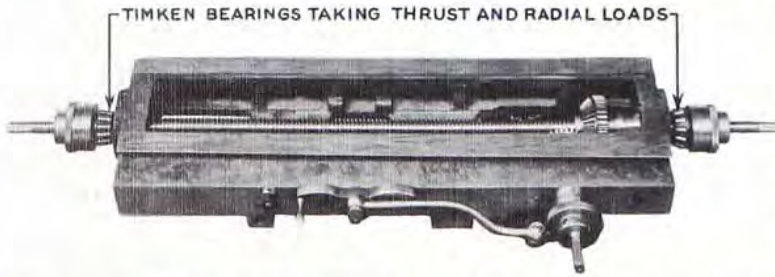


NEW No. 3VG REED-PRENTICE VERTICAL MILLING and DIE SINKING MACHINE
(with back geared spindle construction)

REED-PRENTICE CORP.
WORCESTER, MASS. U.S.A.

CIRCULAR 18-3VG-2

VERTICAL MILLING and DI



SADDLE AND TABLE:

Saddle extends full length of table and forms rigid support for same. Saddle is accurately hand scraped and securely gibbed to knee, table likewise hand scraped and gibbed to saddle. T slots in table provide ample clamping facilities for work. Cross, vertical and longitudinal feed screws are provided with micrometer collars graduated in thousandths for accurate control. Wipers are provided for table and knee slides. Screws are Chrome Molybdenum Steel, nuts of special alloy leaded phosphor bronze. Crank balls for cross and longitudinal feed screws are supplied with revolving handles. Longitudinal feed screw is carried in TIMKEN bearings as shown taking all thrust and radial loads. Cross feed screw is provided with ball thrust bearing. Ball crank at right hand front side of table gives hand longitudinal feed, with micrometer reading. Power longitudinal feed to table is taken direct from separate motor.

SPECIFICATIONS:

Longitudinal Feed (Power)	24"	Range of Spindle Speeds:	
Cross Feed	12"	1800 RPM motor 605-770-875-1100-1465-1630-2150-2600-3300-4000 RPM. Back gear assembly not used	
Vertical Adjustment of Knee	18"	1200 RPM motor 400-505-575-730-960-1070-1420-1700-2170-2600 RPM. With back gears: 135-170-190-245-320	
Vertical Adjustment Head on Column	5"	900 RPM motor 300-380-430-550-730-800-1120-1275-1625-1950 RPM. With back gears: 100-130-145-185-245-270	
Maximum distance, Spindle to Table	18"	900/1800 RPM motor 300-380-430-550-605-730-770-800-875-1100-1120-1275-1465-1625-1630-1950-2150-2600-3300-4000 RPM. With back gears: 100-130-145-185-245-270	
Maximum distance, Spindle to Rotary Table	13 1/2"	Taper Hole in Spindle	No. 10 B & S
Maximum distance, Spindle to Frame	16"	V Belt for Spindle Drive	B type
Rotary Table, working surface	16 1/2"	Floor Space, length x width x height, inches	57" x 70" x 80"
Machine Table, working surface	10 1/4" x 36"	Machine, shipping weight without rotary table	
Machine Table, size overall	10 1/4" x 44"	with motor	2850 lbs.
Machine Table has 3 T slots	5/8"	Rotary Table, power feed, net	150 lbs.
Length of Carriage	34 1/2"	Machine, without Rotary, boxed for ocean shipment	3100 lbs.
18 Feeds in inches per minute, range	1/2" - 20 1/2"	Machine, with Rotary, boxed for ocean shipment	3250 lbs.
Spindle, main bearing dia.	1 3/4"	Cubic contents	187 cu. ft.
Spindle Speeds:		Code Word, without Rotary	CUT
Constant speed motor, 10; with back gears, 5 or 6		Code Word, with Power Rotary	CUTPOROT
Two speed motor, 20; with back gears, 6			

STANDARD EQUIPMENT:

Includes machine arranged for vertical motor drive with or without electrical equipment, 4 suitable size T slot bolts with straps, drawbar, No. 3 V collet adapter, one 1/2" collet (No. 3V collets 1/8" - 3/4" x 16ths) heavy leather curtain and wrenches.

EXTRA EQUIPMENT:

Electrical equipment, motor driven oil pump and piping, rotary table with power and hand feed, indexing attachment for rotary table, universal angle plate, vise, profiling attachment, Vernier scales or inside micrometers with end measures and dial indicators for longitudinal and cross feeds, collets, cutter, etc.

ELECTRICAL EQUIPMENT RECOMMENDED:

Constant speed 900, 1200 and 1800 RPM motors or 900/1800 RPM two-speed motors are used. The following electrical equipment in 220/440 volts, 60 cycles, 3 phase A.C. is recommended:

3 HP Vertical Motor with NEMA flange mounting	900 RPM frame 284 motor
	1200 RPM frame 254 motor
	1800 RPM frame 225 motor
	900/1800 RPM frame 284 motor

Magnetic Switch
2 Button Push Button Station For start and stop

Electrical equipment in other A.C. voltage also in D.C. can be supplied. Apply for information.

If customer prefers to purchase electrical equipment, it is recommended that it be sent us for mounting and wiring which is included in price of machine arranged for motor drive.

SINKING MACHINE

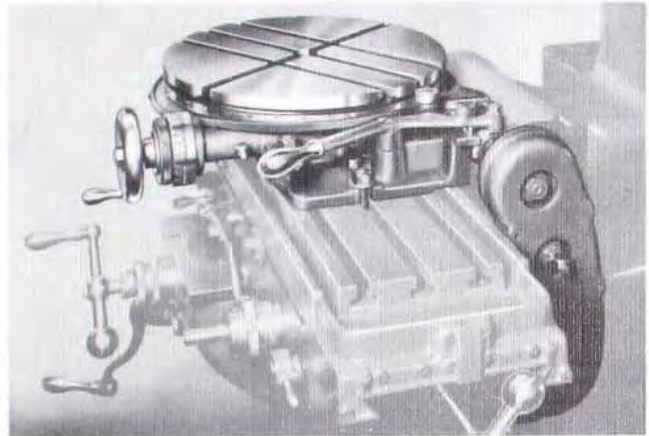
ATTACHMENTS (Supplied at extra cost)

ROTARY TABLE: (Power Feed):

This attachment adds greatly to the range of work of which the machine is capable and can be applied at any time.

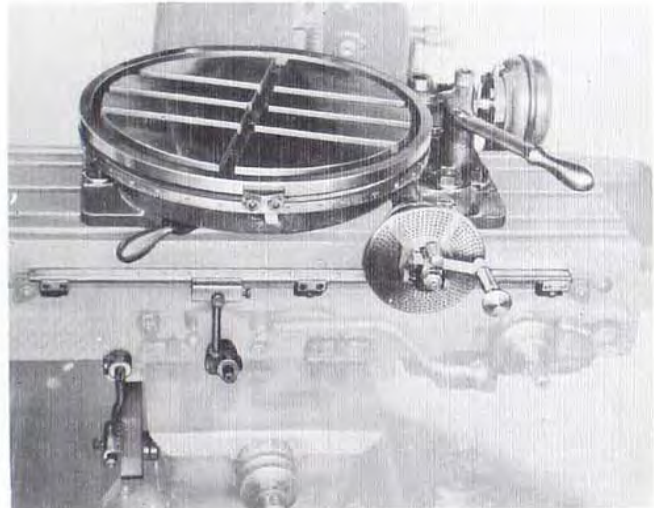
Table has working surface of $16\frac{1}{2}$ " in diameter, power and hand feeds in either direction with adjustable automatic stop. Table is graduated to 360° and supplied with adjustable Vernier dials on hand wheel shaft graduated to five seconds. Hand wheel for hand feed being located at front of table offers convenience in operation. Table provided with oil trough as required with oil pump and piping.

Table can be supplied with hand feed only by omitting power feed parts.



INDEXING ATTACHMENT:

Where required, rotary table can be furnished with indexing attachment as shown providing all divisions to 100 and all even numbers up to 134.



VERNIERS: (For Cross and Longitudinal Feeds):

Where extreme accuracy is required, Verniers of high grade manufacture can be supplied for cross and longitudinal feeds. Securely fastened to table and saddle for longitudinal feed and to saddle and knee for cross feed as shown.



MICROMETER TABLE SETTING

ATTACHMENT: (For Cross and Longitudinal Feeds):

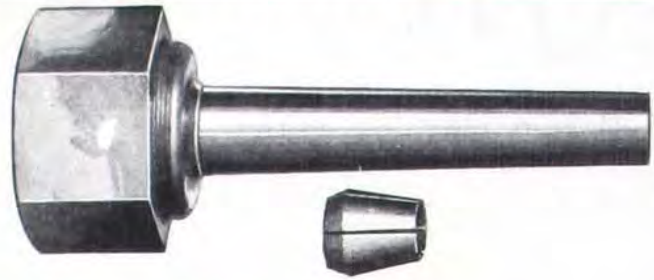
If preferred in place of Verniers, micrometer table setting attachment with dial indicators, end measures and inside micrometers for cross and longitudinal feeds can be supplied for accurately positioning table and used for jig boring as shown. End measures include 2 each 1", 2", 3", 6" and one 12" with inside micrometers and box.



No. 3VG VERTICAL MILLING AND DIE SINKING MACHINE

COLLET CHUCK:

Adapted for holding straight shank cutters, with No. 10 B&S taper shank to fit spindle and threaded for drawbar. Collet with 1" maximum capacity and wrench included with collet chuck.

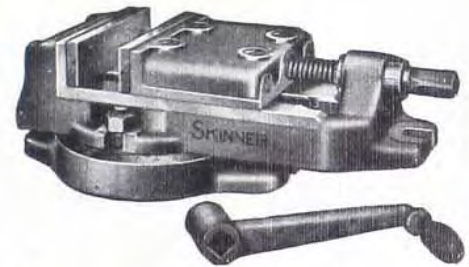


SPRING COLLETS:

A 1/2" No. 3V collet with No. 3V collet adapter is regularly furnished as standard equipment. Extra collets can be supplied in sizes from 1/8" to 3/4" by 1/16" increments.

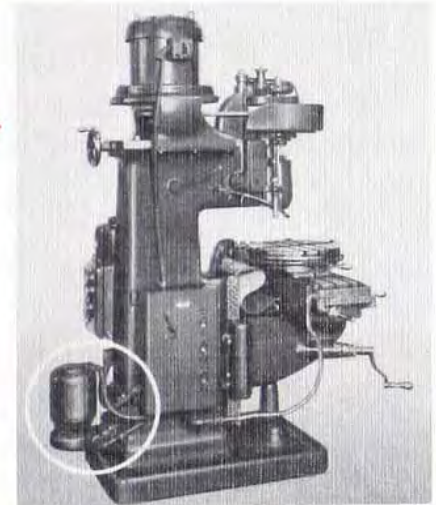
WISE:

5" vise can be furnished with plain or swivel base. See cut at right for swivel type.



PUMP AND PIPING:

Where desired machine can be arranged for pump and piping. Pump is driven from separate motor and provided with lubricant tank in column. Table is equipped with end pockets and piping for return of lubricant to tank.



PROFILING ATTACHMENT:

Fastened to sliding head with pin follower for accurate reproduction of shapes and contours.

LAMP BRACKETS:

Easily attached at any time and adjustable as desired. These lamp brackets are a valuable aid for good work; of high grade manufacture with shade, cord and plug, ready for connecting to lamp socket (without bulb).

It is recommended that two lamp brackets be purchased, one for fastening to each side of machine as shown.



UNIVERSAL ANGLE PLATE:

Valuable for holding work at any desired angle. Especially useful for tool work and in production where special fixtures would be too expensive. Size of table 8" x 10", height 11 3/8", T slot width 3/4".