Specifications:
1 3/4” Collet Capacity
2 Independent Cross Slides
1 Vertical Slide
6 Station Turret
Infinitely Adjustable Feeds
Speeds to 4200 RPM

Model DSM-A Bar and Second Operation Automatic
The model DSM-A Bar and Second Operation Automatic provides fully automatic production for bar work and second operation chucking. Instant direct programming is accomplished at the machine. Simply press the trip blocks to instantly position with finger pressure. The trip blocks operate micro switches which control the six turret positions, front and rear slides, vertical slide, spindle speed change and other programming functions to produce super-precision results.

A wide variety of operations can be accomplished with low-cost standard tooling applied to the nine tooling positions to simplify fast setup and fast changeover from job to job. With a Hardinge Bar Feed you can instantly change over from second operation to bar work. Each turret station, two cross slides and the vertical slide have infinitely variable feeds to handle different materials and work configurations.

The model DSM-A assures precision results at minimum cost.
Request Bulletin C-25 for complete details.

HARDINGE BAR FEEDS
Models HF-6™ and HF-12™
The new Hardinge-designed and manufactured Bar Feed provides quiet operation, operator safety, economy and efficient performance. By equipping your Hardinge production machine with the low-cost pneumatic bar feed, you can easily change over from chucking to bar work.

Two lengths are available. Model HF-6 will accommodate a six-foot bar and model HF-12 will take bars up to twelve feet in length.
Request Bulletin T-6 for complete details.
Specifications:
- 6" Step Chuck Capacity
- 1½" Collet Capacity
- Spindle Speed to 3000 RPM
- Infinitely Adjustable Feeds
- Cross Slide Travel 3"
- Carriage Travel 8"
- Machine is Completely Enclosed
- Production Treading Unit
- Taper Turn Available

**Model AHC-TV Fully Automatic Chucker and Bar Machine**

The Model AHC-TV Fully Automatic Chucker and Bar Machine has a simple direct unit for programming automatic cycle, including the closing and opening of collets, operation of the cross slide, carriage, vertical slide, automatic threading unit, and all six stations of the turret. The AHC-TV can turn, face, bore and thread with ONE Chucking and ONE Handling.

The totally enclosed, self-contained Automatic Chucker and Bar Machine permits super-close production tolerances and low micro inch finish without grinding. For operator safety, the transparent front guard door is electrically interlocked with cycle start.

Highlighting the list of several new features are the taper turn, taper bore, or taper face capabilities.

*Request Bulletin C-55 for complete details.*

**Simple Direct Programming**

*Simply Push A Button*

Once the machine has been set up and programmed, the operator is required only to push the cycle start button for completely automatic production.

Selector switches permit manual operation for setup of vertical slide, spindle direction, speed change, index, chasing head, turret four-way switch and part chute for setting tooling, stop screws, feed rates, etc.
Model HC-AT With Automatic Threading Head

The model HC-AT Chucking Machine can finish diameters, shoulders and end faces, and cut precision threads in one setting—all concentric with each other. Adjustable, exact cutting positions produce closer tolerance parts on a production basis.

Request Bulletin C-41 for complete details.

Specifications:
- 6" Step Chuck Capacity
- 1 1/2" Collet Capacity
- 5" Jaw Chuck Capacity
- 9" Fixture Diameter
- 8 Station Turret
- 6" External, 5" Internal
- Maximum Diameter for Threading
- 1 1/4" Maximum Length for Threading
- 12–64 Pitch Threads
- (Lead Screw and Follower)
- Speeds to 3000 RPM

Model DSM-59

This time-tested production machine is easy to set up and enables relatively inexperienced operators to turn out parts rapidly within close tolerances and to fine finish. Operations on this machine reduce expensive tooling, upkeep and down time.

Request Bulletin C-10 for complete details.

Specifications:
- 1 1/16" Collet Capacity
- 6" Step Chuck Capacity
- 5" Jaw Chuck Capacity
- 9" Fixture Diameter
- 6 Position Turret
- Two Cross Slide Positions
- Speeds to 3500 RPM
Model HSL-59
For simple lathe operations, the HSL-59 Speed Lathe is limited only by your imagination. With the wide range of interchangeable tooling and attachments available, the HSL-59 can be used to face, chamfer, drill, turn, external thread, radius turn, taper turn, form, knurl and cutoff.

An operator tending an automatic lathe can easily do a simple operation on the HSL-59 while the automatic is cycling.

The Speed Lathe compactness permits installation on a work bench or is available with welded steel pedestal base.

Request Bulletin C-30.
Specifications:
1½" Collet Capacity
6" Step Chuck Capacity
5" Jaw Chuck Capacity
9" Swing
Speeds to 3000 RPM

Model TFB-H
A high speed machine for precision power feed turning, facing and boring. Easy and fast to operate, the model TFB-H is a rugged machine intended for manufacturing parts which do not require thread cutting operations.

Request Bulletin C-20 for complete details.
Specifications:
1½" Collet Capacity
6" Step Chuck Capacity
5" Jaw Chuck Capacity
11" Swing
18" Center Distance
Speeds to 3000 RPM
10" Tool Room Lathe
Model HLV-H
The Hardinge Super-Precision Tool Room Lathe meets the close tolerance and fine finish requirements of tool rooms, laboratories, research and development departments.

The HLV-H fills the gap between the plain precision lathe and the heavy-duty engine lathe. Its infinitely variable speeds and feeds permit the toolmaker to perform all operations needed for creating prototypes, turning and threading, collet work and jaw chucking. The Hardinge Tool Room Lathe is available with all English, all metric or with dual dials and gearbox for threading.

Request Bulletin C-15 for complete details.

Specifications:
1½" Collet Capacity
6" Step Chuck Capacity
18" Center Distance
Thread Range 11 to 108
11" Swing
Speeds to 3000 RPM

Infinitely Variable Spindle Speeds
Independent Electric Variable Feeds
Gearbox for Threading Only
Solid Full Bearing Tailstock
Super-Precision Preloaded Ball Bearing Spindle
SUPER-PRECISION™ TOOL ROOM MACHINES

Model DV-59
Designed to meet the requirements of extreme lasting accuracy, high spindle speeds, and the ease in operation required for the smaller diameter work range found in every tool room, laboratory, and production department.
Request Bulletin C-5 for complete details.
Specifications:
1 1/16" Collet Capacity
6" Step Chuck Capacity
5" Jaw Chuck Capacity
9" Swing
Speeds to 3500 RPM

Dividing Head
The Hardinge Dividing Head is designed for extreme accuracy and maximum convenience in operation.
The draw spindle handle can be removed without loosening the collet, permitting collet work to be done with the head in the vertical position or at any other desired angle.
Specifications:
1 1/16" Collet Capacity
6" Step Chuck Capacity
5" Jaw Chuck Capacity
7" Swing

Model UM with Independent Infinitely Variable Power Feed
The use of Hardinge high speed precision milling machines for your small work will give you the advantages of lower investment, saving in floor space, lower power consumption, higher speeds, and saving of valuable production time because of the proper relation between the machine and the work. Request Bulletin C-35 for complete details.
Specifications:
1 1/16" Collet Capacity for Cutter Spindle and Dividing Head
25" x 6 1/2" Table with Table Power Feed
Speeds to 1850 RPM
Shown with Optional Vertical Head
CHUCKER TOOING

Boring Tool Adapter  Knurling Tool  Cutoff Tool  Universal Tool Post

Fine Adjustable Tooling  Triple Tool Holder  Single and Double Tool Holders  Extension Tool Holders

Fine Adjustable Tooling  Drill and Shank Tool Holder  Extension Tool Bit Holders  Boring Tool Holder

MACHINE ATTACHMENTS and TOOLING

Tailstock Tooling For DV-59, HILV-II & TFB-H

Contour Tracing Attachment for HLV-H & TFB-H

Radius Turning Attachment For DV-59, HILV-II, TFD-II & HIL-59

Quick Acting Recessing Tool For DSM-59

Fast-Change Tool Holder For DV-59, HLV-H, TFB-H & HSL-59

Taper Slide For HC

Tool Setting Gages for All Lathes

Carbide Cutting and Threading Tools

For complete information request Bulletin C-55.

www.OzarkToolManuals.com
The Hardinge 5C Collet

The Hardinge 5C Collet is manufactured to exacting standards from special alloy steel. The threads are heat treated and the body spring tempered to assure accuracy and durability at low cost.

Hardinge 5C Collets offer a through-capacity to and including 1¼" round, ¾" hexagon and ¾" square.

Stock Delivery

A complete selection of standard sizes and shapes, and some not so standard, is available for immediate off-the-shelf delivery from a Hardinge stocking office near you.

5C Collets are stocked in all fractional sizes of round, hexagon and square to capacity. In addition, round collets are stocked in metric, decimal, letter and number sizes. Round-serrated, taper hole and even rectangular collets, in popular sizes, are also available for stock delivery.

5C-E Emergency Collets

The soft face and pilot hole of the 5C-E Emergency Collets permit rapid drilling, boring or stepping out to the exact size required. 5C-E Emergency Collets have internal threads for positive stops.


Hardinge–Sjogren

Speed Collet Chucks

Five-Collet Capacity Sizes: 1½", 1¾", 1³⁄₄", 2¼", 3½".

A Hardinge–Sjogren Speed Collet Chuck gives greater capacity, saves time, increases accuracy and assures better results.

It is readily adapted for use on the spindle nose of your lathes, takes precision collets — enabling the operator to do better work . . . faster!

Request Sjogren Bulletins For Tool Room Lathes, Engine Lathes and Grinders.

Hardinge Collets

for Lathes and Millers

The name HARDINGE is a guarantee of accuracy and durability. Collets in all sizes are in stock for American, Cincinnati, Hardinge, Hendey, LeBlond, Lehmann, Leder & Shapiro, Monarch, Pratt & Whitney, Sebastian, South Bend, Springfield and other lathes and milling machines.

Request Bulletin HA-55.

Hardinge Collet Index Fixtures

These fixtures are designed for maximum interchangeability on all chucking and indexing applications. They take step chucks, jaw chucks, and standard 5C Hardinge 1¼" capacity collets.

Request Bulletin HA-55.
Hardinge Solid Collets, Master Collets and Pads

For your turret lathes - Advance, Bardons & Oliver, Defiance, Diehl, Foster, Gisholt, Jones & Lamson, Logan, Midland, Morey, Oster, Pratt & Whitney, Simmons, Warner & Swasey.

Request Catalog No. 36.

Master Collets — Feed Fingers and Pads

Style "S"
Master Collets and Pads

For better performance at lower cost — Hardinge offers the only Master Collet with no work pressure on the screw and the only Master Feed Finger with no screws or pins to cause trouble.

HARDINGE Style "S" and Style "B" Master Collets and Feed Fingers are available for: Cleveland, Cone, Greenlee, Gridley and Acme-Gridley, National Acme, New Britain, Warner & Swasey.

Request Catalog No. 36.

Style "B"
Master Feed Finger and Pads

Hardinge Collets and Feed Fingers

For Automatic Screw Machines including Acme-Gridley, Brown & Sharpe, Cleveland, Cone, CVA, Davenport, Greenlee, Gridley, Index, National Acme, New Britain, Warner & Swasey, Wickman.

Request Catalog No. 36.

Style "AF"
Master Feed Finger

HARDINGE Style "AF" Master Feed Fingers, with Snap-in Bushings and Pads are available for: Acme-Gridley, Brown & Sharpe, Cone, Davenport, Greenlee, Gridley, New Britain.

The Hardinge "AF" Master Feed Finger is designed for maximum operating efficiency and low cost.

The low-cost hardened steel or chrome hardened steel pads are adjustable for exact tension to properly feed bars or tubing.

Request Bulletin HA-175.

Special Shapes

For holding odd shaped parts or extruded stock, Hardinge will manufacture a special Collet to fill your requirements.

You will find that Hardinge "Can" make Collets to suit your special needs and at surprisingly short delivery.

For an estimate, send a sample, print or diagram to your nearest Hardinge office.