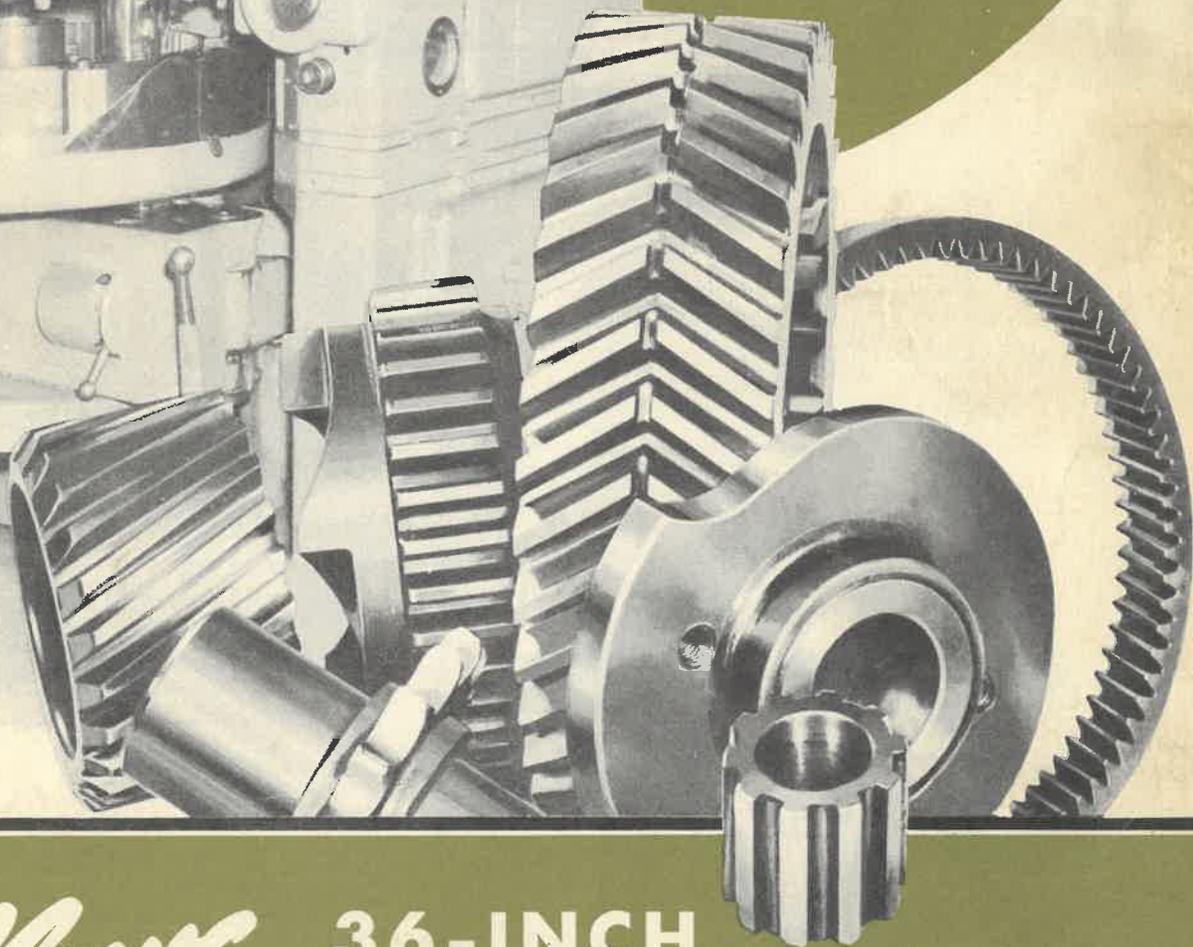
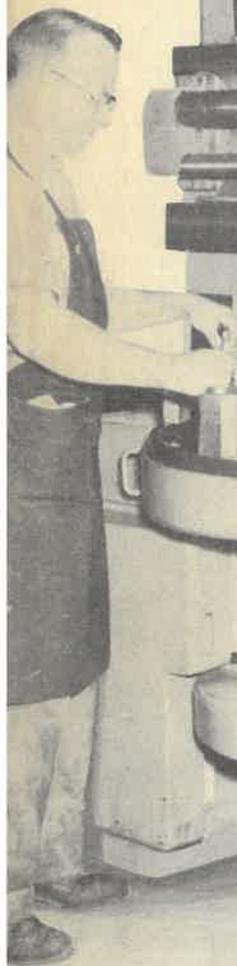


Speed

**IN ALL-PURPOSE
GEAR CUTTING**

for spur gears . . .
helical gears . . .
herringbone gears . . .
internal gears . . .
splines, cams and
other profiles

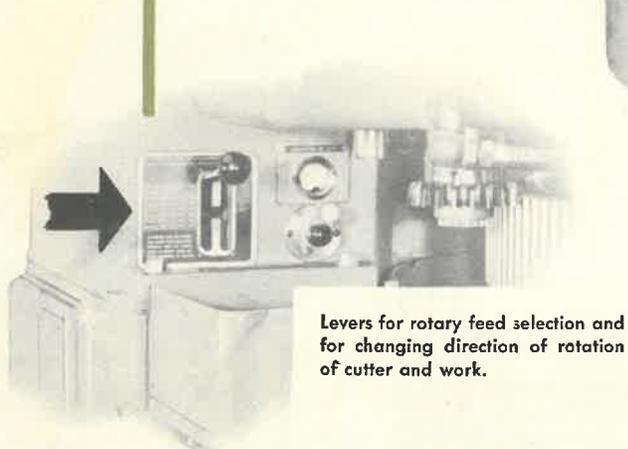
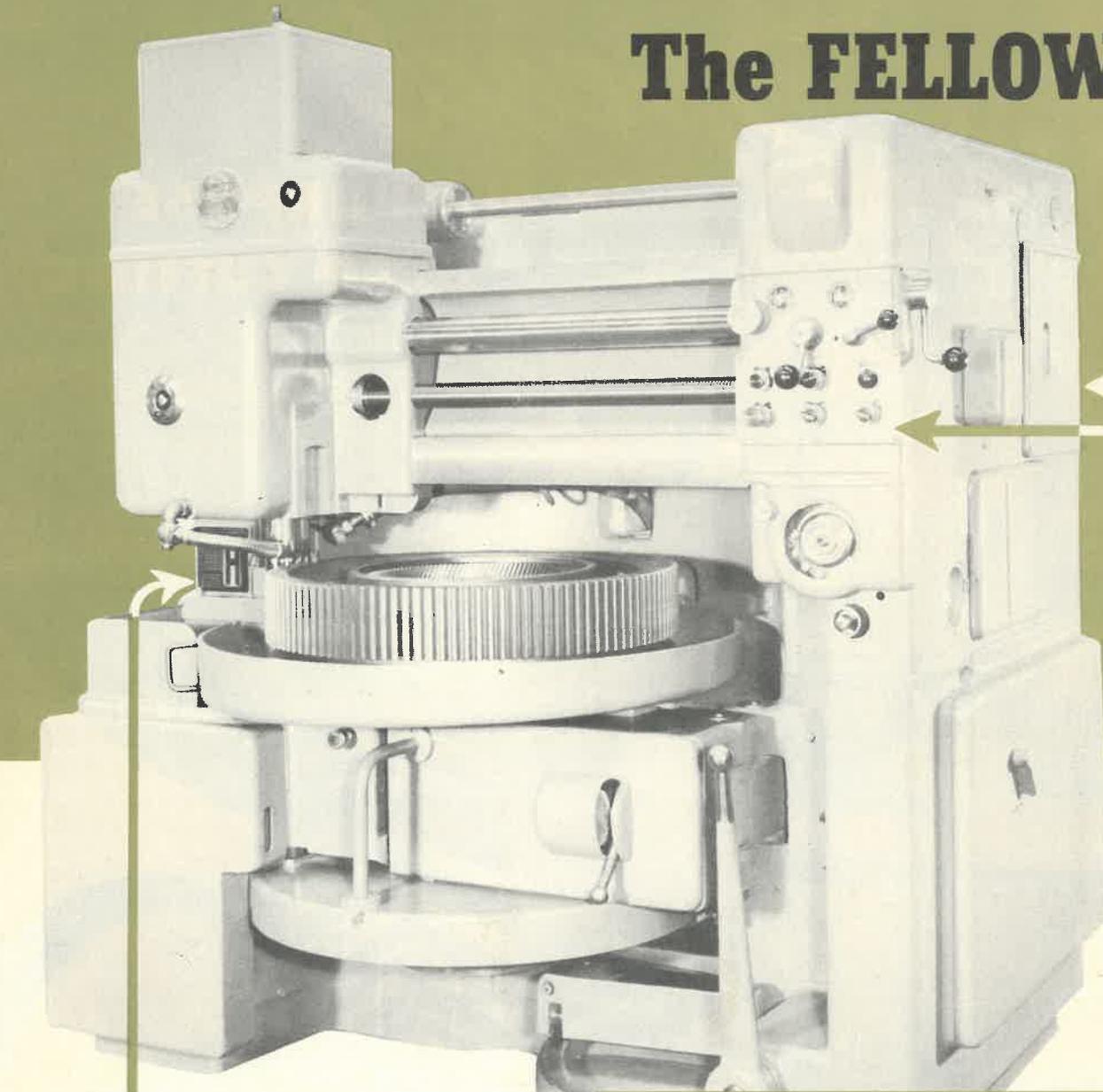


Fellows

**36-INCH
GEAR SHAPER**

The FELLOWS

AL



Levers for rotary feed selection and for changing direction of rotation of cutter and work.

PRINCIPAL SPECIFICATIONS

MAXIMUM CAPACITIES:

Pitch diameter (internal & external)	36 in.
Pitch Spur	3
Helical	4/5
Face width (internal & external)	6 in.
Helix angle (with standard guides)	45°

PRINCIPAL DIMENSIONS:

Overall depth	4 ft. 7½ in.
Overall length	6 ft. 2 in.
Overall height	7 ft.

WEIGHT:

Of machine (completely equipped) . . . 12,400 lbs. approx.

STANDARD EQUIPMENT:

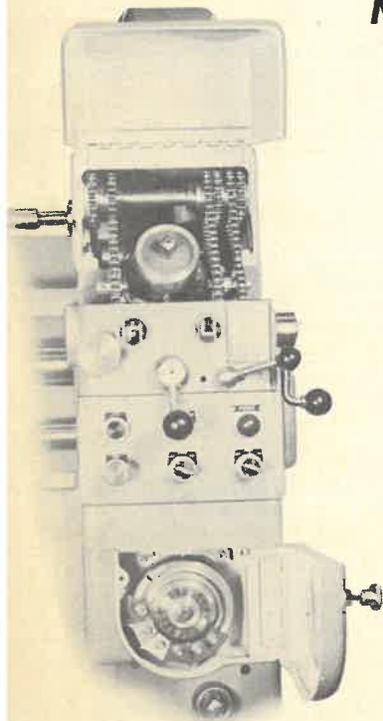
Lubricating pump and all connections; compound pump, change and feed gears to meet requirements.

SPECIAL EQUIPMENT:

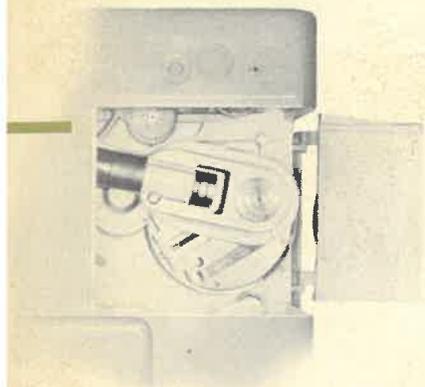
Lubricating pump and machine motors, outfits, cutters.

All-purpose 36" Gear Shaper

MAXIMUM VERSATILITY PLUS HIGH PRODUCTION



Quick selection of cutter speeds are grouped with "Start", "Jog" and "Stop" push buttons on this centralized control panel. Dial below controls setting for number of cuts.



Crank mechanism, and stroke setting scale. Note rugged construction, typical of all operating members of this machine.

★ Heavy Cuts at High Speed

Exceptional rigidity in this machine makes possible the taking of extra heavy cuts with rapid stock removal. Four different rotary feeds are instantly available through a quick-change gear shift. Eight (or more) additional feeds can be had simply by changing two "pick-off" gears.

★ Quick Selective Cutting Speeds

Twelve different cutter-strokes-per-minute are provided by a "quick-selective" control panel. The operator can rapidly set the speed best adapted to the material being cut. This is of special advantage in the jobbing shop, where work in variety is handled.

★ Simple Operation

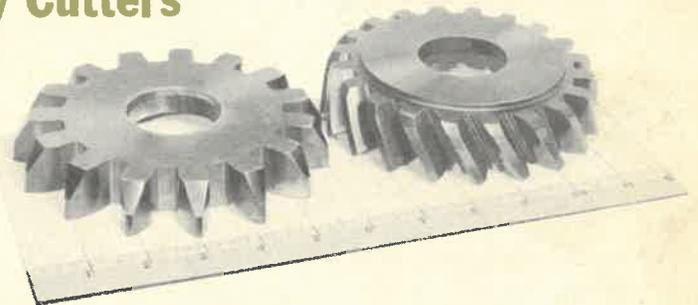
Every operating convenience is provided for. Push button control is an obvious advantage. With the number of roughing and finishing cuts to be taken pre-set on a dial device (see illustration), the machine goes through the complete cycle and stops automatically. An easily operated lever-controlled mechanism is provided to swing the apron open for removal of large or heavy work.

★ Quick Set-up Flexibility

Another outstanding advantage of the 36-inch Gear Shaper is the speed with which it can be changed over from one job to another. This is evidenced by the convenience of the combination of setting devices and adjustments pictured in detail here.

★ Large Heavy-duty Cutters

Spur or Helical.

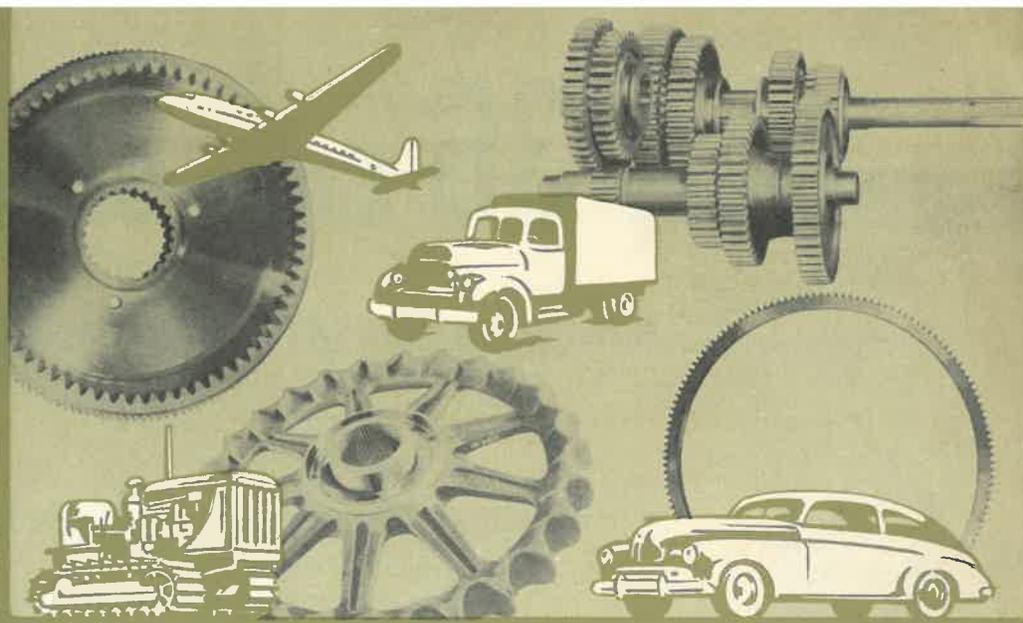


A one-piece cutter-spindle coupled with a driving mechanism of extremely rigid design makes it possible to employ the use of large diameter heavy-duty cutters. This naturally brings a greater number of teeth into contact with the work, and results in maximum stock removal.

★ Precision Always

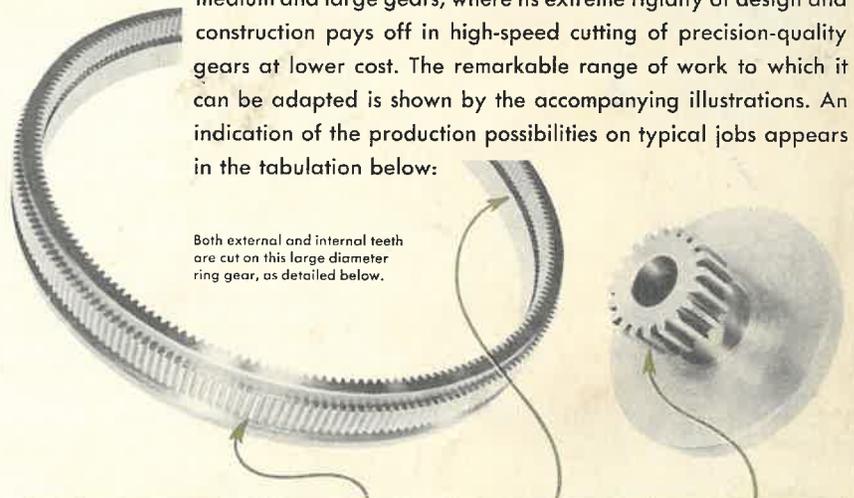
The combination of many new design features in this all-purpose 36-inch Gear Shaper, makes it a machine from which a gear production department, or a jobbing shop, can expect not only speed in work output, but speed coupled with extreme accuracy.

**ADAPTED
TO BOTH**
the Jobbing Shop and
the High-Production
Plant



Demonstrating 36-inch Gear Shaper SUPERIORITY

This machine has demonstrated production advantage on various medium and large gears, where its extreme rigidity of design and construction pays off in high-speed cutting of precision-quality gears at lower cost. The remarkable range of work to which it can be adapted is shown by the accompanying illustrations. An indication of the production possibilities on typical jobs appears in the tabulation below:



	EXTERNAL GEAR	INTERNAL GEAR	SPUR PINION
Material	SAE 3250 Steel 52C Rockwell	SAE 3250 Steel 52C Rockwell	SAE 5030
Pitch Diameter, Inches	37.166	34.666	2.500
Number of Teeth	223	208	15
Diametral Pitch	6	6	6
Pressure Angle	20°	20°	20°
Face Width, Inches	2.25	2.25	1.125
Number of Cuts	Two	Two	One
Roughing: Feed per Stroke	.0225"	.0225"	—
Strokes per min.	58	58	—
Finishing: Feed per Stroke	.027"	.027"	.043"
Strokes per min.	58	85	300
Cutting Time	2 hrs. 48¾ min.	2 hrs. 15 min.	1 min. 18 sec.

It will pay you to investigate the speed of this machine for your specific job, and to examine further the range of its application. Time esti-

mates on your work will be furnished without obligation. Contact the Fellows branch office nearest you, or write:—

THE FELLOWS GEAR SHAPER CO., Springfield, Vermont

Room 7706 Empire State Bldg., 350 Fifth Ave., New York 1, N. Y. 616 Fisher Bldg., Detroit 2, Mich.
640 West Town Office Bldg., 2400 West Madison St., Chicago 12, Ill.