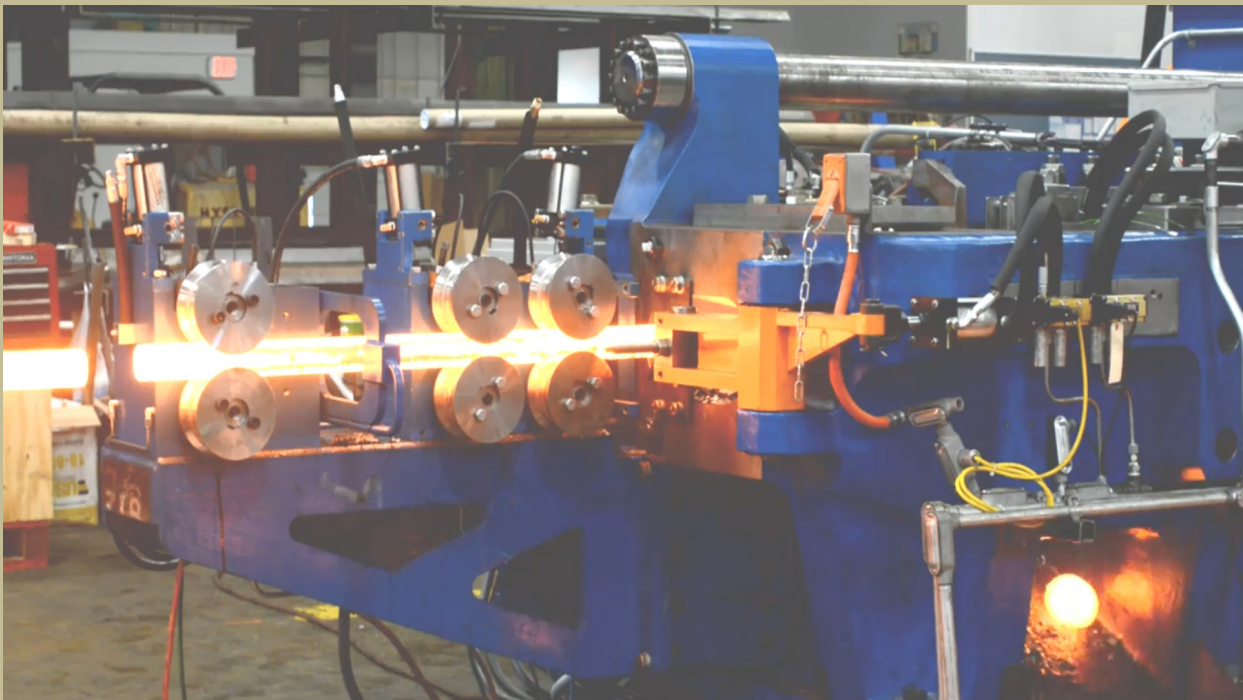
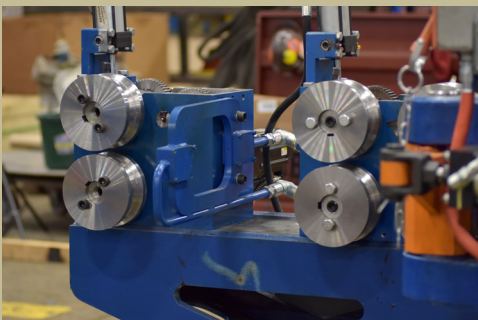


SOLID DIE BALL FORGING MACHINES FOR GRINDING / MINING BALL MANUFACTURING



New 3 inch Solid Die Forging Machine (shown without guards)

Servo-driven infeed rolls with bar
end measurement system

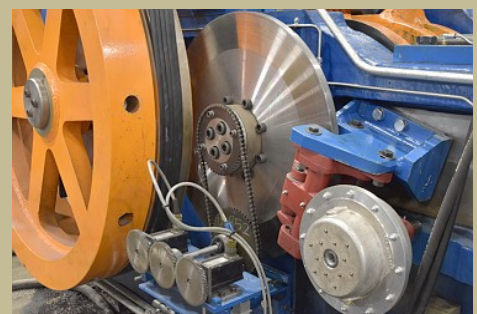


Variable speed drive



Double Helical Gear

Disc Brake





Ajax-CECO's Continuous Motion Solid Die Forging Machines are designed for the rapid production of single blow forgings, such as solid steel balls used for mining / grinding media by the mining industry. Our machines produce a forging at each revolution, effecting very high production and profitability.

The operation consists of continuously heating a stock bar of the correct diameter that is directly fed into the machine to the correct length. On each successive stroke of the machine the end of the bar is sheared and simultaneously transferred into the die cavity then, forged to shape and ejected as a completed forging. Ejector systems on both the stationary and header die insure part ejection during the forging process. Accurate control of all forging parameters allows for flash-less manufacturing of mining / grinding balls.

Our machine sizes are based on the largest stock diameter that may be sheared to accurately forge specific size balls in a given size machine (i.e., our 2" machine can shear up to 2" diameter **bar**, and so on.)

| SPECIFICATIONS | | 2" | | 3" | | 4" | |
|---------------------------------|--------|-------------|----------------|--------------|----------------|--------------|----------------|
| MACHINE SPEED | SPM | 85 - 80 | | 45 - 60 | | 35 - 43 | |
| HEADERSLIDE STROKE | IN/mm | 7 | 177.8 | 11.25 | 285.75 | 11.25 | 285.75 |
| SHEAR SLIDE STROKE | IN/mm | 5 | 127 | 8 | 203.2 | 8 | 203.2 |
| FLOOR SPACE L/R x F/B | IN/mm | 97 x 141 | 2464 x 3581 | 126 x 171 | 3200 x 4343 | 130 x 175 | 3302 x 4445 |
| MOTOR HORSEPOWER | HP/KW | 30 | 22.05 | 60 | 44.1 | 75 | 55.125 |
| APPROX. WEIGHT | LBS/KG | 46000 | 101411.6 | 74000 | 163140.4 | 95000 | 209437 |
| ECCENTRIC PIN DIAMETER | IN/mm | 9.5 | 241.3 | 11.5 | 292.1 | 13.5 | 342.9 |
| JOURNAL DIAMETER | IN/mm | 7 | 177.8 | 10 | 254 | 12 | 304.8 |
| MAX BALL DIAMETER | IN/mm | 3.5 | 63.5 | 4.5 | 114.3 | 5.5 | 139.7 |
| MAX SHEAR CAPACITY | LBS/KN | 28,000 | 124,544 | 85,500 | 380,304 | 85,500 | 380,304 |
| MAX SHEAR CAPACITY (BAR DIA) | IN/mm | 2 | 44.45 | 3 | 76.2 | 4 | 101.6 |
| HEADING CAPACITY | TON/MN | 400 | 3.5584 | 600 | 5.3376 | 800 | 7.1168 |

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