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 Strengthening American Manufacturing

**Proposal For Used Accurshear Model 862510**



**Specifications for Accurshear Model 862510:**

|                           |                             |
|---------------------------|-----------------------------|
| Capacity .....            | 0.625" mild steel x 10'*    |
| Total blade length .....  | 124"                        |
| Blade size .....          | 1.125" x 5" x 124"          |
| Blade rake angle.....     | 5/8"/foot - fixed           |
| Number of hold downs..... | 16                          |
| Hold down tonnage.....    | 32                          |
| Cycles per minute .....   | 14 at full stroke           |
| .....                     | 35 at short stroke          |
| Motor HP .....            | 50                          |
| Approximate weight.....   | 38,000 lb.                  |
| Overall Dimensions .....  | 153"(L) x 105"(W) x 105"(H) |
| Year of Manufacture ..... | 1999                        |

\*Accurshear machines are rated for 80,000 PSI tensile strength mild steel.

# Accurshear Construction Features

## **Heavy boxed-in bed and table design minimizes deflection**

The main sections of the Accurshear comprise side frames, table and bed, ram assembly, hold down ram and torque tube assembly. Key amongst these is the heavy boxed-in bed and table design that minimizes horizontal deflections during the shearing process, producing greater accuracy.

## **Square cuts produced through precise ram geometry utilizing four edge shear knives**

The moving ram assembly and its stiffener are welded as a unit and is mounted at approximately 1° of vertical. This produces a square cut and allows four edge blades on both the ram and bed of the Accurshear. Cuts are consistently square along the length of the blade because the torque tube assembly transfers the hydraulic forces along the ram, causing the ram to move down equally at either end and at constant power throughout the stroke.

Only the highest quality shear knives are used to provide maximum longevity and to minimize resharpening. Depending on the shear capacity, either high carbon high chrome or high carbon shock resisting knives are used for shearing a wide range of metals such as aluminum, mild steel, stainless and titanium.

## **Lower fixed rake angle minimizes distortion**

The amount of bow, twist and camber produced on a sheared piece of metal is directly related to the rake angle of the shear. Higher rake angles will produce greater amounts of these distortions in the metal. Accurshear manufactures shears with very low rake angles to ensure optimum shearing quality with minimum distortions in all gauges.

## **Push button control for basic operation and back gauge**

All of the Accurshear's control buttons and back gauge selects are located on a front console shown in the diagram. The shear has a three mode select: jog, manual, and auto-cycle.

The back gauge control features a keypad display, LED readout and 99 pre-select programmable positions. Under normal use, the operator simply keys in the desired back gauge setting, presses the "GO-TO" key and the backstop bar moves to position. The operator may also choose the back gauge retract feature via the key select. This retracts the stop bar once the hold-downs clamp the material just prior to the shear cycle to avoid material wedging between the shear knives and stop bar.

## **Heavy-duty rigid back gauge design**

The back gauge itself is a heavy-duty design with 36" of travel. The gauge incorporates two precise ACME lead screws that run on roller bearings for maximum rigidity, longevity and low friction. The gauge also features an automatic swing up feature. When the backstop is run back to the full travel distance it will mechanically lift up, enabling the shearing of longer pieces.

# Accurshear Design Features

## **Bearings:**

Accurshear takes pride in building the highest quality machine possible and at the same time providing the most value to its customers. Accurpress uses both plain and self-aligning spherical bearings in the main pivot points of the rocker arm system. The plain sleeve type bearings are made by Garlock (USA) and are a Teflon composite material with woven steel backing. The self-aligning spherical bearings are manufactured by Ina Elges (Germany) and also utilize a Teflon composite material between the moving surfaces of the bearing. Both bearings are of the highest quality available. The Teflon in both bearings is impregnated with polytetrafluoroethylene, a material that adds self-lubricating properties to the bearings to make them maintenance free.

## **Compound Linkage Shear Design**

Accurshear's design is unique to their company. The system was designed to take advantage of the rocker arm design that Accurpress uses in their shears. The upper beam of the shear moves in a plane. That plane is designated by two factors: linkage bearings on top where the beam is tied to the rocker arms and torque tube and bearings on the bottom where the beam is tied to link arms. The link arms on the bottom are then tied to the blade clearance adjustment at the back of the machine. The beam is mounted at an angle of  $1^\circ$  off of vertical. The upper beam does not swing through the lower beam. It moves in a straight plane up and down allowing Accurshear to use 4-edge blades on both the top and bottom of the machine.

## **Compound Linkage vs Swing Beam designs**

In a swing beam shear, the upper beam moves in an arc around a pivot bearing. The pivot bearing is usually eccentric to adjust for blade clearance. The advantage of a swing beam shear is that the blade clearance is easy to adjust. The disadvantage most users find is that the upper blade only has two edges. The upper blade also must be spirally ground to compensate for the combination of radius and rake on the top blade.

In Accurshear's compound linkage design, the upper beam does not swing. It does not have an eccentric pivot bearing. The design uses 4-edge blades. The top of the beam does move in a very small arc ( $1^\circ$ ) due to the cam action created by the rocker arm. At the bottom of the beam the upper blade moves parallel to the lower blade. Again, this design is unique to Accurshear. It is a well proven design that Accurshear has used for over 30 years. *There are more than 4000 Accurshear machines in use across the United States. They all function using the proven compound linkage design.*

# Proposal for

## Proposal for Accurshear Model 862510 *1/29/24*

Investment for Accurshear model 862510, FOB Englewood, CO .....call for pricing

***Includes:***

***4' squaring arm***

***48" powered back gauge***

***Powered blade clearance adjustment***

***Machine will be inspected, blades sharpened, cylinders rebuilt, and any necessary repairs will be made prior to shipment.***

Terms: 25% Down, balance due prior to shipment

Delivery: Stock, subject to prior sale

F.O.B.: Englewood, CO

Warranty: 30 day right to repair or return at seller's discretion. See attached terms and conditions for details.

If you have any questions regarding this proposal, please do not hesitate to call. Thank you for giving Action Machinery the opportunity to quote. We look forward to being of service to you and your company

Sincerely,  
Action Machinery

Randy Breitenbach



Control head



CNC back gauge

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**INTEREST CHARGE:** Buyer shall pay interest charges at the rate of one and one half percent (1-1/2%) per month, on any unpaid portion of the purchase beginning on the day after expiration of the payment terms stated on this Sales Order Confirmation.

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**CANCELLATION:** Buyer's oral or written purchase order shall not be subject to cancellation by Buyer before or after acceptance by Action Machinery except with Action Machinery's written consent, and then only upon terms and conditions that will fully indemnify Action Machinery against any and all losses resulting losses.

**INDEMNIFICATION:** Buyer agrees to indemnify and hold harmless Action Machinery and its vendors of and from any and all claims or liabilities asserted against Action Machinery or its vendors in connection with the manufacture, sale, delivery, repossession, resale, repair or use of the Products arising in whole or in part out of or by reason of the failure of Buyer, its agents, servants, employees or customers to fulfill its obligations under this contract, timely pay the full purchase price or to follow instructions, warnings, or recommendations furnished by Action Machinery or its vendors in connection with such product by reason of the failure of Buyers, its agents, servants, employees, or customers to comply with all applicable federal state and local laws applicable to such equipment including the Occupational Safety and Health Act of 1970, or by reason of the negligence of Buyers, its agents, servants, employees or customers. Compliance with applicable electric code, provision of the proper power supply and related controls, proper operation and proper maintenance of the Products are the responsibility of the Buyer. Action Machinery will not be responsible for, and Buyer will indemnify and exonerate Action Machinery from expenses of defense and any and all claims and judgments for non-compliance with the applicable electric code, non-operation or faulty operation of the Products and personal injury, loss or damages, whether direct or consequential, in any degree resulting from, or contributed to by, inadequate or deficient or excessive or inappropriate electrical power supply for the operation of the Products, wherever located, inadequate or incorrect instruction of operating personnel in the use of the Products and improper or incompetent operation thereof including overloading, abuse thereof, improper or inadequate maintenance thereof, use of the Machine for purposes or on materials for which it is not intended according to its specifications or to generally accepted trade standards, or alteration or modification of any kind to such Machine unless previously and specifically approved in writing by Action Machinery

**SAFETY EQUIPMENT AND REGULATIONS:** Buyer agrees that upon receipt of the Products, it will be Buyer's duty to inspect all Products on a continuing basis, provide proper safety devices and equipment or means necessary to safeguard the operator from any harm from any particular use, operation or set up of Products and to adequately safeguard each Machine to meet all governmental and industry safety standards that may be imposed from time to time, including, but not limited to the 1970 Occupational Safety and Health Act, as amended.

**INSTALLATION:** Buyer is responsible for rigging Products and connecting required utilities (electric, air, gases, etc.). Action Machinery will provide labor to install Products, if included in Agreement. Installation must be performed during service labor warranty timeframe stated in Agreement unless otherwise agreed to in writing by Action Machinery. Additional installation charges may apply if Products are not in condition to install upon commencement of work due to improper storage or lack of preparation including but not limited to cleaning, removal of shipping materials, placement of Product, etc.

**LIMITATIONS OF REMEDIES:** NO CLAIM ARISING OUT OF OR RELATING TO THIS AGREEMENT SHALL BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCTS IN RESPECT OF WHICH SUCH DAMAGES ARE CLAIMED. FAILURE TO GIVE NOTICE OF CLAIM WITHIN NINETY (90) DAYS FROM THE DATE OF DELIVERY OR THE DATE FIXED FOR DELIVERY (IN THE EVENT OF NONDELIVERY) SHALL CONSTITUTE A WAIVER BY BUYER OF ALL CLAIMS IN RESPECT OF SUCH PRODUCTS. THE REMEDY HEREBY PROVIDED SHALL BE THE EXCLUSIVE AND SOLE REMEDY OF BUYER AND ANY RIGHT TO CONSEQUENTIAL AND INCIDENTAL DAMAGES IS EXCLUDED.

**AUTHORITY TO ACTION MACHINERY FROM BUYER:** Buyer hereby grants a security interest to Action Machinery in Buyer's purchases of Products from the date that Buyer enters into the Contract for buying such Products until Buyer shall have made payment in full for such Products, and hereby authorizes and empowers Action Machinery to record a Financing Statement "UCC-1" with the appropriate authority naming Buyer as the Debtor and Action Machinery as the

Secured Party. Buyer hereby authorizes Action Machinery to execute Buyer's name to any and all documents evidencing the security interest. This authority is a power coupled with an interest and is not revocable.

**ENTIRE AGREEMENT AND INTERPRETATION:** This agreement constitutes the entire agreement of sale and purchase of the Products. No modifications of this agreement shall be binding upon the Action Machinery unless in writing and signed by Action Machinery and no modification shall be effected by Action Machinery's acknowledgment or acceptance of Buyer's purchase order forms containing different provisions. Trade usage shall neither be applicable nor relevant to this agreement, nor be used in any manner whatsoever to explain, qualify or supplement any of the provisions hereof. Action Machinery's failure to object to such provisions shall not be deemed a waiver or modification of any of the terms and conditions set forth herein. Both parties have had an opportunity to draft provisions in this agreement, neither party has more responsibility than the other for any uncertainty in this agreement and no principle of contract interpretation favoring the non-drafting party shall be applied in interpreting this agreement. All terms and conditions shall be construed and enforced in accordance with the laws of the state of Colorado. The venue for all disputes relating to this agreement shall be in the State of Colorado, County of Arapahoe.

Customer signature \_\_\_\_\_ Date: \_\_\_\_\_