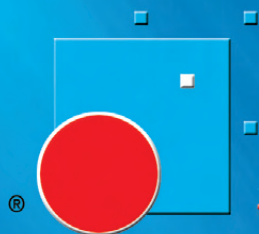
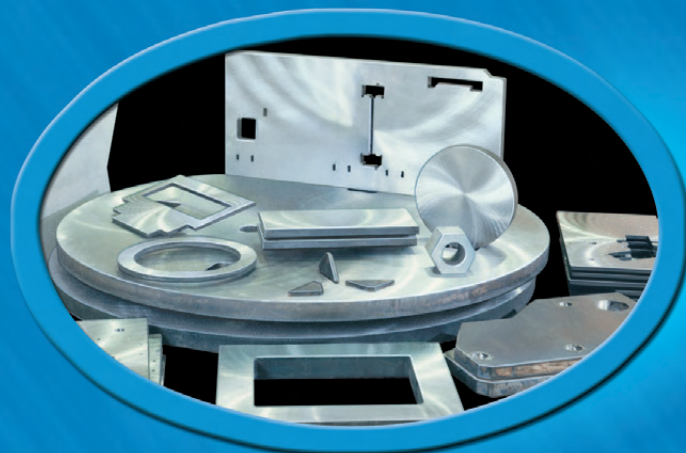
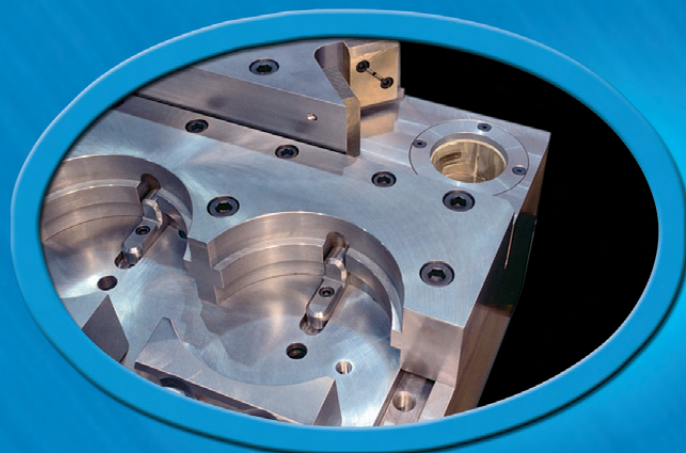


# THE FORGER'S RESOURCE

- **BOLSTERS**
- **COMPONENTS**
- **HAMMER PARTS**
- **PLATE MATERIAL  
& SERVICES**
- **CUSTOM DESIGN  
& ENGINEERING**
- **REPAIR**



**SUPERIOR**  
**DIE SET CORPORATION**

**FORGING PRODUCTS DIVISION**



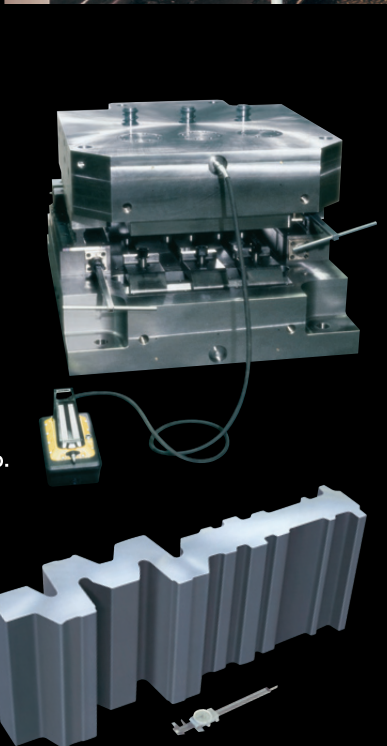
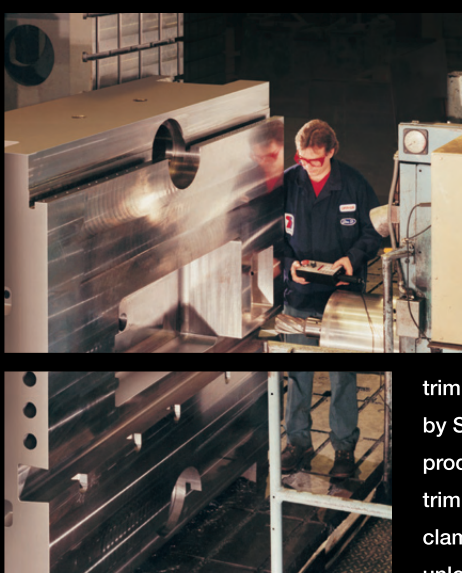


### HYDRAULIC CLAMPING BOLSTERS

These forging bolsters are engineered with compact hydraulic cylinders that lock and hold forging dies in place. This time-saving feature simplifies die setup.

### TRIM TOOLING

Superior's trim tooling sets include such components as burned out trim punch for a forged crankshaft, torch-cut from 12-inch Forge-Rite® plate and requiring minimum machining.



### BOLSTER REPAIR

At Superior bolsters are cleaned and inspected and then returned to customer's forging specifications and tolerances.

### WELDING SERVICES

Superior offers welding and fabrication services other than the repair welding of press and hammer components. Fabrication, welding, stress relieving, precision machining all per customer CAD or engineered drawings. TIG, MIG, submerged arc welding, and air arc scarfing are all available.

### T-SLOT BOLSTERS OR RAM PLATES

Superior can manufacture any press bolster, T-Slot bolster, or ram plate to meet your needs and specifications.

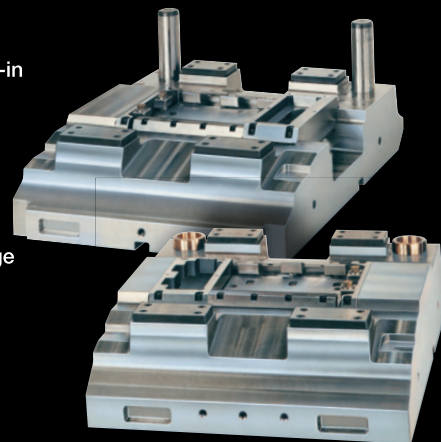
### FORGING BOLSTER MANUFACTURING

Superior offers advance production resources, 3D CAD modeling, flexible inventories, and conscientious craftsmanship to deliver forging products and services to meet your needs.

### BOLSTERS FOR AUTOMATED FORGING

A state-of-the-art bolsters with built-in

trim stations, machined by Superior for high-production forging, trimming, and hydraulic clamping for quick-change unloading.



### MACHINING & GRINDING CAPABILITIES

Blanchard grinding up to 162" diagonally. Surface grinding up to 65" x 80". Milling up to 40 feet long. Machining up to 30 tons.

### PLATE CAPABILITIES

Superior's diverse inventory offers you a selection of carbon steels and alloy steels.

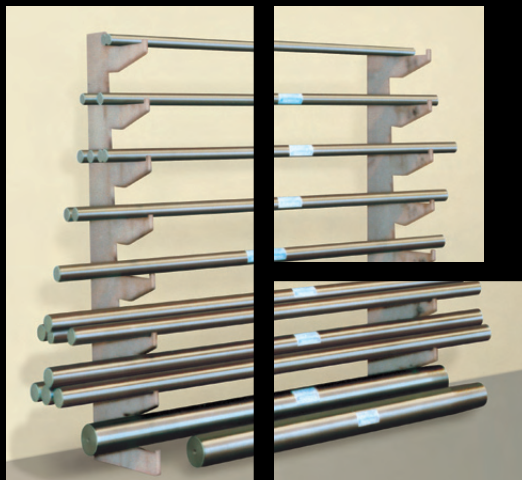
- 1020/1045 standard carbon steels.
  - 4130 Pre-hard holder block quality alloy steel.
  - Forge-Rite®, premium quality 4340 alloy steel manufactured specifically for forging equipment and tooling.
- Most are available in stock thicknesses from .250" to 12.125".

### FLAME CUTTING

Close tolerance burn-outs produced on computer programmed cutting machines. CAD files, templates, customer drawings/CAD files all contribute to save machining time and costs with expediting delivery.





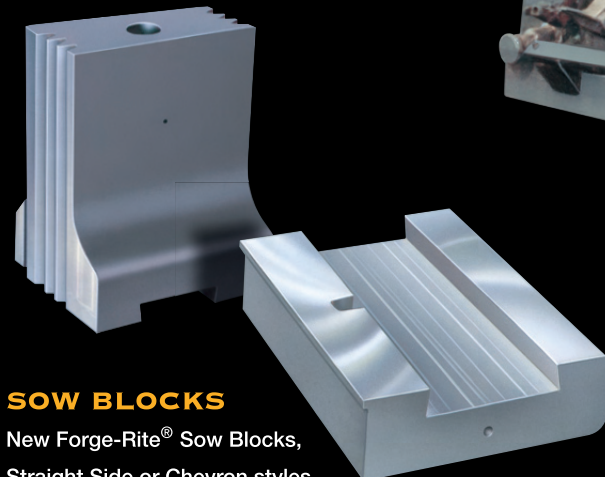


### **HAMMER PARTS & RECONDITIONING**

Superior is the one-source supplier for reconditioning services include repair and re-machining of hammer frames, bases, guides, rams, sow blocks, side wedges, tie plates, and other component parts. CECO™, Chambersburg™, Eire™, Banning™, Beche™ and Lasco™ guaranteed OEM quality components are readily available for your forging hammers.

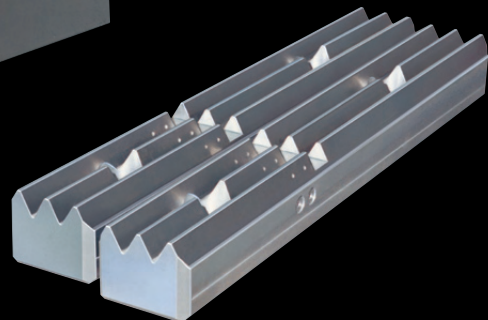
### **RAMS & NEW FORGED RAMS**

Repaired rams, welded, machined back to customer specifications.



### **SOW BLOCKS**

New Forge-Rite® Sow Blocks, Straight Side or Chevron styles. Reconditioned sow blocks, welded, re-machined to original specifications.



### **HAMMER GUIDES**

### **NEW FORGED OR FORGE-RITE® GUIDES**

Superior will manufacture hammer guides to meet all hammer specifications.

### **COMPONENTS**

Superior Forging Products and Services Help Keep Your Forging Operations at Maximum Production.

- Clamp Assemblies
- Clamp Bushings
- Dog Tips
- Head To Rod Assemblies
- Piston Heads
- Piston Rings-Fiber
- Piston Rods
- Ram Bushings
- Rocker Arm Bushings
- Rod Packing
- Shock Absorbers

### **PISTON RODS**

Superior manufactures and stocks standard replacement piston rods for your air-powered forging hammers.

Custom non-standard and steam hammer rods can be manufactured to your specifications.

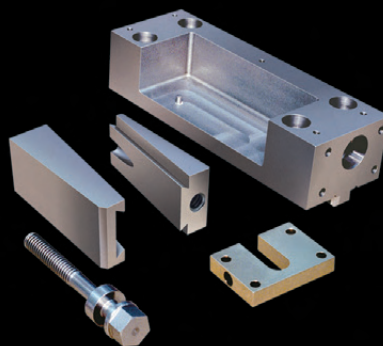
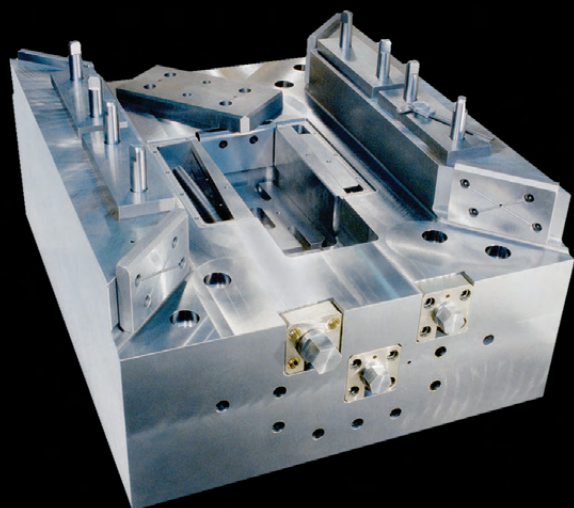


## FORGING BOLSTER DIE CLAMPING & ADJUSTING WEDGE SYSTEMS

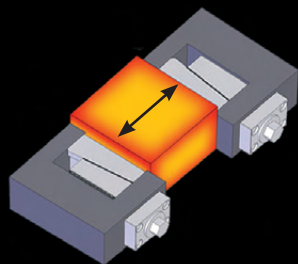
*DESIGNED WITH THE FORGER IN MIND™*

### THE ULTIMATE IN FORGING DIE TOOLING SETUP, ADJUSTMENT, AND PART PRODUCTION.

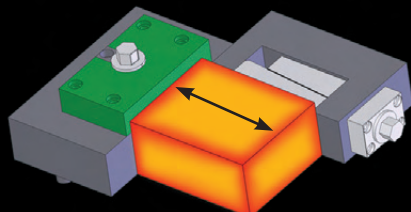
Superior's Forging Bolsters are now available with the unique Adjust-Rite™ System. Reduce your setup time with this precise forging die alignment method. High force clamping wedge mechanism secures and locks forging dies in-place.



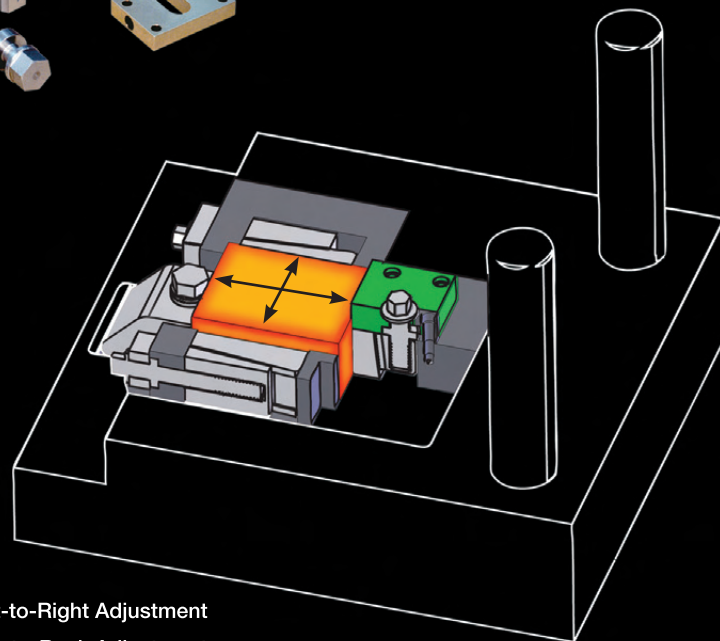
Unique Adjust-Rite™ assembly features dovetail design for self-retracting operation. Die adjustment and clamping are simultaneously performed within the bolster.



Left-to-Right Adjustment



Side Clamping with Front-to-Back Adjustment



The Ultimate — Left-to-Right Adjustment with Front-to-Back Adjustment



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FORGING  
INDUSTRY  
ASSOCIATION