MARVIN

Machine Products Inc.

414 FORD BUILDING · DETROIT 26, MICHIGAN

The bench milling machine units shown on the following pages will make your mill three times as valuable to you. They will enable you to do many jobs you could not possibly do without these units—jobs that are often the most profitable. Many users of Marvin units have told us that the units more than paid for themselves on the first project on which they were used.

Marvin units were designed by practical tool engineers. They are built in a plant that has long been noted for fine workmanship and high precision. Years of profit and satisfaction for you are built into these fine precision tools.

Marvin Machine Products are distributed throughout the United States by established machine tool dealers. Write for the name of the dealer nearest you.
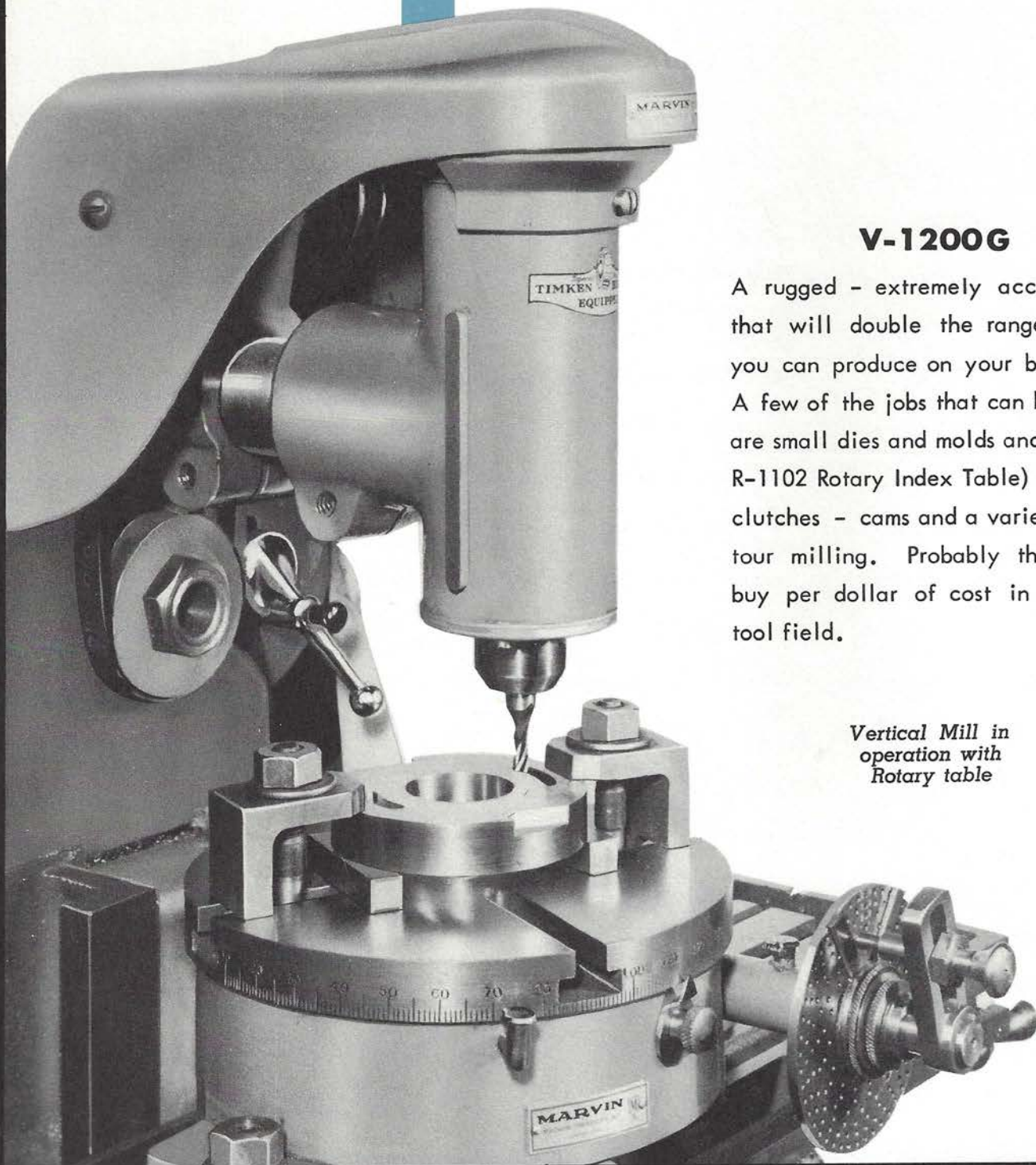
MARVIN MACHINE PRODUCTS, INC.

MARVIN

VERTICAL MILL

V-1200G

A rugged – extremely accurate unit that will double the range of work you can produce on your bench mill. A few of the jobs that can be handled are small dies and molds and (with the R–1102 Rotary Index Table) sprockets – clutches – cams and a variety of contour milling. Probably the greatest buy per dollar of cost in the power tool field.

Vertical Mill in operation with Rotary table

MARVIN

VERTICAL MILL ATTACHMENT

SPECIFICATIONS

Timken Tapered Roller Bearing Spindle for 1-1/2" overarm with Guard, Drive Pulley and Pony
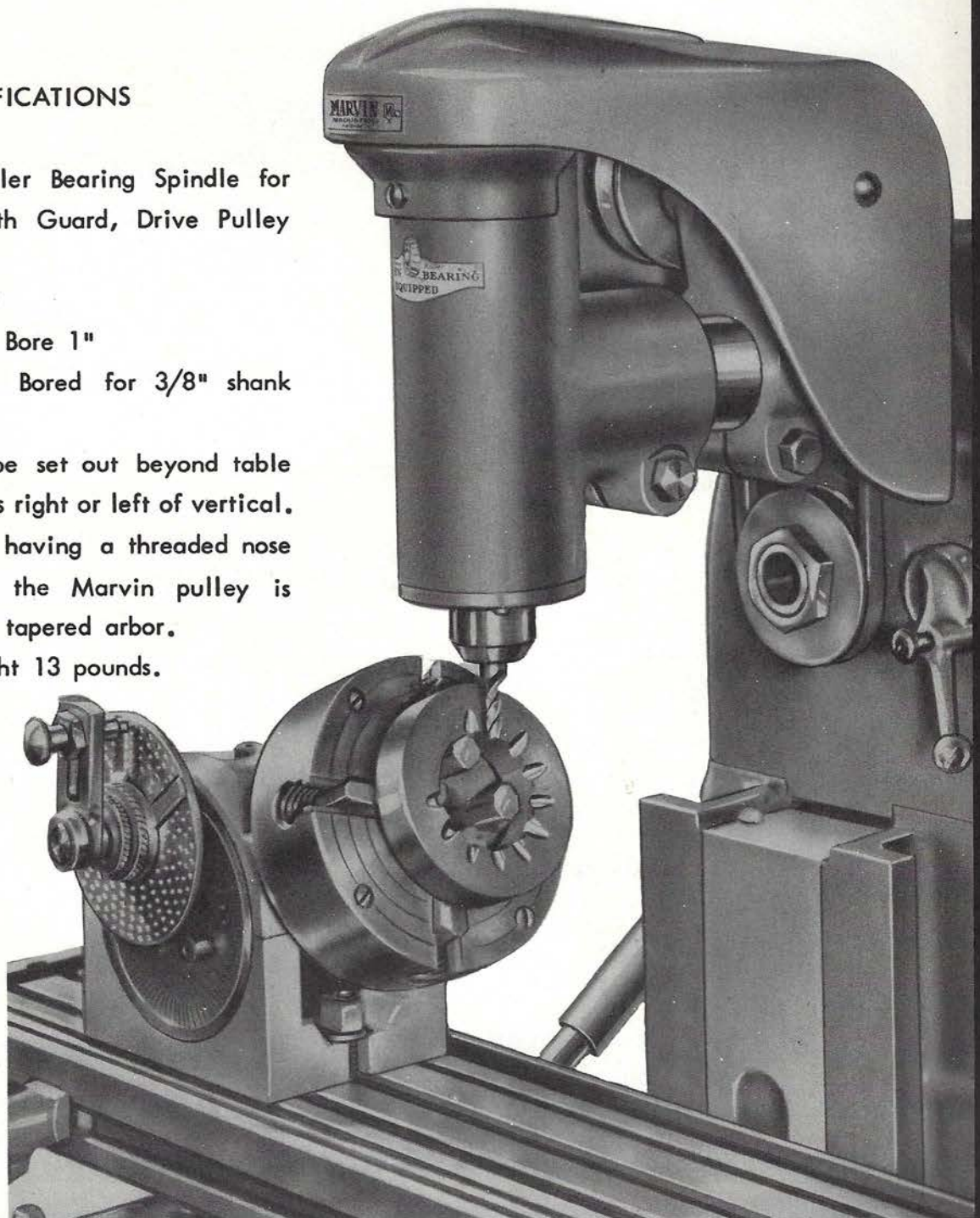
> Height 8-3/4"
> V-belt Pulley Bore 1"
> Spindle Nose Bored for 3/8" shank end mills.
> Spindle may be set out beyond table or set at angles right or left of vertical.
> For mills not having a threaded nose spindle . . . the Marvin pulley is mounted on a tapered arbor.
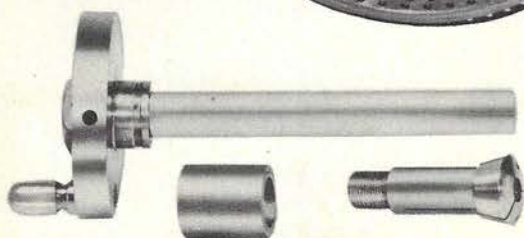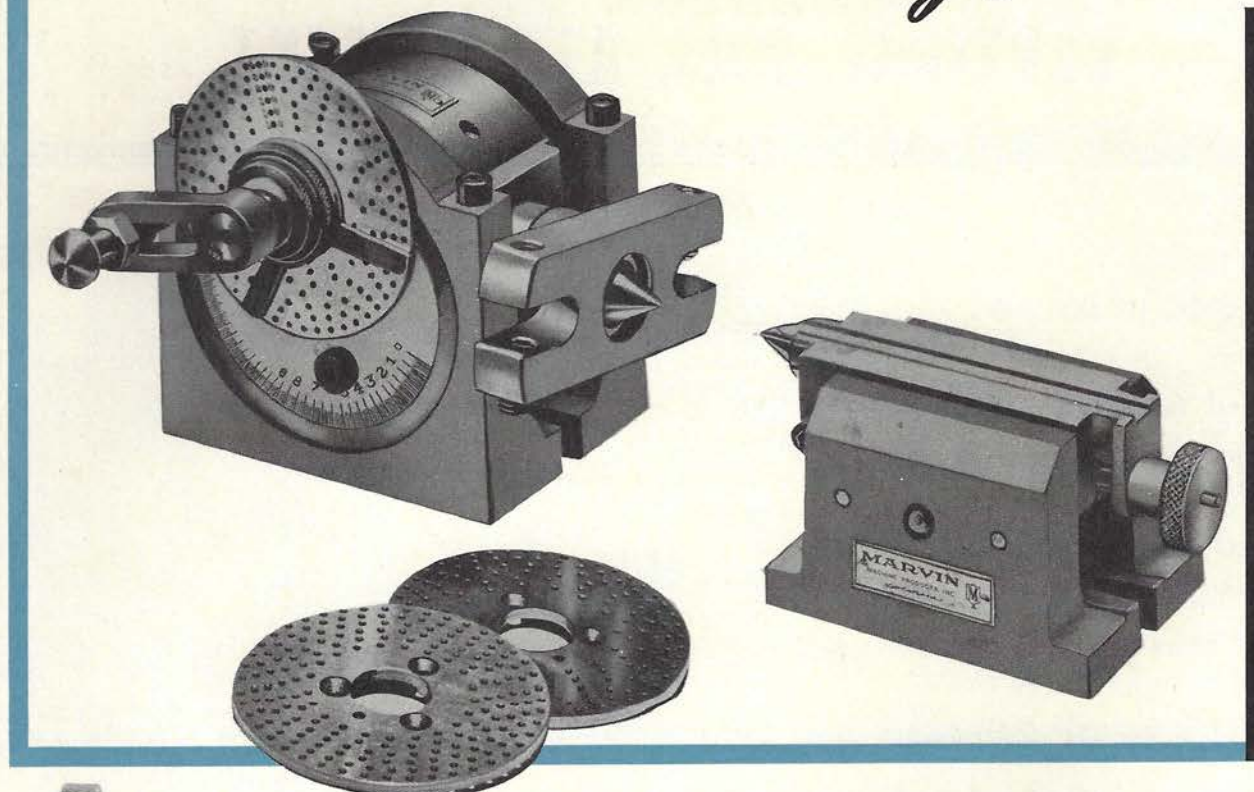> Shipping weight 13 pounds.

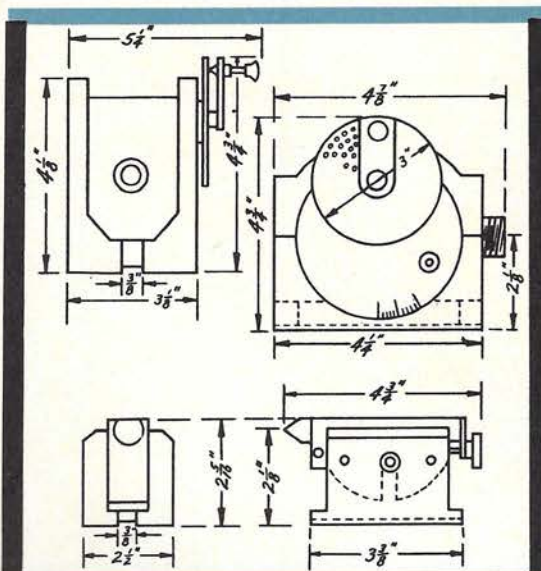*The Marvin Vertical Mill in operation with the Marvin Dividing Head.*

MARVIN
Dividing Head

MARVIN COLLET ATTACHMENTS

D-1400 — The Marvin Dividing Head provides a wide range in the number of divisions available for dividing operations required in gear cutting, layout, fluting taps and reamers . . . cutting cams, splines, etc.

The Marvin Dividing Head has two heavy trunnions. It has a conventional 40.1 worm gear ratio, adjustable for take up. The head is supplied with index plates, each having six sets of holes. The tail stock has two pins that align it in a horizontal position with the headstock, and it is vertically adjustable for tapered work. The spindle nose has a No. 2 Morse Taper socket and a 1" diameter thread of 10 pitch. The Marvin Head can be used with draw-in collets, chuck or centers with dog. Shipping weight 20 pounds.

Headstock tilts from 5° below horizontal to 30° past vertical .. total, 125 . Headstock spindle nose 1''-10 thd. and No. 2 Morse Taper. Swing 4 1/4'' and 6'' with raising blocks (raising blocks extra). Keys for 3/8 T slots (step keys for 1/2'' slot extra). 40.1 ratio .. worm adjustable for take up. Three plates furnished with holes 49, 47, 43, 41, 39, 37, 33, 31, 29, 27, 23, 21, 20, 19, 18, 17, 16, and 15. Spindle lock on headstock, center lock on tailstock. Tailstock center travel 1/2''. Pins for locating tail center to exact horizontal position. Tail center raises and tilts to all positions for general use.

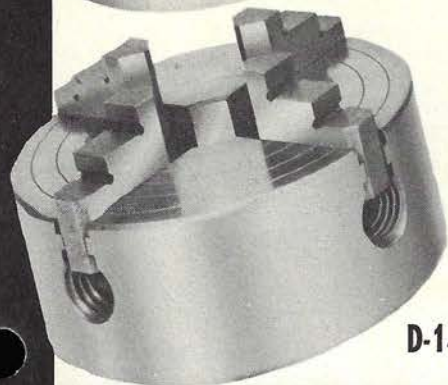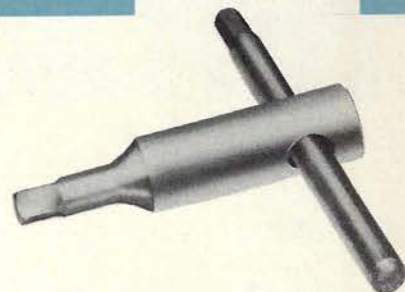## MARVIN MACHINE PRODUCTS, INC., DETROIT, MICHIGAN

MARVIN

CHUCKS

The Marvin Chuck is a precision attachment, rugged, widely functional ... simple in design.
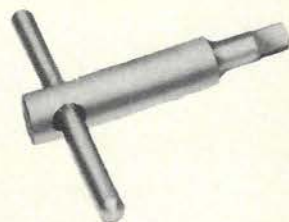
Its versatility will meet most industrial requirements in its class.

The D-1423-4" Adjust-Tru Chuck can be adjusted to bring work to dead center and once set, accuracy is guaranteed to .0005 (one half of one thousandth of an inch) on rechucking stock of the same diameter.

AJUSTRU D-1423

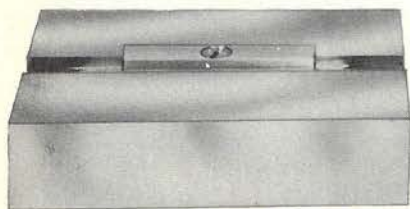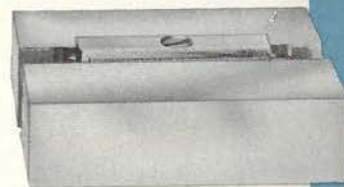**D-1422** 4"- 4 Jaws Independent Chuck.

MARVIN
Raising Blocks

INCREASE THE SWING CAPACITY OF THE MARVIN DIVIDING HEAD FROM 4¼" TO 6¼"

No. D-1420

*PRECISION DESIGNED*

FOR ACCURACY

No. D-1420

MARVIN MACHINE PRODUCTS, INC., DETROIT, MICHIGAN

MARVIN

Dividing Head

The New Marvin D-1400 Dividing Head brings you all the general advantages offered by other Marvin Machine Products . . shop-tested design, extreme accuracy, sturdiness, highest quality of materials and workmanship.

Like other Marvin Products, too, it is outstandingly versatile. Because of the wide range of divisions it provides, and the exceptional flexibility of adjustments, the D-1400 Dividing Head finds an almost unlimited variety of applications in dividing operations for large or small shops. It is an investment that "pays off" in both quality and quantity of production.
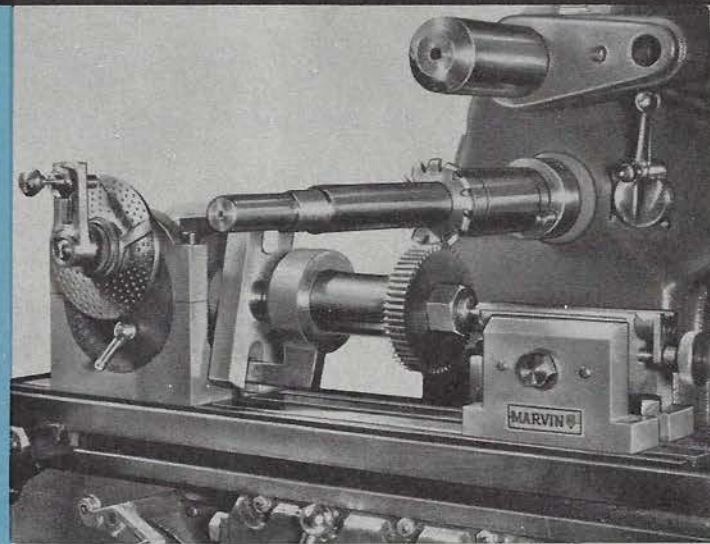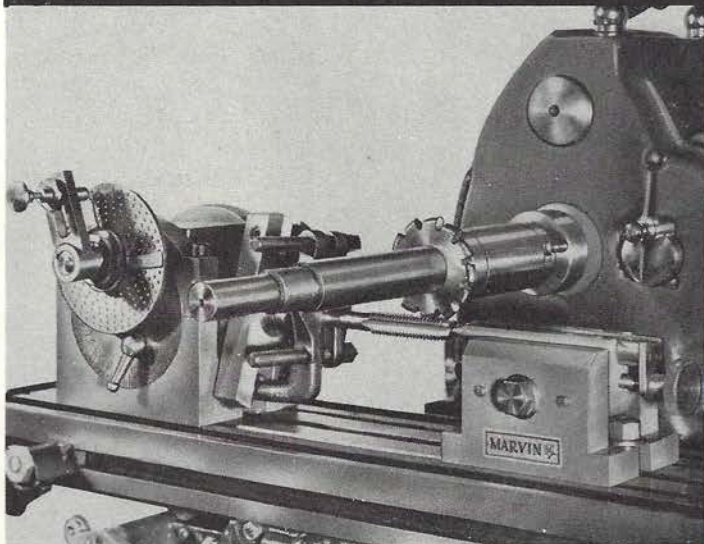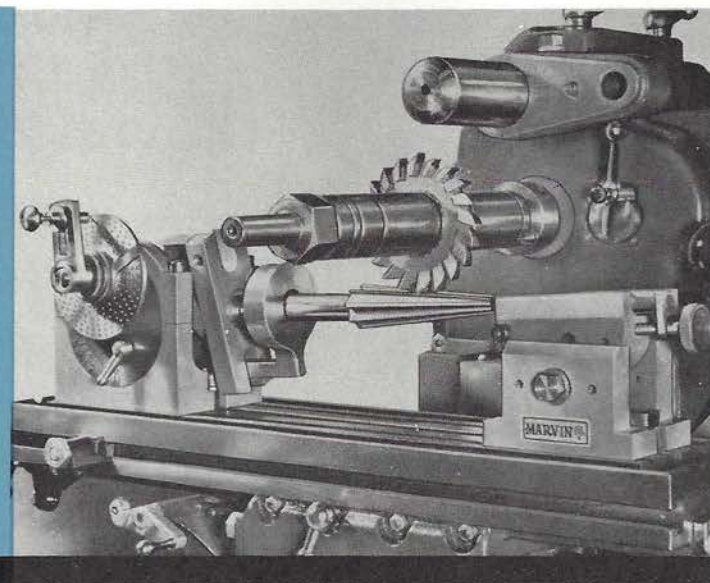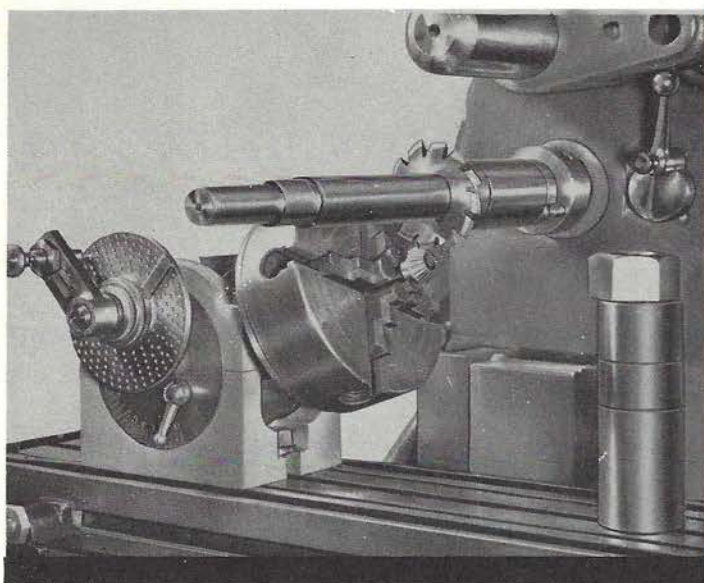
MARVIN MACHINE PRODUCTS, INC., DETROIT, MICHIGAN

DIVISION CHART FOR DIVIDING HEAD

NUMBER OF DIVISIONS	INDEX CIRCLE	NUMBER OF TURNS OF CRANK	NUMBER OF HOLES BETWEEN SECTOR ARMS
2	ANY	2.0	—
3	33	13-11/33	12
4	ANY	10	—
5	ANY	8	—
6	18	6-12/18	13
7	21	5-15/21	16
8	ANY	5	—
9	18	4-8/18	9
10	ANY	4	—
11	33	3-21/33	22
12	39	3-13/39	14
13	39	3-3/39	4
14	49	2-42/49	43
15	15	2-10/15	11
16	16	2-8/16	9
17	17	2-6/17	7
18	18	2-4/18	5
19	19	2-2/19	3
20	ANY	2	—
21	21	1-19/21	20
22	33	1-27/33	28
23	23	1-17/23	18
24	39	1-26/39	27
25	20	1-12/20	13
26	39	1-21/39	22
27	27	1-13/27	14
28	49	1-21/49	22
29	29	1-11/29	12
30	39	1-13/39	14
31	31	1-9/31	10
32	20	1-5/20	6
33	33	1-7/33	8
34	17	1-3/17	4
35	49	1-7/49	8
36	27	1-3/27	4
37	37	1-3/37	4
38	19	1-1/19	2
39	39	1-1/39	2
40	ANY	1	—
41	41	40/41	41
42	21	20/21	21
43	43	40/43	41
44	33	30/33	31
45	18	16/18	17
46	23	20/23	21
47	47	40/47	41

NUMBER OF DIVISIONS	INDEX CIRCLE	NUMBER OF TURNS OF CRANK	NUMBER OF HOLES BETWEEN SECTOR ARMS
48	18	15/18	16
49	49	40/49	41
50	20	16/20	17
52	39	30/39	31
54	27	20/27	21
55	33	24/33	25
56	49	35/49	36
58	29	20/29	21
60	39	26/39	27
62	31	20/31	21
64	16	10/16	11
65	39	24/39	25
66	33	20/33	21
68	17	10/17	11
70	49	28/49	29
72	27	15/27	16
74	37	20/37	21
75	15	8/15	9
76	19	10/19	11
78	39	20/39	21
80	20	10/20	11
82	41	20/41	21
84	21	10/21	11
85	17	8/17	9
86	43	20/43	21
88	33	15/33	16
90	27	12/27	13
92	23	10/23	11
94	47	20/47	21
95	19	8/19	9
98	49	20/49	21
100	20	8/20	9
104	39	15/39	16
105	21	8/21	9
108	27	10/27	11
110	33	12/33	13
115	23	8/23	9
116	29	10/29	11
120	39	13/39	14
124	31	10/31	11
128	16	5/16	6
130	39	12/39	13
132	33	10/33	11
135	27	8/27	9
136	17	5/17	6
140	49	14/49	15

| NUMBER OF DIVISIONS	INDEX CIRCLE	NUMBER OF TURNS OF CRANK	NUMBER OF HOLES BETWEEN SECTOR ARMS
144	18	5/18	6
145	29	8/29	9
148	37	10/37	11
150	15	4/15	5
152	19	5/19	6
155	31	8/31	9
156	39	10/39	11
160	20	5/20	6
164	41	10/41	11
165	33	8/33	9
168	21	5/21	6
170	17	4/17	5
172	43	10/43	11
180	18	4/18	5
184	23	5/23	6
185	37	8/37	9
188	47	10/47	11
190	19	4/19	5
195	39	8/39	9
196	49	10/49	11
200	20	4/20	5
205	41	8/41	9
210	21	4/21	5
215	43	8/43	9
216	27	5/27	6
220	33	6/33	7
230	23	4/23	5
232	29	5/29	6
235	47	8/47	9
240	18	3/18	4
245	49	8/49	9
248	31	5/31	6
260	39	6/39	7
264	33	5/33	6
270	27	4/27	5
280	49	7/49	8
290	29	4/29	5
296	37	5/37	6
300	15	2/15	3
310	31	4/31	5
312	39	5/39	6
320	16	2/16	3
328	41	5/41	6
330	33	4/33	5
340	17	2/17	3
344	43	5/43	6
360	18	2/18	3

MARVIN

SLOTTER FOR BENCH MILLING MACHINES

NO. S-1070G   This many-purpose Slotting Attachment with roller chain drive makes speedy, simple work of scores of jobs that ordinarily demand extra care and consume extra time. Another example of practical design and versatility that are cutting cost corners for users of Marvin Machine Products!

When used with the Rotary Table, there is almost no end to the variety of slotting jobs which this attachment takes in it's daily stride. It is quickly and easily mounted. It can be set at angles to get draft in dies and other similar work. It can be pulled out beyond the travel of the table to handle overhanging work. It operates quietly and smoothly.

The Marvin Slotting Attachment in Operation with the Marvin Rotary Table.
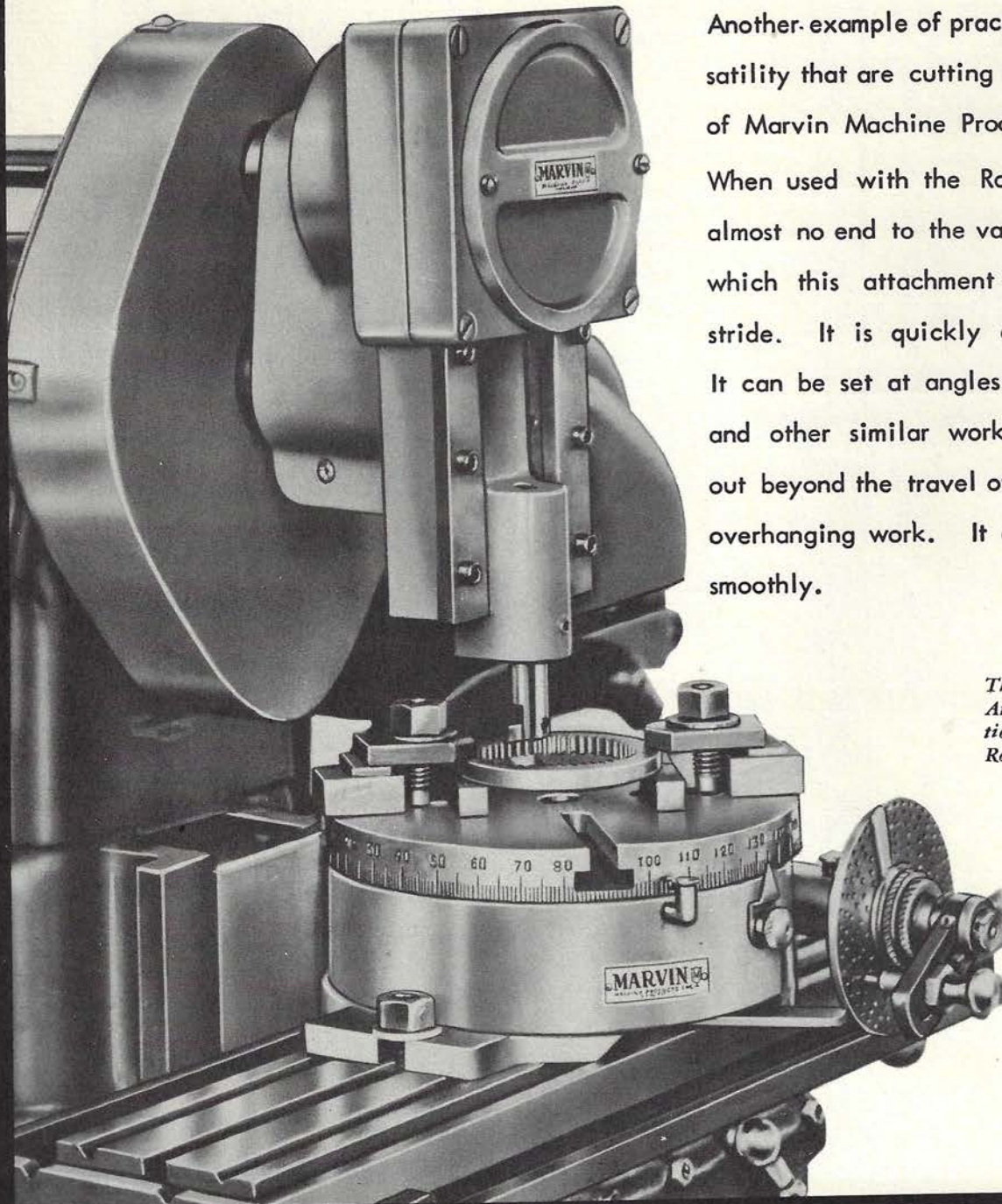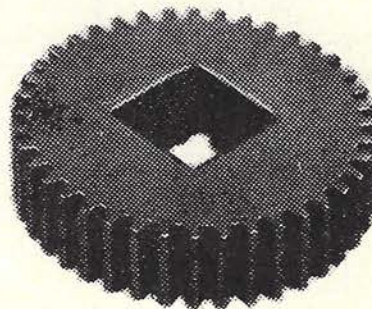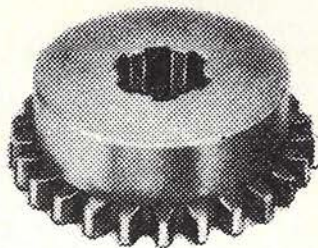
MARVIN

SLOTTER ATTACHMENT ACCESSORIES

It will pay you to get full information on the possible applications of the S–1070G Slotting Attachment in <u>your</u> shop.

Mounts on the overarm of your mill, attach the roller chain sprocket on spindle . . and you're ready to go. No extra motor is needed.

Stroke is adjustable from 0" to 2". Holder takes tools having 1/2" shank. Machined to fit a 1 1/2" overarm, and can be used on any-sized overarm by using a bushing or by turning down a special overarm. Sprocket for spindle has a 1" hole, which also can be re-machined to suit other sizes. Height 7 1/2", width 4 1/4". Shipping Weight 21 pounds.

AN <u>EXTRA</u> MACHINE TOOL, which puts Dies, Squared or Splined Holes, Internal Gears, and many other shapes within the scope of your bench mill.

SAMPLES OF WORK PRODUCED ON SLOTTER
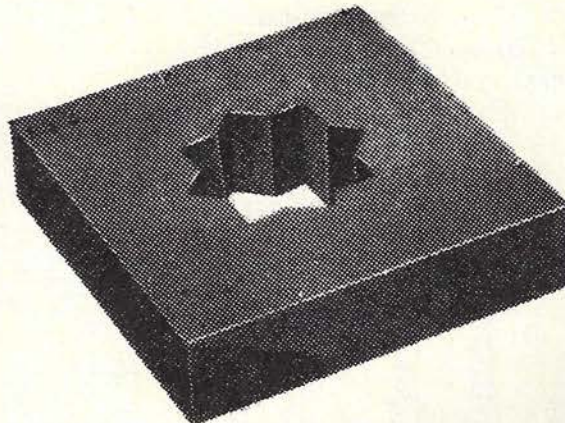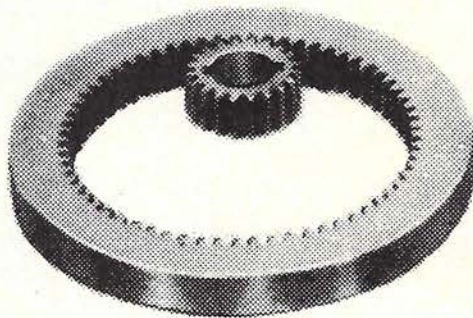
SLOTTING ACCESSORIES

#S-1 Marvin Spring Tool & Holder

#S-2 Marvin Tool Bit for #S-1, unground, H.S.S.

#S-3 Marvin Solid Tool for Slotter, unground

MARVIN ROTARY TABLE

NO. R-1102— An extremely rigid table . . nicely proportioned for bench mill, shaper, or drill press . . that cannot be matched for price. The 6" table is furnished with 3 plates each of which has 6 circles of holes, and has T slots for 3/8" bolts.

The table locks from the center . . insurance against tilting. Large cast iron worm wheel, hardened and ground worm (40.1 ratio), which can be disengaged. All castings are iron. Bottom of base has 3/8" slot with two keys. The three index plates, each 3" in diameter, each having 6 sets of holes, give a wide range of divisions. Height 2 5/8". Diameter 6 1/4". Shipping weight 18 pounds.

ROTARY TABLE ACCESSORY SET
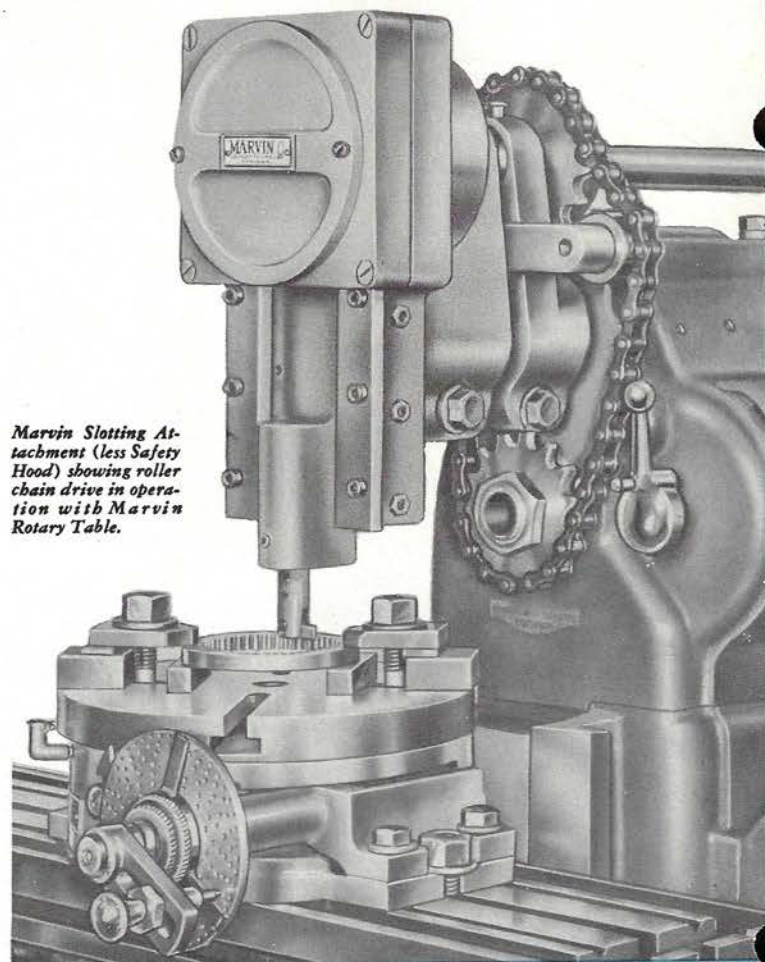
Marvin Slotting Attachment (less Safety Hood) showing roller chain drive in operation with Marvin Rotary Table.

MARVIN MACHINE PRODUCTS, INC., DETROIT, MICHIGAN

DIVISION CHART FOR ROTARY TABLE

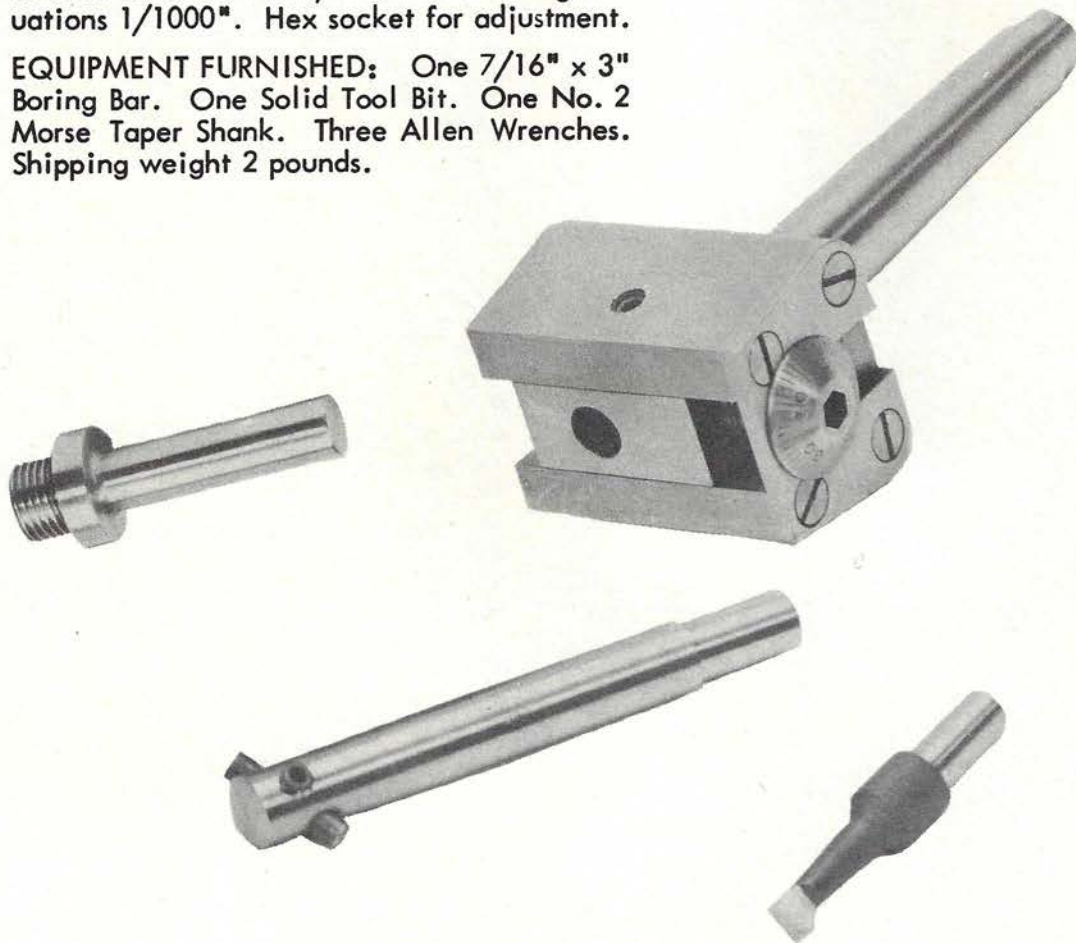| Number of Divisions	Index Circle	Number of Turns of Crank	Number of Holes Between Sector Arms	Number of Divisions	Index Circle	Number of Turns of Crank	Number of Holes Between Sector Arms	Number of Divisions	Index Circle	Number of Turns of Crank	Number of Holes Between Sector Arms
2	ANY	2.0	—	48	18	15/18	16	144	18	5/18	6
3	33	13-11/33	12	49	49	40/49	41	145	29	8/29	9
4	ANY	10	—	50	20	16/20	17	148	37	10/37	11
5	ANY	8	—	52	39	30/39	31	150	15	4/15	5
6	18	6-12/18	13	54	27	20/27	21	152	19	5/19	6
7	21	5-15/21	16	55	33	24/33	25	155	31	8/31	9
8	ANY	5	—	56	49	35/49	36	156	39	10/39	11
9	18	4-8/18	9	58	29	20/29	21	160	20	5/20	6
10	ANY	4	—	60	39	26/39	27	164	41	10/41	11
11	33	3-21/33	22	62	31	20/31	21	165	33	8/33	9
12	39	3-13/39	14	64	16	10/16	11	168	21	5/21	6
13	39	3-3/39	4	65	39	24/39	25	170	17	4/17	5
14	49	2-42/49	43	66	33	20/33	21	172	43	10/43	11
15	15	2-10/15	11	68	17	10/17	11	180	18	4/18	5
16	16	2-8/16	9	70	49	28/49	29	184	23	5/23	6
17	17	2-6/17	7	72	27	15/27	16	185	37	8/37	9
18	18	2-4/18	5	74	37	20/37	21	188	47	10/47	11
19	19	2-2/19	3	75	15	8/15	9	190	19	4/19	5
20	ANY	2	—	76	19	10/19	11	195	39	8/39	9
21	21	1-19/21	20	78	39	20/39	21	196	49	10/49	11
22	33	1-27/33	28	80	20	10/20	11	200	20	4/20	5
23	23	1-17/23	18	82	41	20/41	21	205	41	8/41	9
24	39	1-26/39	27	84	21	10/21	11	210	21	4/21	5
25	20	1-12/20	13	85	17	8/17	9	215	43	8/43	9
26	39	1-21/39	22	86	43	20/43	21	216	27	5/27	6
27	27	1-13/27	14	88	33	15/33	16	220	33	6/33	7
28	49	1-21/49	22	90	27	12/27	13	230	23	4/23	5
29	29	1-11/29	12	92	23	10/23	11	232	29	5/29	6
30	39	1-13/39	14	94	47	20/47	21	235	47	8/47	9
31	31	1-9/31	10	95	19	8/19	9	240	18	3/18	4
32	20	1-5/20	6	98	49	20/49	21	245	49	8/49	9
33	33	1-7/33	8	100	20	8/20	9	248	31	5/31	6
34	17	1-3/17	4	104	39	15/39	16	260	39	6/39	7
35	49	1-7/49	8	105	21	8/21	9	264	33	5/33	6
36	27	1-3/27	4	108	27	10/27	11	270	27	4/27	5
37	37	1-3/37	4	110	33	12/33	13	280	49	7/49	8
38	19	1-1/19	2	115	23	8/23	9	290	29	4/29	5
39	39	1-1/39	2	116	29	10/29	11	296	37	5/37	6
40	ANY	1	—	120	39	13/39	14	300	15	2/15	3
41	41	40/41	41	124	31	10/31	11	310	31	4/31	5
42	21	20/21	21	128	16	5/16	6	312	39	5/39	6
43	43	40/43	41	130	39	12/39	13	320	16	2/16	3
44	33	30/33	31	132	33	10/33	11	328	41	5/41	6
45	18	16/18	17	135	27	8/27	9	330	33	4/33	5
46	23	20/23	21	136	17	5/17	6	340	17	2/17	3
47	47	40/47	41	140	49	14/49	15	344	43	5/43	6
								360	18	2/18	3

MARVIN micrometer
BORING HEAD

Another new Marvin precision tool that is widely versatile, of highest quality, small in size and low in cost. Designed and built by practical shop engineers for use on Milling Machines, Boring Machines, Drill Presses and Lathes . . .

SPECIFICATION: Catalogue No. M-1000-T. Cast iron body 2 1/8" x 1 3/4". Close-fitting slide, adjustable screw to snug up slide or lock it. Slide has 3/8" travel. Dial graduations 1/1000". Hex socket for adjustment.

EQUIPMENT FURNISHED: One 7/16" x 3" Boring Bar. One Solid Tool Bit. One No. 2 Morse Taper Shank. Three Allen Wrenches. Shipping weight 2 pounds.