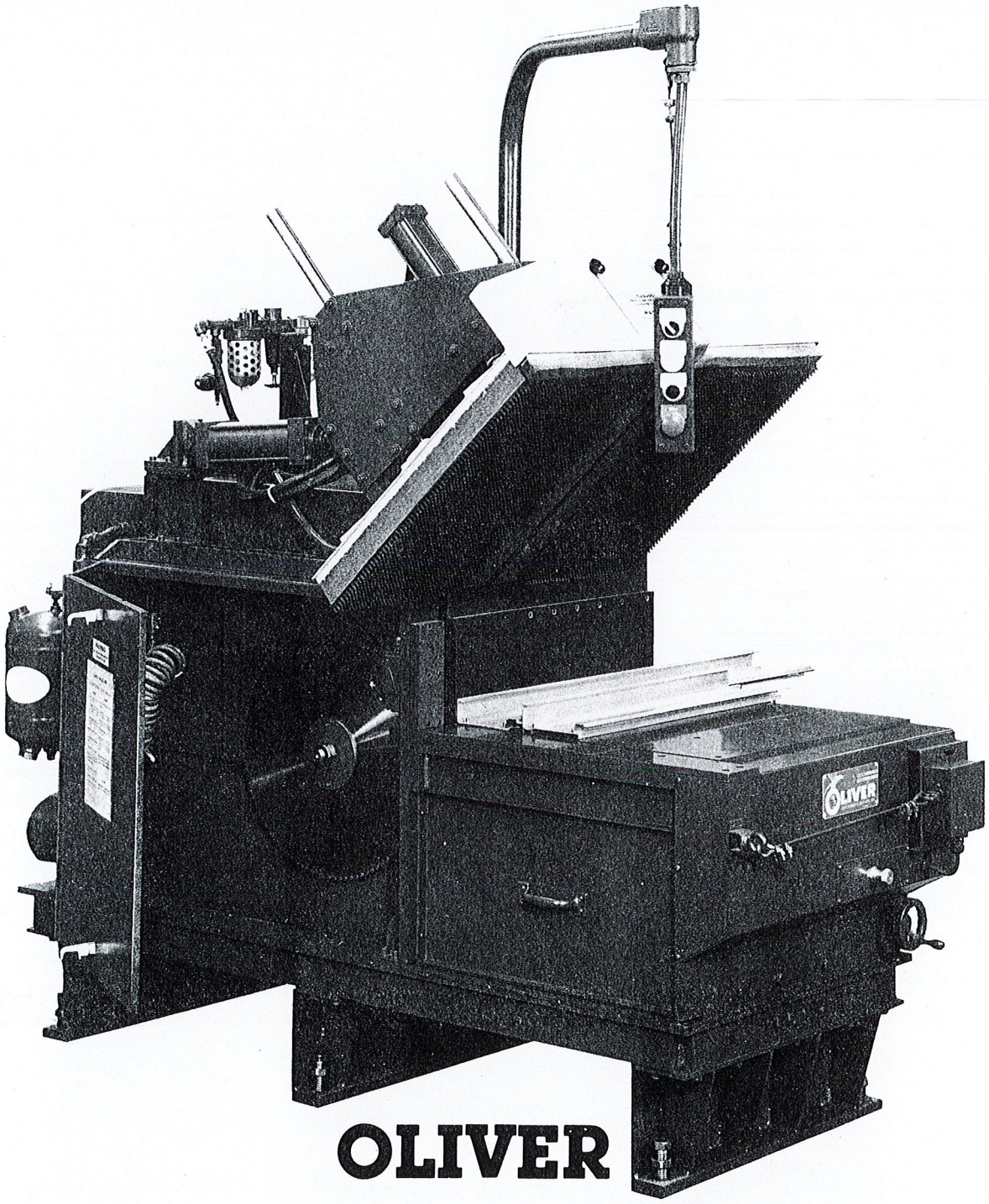
OLIVER

EXTRUSION CUTOFF SAW 2094



OLIVER

OLIVER MACHINERY COMPANY 1025 CLANCY AVE., N.E. GRAND RAPIDS, MICHIGAN 49503 U.S.A.

The 2094 Extrusion Cut Off Saw offers increased capacity, reduced noise, and maximum operator protection.

The Oliver 2094 Extrusion Cut Off Saw is designed primarily for the production sawing of aluminum extrusion and nonferrous metals. The saw blade itself is enclosed in the machine base. It travels under the work table on ball bushings and machine ground shafts. The saw blade/motor unit is controlled by a hydraulic cylinder which provides a smooth, and infinitely controllable feed.

This extrusion saw is mounted on legs with leveling bushings in order to provide an adjustable table height between 32" (813mm) and 34" (864mm) above the floor. In being adjustable the table can match existing conveyor or working heights.

Access to the internals, including blade etc., is by convenient hinged doors. These doors allow more compact placement of machinery, as well as increased ease of maintenance. For operator safety, access doors are interlocked to interrupt power to the saw blade, and render the saw inoperative if the doors are ajar.

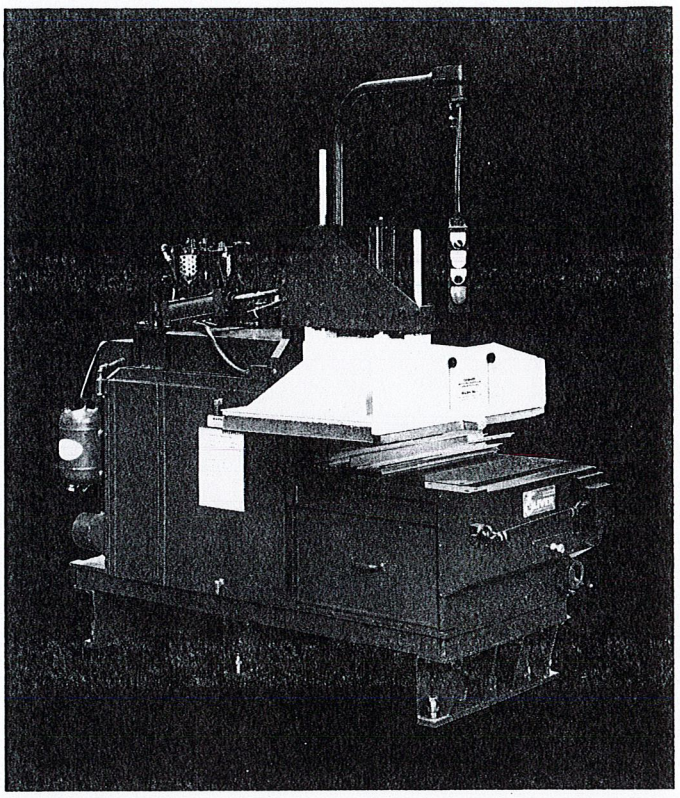
Feed speed is variable between 0 and 590 inches per minute at 60 cycle, 0 and 490 inches per minute at 50 cycle. Saw blade speed at 60 or 50 cycles is 16,580 and (5054m) 13,815 surface (4211m) feet per minute respectively. Feed speed, and also stroke length are controlled from the operator's position at the front of the machine.

VERTICAL CLAMP HOOD

A unique feature of the 2094 Extrusion Cut Off Saw is its clamp hood. The hood raises vertically and then pivots away for clear work access. The saw guard is integrally designed into the clamp hood. To dampen saw blade noise, the hood is equipped with closed cell foam pads 3 inches deep (76mm) and 14 (356mm) inches wide on both sides of the saw blade. When it is in the clamped position, with the front sound barrier guard adjusted properly the saw blade is completely enclosed. For easy maintenance, the sound pads are easily removed.

SAW ARBOR

In order to provide maximum arbor support, and long maintenance free operation, the saw arbor is mounted on double row ball bearings within a precision machined housing. The bearings run in an enclosed oil bath to insure longevity and optimum service.



CAPACITY

High yield and increased production are possible through the 2094's total cutting capability. Using a 20" (508mm) diameter saw blade, this saw accepts material up to 2" (50.8mm) high by 24" (609mm) wide or 6" (152.4mm) high by 19" (482.6mm) wide. More than one piece may be cut within the height and width capacities.

TABLE

The table is designed of heavy steel weldment which is ground flat, and, like the back fence, is covered by a non-metallic material. The covered table and fence minimize the marking of the work piece and are replaceable.

HYDRAULIC UNIT

The hydraulic pump motor is a 2 horsepower/1800 RPM unit. This unit has a capacity of 6 gallons per minute at 60 cycles or 5 gallons per minute at 50 cycles. The hydraulic unit is mounted within the saw enclosure, and is designed to be readily removed from the machine for routine preventative maintenance.

OPERATOR CONTROLS

For ease of operation, reduced operator fatigue, and maximum operator safety, the controls are front mounted. Electric controls are quick response, start, stop and cycling push-buttons. Also included at the operator position are the feed speed and stroke length adjustments. In order to eliminate unnecessary down time, each saw is wired in the shop and thoroughly tested prior to delivery and set-up.

SPRAY MIST LUBRICATION

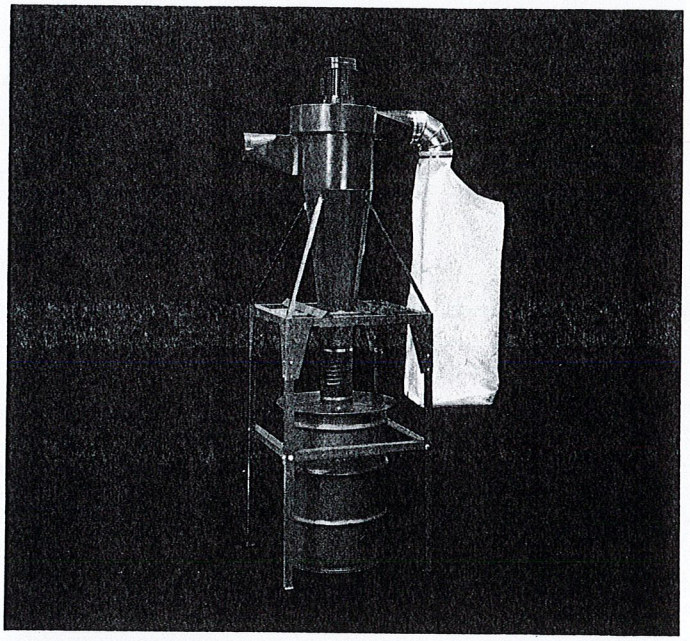
The 2094 is equipped with a completely automatic spray mist system. The 6 gallon system is activated by forward sawing movement of the blade/motor unit.

SAW BLADE

A variety of blade diameters are accepted on the 2094. All blades require a 1 inch (25.4mm) bore and may range in diameter from 10 (254mm) to 20 inches (508mm). In special design circumstances 22 inch (559mm) and 24 inch (610mm) diameter blades are available which will increase the cutting capacity.

CHIP COLLECTION

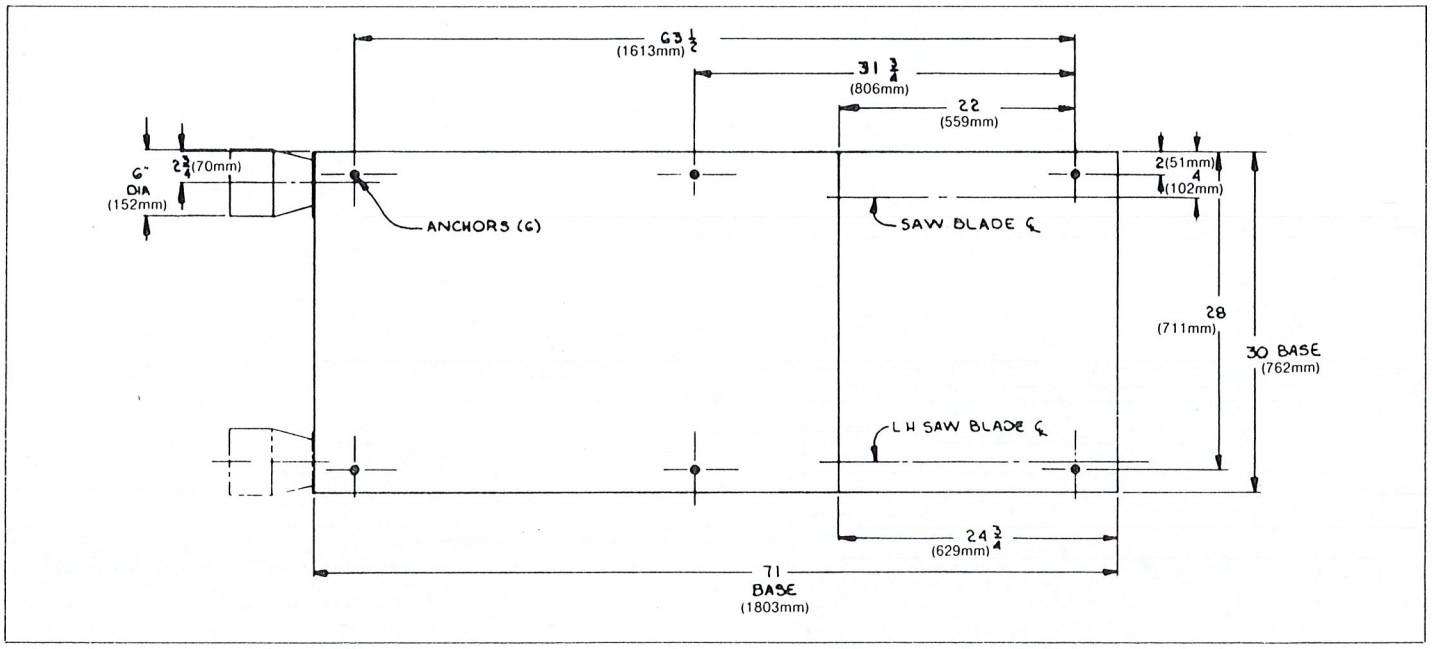
A 6 inch (152mm) diameter outlet is provided, and extends to the rear of the saw for chip collection. Available as an option, the vacuum chip collector is complete (except for collection drum) with 10 feet (305cm) of 6 inch (152mm) flexible metal hose, one 90 degree 8 inch (203mm) elbow, one 8 inch (203mm) hose clamp and one filter bag. In order to synchronize chip collection and material cutting, this unit is wired through the operator control panel on the front of the 2094.



Options available:

1. Left hand and right hand saw
2. 3/50/380 electric
3. Side chip outlet

Standard equipment and specifications



FEATURES AND SPECIFICATIONS

Infeed table wide	26" (660mm)
Outfeed Table wide	4" (102mm)
Fence to Front	33¼" (851mm)
Arbor Dia.	1" (25.4mm)
Saw Collar Dia.	5¾" (146mm)
Ball Bushing Dia.	1½" (38mm)
Feed Cylinder	1½" x 30" (38mm x 762mm)
Hyd. Pump Motor	2HP 1800 RPM-145T
Saw Motor	10HP 3600 RPM-215T
Clamp Style	Air Cylinder
Blade SFPM 60cy/50cy	16580/13816 (5054m/3211m)
Hyd. Pump Capacity 60cy/50cy	6 Gal/Min / 5 Gal/Min
Max Forward Speed 60cy/50cy	590 in/Min / 490 in/Min (1499cm/1245cm)
Max Reverse Speed 60cy/50cy	1060 in/Min / 880 in/Min (2692cm/2235cm)

MAXIMUM CAPACITIES

		STOCK HEIGHT							
		1	2	3	4	5	6	7	8
BLADE DIAMETER	10	18	-	-	-	-	-	-	-
	12	20	18	-	-	-	-	-	-
	14	21½	20½	18½	-	-	-	-	-
	16	23	22	21	18½	-	-	-	-
	18	24	23½	22½	21	19	-	-	-
	20	25	24½	24	22½	21½	19	-	-
2094 SPECIAL	22	25	25	25	24½	23	21½	19	-
	24	25	25	25	25	25	23½	22	19

TABLES SHOW MAX. CAPACITY

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