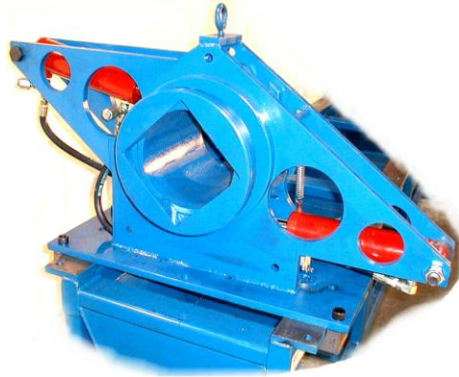


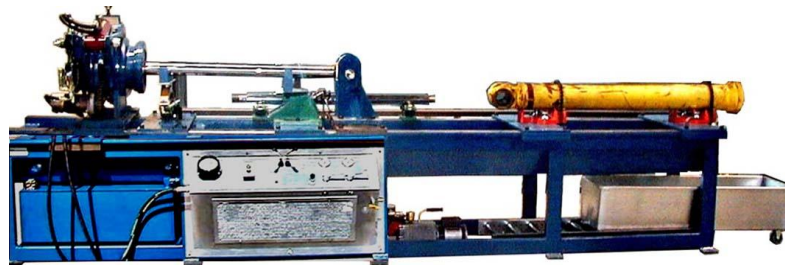


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PEWAUKEE/WISCONSIN • 53072
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MACHINERY SERVICE & DESIGN

PUBLISHED PRICE LIST



"NEW GENERATION OF AFFORDABLE HYDRAULIC REBUILDING EQUIPMENT"

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Overseas customers add 10% Export Fee



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Disassembly Table

- **MSD-D-15** (Disassembly Table with two slide plates)----- \$7,776
- **MSD-D-20** (Disassembly Table with two slide plates)----- \$8,856
- **MSD-D-25** (Disassembly Table with two slide plates)----- \$9,936
- **MSD-D-30** (Disassembly Table with two slide plates)----- \$10,200
- **MSD-D-X** (will build to any length and height requested) --per each 5 feet -- \$1,080
- **MSD-D-15E** (Economy disassembly table only)----- \$4,957
- **MSD-D-20E** (Economy disassembly table only)----- \$6,609
- **MSD-D-25E** (Economy disassembly table only)----- \$8,262
- **MSD-D-HD26** (Heavy duty disassembly table with collector and drain pans)- \$28,100

Disassembly Table Options:

- **MSD-D-PU** A hydraulic power unit integrated into the Disassembly Table. This unit is designed for cylinder testing and “Nut Buster”® operation. (15 HP motor, 40 gal. reservoir, 16 gpm pump with high-low unloading circuit developing 3000psi, air purge system, pressure/torque gauge, and two spool valve.)----- \$8,748
- **MSD-D-PU100** - 100 gal hydraulic reservoir as option for power unit listed above.----- \$1,317
- **MSD-D-PUP** A hydraulic power unit test console panel with related components integrated into the Disassembly Table. This option is the same as the power unit listed above less pump, motor, reservoir and starter that would be owner supplied and connected----- \$4,298
- **MSD-D-PBS** Disassembly table power unit pressure boost system. The air operated booster pump designed to take system pressure to 6000 psi. ----- \$5,450

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“NUT BUSTER”®

- **MSD-N-20** (20,000 ft./lbs of torque)----- \$ 5,778
- **MSD-N-30** (30,000 ft./lbs of torque)----- \$ 6,475
- **MSD-N-40** (40,000 ft./lbs of torque)----- \$ 7,171
- **MSD-N-50NR** (50,000 ft./lbs of torque w/hyd. assisted nut runner)----- \$10,536
- **MSD-N-70NR** (70 – 75,000 ft./lbs of torque w/hyd. assisted nut runner)-- \$18,750
- **MSD-N-100** (100,000 ft./lbs of torque)----- \$21,077

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Tooling

- **MSD-ABT-40K** (Heavy Duty Adj. Brace Tool for 40K & 50K "Nut Buster") \$1,858
- **MSD-ABT** (Adjustable Brace Tool for 20K & 30K "Nut Buster")----- \$1,388
- **MSD-ACSN** (Adjustable cylinder support with "Nylatron")----- \$1,179
- **MSD-ARC** (Used for cylinder rotation w/"Nut Buster")----- \$1,404
- **MSD-AT** (Adjustable serrated jaw tooling (3" to 9" capacity))----- \$2,813
- **MSD-BT** (Fixed Brace tooling)----- \$ 637
- **MSD-BT 70/100** (Fixed brace tool for use with 70KNR/100K "Nut Busters"- \$4,062
- **MSD-CR** (Concentric roller set to check rod concentricity)----- \$ 799
- **MSD-CS** (Custom sockets)----- \$ 319
- **MSD-DP-1** (1" Drive plate)----- \$ 210
- **MSD-DP-1.5** (1-1/2" Drive plate)----- \$ 354
- **MSD-HD** (Tie-bolt hold down tooling (2))----- \$ 460/set
- **MSD-HEV** (One ton Hyd. Elevated "V")----- \$ 327
- **MSD-HPS** (14 piece set for hex. nuts from 3" to 6")----- \$1,070
- **MSD-HPSM** (12 piece set for hex. nuts from 60mm to 150mm)----- \$1,070
- **MSD-LB** (Set "L" clamps)----- \$ 210/set
- **MSD-LDAS** (Large diameter adjustable spanner)----- \$1,064
- **MSD-LP** (Lock Pins for Slide Plates -set of two (2))----- \$ 32
- **MSD-LSS-PH** (Complete set w/LSS plate, pin spanner arms & hooks)----- \$ 814
- **MSD-FPS** (Heavy duty fixed pin spanner blank plate)
 Standard sizes are 2", 3", and 3-1/2" shaft openings----- \$ 302/ea
 1. Custom installation of pins for fixed pin spanner----- \$ 70/set
 2. Adjustable pin spanner arms for MSD-FPS & LSS----- \$ 200/set
 of 3
 (Three sets of arms with pins of 1/4", 3/8" & 1/2" dia.)
 3. Adjustable hook spanner arms for MSD-FPS & LSS----- \$ 238/set
 of 2



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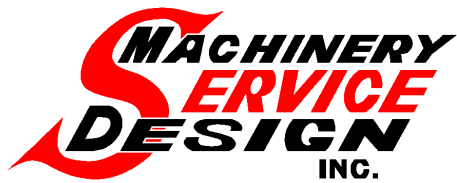
Tooling continued

- **MSD-CHD** (Chain hold down used with MSD-ACS)----- \$ 494
- **MSD-SHD** (Strap hold down used with MSD-ACS)----- \$ 268
- **MSD-PAC** (Pull-apart cylinder 3 x 24")----- \$ 351
- **MSD-PAC-HD** (Pull-apart cylinder 4" x 11.5 ft. used on MSD-D-HD26)----- \$14,425
 - **MSD-CYAS** (Cylinder assist slide used with MSD-PAC-HD)----- \$ 5,105
- **MSD-R** (Riser 5-1/2")----- \$ 156
- **MSD-RIDGID** (Ridgid brand 8" chain vise)----- \$ 678
- **MSD-HDCV** (4"to 24" vise with 10ft. triple row chain)----- \$ 4,062
- **MSD-SP** (Slide plate w/ set of "L" clamps)----- \$ 383
- **MSD-SPS** (Slide plate spacers-set of two (2))----- \$ 28
- **MSD-SS** (Steel support V used for disassembly & honing)----- \$ 211
- **MSD-TP** (Tool plate w/any configuration cut hole)----- \$ 173
- **MSD-V** (Non-marring "V" Block, set of two)----- \$ 295
- **MSD-VE** (Vise elevator)----- \$1,588
- **MSD-VPS** (Vacuum system for cylinder assembly)----- \$1,555
- **MSD-VRP** (Vee block roller plate used with pull-apart cylinder)----- \$ 2,785

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Hones

Standard Hone now includes the MSD-H-PC and MSD-H-AT.

- **MSD-H-20** (20ft. over-all length)----- \$42,147
 (Will hone tubes 2" to 22" diameter to 102" in length)
- **MSD-H-30** (30ft. over-all length)----- \$44,307
 (Will hone tubes 2" to 22" diameter to 162" in length)
- **MSD-H-40** (40ft. over-all length)----- \$46,467
 (Will hone tubes 2" to 22" diameter to 232" in length)
- **MSD-H-Special** (hone built to customer specifications) ----- (Price on request)

Hone Options:

- **MSD-H-V** (Nylon "V" Set at height equal to our standard 8" chain vise)--- \$590
- **MSD-H-M** (Quick release return oil magnetic separator)----- \$194
- **MSD-H-R** (Remote cable)----- \$431

Hone Stone Sets:

- **MSD-H-30/40S** (Set of four (4) Borazon® very course grit stones)----- \$945
- **MSD-H-60/80S** (Set of four (4) Borazon® course grit stones)----- \$945
- **MSD-H-280S** (Set of four (4) Borazon® finishing stones)----- \$945
- **MSD-H-320/400S** (Set of four (4) Borazon® polishing stones)----- \$945
- **MSD-H-PAS** (Holder for small bore (2.5" to 5.6") use with master holders plus roll of heavy duty medium grit 3M nylon mesh adhesive ----- \$225
- **MSD-H-PAL** (Holder for large bore (4.5" to 60") use with master holders plus with roll of heavy duty medium grit 3M nylon mesh adhesive ----- \$225

Hand Honing

- **MSD-H-PHH** (portable honing system)----- \$4,072
- **MSD-H-PHHD** (pneumatic hand hone drive with "Sunnen" ANR110A feed assembly) ----- \$4,034

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Additional Equipment

Polishing fixture

- **MSD-P-15** (15 ft. over-all length. Polishes shafts 1" to 14" diameter) ----- \$25,380
 - **MSD-P-20** (20 ft. over-all length. Polishes shafts 1" to 14" diameter) ----- \$29,592
 - **MSD-P-5HP** Upgrade polishing head to 3 x 108 belt from 3 x 72----- \$ 2,592
- High efficiency, self-contained **DUST COLLECTOR SYSTEM** available through subcontractor. Call for information.

Washers

- **MSD-ITW** (internal tube washer)----- \$ 8,948
- **MSD-ITW-BE** (48" brush extension)----- \$ 140
- **MSD-ITW-BE-96** (96" brush extension)----- \$ 184
- **MSD-ITW-DU** (Drive Unit only) ----- \$ 1,118
- **MSD-ITW-LW** (Long wall internal tube washer for cylinders to 50 ft.)-- \$13,257
- **MSD-ITW-SWH** (Small wash head for MSD-ITW-LW 2-7/8"-6" dia. bore) \$ 3,675
- **MSD-ITW-LWH** (Large wash head for MSD-ITW-LW 6"-18" dia. bore)-- \$ 4,250

Pump Test Stand

- **MSD-PTS** (Pump Test Stand) ----- (PRICES ON REQUEST)

Utility Table

- **MSD-UT12** (12 ft. long heavy duty utility table)----- \$ 3,800
- **MSD-UT10** (10 ft. long heavy duty utility table)----- \$ 3,420
- **MSD-UT8** (8 ft. long heavy duty utility table)----- \$ 2,736

Caustic Tank

- **MSD-CT** (Caustic tank 42" x 144" x 36")----- \$42,800
- **MSD-CT-B** (basket with sling that fits inside of tank)----- \$ 3,255
- **MSD-CT-P** (Containment Pan (72" X 156" X 12"))----- \$ 7,200
- **MSD-CT-AIS** (Air injection system. Used to agitate solution for increased debris removal prior to component removal)----- \$ 1,165

Power unit-Air

- **MSD-AOO** (air over oil power unit)----- \$ 3,067

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