

Operative Features

of the SOUTH BEND VERTICAL MILL

with **POWER QUILL** and **TABLE FEED**

Depth stop - Controls the length of the quill movement and eliminates the necessity of a trip mechanism on the power feed quill.

Quill feed controls at eye level for positive adjustment of quill movement.

Switch for hydraulic power quill unit.

Switch for table feed unit.

Table feed control - Engaging this lever will move the table in either direction as determined by the setting of the table feed direction lever.

Table feed direction lever - The change to Right, Left or Neutral can be made with the table in motion.

Table feed release lever - Table feed can be disengaged at anytime before the preset table stops automatically disengage it.

Power Table Feed Gear Box - Provides 30 feeds to the table from 1/4" to 15" per minute.

Hydraulic pump and reservoir for the power feed quill.

Controls for power table feed - Table feed is engaged or disengaged with this control which also serves as an automatic table feed stop.

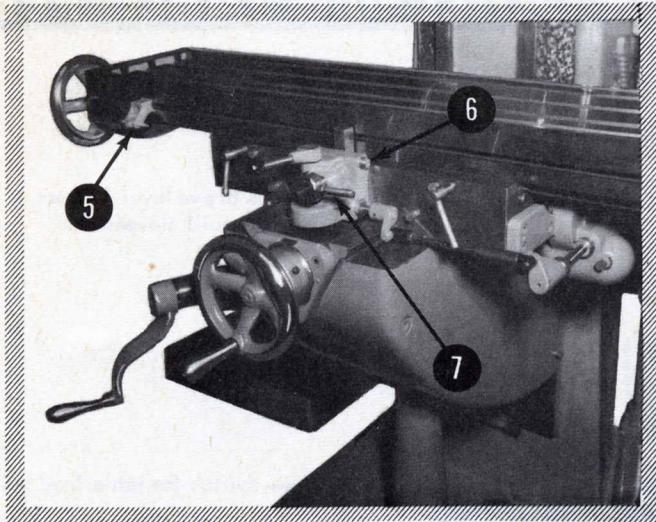
See reverse side for detailed illustrations.



SOUTH BEND LATHE SOUTH BEND 22, INDIANA

Builders of Lathes, Milling Machines, Shapers, Drill Presses and Pedestal Grinders

NEW POWER FEEDS SAVE TIME ... IMPROVE QUALITY OF WORK. INFINITELY VARIABLE FEED FROM 0 TO 25" PER MINUTE TO THE QUILL AND CHOICE OF 30 FEEDS TO THE TABLE, (FROM 1/4" TO 15" PER MINUTE.)



MANUFACTURED BY SOUTH BEND LATHE WORKS SOUTH BEND, IND., U. S. A.					
TUMBLER INDEX	A	B	C	D	E
1	.250	.288	.341	.417	.468
2	.500	.577	.682	.833	.937
3	1.00	1.15	1.36	1.66	1.88
4	2.00	2.31	2.73	3.33	3.75
5	4.00	4.62	5.45	6.66	7.50
6	8.00	9.23	10.9	13.3	15.0

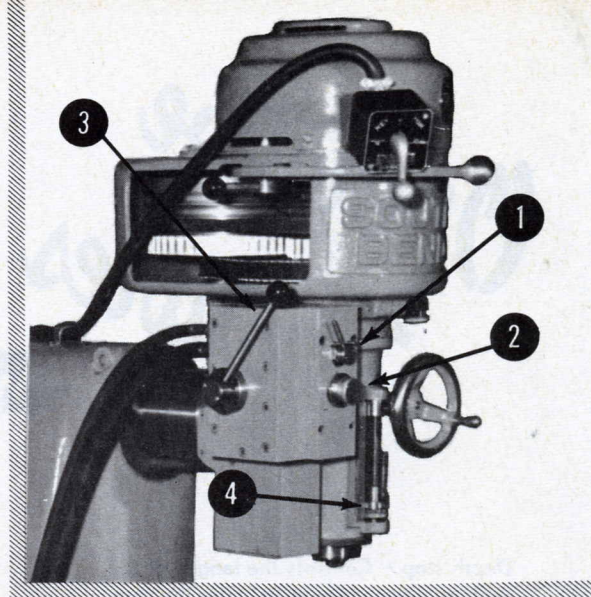
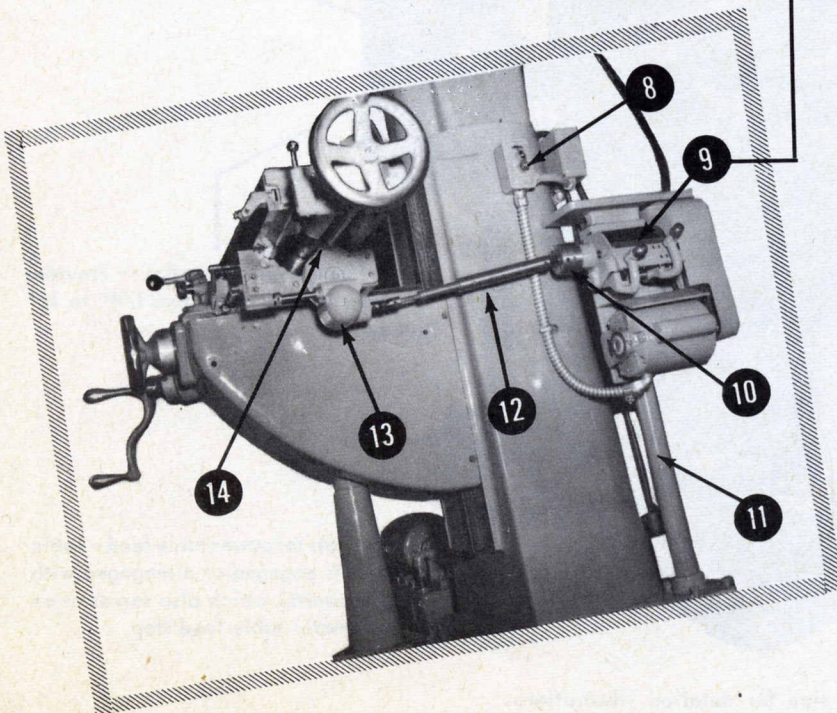
SOUTH BEND
PRECISION
MILLING MACHINE

CATALOG NO. _____
TABLE LENGTH _____

FEEDS IN INCHES PER MINUTE

A B C D E TUMBLER POSITIONS 1 2 3 4 5 6

Chart of available Power Feeds to table



- 1 Rapid feed control lever - Engaged or disengaged by a simple movement left or right.
- 2 Quill feed regulator - Adjusts the quill movement infinitely from 0" to 25" per minute depending on the requirements of the operation. This control is automatically by-passed when rapid feed is used, eliminating resetting the quill feed regulator.
- 3 Quill feed control - The direction of the quill can be changed with a simple up or down movement.
- 4 Depth stop
- 5 Adjustable table stops controls the longitudinal table travel.
- 6 Table feed trip mechanism is activated when the table stops come in contact with plungers on either side of table feed control.
- 7 Table feed release lever - Table feed can be disengaged at anytime before the preset table stops automatically disengage it.
- 8 Switch for table feed unit.
- 9 Power Table Feed Gear Box - Provides 30 feeds to the table from 1/4" to 15" per minute.
- 10 Mechanical Table Feed overload mechanism - Prevents damage to the table and gear box when accidentally overloaded.
- 11 Power table feed - Unit is mounted on the milling machine base and supported by a single column pedestal.
- 12 Telescoping Drive Shaft - Supplies power from the change gear box to the transfer case mounted under the table.
- 13 Power Transfer Case - Mounted under the table also contains the power feed cut-off mechanism.
- 14 Feed rod for table provides power from transfer case through a sliding gear to the table.