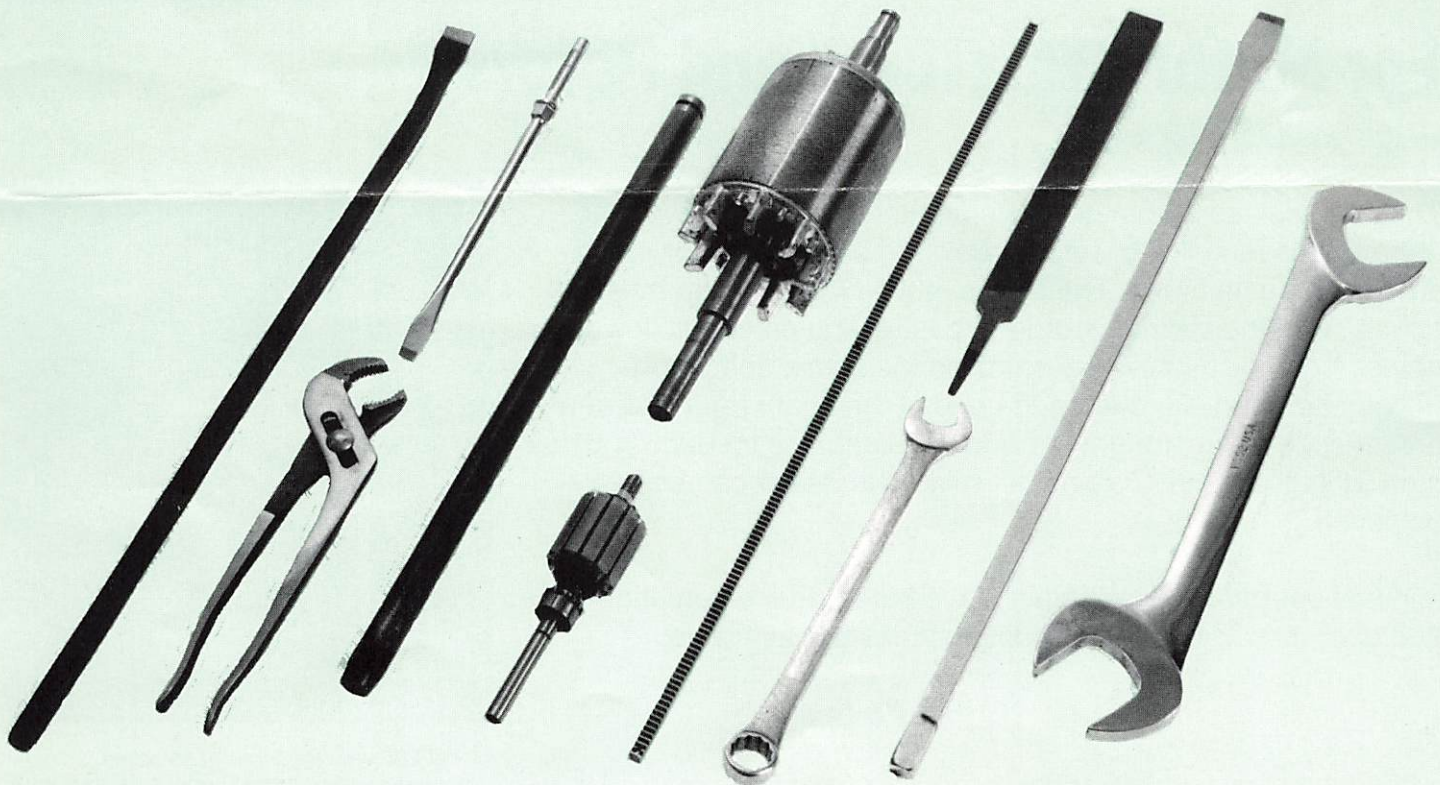


UTE Straight-O-Matic®

Straightening Machines

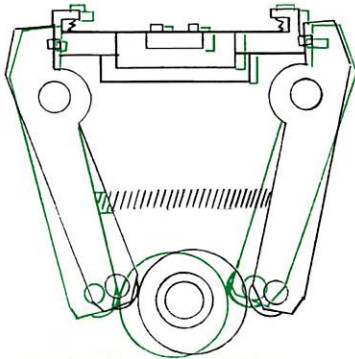
for Metal Parts

at High Rates - to Close Tolerances

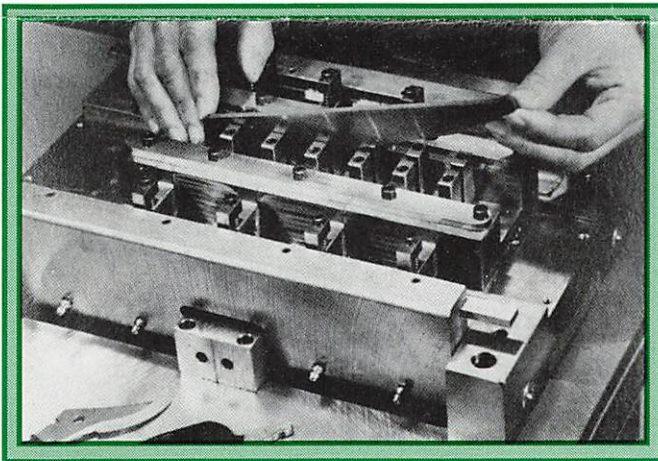


For Flat Parts, Forgings, Stampings -

Model 250 or Model 500

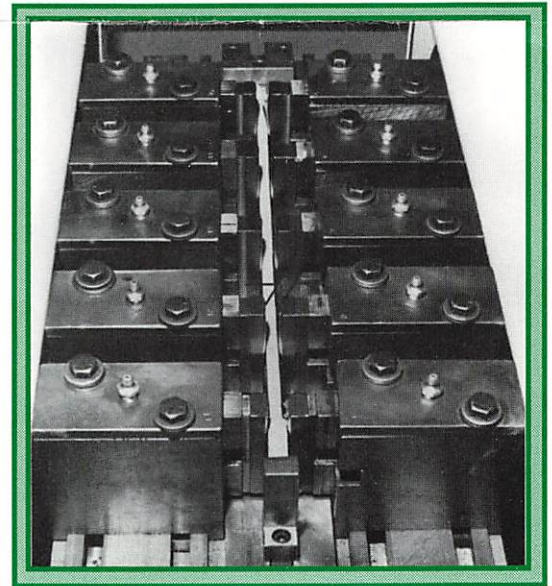


The heads of these machines are actuated by offset rotary cams which transmit a reciprocal stroke to jaw inserts. Alternately opposed jaws provide the proper bend in ratio with the stroke of the moving jaws. A part is inserted between the jaws, and a cycle is started by a push button or foot switch. The part is over-bent by a pre-set amount and returned to the desired straight center line in one to two seconds. On the Model 500, tools can be opened to allow insertion of bent parts and tooling space is adjustable for different parts. There's no need for extra tools.



Model 250 straightens parts up to 16" long, each cycle, with a section modulus of approximately 0.0051.

Model 500, shown with tooling open, straightens parts up to 24" long, each cycle, with a section modulus of approximately 0.0625.

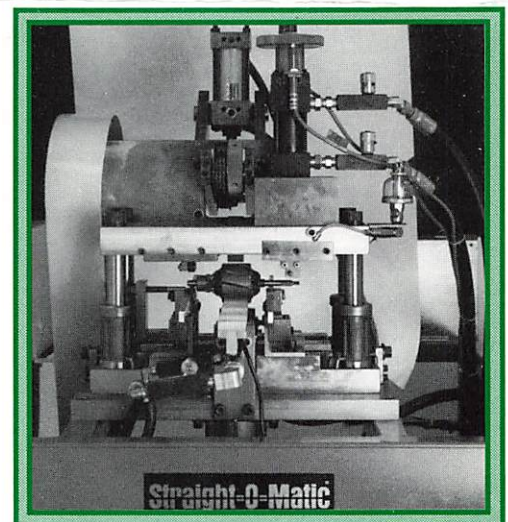


For Motor Armatures and Rotors -

Model 200 or Model 210

These machines automatically straighten fractional HP motor armature assemblies or rotors, replacing costly hand or press straightening methods. The part is moved into position by a shuttle, with the bearing journal areas resting on cam follower nests. A composition wheel spins on the stack, and a controlled overbend is made on the end of the shaft, returning at a preset speed to a straight position. Straightness to .0005" (.01 mm) TIR at rates of 10 parts per minute or better can be achieved.

Minimal operator skill or training is required. Full automation and operation in-line with winding options are available.



Model 200 will straighten assemblies with shafts up to .500" Diameter, Model 210 up to .750" Diameter.

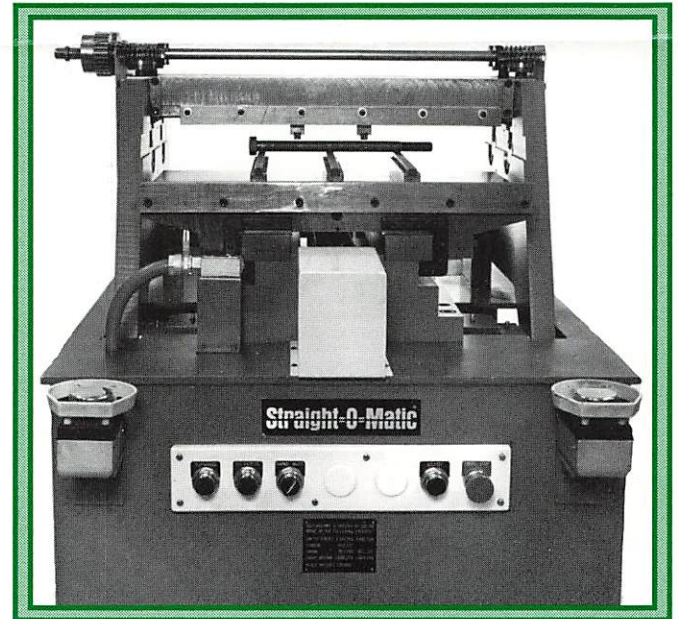
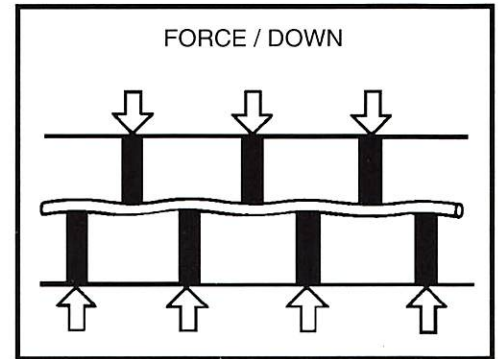
For Cylindrical Parts and Shafts -

Model 300 and Model 300-S

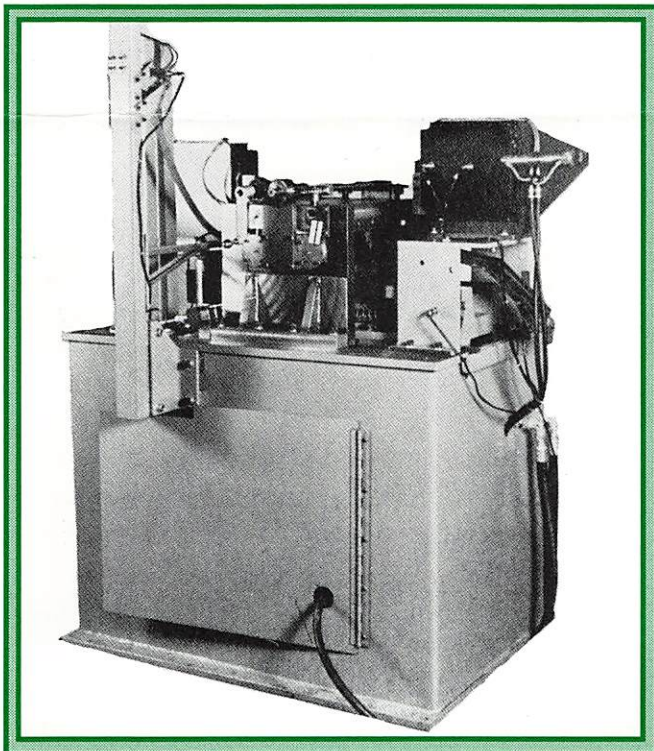
Parts to be straightened are placed between the upper and lower rails. When the machine is started, the head lowers an adjustable amount by hydraulic pressure, overbending the part. At the same time the lower slide moves forward rotating the part, the pressure decreases to zero by the end of the stroke, and the part is straight. Parts may be unloaded from the back of the slide or from the front after the slide has returned to the starting position. The straightening cycle takes four to five seconds. The number of upper and lower rails and their positions may be varied according to the characteristics of the part.

As an accessory to Model 300, UTE Straight-O-Matic offers a magazine loading and automatic unloading device which enables Model 300 to run continuously. The magazine automatically places parts in position for straightening; then at the end of the cycle, arms at the back of the machine unload each part and drop it into a container. A steady production rate of 900 parts per hour can be achieved and one operator can run two machines.

Fully Automatic for High Volume Production



Model 300



The Model 300-S machine offers full automation with a pick-and-place loader, and automatic unloading, to straighten parts at production rates up to 1,600 pieces per hour.



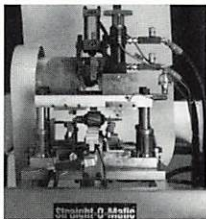
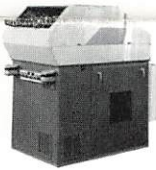
In place of linear rails, the bottom slide of the 300-S machine is equipped with special rails with roller nests into which the parts are automatically placed, so the slide can travel less distance at a higher speed. The roller nests also have the advantage of enabling parts with several different diameters to be straightened.

Parts can be delivered to the pick-and-place loader by tracks, magazine loaders, vibratory bowls, or other orienting systems.

Model 300-S

UTE Straight-O-Matic® Machines

Machine Specifications:

	Capacity	Production Rate	Physical Description	Electrical	Pneumatic Hydraulic
Model 250 - Rectangular Parts 	up to: 16" Long (410 mm)	400 to 800 Parts Per Hour	Length 35" (900 mm) Width 22" (560 mm) Height 38" (965 mm) Weight 1000 lbs. (455 kg)	3/4 HP Motor 230/460 Volts 3 PH, 60 HZ Controls 115 V Fused Disconnect	Pneumatic: 60 PSI (4 Bars) No Hydraulics
Model 500 - Rectangular Parts 	up to: 24" Long (610 mm)	400 to 800 Parts Per Hour	Length 52" (1320 mm) Width 40" (1015 mm) Height 38" (965 mm) Weight 4,000 lbs. (1,800 kg)	7.5 HP Motor 230/460 Volts 3 PH, 60 HZ Controls 115 V GE or AB P.C. Fused Disconnect	Pneumatic: 80 PSI (5.5 Bars) Self-Contained Hydraulics 1 HP 5 Gal. (19 L.)
Model 200 & 210 - Motor Armatures 	Model 200: Length 2" to 11" (50 to 280 mm) Shaft Dia. 1/8" to 1/2" (3 to 13 mm) Model 210: Length 4.5" to 20" (115 to 510 mm) Shaft Dia. 1/8" to 3/4" (3 to 19 mm)	Model 200: 600 to 1,000 Parts Per Hour Model 210: 400 to 600 Parts Per Hour	Both: Length 44" (1120 mm) Width 44" (1120 mm) Height 60" (1525 mm) Weight 1,000 lbs. (455 kg)	Model 200: 1 HP Motor Model 210: 1.5 HP Motor 230/460 Volts 3 PH, 60 HZ Controls 115 V GE or AB P.C. Fused Disconnect	Pneumatic: 80 PSI (5.5 Bars) Self Contained Hydraulics Model 200: 1 HP, 1 Gal. (4 L.) Model 210: 1.5 HP, 5 Gal. (19 L.)
Model 300 & 300-S - Round Parts 	Length to 24" (610 mm) Dia. 1/16" to 3/4" (1.5 to 19 mm)	Model 300: 500 to 900 Parts Per Hour Model 300-S to 1,600 Parts Per Hour	Total Area Incl. Elec. Enclosure & Hydraulic Unit: Model 300: 6' X 6' (2.8 X 2.8 M) Weight 3,500 lbs. (1590 kg) Model 300-S: 8' X 8' (3.8 X 3.8 M) Weight 4,000 lbs. (1,800 kg)	230/460 V 3 PH, 60 HZ Controls 115 V GE or AB P.C. Fused Disconnect	Pneumatic: 60 PSI (4 Bars) Hydraulic Unit: Model 300: 10 HP, 20 Gal. (75 L.) Model 300-S: 30 HP, 60 Gal. (230 L.)

Tell us about your application...send us prints of the parts you want to straighten, or better yet, send us sample parts...we'll show you what our machine can do and quote you promptly, including the tooling you need. No obligation, of course.



UTE Straight-O-Matic®

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