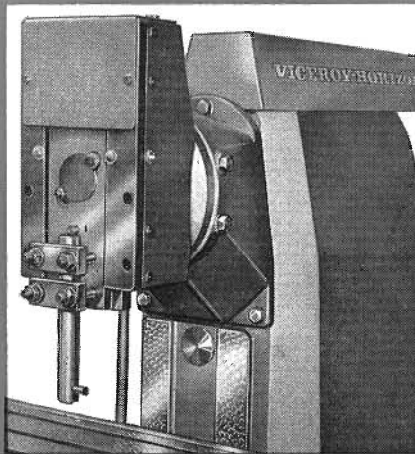
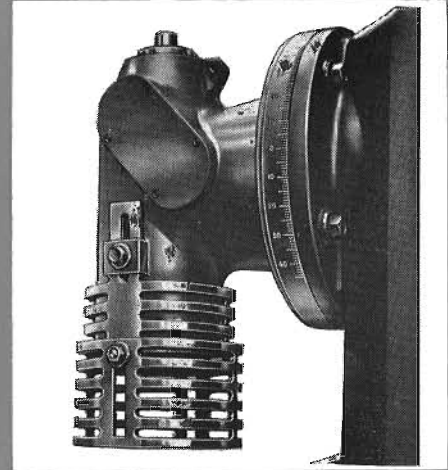
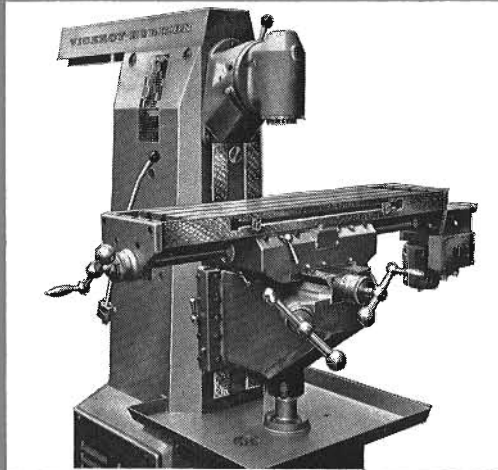


3U MK.II
(HORIZONTAL)
V2 MK.II
(VERTICAL)

HORIZONTAL & VERTICAL MILLING MACHINES

VICEROY



1. **Top Left.** Swivelling Vertical Attachment in position on Horizontal Machine.
2. **Top Right.** Telescopic Safety Guard attached to the head of the Vertical Machine.
3. **Bottom Left.** Slotting Attachment 2 1/2" stroke fitted to Horizontal Machine.

Other attachments available

A CLOSE-UP OF THE VICEROY MILLING MACHINES

MAIN SPINDLE: Mounted on opposed pre-loaded precision taper bearings, with full adjustment. Spindle nose 30 Int. taper, Standard - others available

ARBOR: Cutting arbors are forged nickel chrome molybdenum steel. The standard arbor is 1-in. dia. fitted with spacing collars and No. 30 Int. taper. Other sizes of arbors and tapers available.

OVERARM: Heavy duty cast iron overarm of box section construction giving maximum rigidity to cutter arbor and is effectively locked in any position.

ARBOR SUPPORT: This rigid support traverses along the dovetail of overarm giving maximum support in any position to the cutter.

BASE AND COLUMN: Heavy duty cast iron main column and base ensures maximum rigidity for knee and table during operation. Base also houses coolant pump and tank and supports the chip tray.

TABLE: H.D. table is accurately machined and has three tee slots and coolant troughs for efficient return of fluids to tank. Adjustable trip dogs incorporated. Universal Milling machine is fitted with similar type of table capable of swivelling 45° either side of centre, mounted on compound graduated in degrees. Leadscrew back lash eliminator fitted as standard on all machines.

TABLE POWER FEED: Is by a separate 1/6 H.P. motor, feed being independent to spindle speeds, 8 feeds selected by pick-off gears. Operation by push button electrical control at end of table incorporating reverse switch for feed in both directions.

TABLE SAFETY CLUTCH: This is a mechanical slipping clutch which prevents any damage to table gearbox through over-run or over-load.

KNEE: Rigid box type casting with accurate adjustable vee slides giving ample support to saddle and table. Hand lever controls fitted with dials clearly calibrated in .001 in. or .02 mm. Vertical screw protected from ingress of dirt, chippings and suds by enclosure in P.V.C. bellows.

LUBRICATION: Oil level indicators fitted to all gearboxes. All such points coloured for "AT A GLANCE" maintenance.

ELECTRICAL SWITCHGEAR: No-volt overload release with push button starter within easy reach of operator for both spindle and table drives giving instantaneous safety control.

SERVICING: Modern assembly techniques and unit construction makes servicing and replacement fitting easy for the maintenance staff or those responsible. The 'VICEROY' service and technical advisory service is always available on request.

MODEL DATA. MODELS 1U, 2U, 3U

UNIVERSAL MILLING MACHINES WITH SWIVEL TABLE

MODEL 1U: Hand Feeds All Directions.

MODEL 2U: Fitted with Separate Power Feed for longitudinal traverse 8 feeds in both directions.

MODEL 3U: Similar to Model 2U with the addition of continuous running clutch operated at both sides of machine and within easy reach of the operator. Heavy duty steady brace.

PLAIN MILLING MACHINE

MODELS 1P: 2P: and 3P: Are identical less universal swivel table.

VERTICAL MACHINES

MODEL V1 Hand Traverse Table

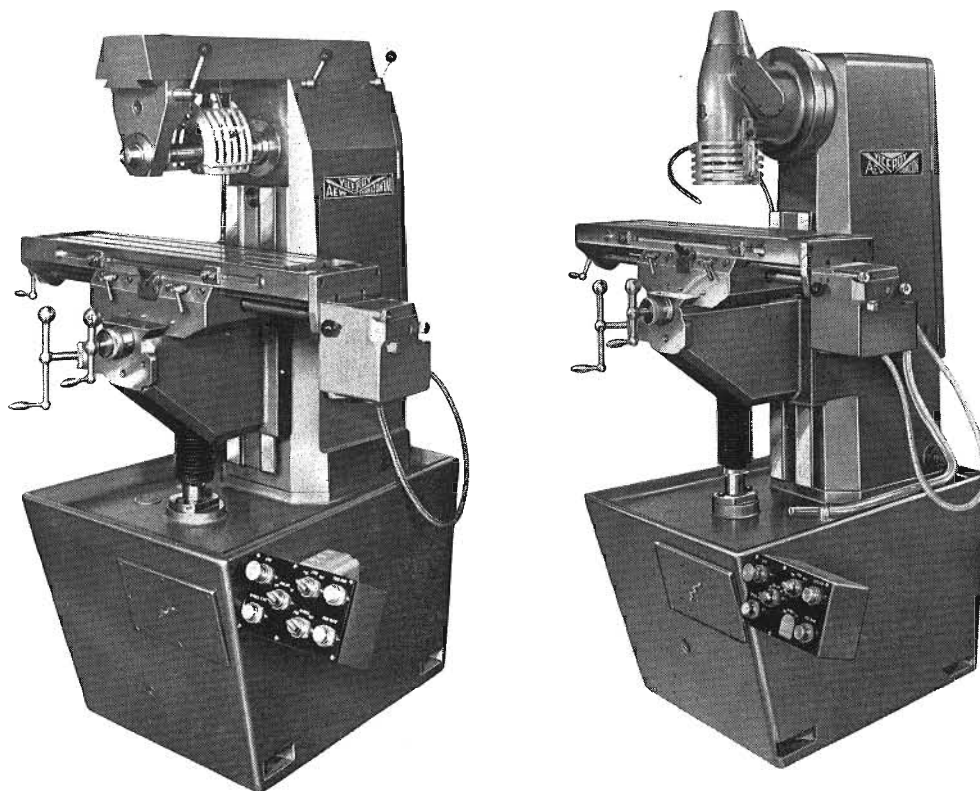
MODEL V2 Power Traverse Table

SPECIFICATIONS

	Horizontal Machines		Vertical Machines	
	English	Metric	English	Metric
Size of Table ..	34 in x 8 in	863.6 x 203 mm	34 in x 8 in	863.6 x 203 mm
Working Surface of Table	28 in x 8 in	711 x 203 mm	28 in x 8 in	711 x 203 mm
Table Traverse:				
Long	18 in	457 mm	18 in	457 mm
Cross	5 1/2 in	139.7 mm	5 1/2 in	139.7 mm
Vertical	13 in	330 mm	13 in	330 mm
Main Motor H.P. ..	2	2	1	1
Table Motor H.P. ..	1/6	1/6	1/6	1/6
No. of Spindle speeds	18	18	8	8
Range of Spindle speeds	25-2039 rpm	25-2039 rpm	80-3105 rpm	80-3105 rpm
Table Power feeds ..	8	8	8	8
Range of Power feeds ..	.7 in - 5 in	17.8 - 127 mm	.7 in - 5 in	17.8 - 127 mm
Dial graduations ..	.001	.020 mm	.001	.020 mm
Nett weight approx. ..	1400 lbs.	635 kgs.	1240 lbs.	562.5 kgs.

HORIZONTAL & VERTICAL MILLING MACHINES

3U MK. II
(HORIZONTAL)
V2 MK. II
(VERTICAL)



VICEROY

The 'VICEROY' Horizontal and Vertical Milling Machines represent modern ideas in design, with SAFETY and other features, making them suitable for Production, Toolroom, General Engineering; also Technical Colleges and Schools and all forms of Vocational Training. The Horizontal or Vertical Machines are fitted with TABLE LEAD-SCREW BACK-LASH ELIMINATOR, with SAFETY mechanical traverse trip fitted to machines—with independent power table drives. Push button no-volt overload release electrics controls continuously rated 2 H.P. motor (1 H.P. Vertical Machine), which is mounted on adjustable platform in Cast Iron base, with SAFETY electric micro-switch fitted to the belt change compartment door for isolating the electrics when door is opened.

For English and Metric specifications see over.

Manufactured by :
A.E.W. ENGINEERING CO. LTD., U.K.

ALL ENQUIRIES TO—

DENFORD MACHINE TOOLS LTD

(DENFORD SMALL TOOLS LIMITED)

BRIGHOUSE YORKSHIRE ENGLAND TEL: BRIGHOUSE 2264 (3 LINES)

