTICAL BODY DESIGN WITH HYDRAULIC BUBBLE TYPE REAR DOOR PROVIDES ADDITIONAL BODY STRENGTH AND EASY UNLOADING. THE PACKING MECHANISM FEATURES A LOW 48" PACKER BLADE WITH FULL FOLLOWER PLATE TO PREVENT REFUSE FROM SPILLING BEHIND BLADE. THE LOW PACKER BLADE IS DRIVEN BY TWO 6 ½" BORE CRISS CROSS MOUNTED CYLINDERS FOR MAXIMUM COMPACTION.

BODY AND PACKER BLADE SPECIFICATIONS

BODY

CONSTRUCTION:

ELLIPTICAL SHAPE – 3/16" HARDOX AR400, (145,000 PSI YIELD STRENGTH)

LOWER SIDES- 3/16" HARDOX AR400 HIGH TENSILE STEEL UPPER SIDES – 3/16" HARDOX AR400 HIGH TENSILE STEEL

ROOF – 3/16" HARDOX AR400 HIGH TENSILE STEEL FLOOR – 3/16" HARDOX AR400 HIGH TENSILE STEEL

HOPPER

CONSTRUCTION:

LOWER SIDES – 3/16" HARDOX AR400 HIGH TENSILE STEEL UPPER SIDES – 3/16" HARDOX AR400 HIGH TENSILE STEEL

HYDRAULIC

REAR DOOR:

HYDRAULIC ACTUATED SINGLE REAR STEEL CONVEX DOOR

DOOR SHEETS - AR400

HYDRAULIC

HOPPER COVER:

HYDRAULIC ACTUATED SLIDING COVER WITH WARNING LIGHT

OPERATING INDEPENDENT OF LOADER ARMS AND PACKER.

PACKER BLADE:

PUSH TYPE "A" FRAME BOX WITH CONCAVE FACE CONSTRUCTION

WITH SKIDS TO SLIDE IN FULL LENGTH GUIDES ON BODY FLOOR.

(ASTRALLOY STEEL ON SKIDS)

PACKER:

PACKER FACE PLATE - 1/4" T-1 AR STEEL

PACKER SIDES - 3/8" MILD STEEL

PACKER LENGTH – 30" PACKER WIDTH – 80" PACKER HEIGHT – 48"

PACKER GUIDES - 6" X 15.3# CHANNEL FULL LENGTH OF BODY

WEAR GUIDES - ASTRALLOY WEAR STRIPS

PACKER

FOLLOWER:

ATTACHED TO TOP OF PACKER BLADE TO PREVENT REFUSE FROM

COLLECTING IN FRONT AREA OF BODY.

FOLLOWER FRAME - 2" X 2" SQUARE TUBING

FOLLOWER COVER - 10 GAUGE HIGH TENSILE STEEL

CAB CANOPY:

COMPLETELY COVERS CAB ROOF.

SIDE AND TOP - 14 GAUGE MILD STEEL

LADDER:

RIGHT SIDE OF BODY TO PROVIDE ACCESS TO BODY ROOF.

FRONT LOAD MECHANISM DESIGN

THE LOADER ARMS ARE DESIGNED TO TRAVEL OVER THE CAB WITH A COMPLETE CYCLE TIME OF 14 – 18 SECONDS. THE LOAD MECHANISM IS CAPABLE OF DUMPING 1 – 8 CUBIC YARD CONTAINERS. THE ARM CYLINDERS ARE PULL TYPE MOUNTED ON THE ARMS. THE LOADER ASSEMBLY INCLUDES STANDARD SIDE FORKS WITH DOCK CAPABILITY.

FRONT LOAD MECHANISM SPECIFICATIONS

LOADER ARMS:

8.000# CAPACITY, RECTANGULAR TUBING WITH FLAT BAR STRAPS AND

REINFORCEMENT GUSSETS AT CORNERS.

TUBING - 8" X 2" X 1/4" WALL 50,000 PSI TENSILE STRENGTH

STRAPS – 1/2" X 2" FLAT BAR

GUSSETS - 3/8" PLATE

ARM CROSS

SHAFT:

COLD DRAWN SEAMLESS TUBING, BOLTED ON

TUBING - 4 1/2" O.D. X 1/2" WALL 80,000 PSI

MOUNTING - "U" BOLT HALFCAP WALL MOUNTED ON FRONT OF BODY

ARM CROSS

SHAFT BEARINGS:

(2) FULL AND (1) HALF BRONZE BUSHINGS GROOVED FOR LUBRICATION.

FULL BUSHING – 6" O.D. X 4 ½" I.D. 6" LONG HALF BUSHING – 6" O.D. X 4 ½" I.D. 3" LONG

DECELERATION

VALVE:

TO ALLOW FOR MAXIMUM OPERATING SPEEDS WITHOUT DRIVER

CORRECTION.

FORKS:

STANDARD SIDE POCKET FORKS

SIDE FORKS - 6" HIGH X 1 1/4" WIDE X 51" LONG

FORK CROSS

SHAFT:

COLD DRAWN SEAMLESS TUBING.

TUBING - 3 1/2" O.D. X 1/2" WALL 80,000 PSI

FORK CROSS

SHAFT BEARINGS: (2) BRONZE BUSHINGS, GROOVED FOR LUBRICATION.

BUSHING SIZE - 4 1/2" O.D. X 3 1/2" I.D. X 2 1/2" LONG

CONTAINER

STOPS:

RUBBER PADS MOUNTED INSIDE FORKS AT CROSS SHAFT

HYDRAULIC SYSTEM AND COMPONENTS

RESERVOIR:

60 GALLON CAPACITY WITH BREATHER CAP, SHUT OFF VALVE AND TANK DRAIN PLUG. A 20 MICRON IN TANK RETURN LINE FILTER CARTRIDGE WITH A 20 PSI BYPASS VALVE. VERTICAL BAFFLES, 150 MICRON REUSABLE SUCTION FILTER.

HOSES AND

FITTINGS:

HEAVY DUTY DOUBLE WIRE BRAIDED AEROQUIP SAE HOSE WITH JIC

FITTINGS AND SEAMLESS STEEL TUBING.

CONTROL VALVE:

COMMERCIAL A-35 WITH BUILT IN RELIEF VALVE.

POWER SOURCE:

FRONT PUMP OR P.T.O. (COMMERICAL OR MUNCIE)

PACKER/EJECTOR

CYLINDERS:

(2) – THREE STAGE TELESCOPIC, DOUBLE ACTING, ALL STAGES

CHROME.

FIRST STAGE (PACKING) - 6 1/2" BORE SECOND STAGE (EJECTION) – 5" BORE THIRD STAGE (EJECTION) - 3 1/2" BORE

STROKE - 162 3/4"

ARM

CYLINDERS:

(2) - SINGLE STAGE, DOUBLE ACTING

BORE - 4"

STROKE - 48 3/8" ROD - 2" CHROME

FORK

CYLINDERS:

(2) SINGLE STAGE, DOUBLE ACTING

BORE - 3" STROKE - 21"

ROD - 1 1/4" CHROME

REAR DOOR

CYLINDERS:

(2) SINGLE STAGE, DOUBLE ACTING

BORE - 2 1/2" STROKE - 35"

ROD - 1 1/4" CHROME

HOPPER COVER

CYLINDER:

(1) SINGLE STAGE, DOUBLE ACTING

BORE – 3" STROKE – 93"

ROD - 1 1/4" CHROME

HYDRAULIC OIL:

ANTI-WEAR, CORROSION, OXIDATION AND FOAM INHIBITORS

ISO VISCOSITY GRADE - 46

API GRAVITY - 31

VISCOSITY – 220 @ 100 DEG. F. FLASH POINT – 430 DEG. F.

HYDRAULIC

CONTROLS:

LEVER OPERATED CONTROLS MOUNTED IN CAB TO THE RIGHT AND

FORWARD OF OPERATOR AND OUTSIDE ON THE FRONT LEFT SIDE OF

BODY.

ELECTRIC/AIR AUTO-PACK CONTROLS FOR PACKER BLADE

MISCELLANEOUS

LIGHTS:

STANDARD I.C.C. LIGHTS AND REFLECTIORS CONFORMING TO

CALIFORNIA STATE VEHICLE CODE. "TRUCK-LITE" TAIL, STOP, BACK UP

AND DIRECTIONAL LIGHTS ARE MOUNTED IN THE REAR DOOR.

PAINT:

ONE COAT PRIMER AND ONE COAT POLYURETHANE PAINT

CLEAN OUT

DOORS:

TWO DOORS AT FRONT OF BODY (10 X 31").

MANUALS:

TWO OPERATION AND MAINTENANCE MANUALS PER UNIT.

REAR DOOR

LIQUID CATCH:

MADE WITH LIGHT COMPOSITE MATERIAL OR STEEL, INSTALLED

UNDER REAR DOOR TO PREVENT LIQUID SPILL (IF SEAL IS NOT

FUNCTIONING PROPERLY.)

OPTIONS

AIR CONTROLS:

AIR CONTROL VALVES FOR INSIDE AND OUTSIDE CONTROLS IN PLACE

OF LEVER OPERATED CABLE CONTROLS (WILLIAMS WITH FEATHERING

ABILITY)

HYDRAULIC ADJ.

FORKS:

HYDRAULIC ACTUATED SIDE, BOTTOM OR COMBINATION FORKS

ADJUSTABLE FROM 35" CLOSED TO 75" OPEN.

DECELERATION

VALVE DOWN:

TO ALLOW FOR MAXIMUM OPERATING SPEEDS ON DOWN STROKE

WITHOUT OPERATOR CORRECTION.

HOIST

UNLOADING:

HOIST UNLOADING AVAILABLE AT NO CHARGE

BODY SIZE

VARIATIONS:

BODY CAN BE MADE 30 – 40 CUBIC YARDS (INCLUDING HOPPER)

SIGN FRAMES:

MADE TO CUSTOMER SPECIFICATIONS

MID BODY TURN

SIGNALS:

DIRECTIONAL LIGHTS MOUNTED AT MID-POINT OF BODY

ESTIMATED BODY WEIGHT

NOTE:

OPTIONS MAY AFFECT TOTAL BODY WEIGHT

ESTIMATED

BODY WEIGHT:

(15,800) * LIGHTER BODIES AVAILABLE WITH MATERIAL

MODIFICATIONS.

MINIMUM STEEL SPECIFICATONS

MILD STEEL:

TENSILE STRENGTH -56,000 PSI

TENSILE YIELD - 36,000 PSI

HIGH TENSILE

STEEL:

TENSILE STRENGTH – 80,000 PSI

TENSILE YIELD - 55,000 PSI

T-1 "AR" STEEL:

TENSILE STRENGTH - 150,000 PSI

TENSILE YIELD – 100,000 PSI

BRINELL -363

HARDOX 400:

TENSILE STRENGTH - 180,000 PSI

TENSILE YIELD – 145,000

BRINELL - 400