

HH Roberts

CNC Lathes and Turning Centers

Powered by

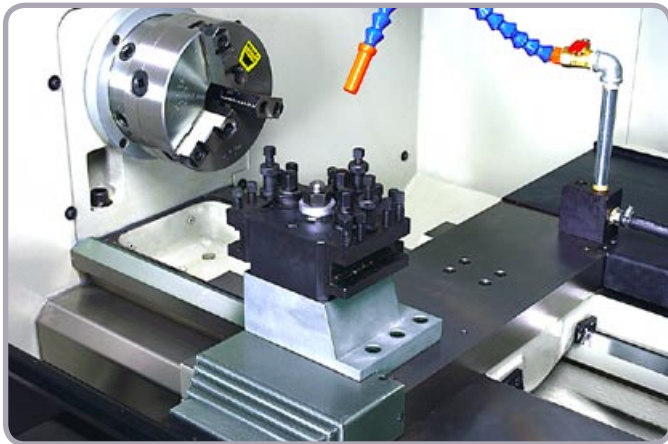
ANILAM
CNC

Fully enclosed CNC lathes and Turning Centers
from 14" x 30" to 44" x 20 feet
with spindle speeds to 4,500 rpm.
with spindle bores to 10 1/2"

- power turrets
- power chucks
- collet systems
- chip Conveyors
- bar Feeds
- sliding doors or lift doors
with power lift option.



Now available with
automatic lift opening
doors OR sliding doors



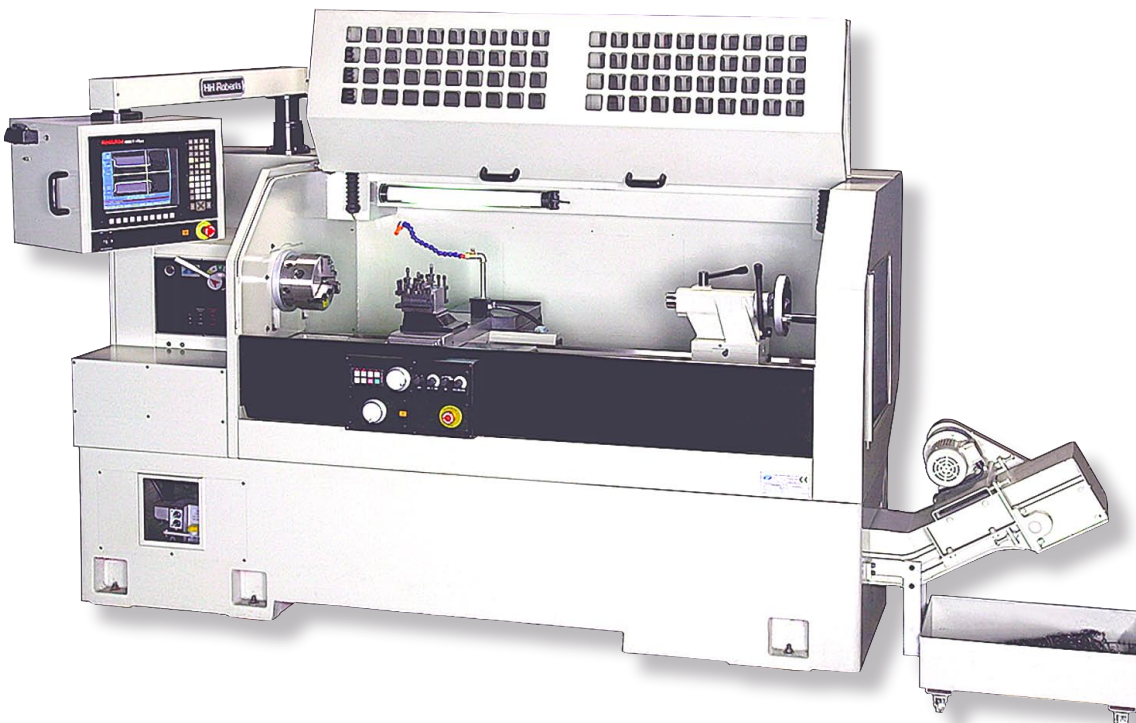
A view of the work area of a 15" x 40" lathe. The toolpost shown is the standard "Rapidue" 3 sided quick change set. Aloris 2 sided and 4 sided QC indexers are available as well as hydraulic and electric automatic turrets.

Hydraulic and pneumatic power 3 jaw chucks, collet chucks and 6 jaw chucks are available.



The 15" x 40" in standard configuration. With the door open the work area is clear from the chuck to the tailstock for loading by hand or with hoist. There is a window at the tailstock end for easy access to operate the tailstock when maximum length bars are being worked. The sideway lube system is accessible from the window in the front of the base of the headstock for easy top up.

Sliding doors are available now on special order. We also have an automatic lift for the single piece doors, with program control or pushbutton operation.



- +2" spindle bore
- 12 Hp output @ 30 minutes
- 3,000 rpm
- constant surface speed
- massive one piece mehanite base casting
- splash proof full enclosure
- built in 4 GB hard disk
- built in RS-232
- built in Ethernet
- built in floppy disk
- 8 MB ram (expandable)

A 16" x 60" lathe with optional chip conveyor. The one piece cast base of all these lathes is prepared to receive a chip conveyor. Chip conveyors have very quick paybacks. You don't make money when you're shut down to remove chips.

15" and 16" Models

Nominal Size*	15 x 30	15 x 40	15 x 60	16 x 30	16 x 40	16 x 60
swing over bed	15"			16"		
swing in semi-gap	17 1/2"			18 1/2"		
swing in gap	25"			26"		
length of gap in front of spindle nose	7 1/8"					
swing over cross slide **	7 1/2"			8 1/2"		
distance between centers with extended nose tailstock with conventional nose tailstock	26"	36"	56"	26"	36"	56"
	30"	40"	60"	30"	40"	60"
spindle nose - standard	D1-6"					
optional, normally fitted for power chucks	A2-6"					
spindle bore	2 1/8"					
spindle speeds						
low gear	20 - 450					
middle gear	175 - 1,100					
high gear	550 - 3,000					
spindle drive output	12 Hp standard, 15 Hp optional					
X axis travel (may be reduced by toolposts)	8.1"					
Z axis travel	21"	31 1/4"	51"	21"	31 1/4"	51"
rapid traverse	260 IPM					
Z axis ballscrew diameter	40 mm. approximately 1 5/8"					
tailstock center	MT 4					
tailstock quill diameter	2"					
tailstock quill stroke	5"					
bed width	12"					
power supply: standard	230/3/60					
power supply: optional	220/1/60 or 460/3/60					
approximate weight	4,300 lbs	4,500 lbs	4,900 lbs	4,450 lbs	4,650 lbs	5,050 lbs
floor space	72" X 44"	84" x 44"	104" X 44"	72" X 44"	84" X 44"	104" X 44"
additional floor space with chip conveyor	30"					
additional floor space with hydraulic system	20"					

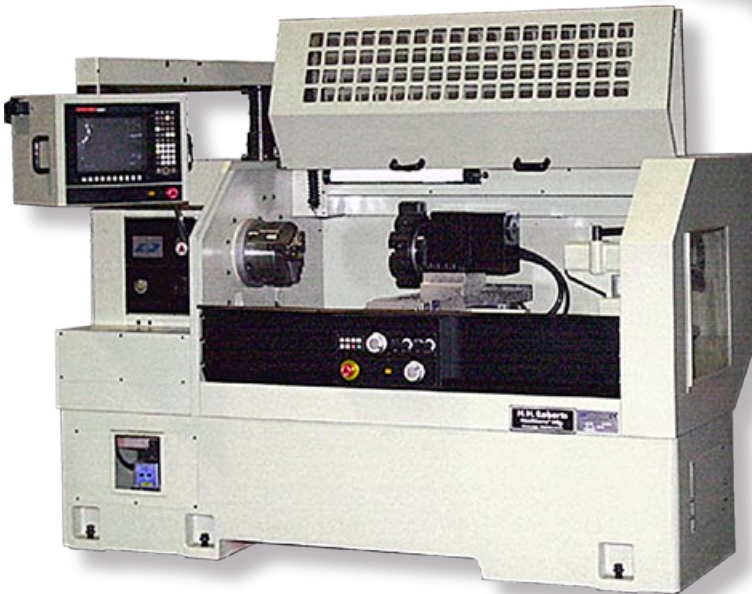
Standard Equipment::

- Anilam 4200 dual processor CNC control with :
 - 4 GB hard disk
 - 8 MB Ram
 - floppy disk drive
 - RS-232 serial port
 - Ethernet adaptor
 - color monitor
 - full Alpha-numeric keyboard.
 - CNC operation manual.
- 8" 'Strong' manual 3 jaw chuck with 2 piece jaws
- full enclosure with gas assist lift cylinders on door
- 7 1/2 / 12 Hp vector spindle drive (continuous / 30 min)
- automatic slideway lubrication system with low oil alarm
- program controlled spindle speed with constant surface speed in 3 speed ranges with large overlaps.
- simple quick change toolpost with tool loading positions on 3 sides with 2 turning holders, 1 V-boring holder, 1 boring bush holder and 1 Morse taper holder.
- headstock sleeve and 2 carbide tipped dead centers
- worklight
- dual electronic handwheels on apron
- 3 point fixed steady rest with roller tips.
- set of levelling jack screws
- set of levelling pads
- electrics for 208-240/3/60, clean grounded line.
- simple tool kit
- parts list, wiring diagram and operator manual

18" and 20" Models

- 3" or 4" spindle bore
- 15 Hp output @ 30 minutes
- 2,500 rpm
- constant surface speed
- massive one piece mehanite base casting
- splash proof full enclosure
- built in 4 GB hard disk
- built in RS-232
- built in Ethernet

The 20" x 50" model with optional Aloris 4 sided indexing toolpost.



To the left an 18" x 50" lathe with a Pragati automatic electric turret

To the right an 18" x 50" lathe with :

- hydraulic pump system
- hydraulic 3 jaw chuck
- hydraulic turret
- hydraulic tailstock



18" and 20" Models

Nominal Size*	18 X 34	18 X 50	18 X 60	18 X 80	20 X 34	20 X 50	20 X 60	20 X 80
swing over bed	18"				20"			
swing in semi-gap	20 1/2"				22"			
swing in gap	28"				30"			
length of gap in front of spindle nose	8 1/4"							
swing over cross slide **	10 1/2"				12 1/2"			
distance between centers								
with extended nose tailstock	30"	46"	56"	76"	30"	46"	56"	76"
with conventional nose tailstock	34"	50"	60"	80"	34"	50"	60"	80"
spindle nose - standard	D1-8"							
optional, normally fitted for power chucks	A2-8"							
spindle bore	3 1/4"							
optional spindle bore	4"							
spindle speeds								
low gear	10 - 300							
middle gear	35 - 850							
high gear	125 TO 2,500							
spindle drive output	15 Hp Standard (22 Hp 460/3/60 optional)							
X axis travel (may be reduced by toolposts)	9 1/4"							
Z axis travel	32"	47"	56"	76"	32"	47"	56"	76"
rapid traverse	300 IPM							
Z axis ballscrew diameter	40 mm. approximately 1 5/8"							
tailstock center	MT 5							
tailstock quill diameter	3"							
tailstock quill stroke	5"							
bed width	13"							
power supply - standard	230/3/60							
power supply - optional	220/1/60 or 460/3/60							
approximate weight	4,620 lbs	5,400 lbs	5,830 lbs	7,040 lbs	4,840 lbs	5,500 lbs	5,940 lbs	7,150 lbs
floor space	84 x 55	100 x 55	110 x 55	130 x 55	84 x 55	100 x 55	110 x 55	130 x 55
additional floor space with chip conveyor	30"							
additional floor space with hydraulic system	20"							

Standard Equipment::

- Anilam 4200 dual processor CNC control with :
 - 4 GB hard disk
 - 8 MB Ram
 - floppy disk drive
 - RS-232 serial port
 - Ethernet adaptor
 - color monitor
 - full Alpha-numeric keyboard.
 - CNC operation manual.
- 10" 'Strong' manual 3 jaw chuck with 2 piece jaws
- full enclosure with gas assist lift cylinders on door
- 10 / 15 Hp vector spindle drive (continuous / 30 min)
- automatic slideway lubrication system with low oil alarm
- program controlled spindle speed with constant surface speed in 3 speed ranges with large overlaps.
- simple quick change toolpost with tool loading positions on 3 sides with 2 turning holders, 1 V-boring holder, 1 boring bush holder and 1 Morse taper holder.
- headstock sleeve and 2 carbide tipped dead centers
- worklight
- dual electronic handwheels on apron
- 3 point fixed steady rest with roller tips.
- set of levelling jack screws
- set of levelling pads
- electrics for 208-240/3/60, clean grounded line.
- simple tool kit
- parts list, wiring diagram and operator manual.

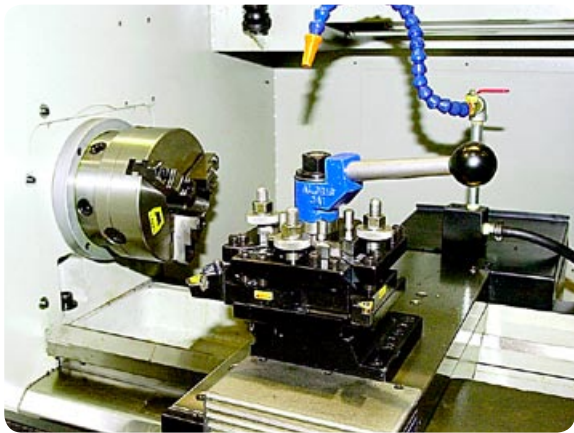
A view of the solid one piece base casting of these machines. The casting is much deeper than normal, and has a channel allowing the fitting of a chip conveyor.

If you don't have a good foundation



This is a preview of the sliding door alternative that will be available early in 2002. The control can be door mounted, as shown on the left or on the overarm, as shown below.

This photo also shows the optional electric 4 sided automatic turret.



The optional Aloris 4 sided, 15 degree indexing quick change tool-post is highly recommended for maximum versatility.

Many different toolpost designs can be fitted to suit your preferences.



An 15" x 40" lathe closed for normal normal automatic operation.

The unique apron design allows full access to the controls with the door closed. The apron travels with the carriage just like a conventional lathe.

Hydraulic Options



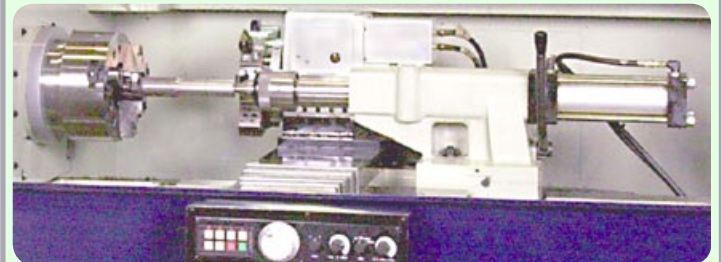
A typical hydraulic power operated 3 jaw chuck. This is an 8" chuck on a 16" model. One set of hard reversible jaws is standard. Soft jaw sets are available from many sources. The chuck is provided with a foot switch, and selector switches for inside or outside chucking. The chucks can also be program controlled, as required for automatic bar feeds.



This is the first package of all the hydraulic options: The headstock guards are extended to house the hydraulic pump, tank, and solenoid system. Above the tank, on the tail end of the spindle is the second package, the hydraulic actuator for power chucking options, which can be 3 jaw, 2 jaw, 6 jaw or collet chucks.



A hydraulic turret, this one with 8 tools, mounted on the rear of the cross slide. Loading parts is easiest with the turret in this location and allows larger work envelopes than front mounted turrets. Turrets with 12 tools are available but these require larger tool discs and reduce the work envelope. Most applications can be done with less than 8 tools.



The hydraulic tailstock has a power stroke of the tailstock barrel, which remains under pressure during turning. The tailstock base is positioned then clamped on the bed manually. A foot switch is provided for operation.



Our current location, 5 minutes from the Toronto International Airport



Our founder Harold Hobday Roberts, circa 1937.

Our Background

HH Roberts Machinery was founded in Toronto in the early 1930's and now has the 3rd and 4th generations of the family active. We have grown from a used machinery dealer / repair and rebuild shop to one of the major machine tool distributors in Canada. We have a modern 20,000 square foot facility just minutes from the Toronto International Airport.

We have been offering mills prepared by Topwell Machines, Taiwan for 20 years, and we have been fitting them with Anilam CNCs for more than 10 years.

There are over 30 models to choose from, including knee

mills, bed mills, open and enclosed machining centers, our unique HV combination horizontal / vertical machining center and bridge type graphite mills not detailed in this catalog. We keep nearly 100 machine frames in stock, ready to be assembled on your order.

We have a complete stock of spare parts available at very reasonable costs for overnight shipping.

The dealers we sell through in the USA have demonstrated a commitment to the Anilam system and should be capable of supporting your staff and the machine in startup, training and after sales service.



Vertical machining centers, open and enclosed 31" x 20" to 60" x 32"



Bridge type electrode and engraving mills with 25,000 rpm spindles.



Bed mills with gearless quill heads to 7 1/2 Hp and handwheels.



Vertical bed mills with machining center heads to 31" x 20" to 60" x 32"



New !

Unique horizontal / vertical machining center



2 and 3 axis knee mills with tilting heads or rigid heads up to 7 1/2 Hp and 40" x 20"



CNC lathes from 15" x 30" to 20" x 80"



Precision gang tooling lathes



Precision dovetail bed lathes

Our products are continuously developing and specifications change frequently. It is suggested that you reconfirm any critical specifications at the time of order.

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