NIAGARA HEAVY SLIP ROLL

FORMING MACHINES

POWER OPERATED

Niagara Heavy Slip Roll Forming Machines are used in the manufacture of boilers, oil storage tanks, underground gasoline tanks, truck and car tanks, drums, smoke stacks, ventilating pipe, casket tops, and other work involving the bending of sheets or plates to a cylindrical cross section.

Having two feed rolls one directly above the other and one forming roll in the rear, they produce uniform cylinders and are more productive than the pyramid type, which has two rolls below and one above centrally placed.

The selection and specification of the most suitable machine is governed by the particular operation or range of operations and the quantity of output.

ROLLS are of tough steel turned.

THREE ROLLS DRIVEN. All three rolls are gear driven. The rear roll is driven by accurately cut gearing that maintains proper mesh of gear teeth in all settings of the rear roll. This is a distinctive feature that contributes to satisfactory operation and is of special advantage when forming small diameters.

LONGITUDINAL GROOVES are provided in rear and lower rolls for forming small diameters in one pass.

ROLL ADJUSTMENTS. Vise handle screws adjust lower front roll vertically to provide proper clearance for the thickness of metal.

The rear or forming roll which governs the diameter of the work is adjusted by power through two screws which are synchronized to maintain parallel adjustment.

SLIP ROLL FEATURES. To permit the removal of formed pipes or cylinders that encircle the upper roll, the right hand end of this roll may be lifted. To free the end of the roll for lifting, a hinged bearing cap on the right hand housing swings open. When closed, it is locked by a swinging latch.

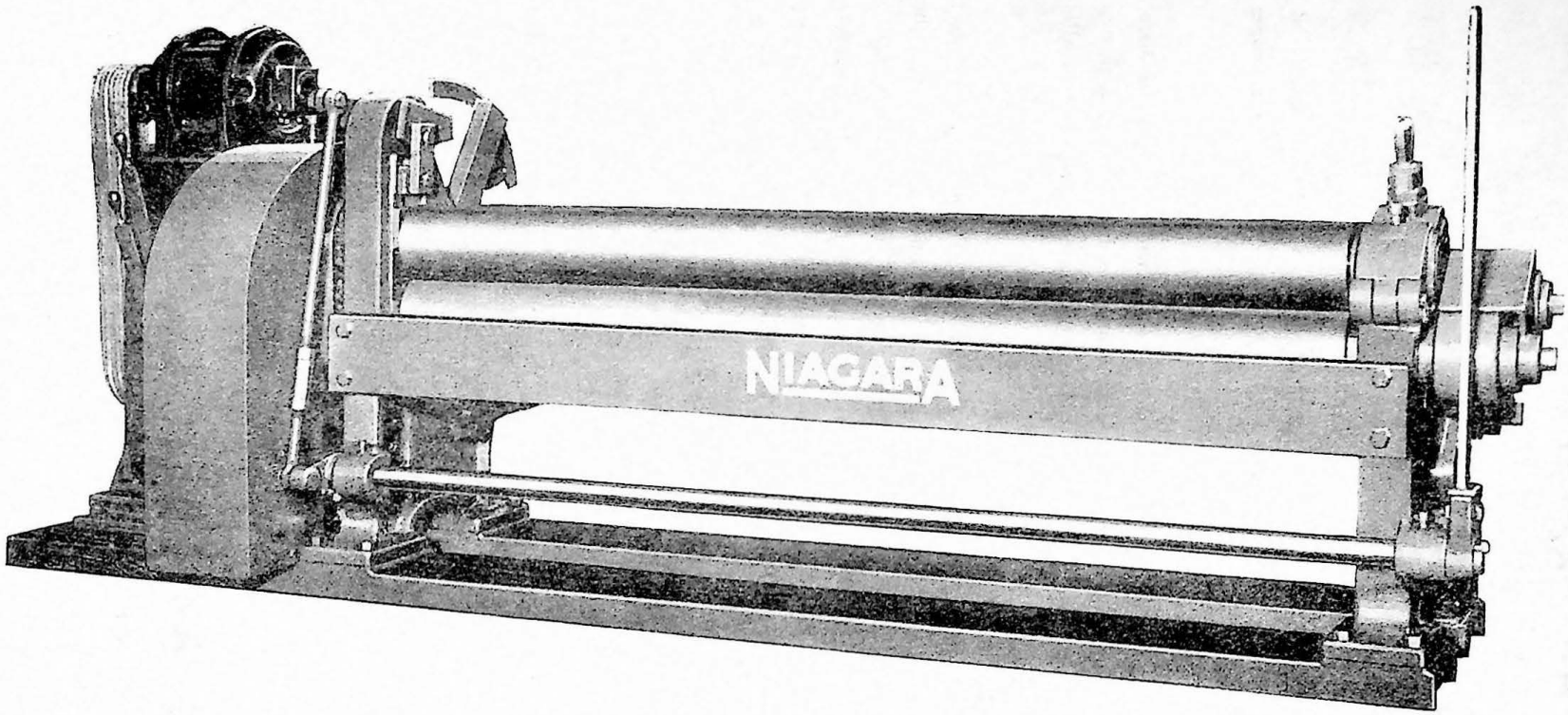
The roll lifting mechanism has an operating handle at the right hand or open end of the machine. A powerful leverage tilts the upper roll.

DRIVE. Heavy Slip Roll Forming Machines have a V-belt drive and operate through a compact gear box. Reversing mechanism is built into the gear box, this being controlled by a single lever. Motor drive is available at extra charge.

NIAGARA MACHINE & TOOL WORKS

General Offices and Works, 637-697 Northland Avenue, Buffalo 11, N. Y., U. S. A.

DISTRICT OFFICES: Buffalo • Cleveland • Detroit • New York • Philadelphia



No. 432—7½" x 96" HEAVY SLIP ROLL FORMING MACHINE

Number of Machine	Capacity Mild Steel inches	Diam. of Three Rolls inches	Working Length of Rolls inches	Roll Speed Feet Per Min.	Speed of Sheave R.P.M.	Horsepower Required for Operation H.P.	Speed of Motor for Individual Drive R.P.M.	Floor Space With Motor Drive F to BxR to L inches	Shipping Weight pounds
430-7½ x 60	3/8"-3/32"	7½	60	24	975	20	1800	54 x 134	8700
431-7½ x 72	1/32"-1/4"	7½	72	24	975	20	1800	54 x 146	9400
432-7½ x 96	5/16"-3/16"	7½	96	24	975	15	1800	54 x 170	10800
433-7½ x 120	1/4"-1/8"	7½	120	24	975	15	1800	54 x 194	12200