SERIES "1" BULLETIN 138

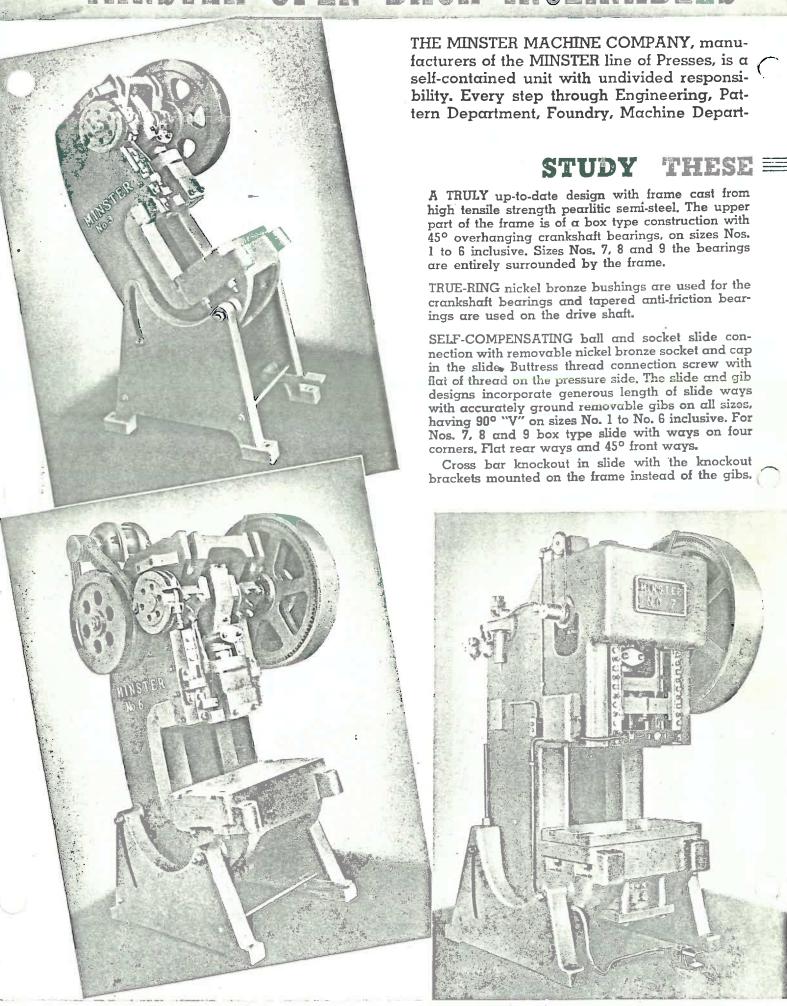
OPENLBACK SINGHINABLE

DRESSES

THE MINSTER MACHINE CO.

MANSTER, OBIO, U.S. A.

MINSTER UPEN BACK INCLINABLES



ARE QUALITY PRODUCTION TOOLS

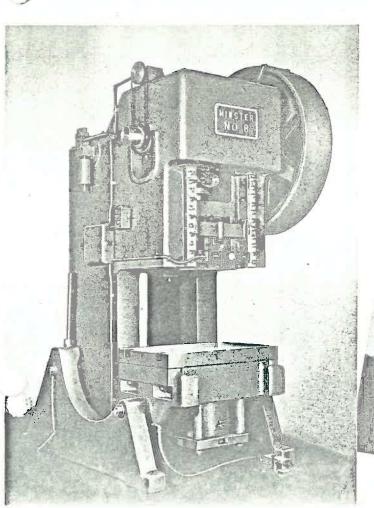
ment and Assembly is closely controlled to make MINSTER Presses a product with machine tool precision. A visit to our plant will reveal an interesting modern tool set up.

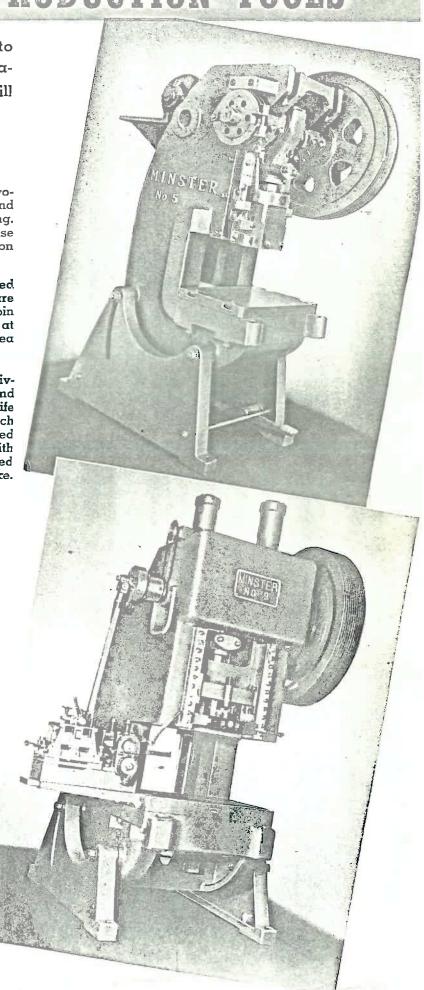
FEATURES =

LARGE, wide faced ventilating brake wheel with twopiece constant tension, finned brake band. Brake band is lined with four segments of oil-proof, molded lining. No brake band studs to shear off or break because brake band is held in a floating, self-adjusting position by a large lug cast integral with the frame.

CRANKSHAFT is made of a high carbon, annealed steel forging and heat treated. All crankshafts are semi-eccentric type having a diameter at the crankpin one and one-half times greater than the diameter at the bearing, reducing bearing pressure per unit area and increasing rigidity.

SLIDING KEY CLUTCH with individual full length driving and locking keys provide smooth, split second action. Clutch parts are reversible giving double life to clutch parts. The clutch is enclosed in the clutch wheel between tapered roller bearings. Geared presses Nos. 6, 7, 8 and 9 can also be furnished with electric push button controlled pneumatic operated combination multiple disc friction clutch and brake.





DILIMIE N SIONS

MINSTER OPEN BACK INCLINABLE PRESSES

NO. OF MACHINE	1	2	3	4	5	6	7	8	9
Tonnage. Diam. of crankshaft at br'g. and ping Width of opening in back Width between gibs Area top of bolster, F. to B., R. to L St'd. opening in bed, F. to B., R. to L Diam. of intersecting circle in bed Distance back from center of slide Available area of slide, F. to B., R. to L *Dist. bolster to slide stroke down adj. up Standard stroke of slide *Maximum stroke of slide Adjustment of slide Diam. of hole for punch shank Thickness of bolster plate Height from floor to center of crankshaft Floor space of legs. F. to B., R. to L	12 2-3 7 51/4 9x16 5x8 61/2 5 6x43/4 61/4 11/2 3 11/2 11/8 11/4 563/4 27x19	16 21/4-33/8 8 53/4 10x17 6x91/2 7 51/2 63/4x51/4 61/2 2 31/2 13/4 13/8 11/2 593/4 30x211/2	22 21/2-33/4 9 61/2 12x20 71/2x11 81/2 61/2 71/2x6 7 21/2 4 2 1.48 13/4 631/2 35x24	32 3-4 ¹ / ₂ 10 ¹ / ₂ 7 ¹ / ₂ 14x22 9x12 10 7 ¹ / ₂ 8 ¹ / ₂ x7 7 ¹ / ₂ 3 5 2 ¹ / ₄ 1 ¹ / ₈ 2 67 ¹ / ₄ 40x25 ³ / ₄	45 35/8-51/4 131/2 81/2 18x28 12x16 14 91/2 101/4x8 81/2 3 6 23/4 2 21/4 713/4 50x301/2	56 4-6 15 9½ 21×32 14×18 16 11 11½×9 10½ 4 7 3 2 2½ 78½ 56×35	71 4½-6¾ 18 14½ 22x35 14x20 16 12 14½x13½ 11½ 4 ‡ 7 3¼ 2 3 85½ 64x45½	88 5-7½ 21 17½ 26×40 16×24 18 14 15½×16½ 14 4 #8 3½ 2½ 4 92½ 76×52	106 5½-8¼ 24 20 28×45 18×28 20 15 16½×19 16 5 # 9 3½2 3 4½2 104 84×58¼
FLY WHEEL PRESS									
Approximate weight No. of strokes per minute Diam. and face of flywheel. Weight of flywheel, lbs. Floor Space, F. to B., R. to L. H. P. and speed of motor	1400 125 22x3 ¹ / ₂ 200 34x28 ³ / ₄ 1-900	1650 115 24x4 300 37½x30 1½=900	2750 115 28x4½ 450 43¼x35¼ 2–900	4100 100 32x5 ¹ / ₂ 650 49 ¹ / ₂ x39 2–900	6000 90 36x6 900 58x46 3—900	8250 90 42x6½ 1200 67x46 5–900	14500 80 46x61/ ₂ 1400 76x57 71/ ₂ -900	22500 75 51x7 1800 88½x63 7½=900	26000 75 55x7 ¹ / ₂ 2100 97x70 10–900
SINGLE GEARED PRESS		-							
Approximate weight. No. of strokes per minute. Ratio of gearing. Diam. and face of flywheel. Weight of flywheel, lbs. Speed of drive shaft. Floor Space, F. to B., R. to L. H. P. and speed of motor.				4300 55 6:1 19x7 450 330: 49½x39 2–1200	6600 50 61/2:1 23x7 600 325 58x46 3-1200	9200 45 6½:1 26x7 700 292 66x48 5—1200	16000 40 7.8:1 25x13 976 312 76x47 7½-1200	25500 37 7.8:1 28x15 1400 288 88½x54 7½-1200	30000, 37 7.8:1 30x15 1765 288 97x60 10-1200

^{*} When strokes greater than standard are used, we increase the length of the pitman connection to compensate for the increase in stroke so that the bottom of the slide will not enter into the gibs. When increasing the stroke, the die space is reduced by an amount equal to the difference between the standard stroke and the increased stroke. When the stroke is less than standard the die space is increased by an amount equal to one-half the difference between the standard stroke and the decreased stroke.

Longer stroke up to twice the diameter of the crankshaft main bearing may be had on special order.

Inclinable — Horning — Punching — Straight Side — Gap — and Knuckle Joint Embossing Presses

The Minster Machine Co.

Minster, Ohio, U.S. A.