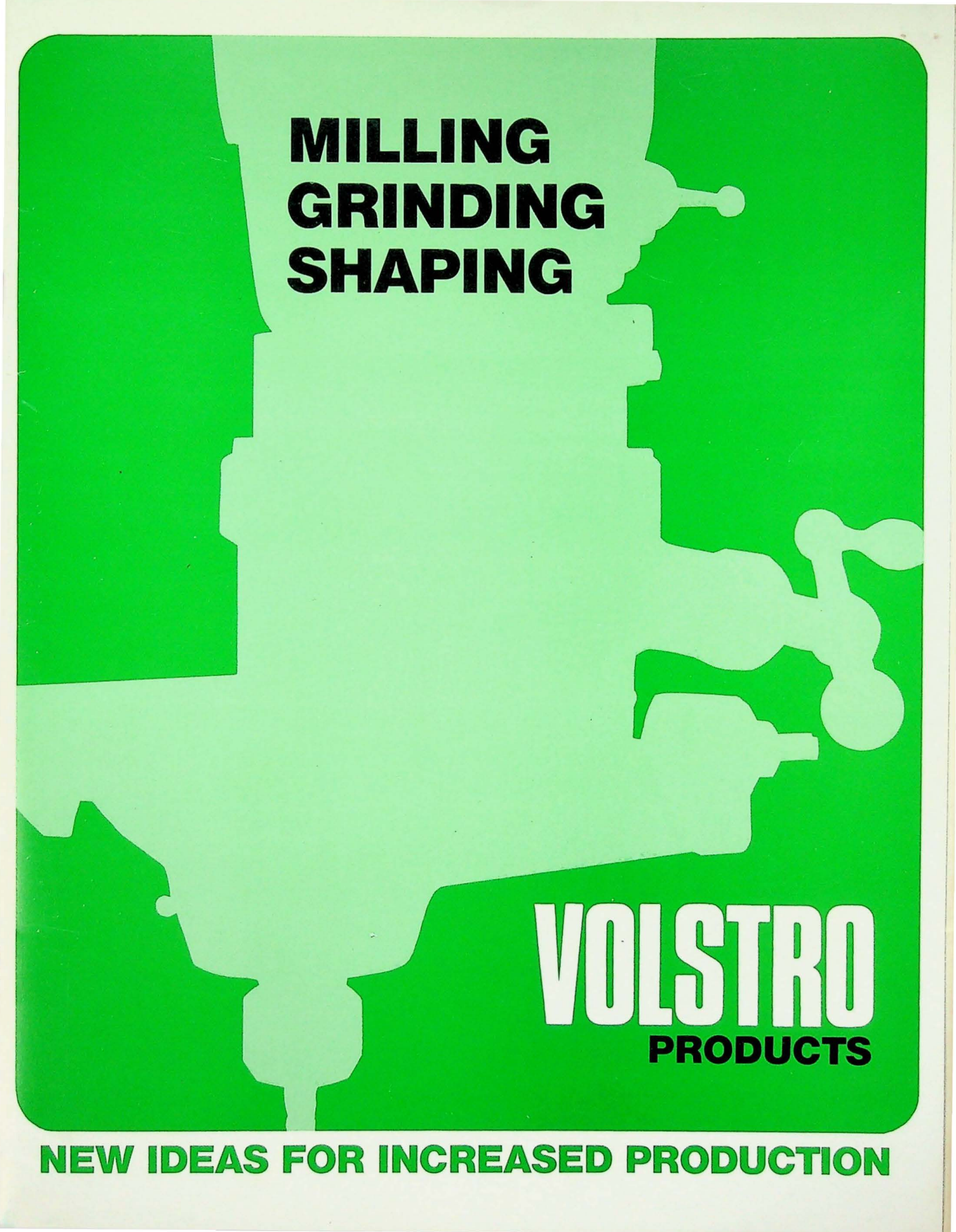




**MILLING
GRINDING
SHAPING**

VOLSTRO
PRODUCTS

NEW IDEAS FOR INCREASED PRODUCTION

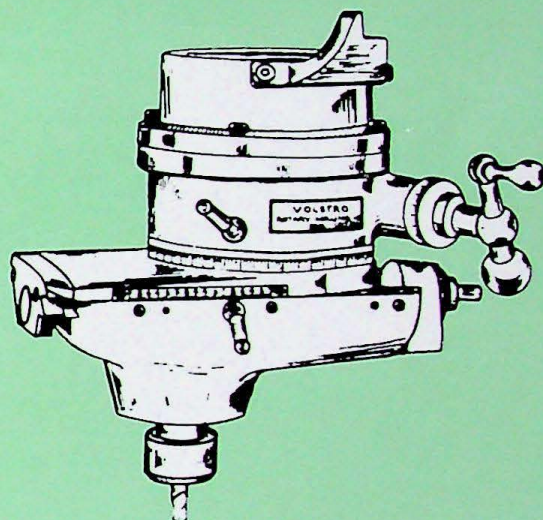
VOLSTRO

PRODUCTS

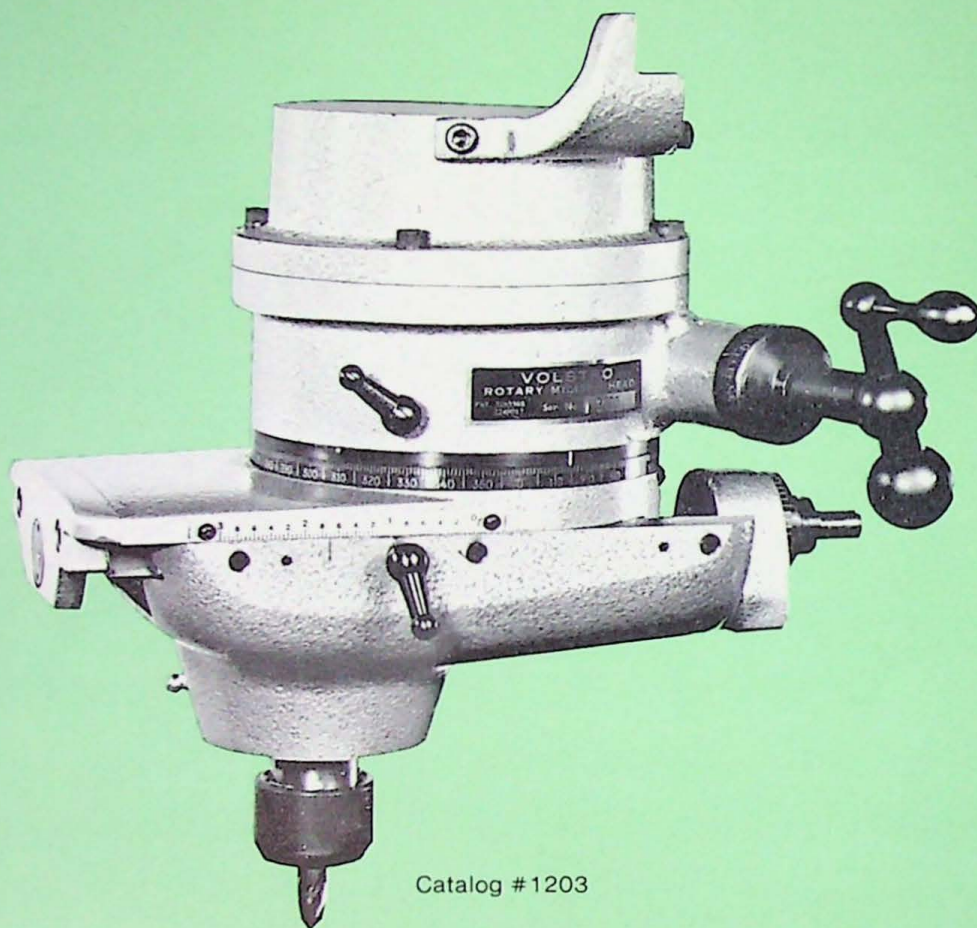
For new concepts in milling, grinding, and shaping, manufacturers turn to Volstro. The heads and attachments outlined in this catalog feature design innovations created to save time with quick mounting and exceptional versatility.

All Volstro equipment is manufactured for long life, durable performance and high accuracy.

For quality manufacturing of intricate parts, take a look at the advantages of the Volstro lineup.



Rotary Cross-slide Milling Head	1
Volstro Concept of Milling	3
Shaper-Slotter	5
Contour Vise	9
Milling Attachments	11
Contour Grinder	15
Air Spindle	19
Speed Increaser	21



Catalog #1203

THE VOLSTRO® ROTARY CROSS-SLIDE MILLING HEAD

- Mill any combination of angles and radii with a single set up.
- Install on milling machine and operate in less than 2 minutes.
- Mill inside and outside diameters with power feed.

In many applications the Volstro Milling Head replaces cumbersome rotary work tables.

Intricate operations such as any combination of angles and radii, angles tangent to radii, and radius blending into radius—can be performed with a single set up.

The Volstro Head has a cross slide motion that can be set off center and rotated in a continuous 360 degree planetary motion to mill inside and outside diameters with either manual or power feed.

Cross slide movement range is 0" to 3". With optional extension kit, movement range is 1" to 4".

THE VOLSTRO® ROTARY CROSS-SLIDE MILLING HEAD

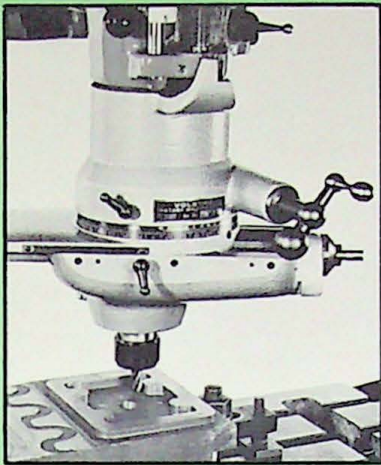
VOLSTRO® III MILLING HEAD

The VOLSTRO III features a 4 degree rotary dial with 5 minute graduations for rotational positioning, like that of a rotary table.

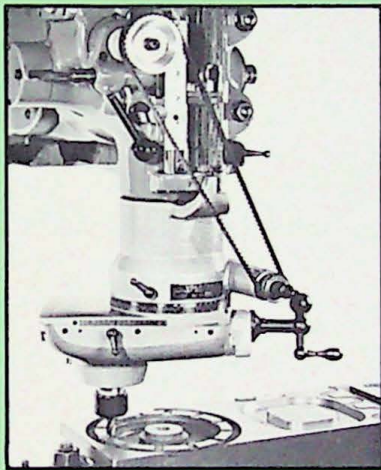
Two-piece top construction allows interchangeability between different milling machine models.

Two-piece spindle adaptor permits in-plant conversion to different tapers.

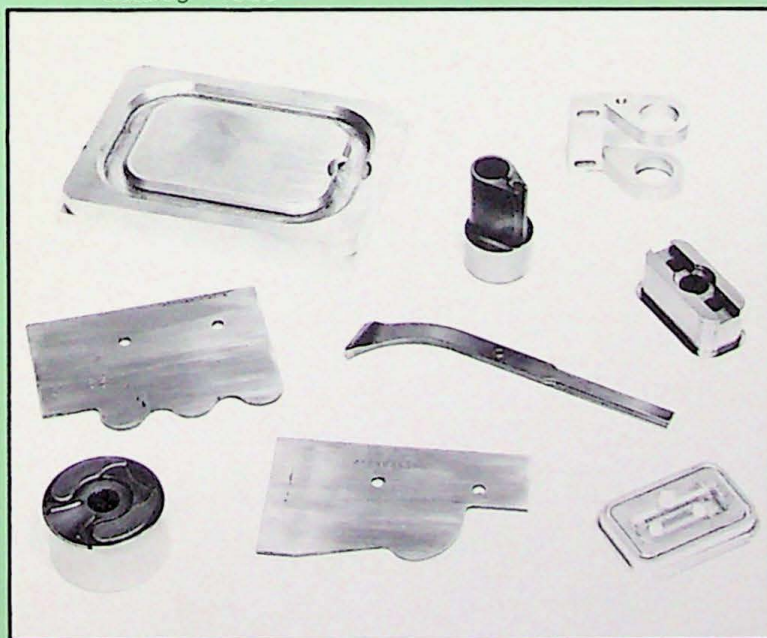
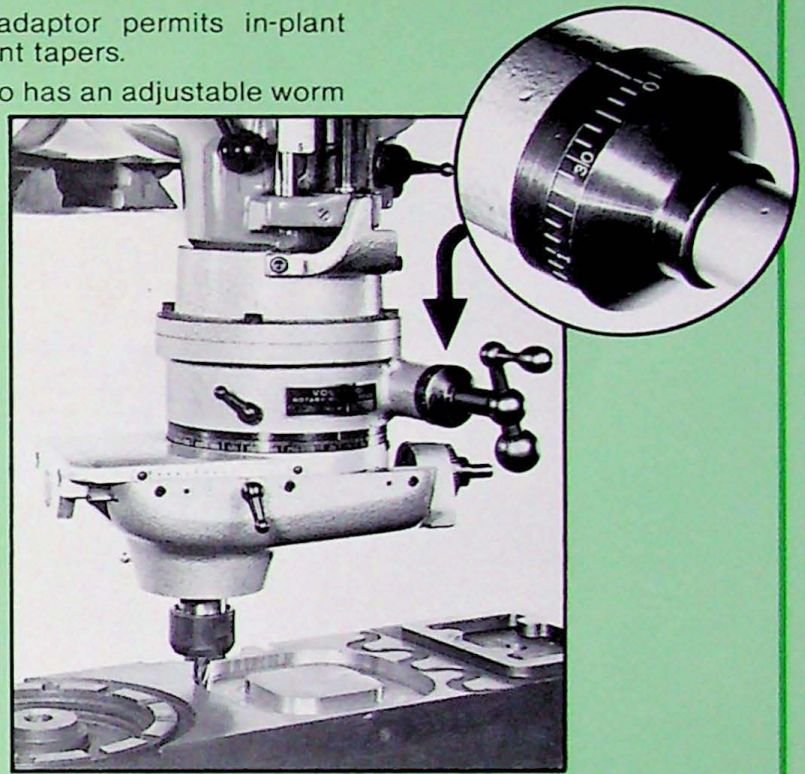
The VOLSTRO III also has an adjustable worm shaft.



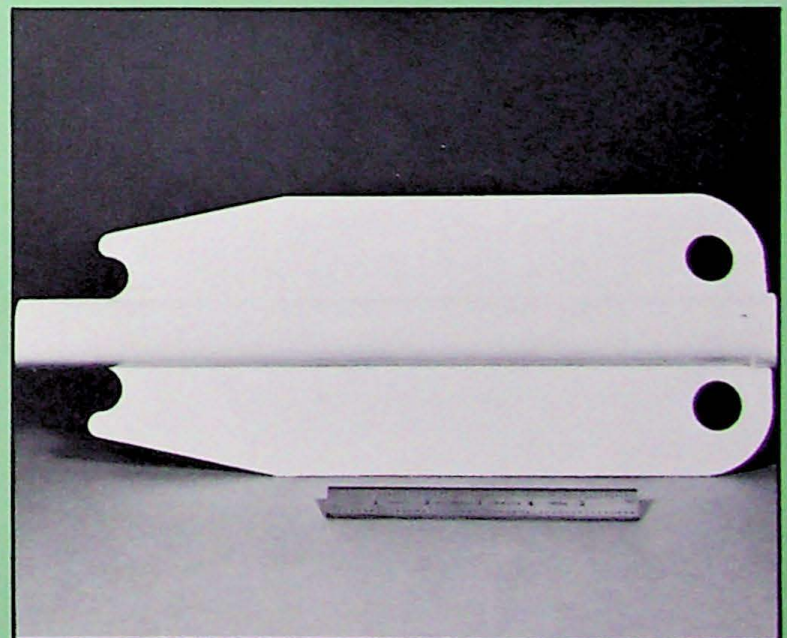
Ideal for templates and masters, accurate corner rounding, precision form milling, special tools, molds, patterns, dies, punches, E.D.M. electrodes, etc.



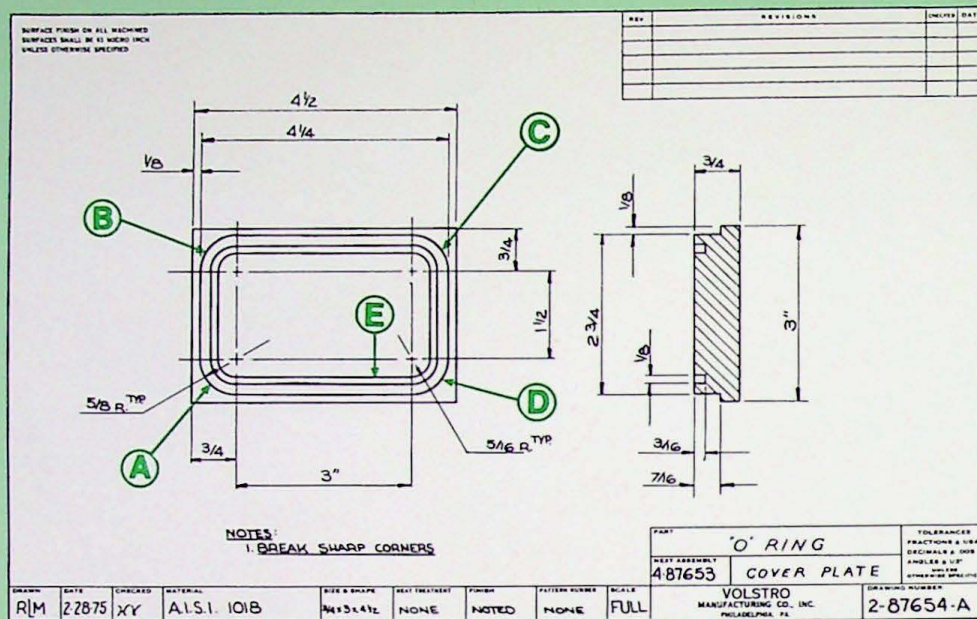
Catalog #1000



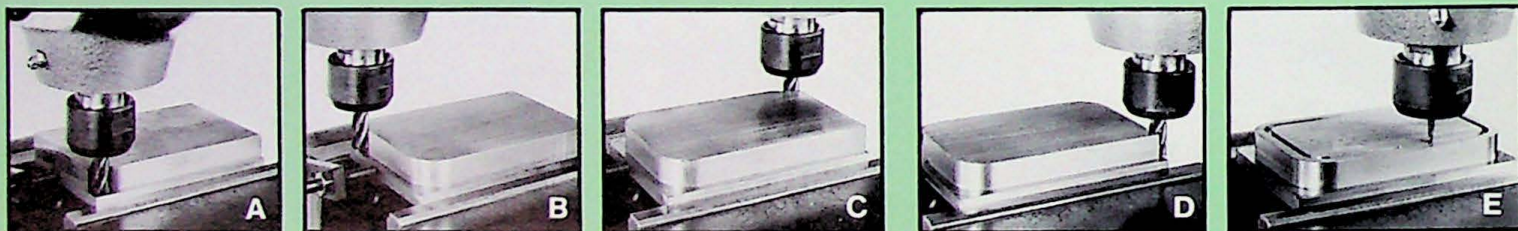
Intricate parts milled in a single set up with Volstro Milling Head.



Finished plastic part from mold completely milled with Volstro Milling Head.



THE VOLSTRO® CONCEPT OF MILLING



The radius to be milled is set with the cross slide (5/8").

Mill straight "D" to "A" with table travel.

Mill radius "A" by rotating Volstro 90°.

Straight side "A" to "B" with cross table travel.

Radius "B" rotate Volstro 90°.

Straight "B" to "C" with table travel.

Radius "C" rotate Volstro 90°.

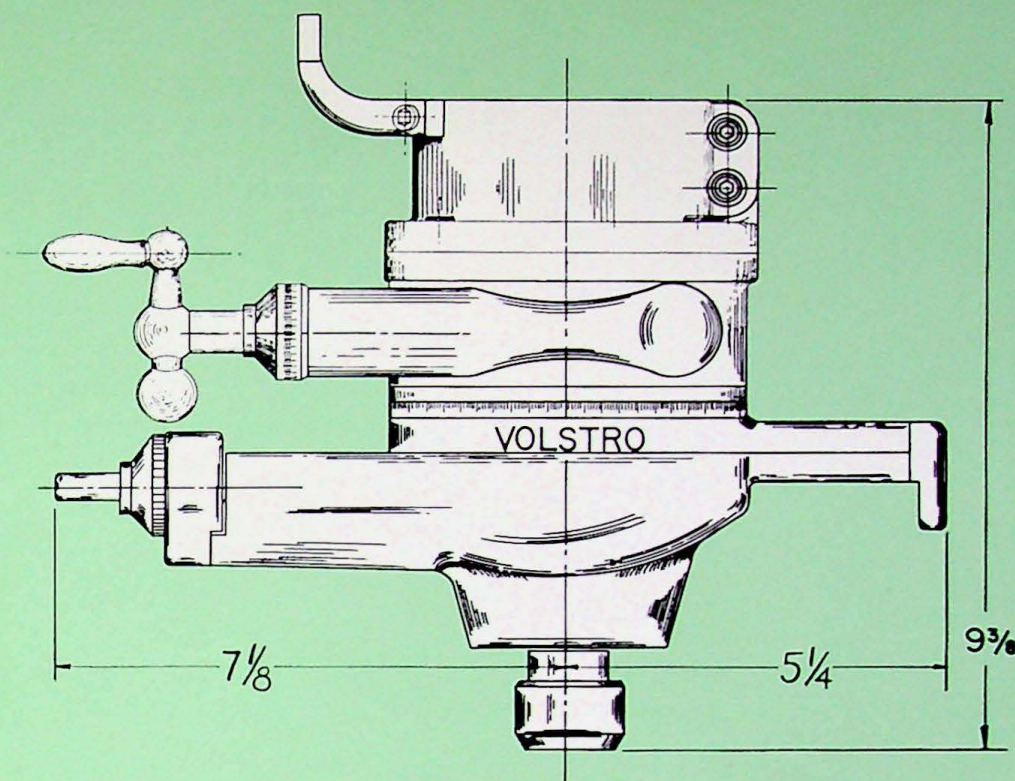
Straight "C" to "D" with cross table travel.

Radius "D" rotate Volstro 90°.

Radius "D" rotate Volstro 90° back to starting point.

"O" ring groove "E" milled in same manner as above, without cutter leaving work piece.

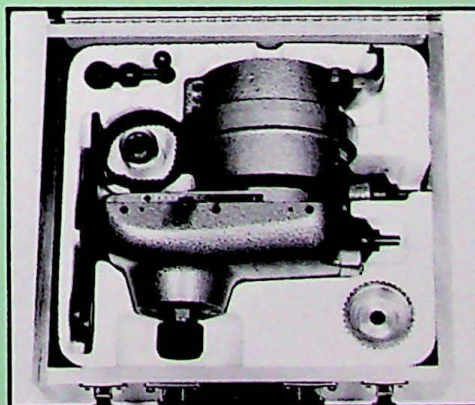
THE VOLSTRO® ROTARY CROSS-SLIDE MILLING HEAD



- ☐ Housings are fine grain cast iron alloy
 - ☐ Head has 15 bearings
 - ☐ Hardened gears
- ☐ Collet shaft mounted with precision grade Timken tapered roller bearings
 - ☐ Hardened and thread ground lead screw
 - ☐ Locating stop eliminates indicating for angular alignment
- ☐ Cross slide — .001 graduations, .050 quick reading scale, 3" offset
- ☐ Rotational feed — 360° continuous 1 degree increments — 5 min. readings
 - ☐ Hardened and ground shafts
 - ☐ Hardened and ground collet retainer
 - ☐ Available in metric models
- ☐ **Special adaptations available upon request**

STANDARD EQUIPMENT

Hardwood Case
Rotational Power Feed
(Timing Belt and Belt Pulleys)
Ball Crank Handle
2 Wrenches



OPTIONAL EQUIPMENT

Extension Kit
Extension Draw Bar
Collets
1/8" - 3/16" - 1/4"
5/16" - 3/8" - 7/16" - 1/2"
4^{mm} 6^{mm} 8^{mm} 10^{mm}
12^{mm} 14^{mm} 15^{mm} 16^{mm}
Spare Power Feed Belt
Spare Ball Crank Handle



Catalog #7000

THE VOLSTRO® SHAPER-SLOTTER AND FILING ATTACHMENT

- Cuts any material, in all four directions
- Shapes, slots, notches, files

The Volstro shaper-slotter and filing attachment mounts quickly and easily on any American or foreign milling machine.

An indicating feature allows easy pick-up and quick location of workpiece.

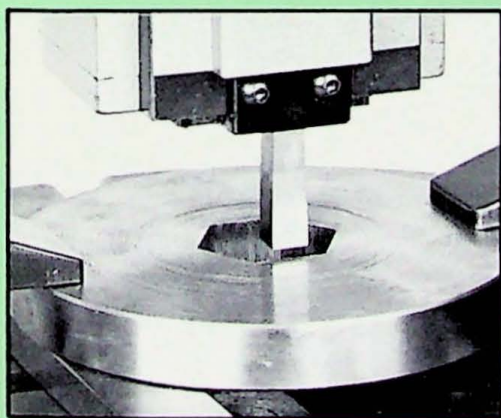
Costly broaches are not needed. The shaper-slotter cuts any material, in all four directions, using standard 3/8" machine files and tool bits.

Shaper-slotter cutting tools are available in 3/16" x 3/8", 1/4" x 3/8", and 3/8" x 3/8" sizes.

THE VOLSTRO® SHAPER-SLOTTER AND FILING ATTACHMENT

SHAPES:

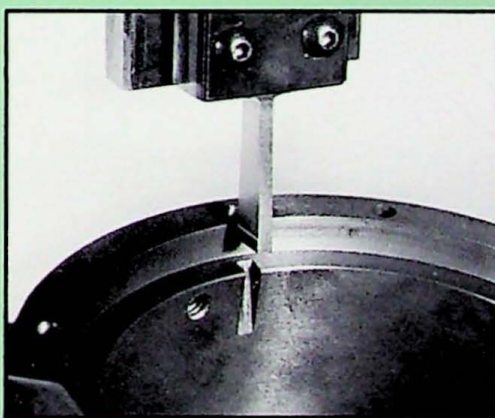
Hexagons, strippers, dies, molds and templates



Hexagon bore with Volstro shaper-slotter and rotary table.

SLOTS AND NOTCHES:

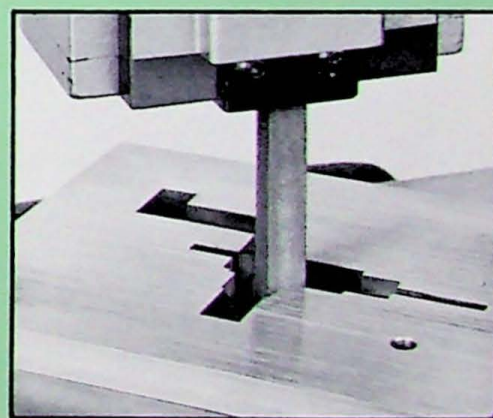
Keyways, sharp corners, angular slots and reliefs



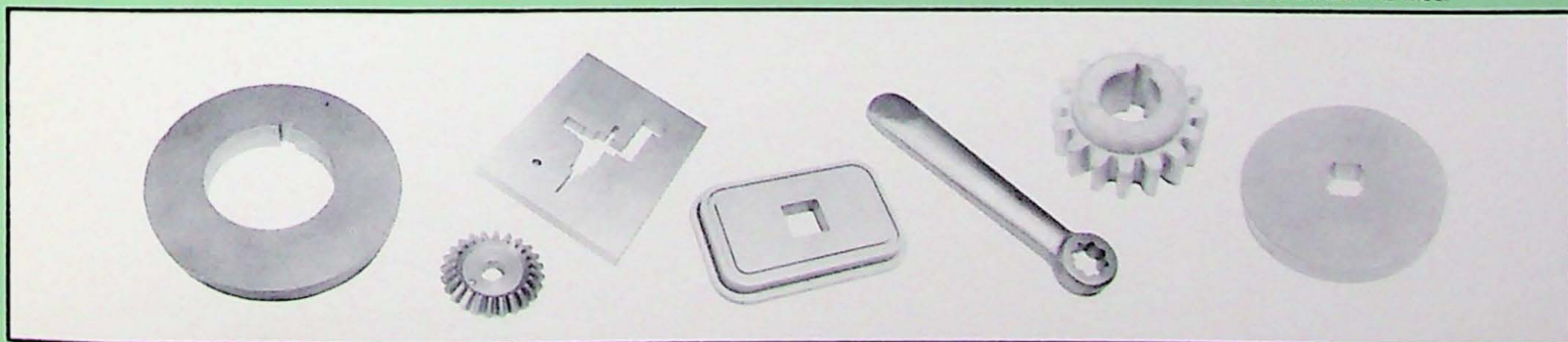
Angular slot in bore of workpiece

FILES:

Templates, radii, dies and strippers

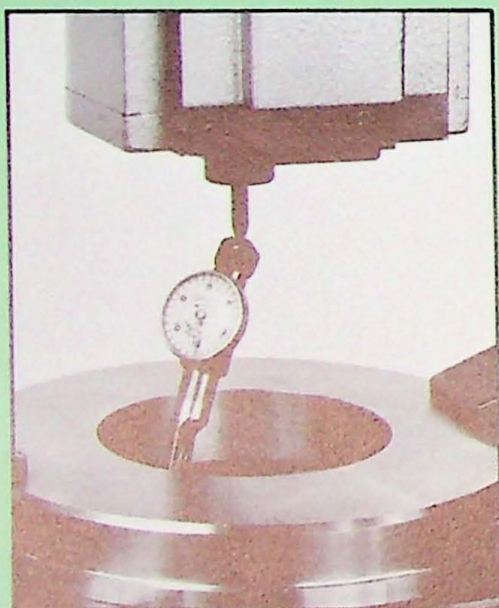


Typical operation as filing attachment using standard machine files.

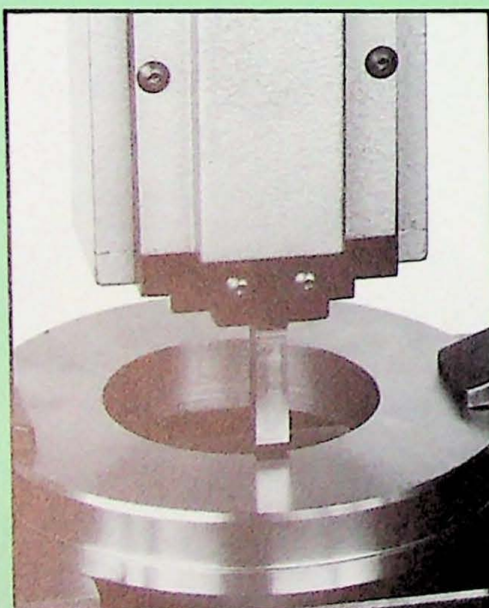


Intricate parts made with Volstro® shaper-slotter.

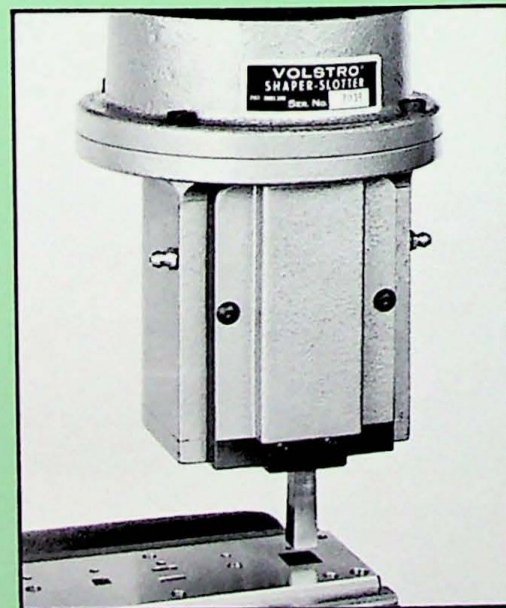
**THE VOLSTRO® SHAPER-SLOTTER AND FILING
ATTACHMENT CAN BE USED ON ALL AMERICAN
AND FOREIGN MILLING MACHINES**



Indicating workpiece from center line of machine spindle.

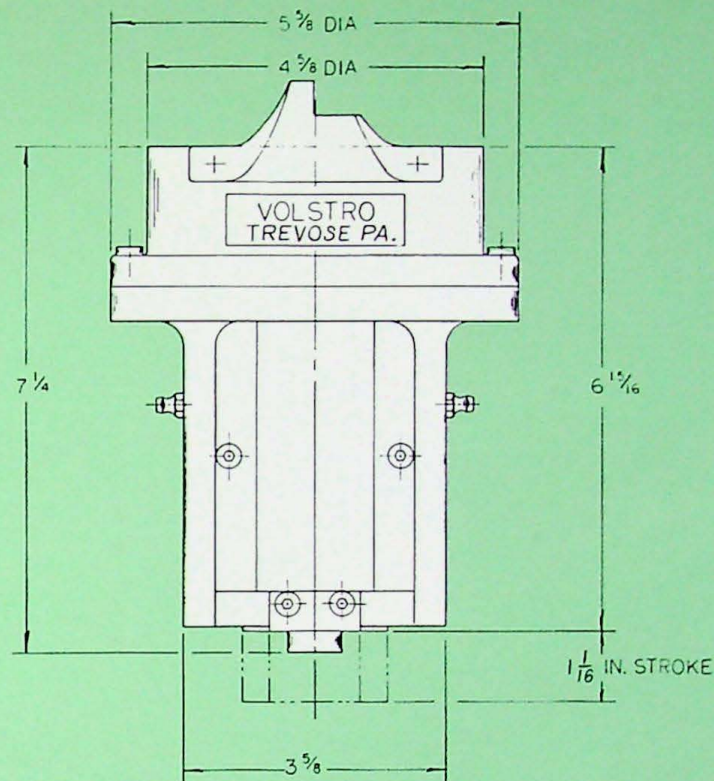


After indicating, keyway is cut on center line of bore.

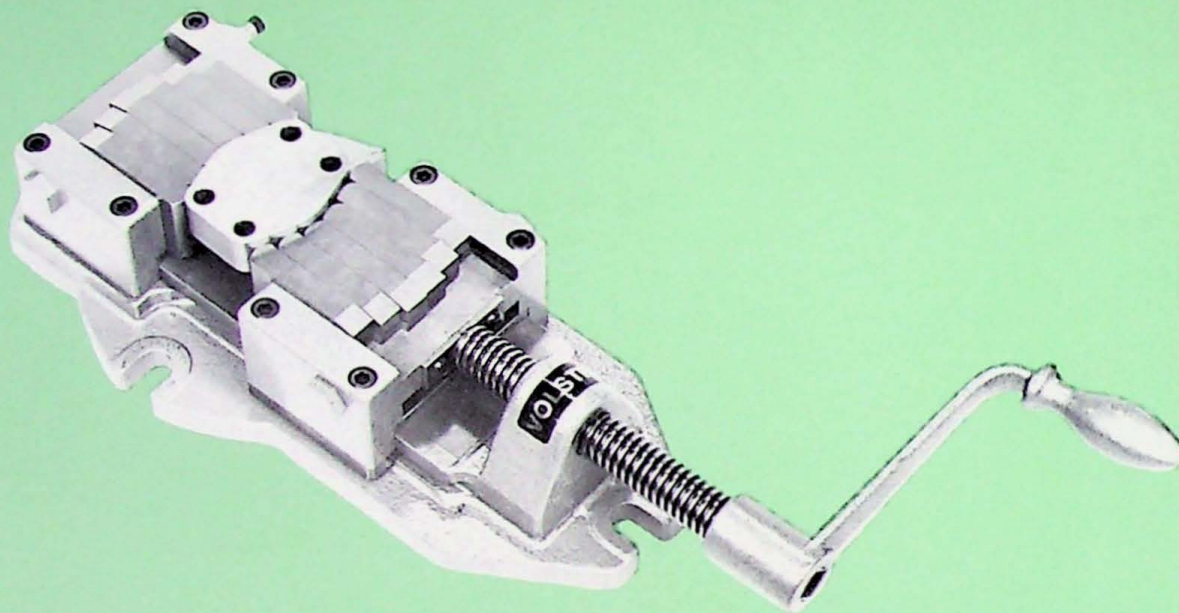


No expensive broach needed for this operation.

THE VOLSTRO® SHAPER-SLOTTER AND FILING ATTACHMENT



- ☐ All moving parts are hardened and ground
 - ☐ Timken tapered roller bearings
 - ☐ Stop finger for quick set-up
- ☐ Housings: Fine grain cast iron alloy
 - ☐ Weight: 22 lbs.
 - ☐ 1 1/16" stroke
- ☐ Speeds to 800 strokes per minute
- ☐ **Special adaptations available upon request**



Catalog #11000

VOLSTRO® CONTOUR VISE

- Ideal for large volume production
- Hardened tool steel jaws

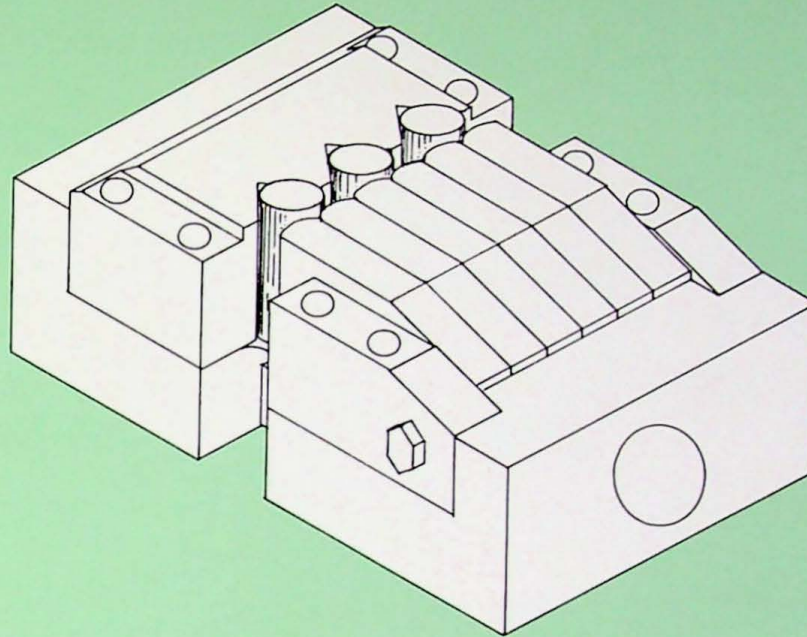
The Volstro Contour Vise eliminates many expensive clamping fixtures.

12 hardened tool steel jaws embrace the workpiece through the medium of a hydraulic equalizing system.

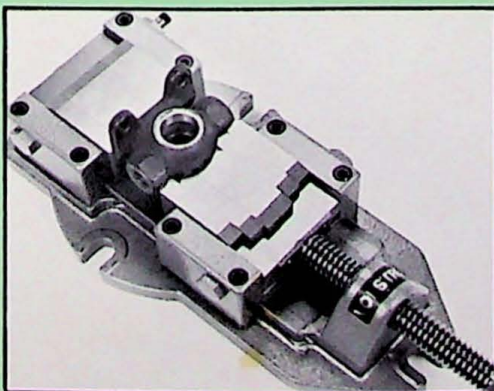
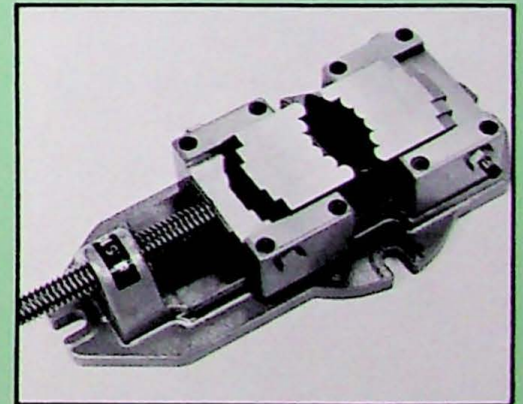
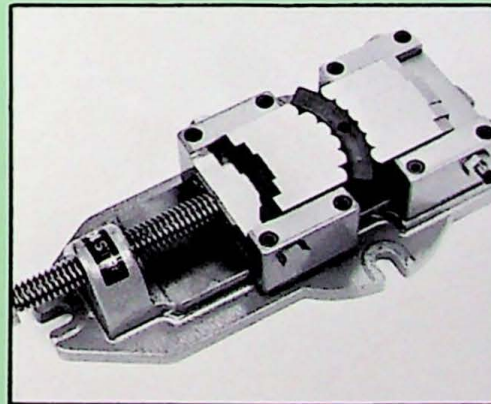
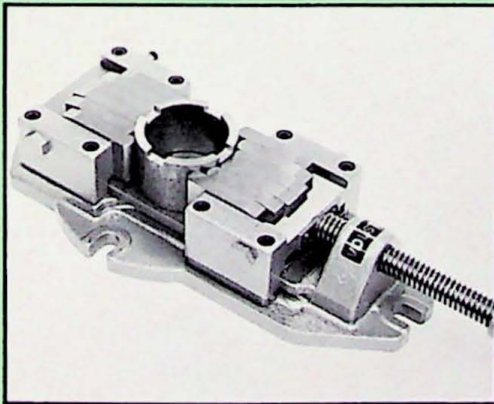
The Contour Vise is a time saver for tool work, castings, round parts, intricate configurations, prototype construction or large volume production.

The jaws on one side may be locked in place for repetition.

THE VOLSTRO® CONTOUR VISE



Versatility of vise with custom jaws is shown.



CONSTRUCTION DETAILS

Length of jaws	3"
Height of jaws	1¾"
Max. opening for flat part	3"
Max. opening for round part	3½"
Overall height	3¼"
Size of base	7" X 15"
Weight	35 lbs.



Straight housing
Catalog #6009



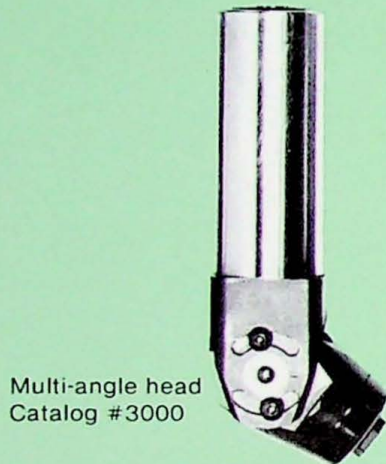
"L" housing
Catalog #2000

Catalog #1155



Catalog #6003

Special straight housing



Multi-angle head
Catalog #3000



Right angle head
Catalog #4000



Straight head
Catalog #5000

VOLSTRO® MILLING ATTACHMENTS

- Three interchangeable heads
- Multi-angle, right angle, straight
- Straight and "L" housings

Volstro offers further adaptability with three interchangeable heads. Each may be used with most American and foreign Milling Machines as well as tracer-equipped and N/C machines.

THE VOLSTRO® QUICK-MOUNT MILLING ATTACHMENTS

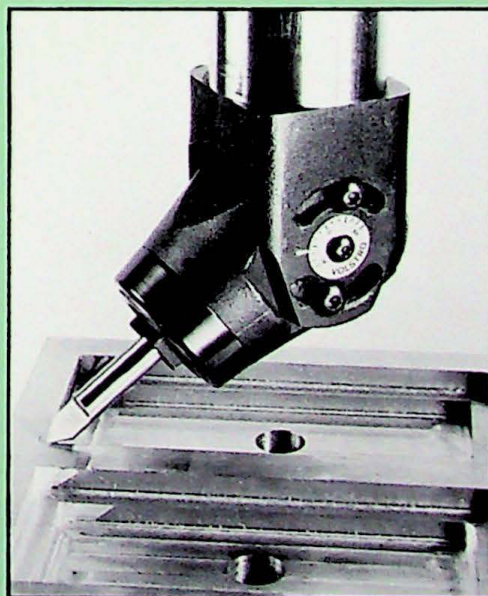
VOLSTRO® MULTI-ANGLE HEAD

The Volstro multi-angle head with straight housing is used to mill chamfers and angles with standard end mills. It also mills internal grooves and keyways.

Angle is adjustable from 0-90° with 360° rotation. A 360° dial is mounted on housing. Angles may be set quickly for sharp corners and chamfer milling.

Multi-angle head telescopes in and out.

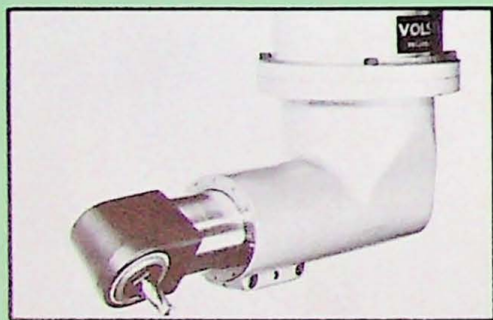
Volstro® Multi-angle Milling Head



Volstro® Multi-angle Milling Head with straight housing



Volstro® Right Angle Head with "L" housing



VOLSTRO® RIGHT ANGLE HEAD

The Volstro Right Angle Head is available with straight housing, or with "L" housing to extend milling capacity 10" in all directions.

The head can be rotated 360°, with degree dial mounted on housing.

Telescopes in and out for the additional reach often required for blind keyways, splines, pockets, oil grooves, and internal drilling in confined areas.

Volstro® Right Angle Head with straight housing



Volstro® Straight Head with "L" housing



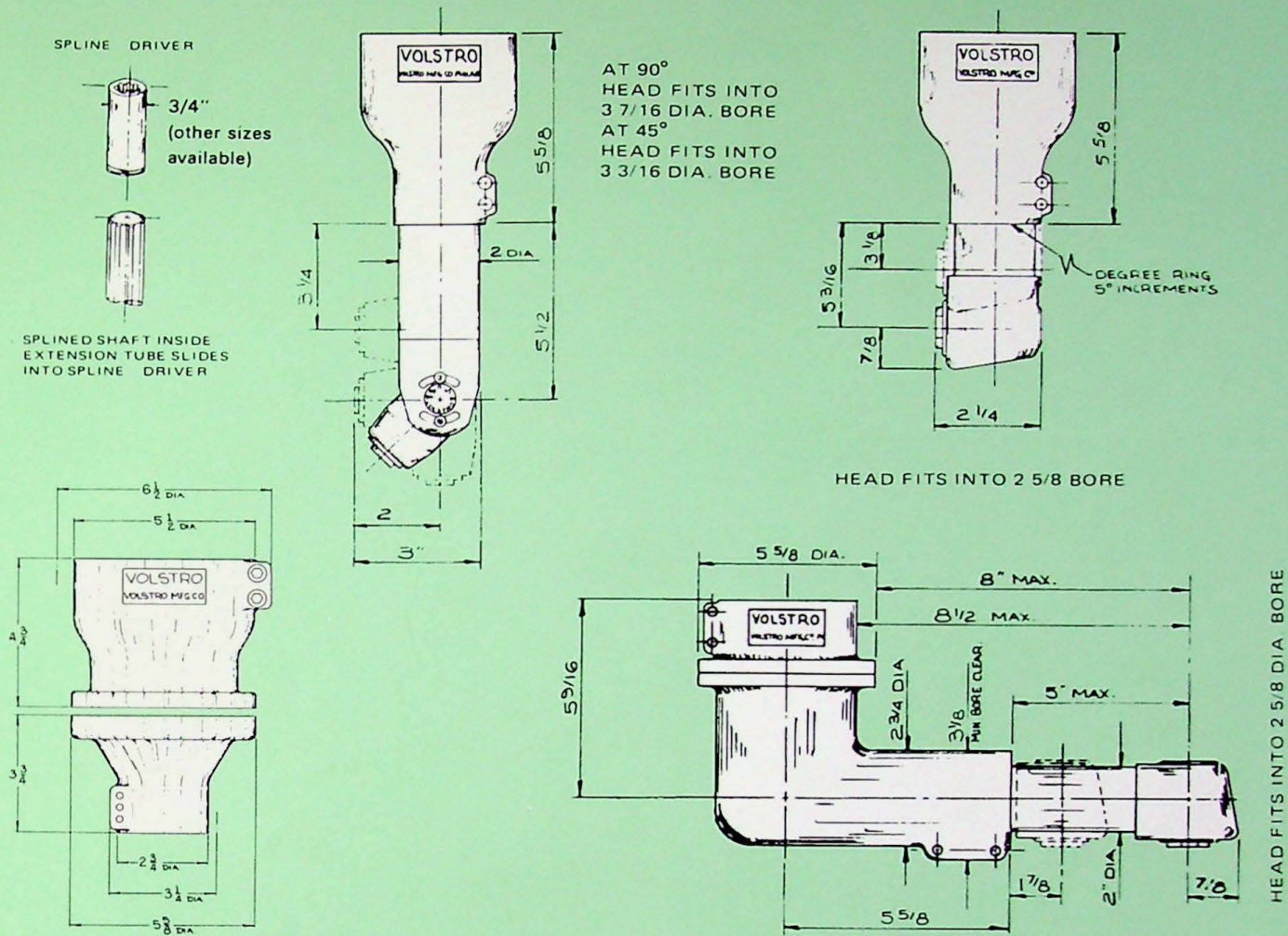
VOLSTRO® STRAIGHT HEAD

The Volstro Straight Head with "L" housing mills slots and pockets, and drills holes at 90° to spindle, while workpiece stays in one place.

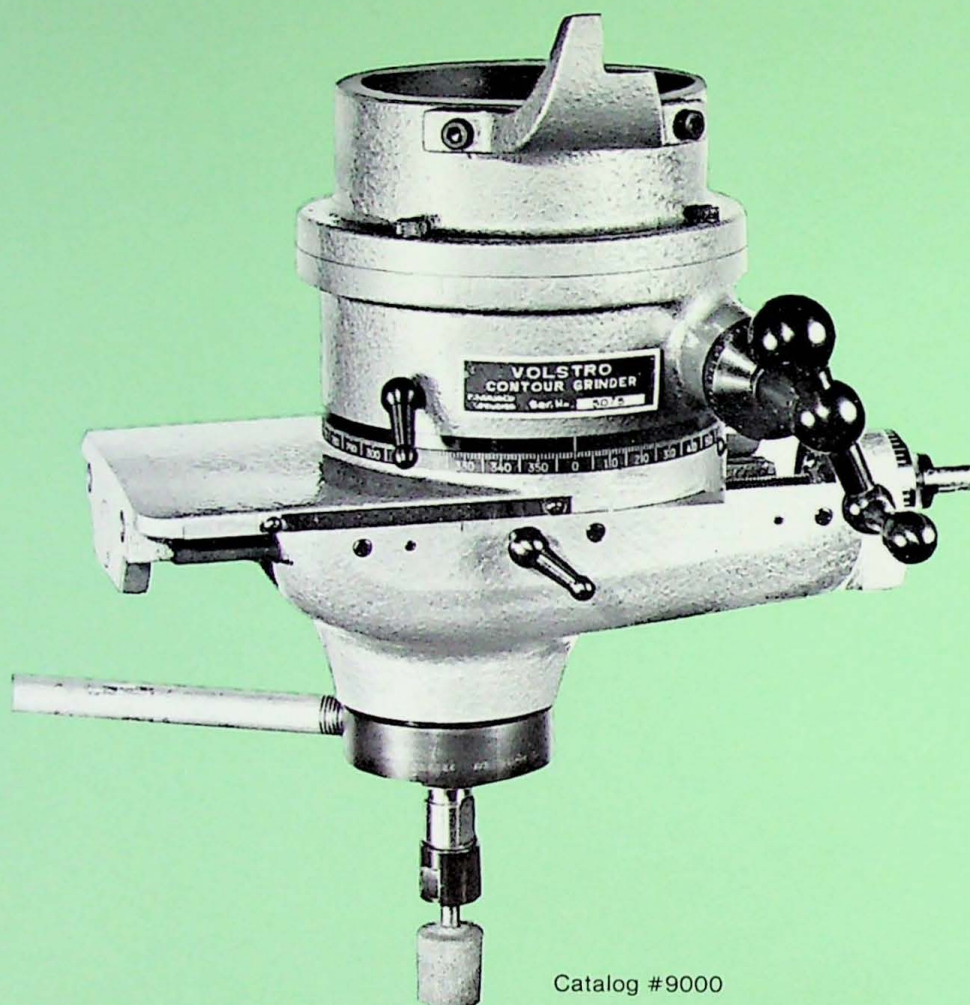
Telescopes in and out, giving added reach for hard-to-reach milling and drilling operations.

The Straight Head is also available with straight housing to lower costs when extra long drills and end mills are required.

THE VOLSTRO® QUICK-MOUNT MILLING ATTACHMENTS



- ☐ Multi-angle head and straight head have Timken bearings
- ☐ All units have hardened and ground spindle and hardened gears
- ☐ Spline driver included with right angle, multi-angle, straight heads, and “L” housing
- ☐ Collets available — 1/8” 3/16” 1/4” 5/16” and 3/8”, 3^{mm} 4^{mm} 5^{mm} 6^{mm} 7^{mm} 8^{mm}
 - ☐ Speeds to 1750 R.P.M.
 - ☐ Sharp corner cutter available for multi angle head
 - ☐ **Special adaptations available upon request.**



Catalog #9000

THE VOLSTRO® CONTOUR GRINDER

- Allows milling machine contour grinding
- Speeds to 30,000 R.P.M.

The Volstro Contour Grinder allows Milling Machine grinding of contours that previously could only be ground on expensive Jig Grinders.

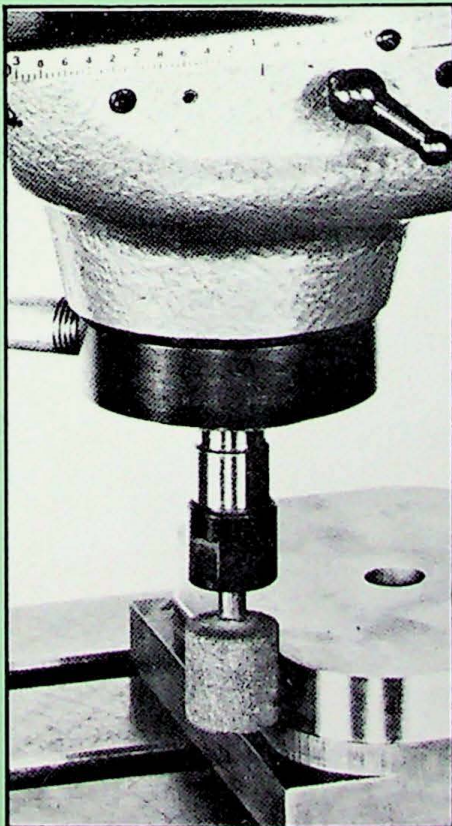
Extension kit and 1" dia. wheel allow grinding of inside diameters up to 9".

Any combination of angles and radii may be ground in a single set-up.

Interchangeable motors provide speeds of 23,000 R.P.M. (standard) or 30,000 R.P.M.

Cross slide motion can be set off-center and rotated in continuous 360° planetary motion with manual or power feed.

THE VOLSTRO® CONTOUR GRINDER



Two-piece top construction allows interchangeability between different Milling Machine models.

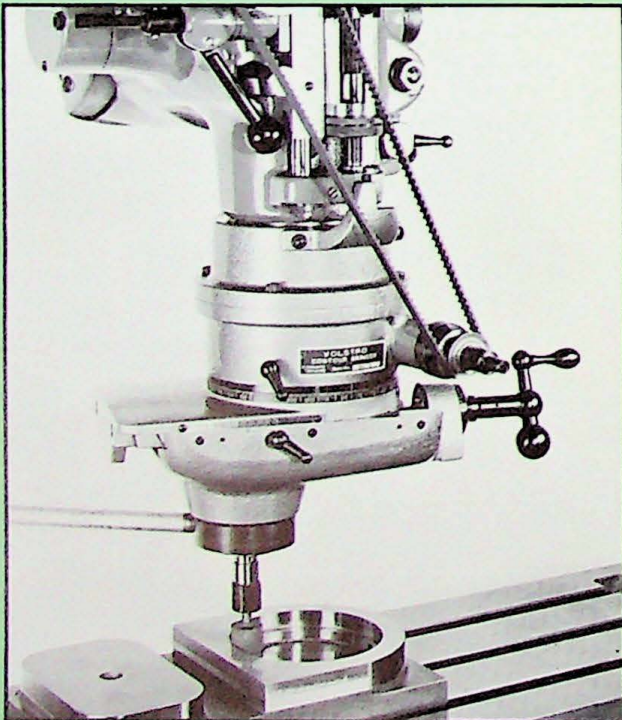
Grind combination of straight surfaces and radii without grinding wheel leaving work piece.

STANDARD EQUIPMENT

- .9 H.P. Air Motor
- Rotational Power Feed (Timing Belt and Belt Pulleys)
- Ball Crank Handle
- 2 Wrenches
- Hardwood Case
- 12" Long Air Input Pipe

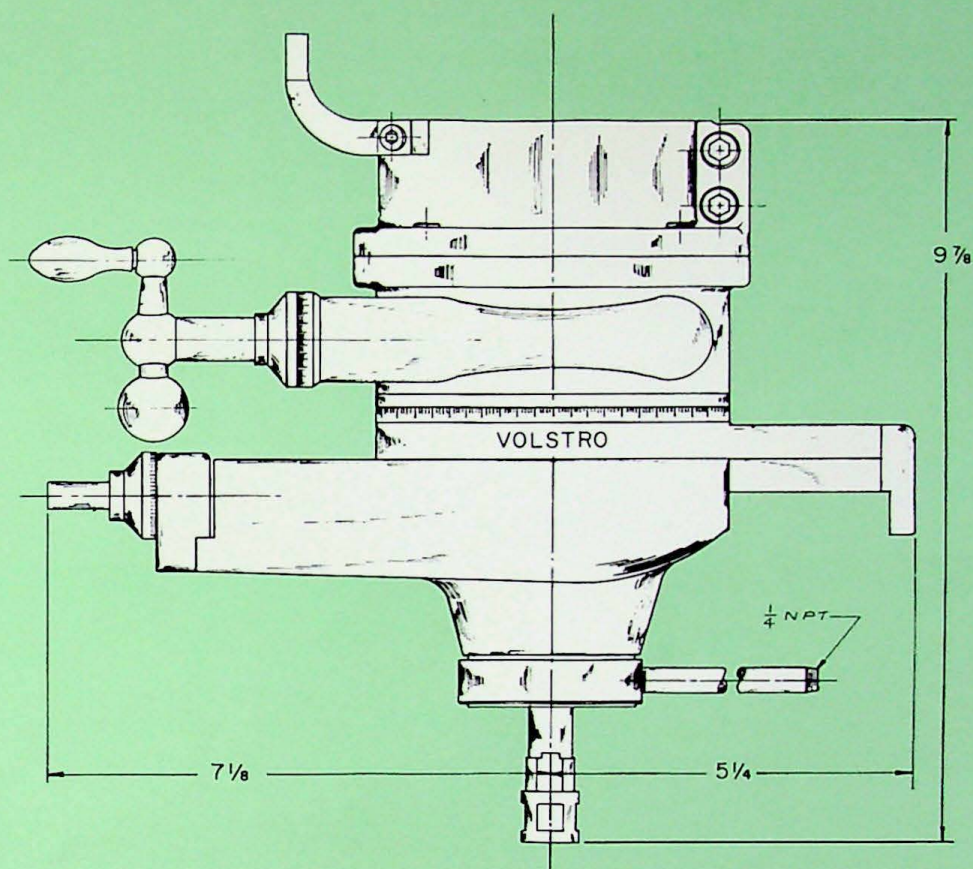
OPTIONAL EQUIPMENT

- .3 H.P. High Speed Air Motor
- Collets — For Standard .9 H.P. Air Motor
 - 1/8" - 3/16" - 1/4" - 5/16" - 3/8"
- Collets — For Optional .3 H.P. High Speed Air Motor
 - 1/8" - 3/16" - 1/4"
- Spare Power Feed Belt
- Spare Ball Crank Handle
- Extension Kit 1" to 4" Range



Applications include punches, dies, cavities, shapes, as well as contours. Diameters may be ground with power rotational feed.

THE VOLSTRO® CONTOUR GRINDER



- ☐ Housings: Fine grain cast iron alloy
- ☐ Hardened and thread ground lead screw
- ☐ Cross slide — .001 graduations -.050 quick reading scale, 3" offset
- ☐ Rotational feed — 360° continuous 4 degree rotary dial with 5 minute graduations
 - ☐ Hardened and ground shafts
 - ☐ Hardened and ground collet retainer
- ☐ Locating stop eliminates indicating for angular alignment
 - ☐ Available in metric models
- ☐ .9 H.P. motor uses 30-33 CFM at 90 PSI
- ☐ .3 H.P. motor uses 12-15 CFM at 90 PSI
- ☐ Air filter & oil lubricator required.
- ☐ **Special adaptations available upon request**



Catalog #1224

THE VOLSTRO® AIR SPINDLE

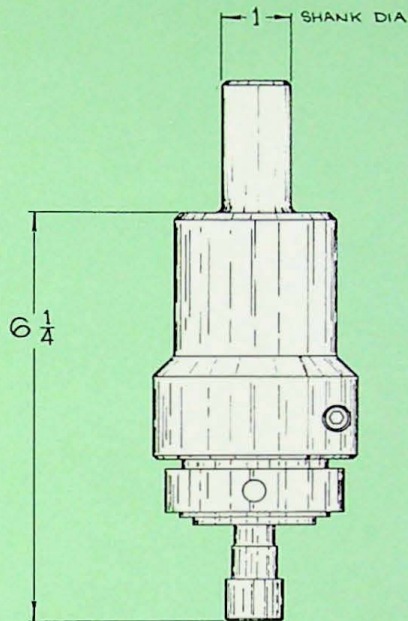
- High speed milling, drilling, grinding
- Quick installation

The Volstro Air Spindle is a high speed attachment that can be mounted on any milling machine for high speed milling, drilling and grinding.

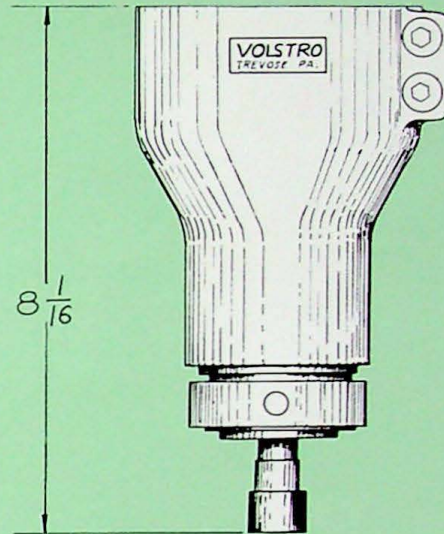
Installation time is less than one minute.

The sturdy, quill-mounted Volstro may be used on contour mills, N.C. mills, tracer mills and conventional mills.

THE VOLSTRO® AIR SPINDLE



Air Spindle
with shank
Catalog #1225



Quill Mounted Air Spindle
Catalog #1224

Low Cost - Sturdy - High Speed Attachments

- ☐ Ideal for high speed milling, drilling and grinding
- ☐ Can be mounted on all milling machines, including N.C.
 - ☐ Installs in less than one minute
 - ☐ Available with a
 - .9 H.P. motor - 23000 RPM max.
 - .3 H.P. motor - 30000 RPM max.
 - ☐ Collets available
 - .9 H.P. motor - 1/8", 3/16", 1/4", 5/16", 3/8"
 - .3 H.P. motor - 1/8", 3/16", 1/4"
- ☐ .9 H.P. motor uses 30 CFM at 90 PSI
- ☐ .3 H.P. motor uses 12 CFM at 90 PSI
- ☐ Air filter & oil lubricator required.
- ☐ Special adaptations available upon request



Catalog #8000

THE VOLSTRO® SPEED INCREASER

- Prolongs machine life
- Runs small cutters at proper speed

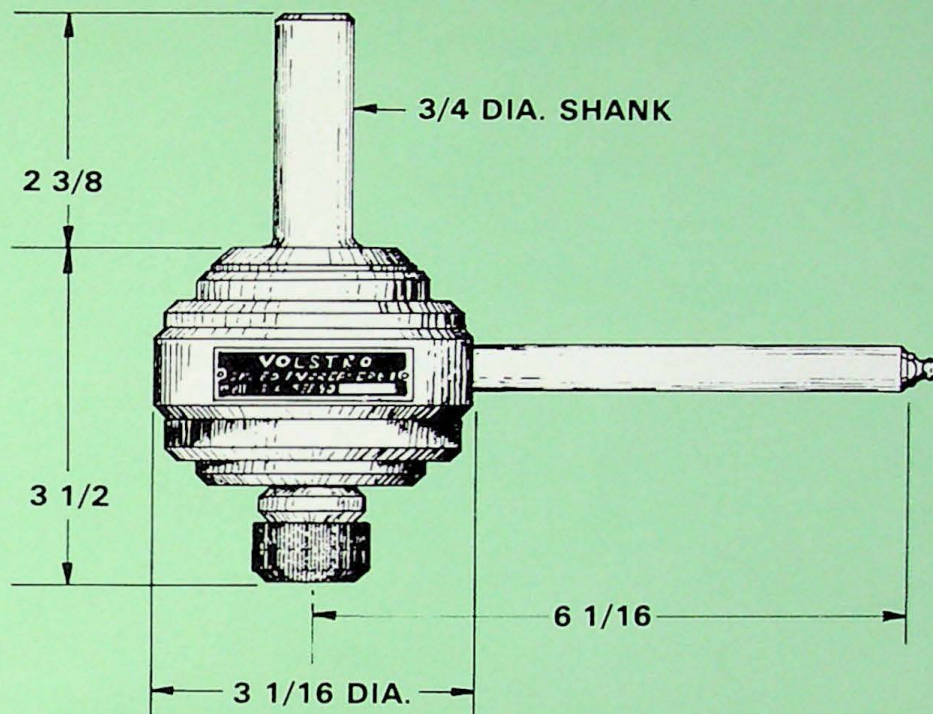
Small milling cutters and drills may be run at their proper designed speed with the Volstro Speed Increaser.

Higher speeds afford finer finishes and reduce wear and breakage. The damaging vibration encountered when machines are run at high speed is totally eliminated, prolonging machine life.

The Speed Increaser provides speeds up to 6,000 RPM for continuous use, and up to 9,000 RPM for intermittent use.

Installation takes less than 30 seconds.

THE VOLSTRO® SPEED INCREASER



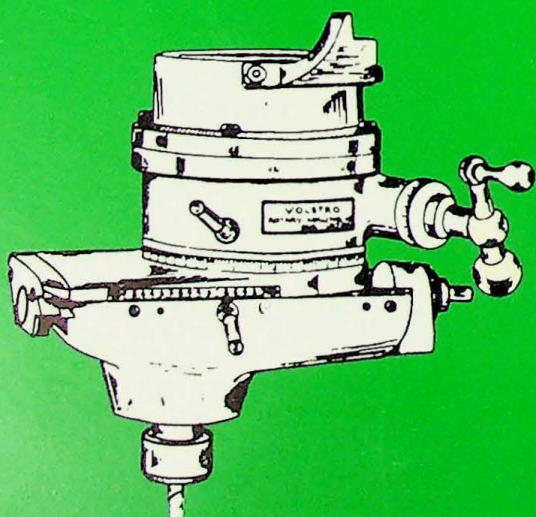
SIX TIMES ONE — 6 × 1 SPEED INCREASER

- ☐ Completely ball bearing mounted (radial and thrust)
 - ☐ Pre-lubricated and sealed against dust
 - ☐ Contains no gears
 - ☐ All parts hardened and ground
 - ☐ 1/8", 3/16", 1/4", 5/16" and 3/8"
3^{mm} 4^{mm} 5^{mm} 6^{mm} 7^{mm} 8^{mm} Collets available
 - ☐ Speed increaser lubricant available

All Volstro products are made in U.S.A.

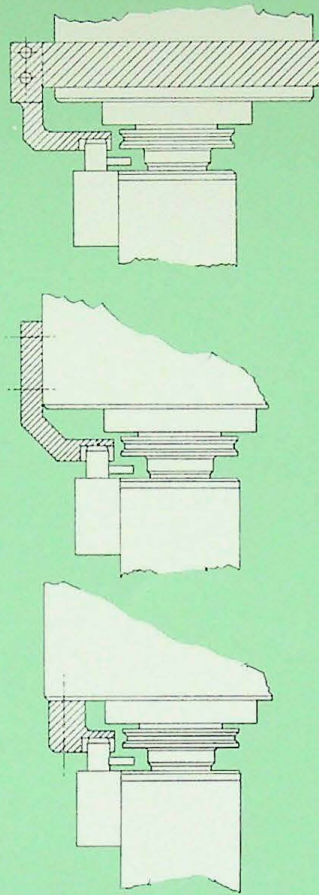
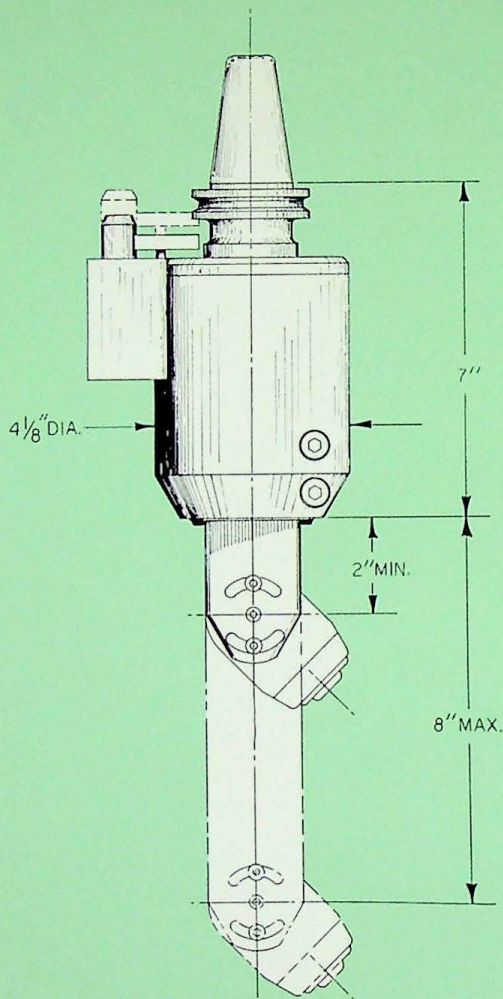


© 1984 Volstro Manufacturing Co., Inc. 108 Printed in U.S.A.



VOLSTRO MANUFACTURING CO., INC.
3100 TREMONT AVENUE
TREVOSE, PENNSYLVANIA 19047
TELEPHONE: 215/322-5507

THE VOLSTRO "V" FLANGE ADAPTER



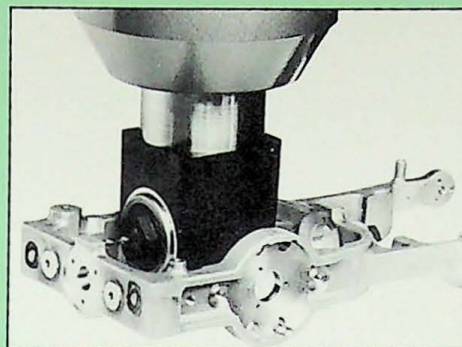
Typical locating block configurations (customer supplied)

- ☐ Standard adapter shanks: CAT40, CAT45, CAT50, BT40, BT50, and NMTB 40
- ☐ Speeds to 2,500 RPM
- ☐ Weight: 20 lbs (40T) and 25 lbs (50T)
- ☐ Accommodates Volstro right angle or multi-angle quick-mount attachments (see catalog p. 11-14)
- ☐ Protective cover available for multi-angle unit

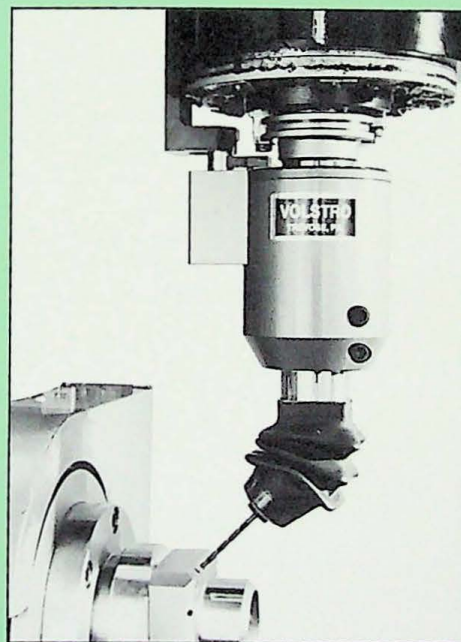
VOLSTRO

3100 Tremont Ave., Trevose, PA 19047
Toll-free 800-321-4163 In PA 215-322-5507

THE VOLSTRO "V" FLANGE ADAPTER



"V" flange adapter with right angle head



"V" flange adapter with multi-angle head

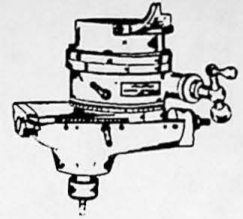
The Volstro "V" flange adapter was developed to allow more versatility for machining centers.

Volstro milling attachments can be interchanged in seconds, to allow milling, drilling, tapping and sawing at any angle from 0° to 90°, with 360° rotation.

Several adapter shanks are available to fit all types of machining centers, used either manually or with automatic tool changers.

VOLSTRO

MANUFACTURING CO., INC.



GENTLEMEN:

THANK YOU FOR YOUR INTEREST IN OUR PRODUCTS, AS INDICATED
BY YOUR RECENT INQUIRY.

WE ENCLOSE OUR CATALOG, ALONG WITH CURRENT PRICE LISTS.
TO ORDER, CALL VOLSTRO AT 800-321-4163 (IN PENNSYLVANIA
AT 215-322-5507). DELIVERY OF MOST ITEMS ARE FROM STOCK.

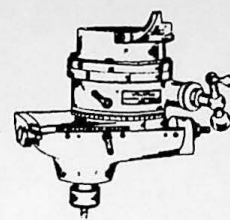
SHOULD ADDITIONAL INFORMATION BE REQUIRED, DO NOT HESITATE
TO CONTACT US. WE LOOK FORWARD TO BEING OF SERVICE TO YOU.

VERY TRULY YOURS,

VOLSTRO MANUFACTURING COMPANY, INC.

VOLSTRO

MANUFACTURING CO., INC.



PRICE-LIST

EFFECTIVE APR. 1, 1987

ROTARY CROSS-SLIDE MILLING HEAD

CAT.#

1203	FOR MACHINES WITH 3-3/8" QUILL DIA.....	\$ 1995.00
1203-1	MACHINES WITH QUILL DIA. SMALLER THAN 3-3/8".....	\$ 2095.00
1203-2	MACHINES WITH QUILL DIA. LARGER THAN 3-3/8"	\$ 2095.00
1203-3	MACHINES WITH QUILL DIA. 3-3/8" & QUICK-CHANGE TOOLING..	\$ 2195.00
1203-4	MACH. WITH QUILL DIA. LARGER & QUICK-CHANGE TOOLING.....	\$ 2245.00

--POWER ROTATIONAL FEED INCLUDED--

--ALL MODELS AVAILABLE IN METRIC--

ADDITIONAL EQUIPMENT

1045-2	COLLET 1/8" DIA.....	EACH	\$ 26.00
1045-3	COLLET 3/16" DIA.	EACH	\$ 26.00
1045-4	COLLET 1/4" DIA.....	EACH	\$ 26.00
1045-5	COLLET 5/16" DIA.	EACH	\$ 26.00
1045-6	COLLET 3/8" DIA.	EACH	\$ 26.00
1045-7	COLLET 7/16" DIA.	EACH	\$ 26.00
1045-8	COLLET 1/2" DIA.	EACH	\$ 26.00

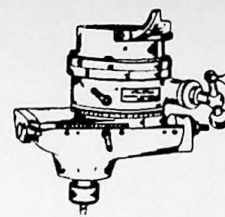
METRIC COLLETS..... EACH \$ 26.00

1045-4MM-- 6MM, 8MM, 10MM, 12MM, 14MM, 16MM

1217	SPARE BALL CRANK.....	\$ 50.00
1226	1" EXTENSION KIT.....	\$ 100.00
1090	EXTENSION DRAW BAR.....	\$ 50.00
1096	SPARE POWER FEED BELT.....	\$ 12.00

VOLSTRO

MANUFACTURING CO., INC.



PRICE LIST

EFFECTIVE APR. 1, 1987

VOLSTRO SHAPER - SLOTTER

CAT

7000	FOR MACHINES WITH 3-3/8" QUILL DIA.	\$ 1095.00
7000-1	MACHINES WITH QUILL DIA. SMALLER THAN 3-3/8".....	\$ 1195.00
7000-2	MACHINES WITH QUILL DIA. LARGER THAN 3-3/8".....	\$ 1195.00
7000-3	MACHINES WITH QUILL DIA. 3-3/8" & QUICK-CHANGE TOOLING....	\$ 1295.00
7000-4	MACHINE WITH QUILL DIA. LARGER & QUICK-CHANGE TOOLING.....	\$ 1345.00

OPTIONAL EQUIPMENT

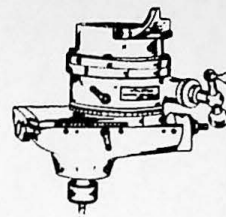
7017-5	CUTTING TOOL 3/8" X 3/16"	\$ 36.00
7017-8	CUTTING TOOL 3/8" X 1/4"	\$ 36.00
7017-11	CUTTING TOOL 3/8" X 3/8"	\$ 36.00
8030	SPECIAL LUBRICANT - CARTRIDGE	\$ 12.00

OTHER VOLSTRO PRODUCTS

8000	SPEED INCREASER.....	\$ 695.00
11000	CONTOUR VISE	\$ 895.00
3032	CNC-TURRET LATHE ATTACHMENT WITH MULTI-ANGLE HEAD - PRICE ON REQUEST	

VOLSTRO

MANUFACTURING CO., INC.



PRICE LIST

EFFECTIVE APR. 1, 1987

QUICK - MOUNT ATTACHMENTS - HOUSINGS

CAT.#

3000	MULTI-ANGLE HEAD.....	\$ 525.00
4000	RIGHT-ANGLE HEAD.....	\$ 425.00
5000	STRAIGHT HEAD.....	\$ 325.00

STRAIGHT HOUSINGS

6009	FOR MACHINES WITH 3-3/8" QUILL DIA.	\$ 140.00
6009-1	MACHINES WITH QUILL DIA. SMALLER THAN 3-3/8"	\$ 230.00
6009-2	MACHINES WITH QUILL DIA. LARGER THAN 3-3/8"	\$ 230.00
1155-3-6003	MACH. WITH QUILL DIA. 3-3/8" & QUICK-CHANGE TOOLING.....	\$ 340.00
1155-4-6003	MACH. WITH QUILL DIA. LARGER & QUICK-CHANGE TOOLING.....	\$ 390.00

"L" HOUSINGS

2000	FOR MACHINES WITH 3-3/8" QUILL DIA.	\$ 495.00
2000-1	MACHINES WITH QUILL DIA. SMALLER THAN 3-3/8"	\$ 595.00
2000-2	MACHINES WITH QUILL DIA. LARGER THAN 3-3/8"	\$ 595.00
2000-3	MACHINES WITH QUILL DIA. 3-3/8" & QUICK-CHANGE TOOLING.....	\$ 695.00
2000-4	MACH. WITH QUILL DIA. LARGER & QUICK-CHANGE TOOLING	\$ 745.00

ADDITIONAL EQUIPMENT

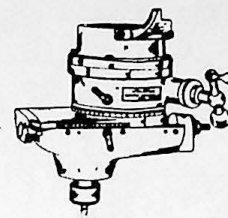
3019-2	COLLET 1/8" DIA.	EACH	\$ 24.00
3019-3	COLLET 3/16" DIA.	EACH	\$ 24.00
3019-4	COLLET 1/4" DIA.	EACH	\$ 24.00
3019-5	COLLET 5/16" DIA.	EACH	\$ 24.00
3019-6	COLLET 3/8" DIA.	EACH	\$ 24.00

METRIC COLLETS

3019-3MM, 4MM, 5MM, 6MM, 7MM, 8MM		EACH	\$ 24.00
3020	SHARP CORNER CUTTER	EACH	\$ 22.00
3050	PROTECTIVE COVER-NEOPRENE BOOT (MULTI-ANGLE ONLY).....		\$ 18.00

VOLSTRO

MANUFACTURING CO., INC.



PRICE LIST

EFFECTIVE APR. 1, 1987

CONTOUR GRINDER WITH .9 HP MOTOR (23000 RPM)

CAT, #

9000-09	FOR MACHINE WITH 3-3/8" QUILL DIA.	\$ 2095.00
9000-2-9	FOR MACHINE WITH QUILL DIA. LARGER THAN 3-3/8"	\$ 2195.00
9000-3-9	FOR MACHINE WITH QUILL DIA. 3-3/8" & QUICK-CHANGE TOOLING	\$ 2295.00
9000-4-9	FOR MACHINE WITH QUILL DIA. LARGER & QUICK-CHANGE TOOLING	\$ 2345.00

-POWER ROTATIONAL FEED INCLUDED-

-ALL MODELS AVAILABLE IN METRIC-

AIR - SPINDLE

1225-09	AIR SPINDLE WITH 1" DIA. SHANK	\$ 1150.00
1224-09	AIR SPINDLE WITH STRAIGHT HSG. CAT. #6009.....	\$ 1050.00

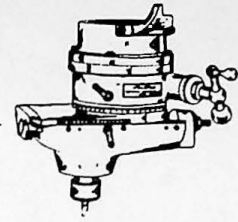
-PRICES FOR OTHER MILLS ON REQUEST-

OPTIONAL EQUIPMENT

9002	AIR MOTOR .3 HP (30,000 RPM).....	\$ 875.00
AVAILABLE FOR ALL AIR-DRIVEN UNITS		
9001-2	COLLET 1/8" DIA. FOR .9 HP MOTOR.....	EACH \$ 24.00
9001-3	COLLET 3/16" DIA. FOR .9 HP MOTOR.....	EACH \$ 24.00
9001-4	COLLET 1/4" DIA. FOR .9 HP MOTOR	EACH \$ 24.00
9001-5	COLLET 5/16" DIA. FOR .9 HP MOTOR	EACH \$ 24.00
9001-6	COLLET 3/8" DIA. FOR .9 HP MOTOR	EACH \$ 24.00
9002-2	COLLET 1/8" DIA. FOR .3 HP MOTOR	EACH \$ 24.00
9002-3	COLLET 3/16" DIA. FOR .3 HP MOTOR.....	EACH \$ 24.00
9002-4	COLLET 1/4" DIA. FOR .3 HP MOTOR	EACH \$ 24.00

VOLSTRO

MANUFACTURING CO., INC.



PRICE LIST

EFFECTIVE APR. 1, 1987

"V" FLANGE - ADAPTER

CAT.#

12000-8	MACHINES WITH CAT 40 TOOLING.....	\$ 2075.00
12000-9	MACHINES WITH BT 40 TOOLING	\$ 2075.00
12000-10	MACHINES WITH CAT 45 TOOLING	\$ 2125.00
12000-11	MACHINES WITH CAT 50 TOOLING	\$ 2175.00
12000-12	MACHINES WITH BT 50 TOOLING	\$ 2175.00
12000-13	MACHINES WITH NMTB 40 TOOLING	\$ 2075.00

QUICK-MOUNT ATTACHMENTS

4000	RIGHT-ANGLE HEAD (4" REACH).....	\$ 425.00
4000-2	RIGHT-ANGLE HEAD (2" REACH).....	\$ 525.00
3000	MULTI-ANGLE HEAD (4" REACH).....	\$ 525.00
3000-2	MULTI-ANGLE HEAD (2" REACH).....	\$ 625.00

OPTIONAL EQUIPMENT

3019	COLLETS (SEE PAGE #3)	
3050	PROTECTIVE COVER - NEOPRENE BOOT (FOR MULTI-ANGLE HEADS ONLY)	\$ 18.00