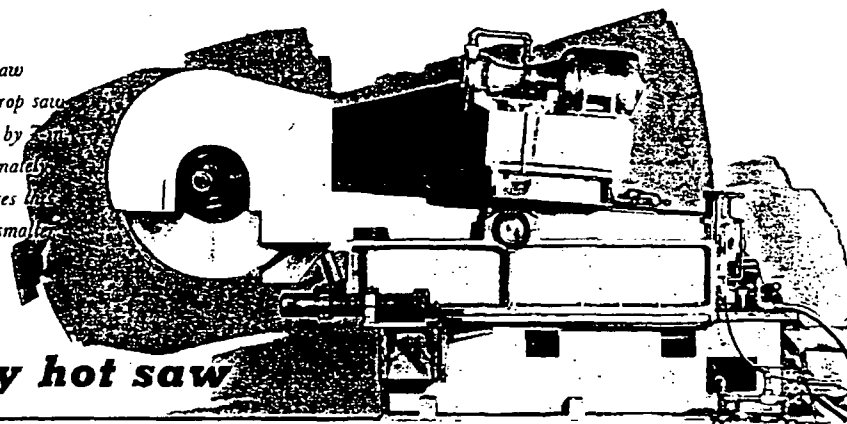


This new automatic 48-in. hot saw is a combination crosscut and drop saw capable of cutting two 7-in. by 7-in. billets side by side in approximately nine seconds. York-Gillespie makes this saw in sizes both larger and smaller.



Double-duty hot saw

IN 1948 James and Charles MacGregor founded the York Engineering & Construction Company of Pittsburgh on not much more than the proverbial shoestring. Both MacGregors had had experience in the steel industry, and the new company specialized in designing and building steel mill equipment. Their premise was that millions are spent on high-speed production mills, and yet the intermediate equipment leading to or from these mills is too often left in antiquated form. Since standard equipment would not usually solve these problems, there was an opportunity for a company that would specialize in the building of automatic handling equipment to meet the needs of individual plants.

As business grew the company expanded and in 1951 the Gillespie Manufacturing Company was purchased and York-Gillespie Manufacturing Company formed. In the six years of the firm's existence their family of intermediate steel mill equipment has grown to include automatic or semi-automatic manipulators for round, flat, and square products, billet feeders, cooling-bed straightening combinations, billet, slab, and strip grinding machinery, coil handling, loading, and weighing equipment for rod and bar mills. Standard basic-steel equipment such as hot saws, shear gages, scrap balers, ingot cars, cinder ladles, and rolling mill tables are also products manufactured by York-Gillespie.

One of their latest developments is an automatic hot saw designed as built for high-speed, high-production cutting of steel products. The saw is a combination crosscut and drop saw for cutting billets, slab structural products, etc. It has automatic hydraulically-operated saw feed, and special feedback controls that provide constant use maximum horsepower regardless of the varying thickness of the material being cut. The 48-in. saw, shown above, with a 150-hp motor drive is capable of cutting two 7-in. by 7-in. billets side by side in approximately nine seconds. All the motors and control equipment for the saw, were furnished by Elliott Company's Industrial Motor Division.

This photograph of the shop test set-up of the hot saw gives an excellent view of the Elliott C-W motors that power the saw. The large 150-hp 1200-rpm motor in the upper right is the saw drive. In the lower right is the 20-hp 1200-rpm hydraulic feed pump motor. In between these is a 3/4-hp 1200-rpm motor driving the lube oil pump, and at the left is a 20-hp 3600-rpm motor driving the water spray pump.

