

THE RIGHT CHOICE FOR CUSTOMER SATISFACTION



VERTICAL MILLS MANUAL & CNC 2 & 3 AXIS

BEDMILLS - CNC READY FRAMES

LATHE TURNING SWING 16" TO 72" PRECISION TOOLROOM





SAWING MANUAL & AUTOMATICS VERTICAL- HORIZONTAL C.P TOOLS QUALITY IMPORTS ACCU TURRET MILLS

YEAR 2012 - 2013 BINDER

> BIRMINGHAM MILLS BIRMINGHAM LATHES BIRMINGHAM GRINDERS

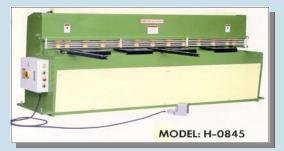
> > BIRMINGHAM FAB SHEARS BRAKES ROLLERS PRESS

RONG FU MILL DRILLS RONG-FU SAWS RADIAL DRILLS

> ACURITE CENTROID NEWALL MITUTOYO UNIQ

MACHINE TOOL ACCESSORIES







INTERNATIONAL QUALITY IMPORT

9906 GIDLEY ST. EL MONTE, CA 91731 PH: (626)-579-9696 F: (626)-579-9697

C.P. TOOLS, INC 9906 GIDLEY ST EL MONTE, CA 91731 TEL: (626)579-9696 FAX: (626)579-9697



A. <u>Pricing:</u>

C.P. Tools prices are the lowest in the industry. If you find a lower advertised price on any identical item we sell, send us a copy of the ad or catalog page via fax or email and C.P. Tools will beat it. C.P. Tools reserves the right to limit quantities.

Prices are quoted in US Dollars. All prices are subject to change without notice. Pricing, photographic and typographical errors are subject to correction. All prices are FOB shipping point.

B. Payment Policy:

C.P. Tools conveniently accepts Check or Money Order / Cashier's check; also accept Visa, Master-Card, American Express and Discover on all orders, as well as C.O.D payments. Payment on a regular open account Invoices is due 30 days net upon date of shipment. All other terms and condition are subject to acceptance by CP Tools.

C. Special orders

Classified as non-stocking inventory; as being custom original; changed from original manufacturer's design are subject to a cancellation fee of 15% and all inbound and outbound freight charges associated with such order. Special order requests about 25% deposit.

All Special order materials such as tooling, control packages, machine tool accessories to improve the performance of the machine not supplied though normal stocking inventory of CP Tools Sales are subject to the Original Equipment Manufacturers and conditions of cancellation and restocking fee and are clearly assigned to the distributor to be satisfied.

C. Shipping

Distributors and End-Users are responsible for delivery and set-up. Our responsibility for freight damage ceases at time of shipment. All freights damage must be noted on the **B/L**. Any Order that has **VISIBLE DAMAGE** can be refused. Please make sure to take pictures of damage merchandise and attached to documents for claim approval.

D. <u>Return:</u>

Returns that are not result of C.P. Tools error may be subject to a 15% restocking charge. The customer is responsible for returning all merchandise to CP Tools. All packaging must be in original and sellable condition any alterations to original packaging may result in additional charges above the 15% restocking charge. (Example: Items returned in a box other than the original packaging making it impossible to sell as new merchandise.

Any unused C.P. Tools item may be return for credit within 30 days of ordering. Before returning any item, please call us to obtain a Return Authorization (RA) Number.

If the return is the result of C.P. Tools error, we will make arrangements for the return at C.P. Tools expense.

All Returns are FOB Destination Freight Pre-Paid unless other terms and conditions have been arranged.

E. <u>Warranty:</u>

CP Tools provides a **one-year** warranty under normal working conditions from the date of shipment to the first user. Normal working parts such as belts, bearings, and brake shoes are covered for **30** days. Electrical components and labor are covered for **90** days after installation by the first user. At CP Tools' option, we will repair or replace any defective product upon return. Freight unauthorized tampering, misuse or neglect of the machine may make this warranty null and void.

Once merchandise is delivered to a customer's facility and the customer has signed for delivery, the customer is responsible for any adjustments or changes to the merchandise. CP Tools may require customers from locations farther than the Los Angeles area to have the machines serviced by locally approved shops and be reimbursed for expenses. Customers assume responsibility for damage to the merchandise after the item has been delivered and signed for at the recipient's facility.

Warranty will be voided if customer uses an unauthorized phase converter on the merchandise.

Under no circumstances will CP Tools be responsible for any loss or any direct or consequential damage. At our option, CP Tools will repair or replace any defective product upon return, freight prepaid, to our location El Monte, CA.

If merchandise arrives damaged, customer can either refuse it or take some pictures and attach them to the shipping document. CP tools may file a claim to the trucking company to get compensated.

Unauthorized repairing, tampering, misuse or neglect of any CP Tools Sales Product subjects this warranty to null and void.

Sincerely Yours,



MILLS:

CNC ACCU KNEE MILLS W/ CENTROID CONTROL

CNC BIRMINGHAM BED MILLS W/ CENTROID CONTROL

BIRMINGHAM KNEE MILLS

BIRMINGHAM BED MILLS

MILL ATTACHMENT

LATHES:

BIRMINGHAM LATHES

DRILLING:

RONG FU MILL DRILLS

RONG FU DRILLS

BIRMINGHAM RADIAL DRILLS

SAWS:

HORIZONTAL RONG FU BANDSAWS

AUTOMATIC RONG FU SAWS

BIRMINGHAM VERTICAL SAWS

POWER HACK SAWS

GRINDERS:

MANUAL BIRMINGHAM GRINDERS

AUTOMATIC BIRMINGHAM GRINDERS

FABRICATION:

BIRMINGHAM SHEARS

BIRMINGHAM PRESS BRAKES

BIRMINGHAM BOX & PAN BRAKES

BIRMINGHAM ROLLS

BIRMINGHAM FABRICATION AND SHEET METAL - MADE IN CHINA



Catalog # 062803

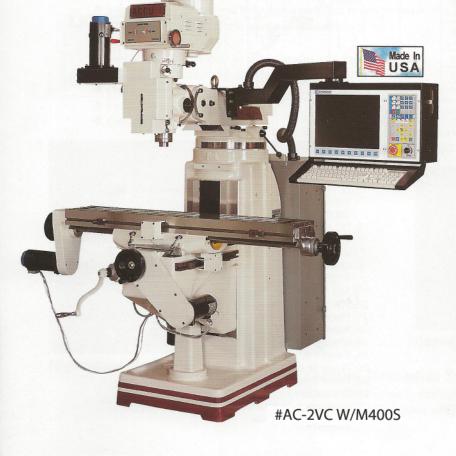
Made In

ISO 9001

CNC VERTICAL MILLING MACHINES Free On-site Training & Setup

With Centroid Made in the USA CNC Controls 2-Axis, 2-1/2-Axis, 3-Axis, 4-Axis

* 2-1/2 Axis means: X/Y CNC Servo and Z quill DRO displays on CNC console.



#AC-3KVC W/M400S

STANDARD MAIN FEATURES:

- High speed 3 D contouring
- English, French, Spanish, and Chinese language display
- 15" crystal-clear color monitor
- Easy switch from CNC to manual
- PC based with floppy & RS232, Lan ready, mouse, Keyboard
- 32 Bit digital signal processor
- Heavy Duty servo motors
- Turcite "B" coating on ways
- High grade MEEHANITE casting
- High precision C3 class ground ballscrews with double nuts, pre-loaded, angular contact bearings.
- Tech support and full one year warranty
- Include manuals and training video tape

ACCU II CNC VERTICAL MILLING MACHINES

Mill Specifications:

MODEL	AC-2SC AC-2VC AC	-2VFC	AC-3KVC	AC-3KVFC	AC-4KVC	AC-4KVFC	
TABLE SIZE/TABLE LOAD CAPACITY	9"x49"/600 lbs		10"x54"/700 lbs		10"x54"/800 lbs		
LONGITUDINAL TRAVERSE HAND ONLY	35"	35"		36"		36"	
LONGITUDINAL TRAVERSE W/ CNC	30"		32 1	/4"	32 1.	/4"	
CROSS TRAVEL	12"		14 1	/2"	16	19	
VERTICAL TRAVEL	16"		17	7 33	17	"	
QUILL FEEDS	0.0015",0.003",0.006"/	REV	0.0015",0.003	",0.006"/REV	0.0015",0.003	",0.006"/REV	
QUILL TRAVEL with CNC	4 3/4"		4 3,	/4"	4 3/	'4"	
SPINDLE TAPER	R8		R	8	NT#40 or	CAT#40	
SPINDLE MOTOR (SERVO MOTOR)	3HP (29"/LB, DC)		3HP (29",	/LB, DC)	5HP (29"/	LB, DC)	
SPINDLE SPEEDS (RPM)		0-5000 Werter	60-4300 Mech. Vari	50-5000 inverter	60-4300 Mech. Vari	50-5000 inverter	
NET WEIGHT	2200 lbs 2250 lbs		3000) lbs	3700	lbs	
AxBxC	85" x 64" x 67"		86" x 70 3	3/4" x 69"	90 1/2" x 8	31" x 72"	
D MAX	18"		20)"	21	39	
MIN	2"		3	"	4"		
E MAX	12"	1.1.1.1.1.1.1	18	3"	18	33	
MIN	0"		0	33	0"	·	
F MAX	18 3/4"		24	1"	24	"	
MIN	6 3/4"		6 3/4"		5 1/2"		
G MAX	22"		28"		28"		
MIN	8"		9	19	10"		
Performance:							
RESOLUTION:	0.0001"		0.00	101"	0.00	D1"	
REPEATABILITY/XYZ:	0.0001"	-	0.00	101"	0.00	D1"	
POSITIONING ACCURACY:	0.0002"/12"		0.0002	2"/12"	0.0002	"/12"	
RAPID TRAVERSE/XYZ:	230 IPM		230	IPM	230 1	PM	

Designs and specifications are subject to change without notice.

Centroid controls chart:

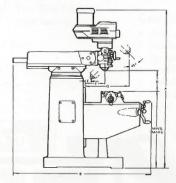
	M400S	M400	M39	M39S
4th axis CNC	N/A	optional	optional	N/A
CNC console	standard same	standard same	optional monitor	optional monitor
Programming speed control	standard	standard	optional	optional
Coolant control	standard	standard	standard	standard
Lube control	standard	standard	standard	standard
Power source	110VAC	220VAC	110VAC	110VAC

STANDARD SOFTWARE AND EQUIPMENT:

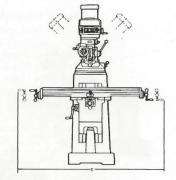
- 1. Software list see page 4 2. Auto lubrication
- 5. Rear chip guard 6. Operation & parts manuals
- Manual draw bar
 Training video tape

OPTIONAL SOFTWARE AND EQUIPMENT:

- Package B software for production, which includes subprograms & macros #10610, multiple work coordinates # 10600, and scaling & mirroring # 10625
- Package C software for mold and die, which includes unlimited file size # 10630, and scaling & mirroring #10625
- 3. Drilling cycle # 10526
- 4. Compression tapping #10620
- 5. Unlimited file size # 10630
- 6. Coordinate system rotation # 10636
- 7. Intercon off-line conversational programming (for your desktop PC) # 10730
- 8. Centroid engraving software # 10740
- 9. Online conversational software # 10729
- 10. MPG-HP 32/step/rev/w/plastic handwheel
- 11. MPG-100 step/rev w/metal handwheel
- 12. BobCAD
- 13. TT-1 tool touch-off kit w/software for atuo tool measurement
- 14. DP-4 probing package, includes DP-4 & probing cycles (7 types for setting fixtures and tool offsets)



4. Front chip guard



- 15. DP-4 digitizing package includes digitizing software includes unlimited part program size, mirror & scaling G codes, and Centroid's mold magic off-line software
- 16. DC motor upgrade to 40"/LB # 10540
- 4th axis prewire include s/w, 4th axis amplifier, cabinet prewire w/MS connector, 29"/LB motor and cable, part # 10560
- 18. Linear $4^{\rm th}$ axis includes s/w, $4^{\rm th}$ axis amplifier, motor and cable, # 10510
- 19. 150 mm rotary table with prewire part # 10560
- 20. 200 mm rotary table with prewire part # 10560
- 21. Programming spindle speed for inverter (M39 & M39s only)
- 22. Adapter plate for rotary table
- 23. Tailstock for 150/200 mm rotary table
- 24. Coolant system w/base pan
- 25. Power air draw bar
- 26. Power feed for knee
- 27. Tool holders
- 28. 6" precision anglock vise
- 29. Clamping kit & collets



CENTROID[™]

CNC Controls

Do More With a Centroid ...

- Cut parts the first day with Centroid's straight forward operation.
 Machine parts not possible with other controls.
 Get more work thru a machine with faster setup and easier programming.
 Produce more parts per hour with a better surface finishes.
 Spend less time programming and more time making chips.
- •Bring in more work and bid on higher paying jobs.

Choose Between

Full Featured M400S/M400



Dedicated Jog Buttons Spindle Control Custom Programable Aux Keys Coolant Control Feedrate Override

See "Centroid Controls Chart" on pg. 2 for more information

Economical M39/M39S



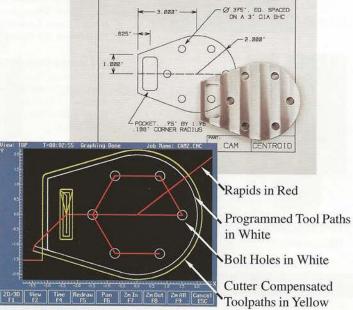
Print to Part ... In Minutes

Advanced Features come Standard

- Smart Search allows you to restart a program from any point
- Run Time Graphics allow you to graph while you cut
- Extensive Tool library
- Network Communication: ready to plug into your network
- High Speed Machining
- Conversational Programming
- # Fanuc Style G Codes
- Canned Cycles



High Speed Machining



Conversational Programming

Certified Nationwide Support

Factory trained and certified technicians provide training, sales, service and support. No matter where you are, we make sure qualified support is available.



3



CENTROID

ECENTROID Engraving

Engraving*



DP-4 Digitizing and

Probing*





TT-1 Tool Offset Measurement*



Standard Features

CNC Computer

- PC Based
- Upgradeable Software
- 3.5" Floppy Disk Drive
- Internal Solid State Hard Drive
- 15" Color LCD Display
- LAN Ready, RS232, Mouse, Keyboard and Parallel Ports
- Digital Fiber Optics

Display

- Current Position Display (DRO)
- Run Time & Parts Counter
- Program Display
- Real Time Alarm
- Message Display
- Feedrate Display
- English, French, Spanish, and Chinese Language Display

Operation

- · Icon and Soft Key-Based Menus
- Alpha-numeric Program Names
- On screen Operation Instructions
- · Part Setup Menus
- Tool Length and Diameter Setup Menus
- 3D Tool Path Graphics (G-Code Back plot)
- Full Screen Unlimited File Size Text Editor
- Backlash and Leadscrew Compensation
- Software Travel Limits
- · Auto Machine Home and Park

High Speed Machining

- Unlimited Part Program Size *
- Cuttercomp Lookahead
- High Block Throughout
- Accel / Decel Lookahead
- High Speed 3D Contouring

Tool Library Functions

- 200 Position Tool Library
- Tool Length and Radius Compensation
- Automatic Tool Length Measurement*
- Spindle Direction, Speed, and Coolant Control*



CNC Controls

- Pocket Cycles
- (Circular and Rectangular)
- Frame Mill Cycle
- (Circular and Rectangular)
- Clean out of irregular pockets
 Straight on Parend Planckets
- Straight or Ramped Plunges on Canned Cycles
- Position, Line, Arc Events
 Automatic Corner Radius
- Automatic Corner Radiu
- Copy, Repeat, Rotate, Mirror, with Nesting
- Drilling Cycles
- Tapping Cycles*
- Boring Cycles
- · Bolthole Circles (Drilling, Tapping, Boring)
- Threadmilling Cycles
- · Automatic Angle Calculator
- Graphical Math Help For Solving Angles, Intersections, Tangents; with Paste to Event
- Linear and Polar Values on Same Event
- Single key Graphing Anytime During
- Programming4 Axis, Degrees, Minutes, Seconds, or Decimal
- Degrees

M & G Code Programming

· See website for details

Control Operator Panel

- · Emergency Stop
- · Feedrate Override
- · Spindle Speed Override
- · Spindle Start / Stop
- · Spindle Auto / Manual
- · Spindle Clockwise / Counter Clockwise
- Coolant Control
- Fast / Slow Jog Buttons
- Continuous Jog or Incremental Jog (X1, X10, X100)
- · MPG Select Button
- Tool Check
- Cycle Start / Cycle Cancel
- · Feed hold, Single Block
- Axis Jogs X, Y, Z, 4th
- Tool Index +/-
- · Programmable Auxiliary Keys

* Optional Feature



Rotary Tables*

www.centroidcnc.com 814.353.9256

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Threadmilling

Catalog # 092803

Made In USA

B3VS

BIRMINGHAM CNC BED MILLS ISO 9001

Models B2VS, B3VS and B5VS with CENTROID CNC M400S and M400 Controls 3 Axis and 4 Axis CNC

Free on-site Training & Set Up



MODEL B2VS#30 W/ M-400S

MODEL B3VS W/ M-400

STANDARD FEATURES:

- 1 Inverter Drive Programmable Speeds
- 2. CNC Control Coolant system
- 3. CNC Control auto lubrication system
- 4. High precision C3 class ballscrews
- 5. Hi/Low gear drive head
- 6. High speed 3D contouring
- 7. 15" Crystal-clear color monitor
- 8. PC based w/floppy & RS 232
- 9. Heavy-duty meehanite castings
- 10. Hardened & ground square ways
- 11. Turcite-coated surfaces
- 12. Safety handwheels for all axis
- 13. Manual or automatic quill feed
- 14. Halogen work light
- 15. Power air draw bar system
- 16. Two large column guards
- 17. Table enclosure w/base pan

BIRMINGHAM CNC BED MILLS SERIES

Features and Specifications

TADLE	B2VS#30	B2VS#40	B3VS	B5VS
TABLE				
Working Surface	10" X 54"	10" X 54"	15″ x 60″	16-3/4" X 62"
X Axis Travel	30"	30"	41"	46-3/4"
Y Axis Travel	18"	18"	20"	22"
Z Asix Travel – Spindle Head	19"	19"	23"	23-1/4"
Table Load Capacity	1,500 LBS	1,500 LBS	2,200 LBS	2,600 LBS
SPINDLE HEAD				
Spindle Motor	5 HP	5 HP	5 HP	7.5 HP
Spindle Drive	AC-Programmable	AC-Programmable	AC-Programmable	AC-Programmable
Spindle Taper	N.T.30 or R-8	N.T.40 OR CAT 40	N.T.40 OR CAT 40	
Spindle Speeds	130-5, 160 RPM	130-5, 160 RPM	130-5, 160 RPM	130-5, 160 RPM
Head Swirel RH/LH	90°/90°	90°/90°	90°/90°	90°/90°
Quill Diameter	3-3/8"	3-3/8"	4-1/8"	4-1/8"
Quill Travel	5"	5"	5"	6"
Machine Net Weight	4,500 LBS	4,800 LBS	6,500 LBS	7,500 LBS
Machine Dimensions,LWH	71" x 68" x 77"	71" x 68" x 77"	77" x 75" x 88"	98" x 75" x 89"
Max. Sailing Height Required	92"	92"	104"	106"
PERFORMANCE				
Servo Motors Per Axis	29" /LB,DC	29" /LB,DC	29" /LB,DC	40" /LB,DC
Resolution	0.0001"	0.0001"	0.0001"	0.0001"
Repeatability	±0.0002"	±0.0002"	±0.0002"	±0.0002"
Radip Traverse (x.y.z.)	230 IPM	230 IPM	230 IPM	230 IPM
1 aup 11 averse (x.y.z.)	200 11 10	200 11 10	200 11 10	200 11 101

* Design and specificaitons are subject to change without notice

M-400 / M-400S CONSOLE



OPTIONAL SOFTWARE FOR M400 / M400S

- Package B software for production, which includes subprograms & macros #10610, multiple work coordinates # 10600, and scaling & Mirroring # 10625
- 2. Package C software for mold and die, which includes unlimited file size # 10630, and scaling & mirroring # 10625
- 3. Drilling cycle # 10526
- 4. Compression tapping # 10620
- 5. Unlimited files size # 10630
- 6. Coordinate system rotation # 10636
- 7. Intercon off-line conversational programming (for your desk top PC) # 10730
- 8. Centroid engraving software # 10740
- 9. Online conversational software # 10729
- 10. MPG-HP 32/step/rev w/plastic handwheel
- 11. MPG-100 step/rev w/metal handwheel
- 12. BobCAD
- 13. TT-1 tool touch-off kit w/software for auto tool measurement

- 14. DP-4 probing package, includes DP-4 & probing cycles (7 types for setting fixtures and tool offsets)
- 15. DP-4 digitizing package includes digitizing software includes unlimited part program size, mirror & scaling G codes, and Centroid's mold magic off line software
- 16. DC motor upgrade to 40"/LBS # 10540
- 17. 4th axis prewire includes s/w 4th axis amplifier, 4th axis drive and cabinet prewire w/MS connector
- 4th axis prewire include s/w, 4th axis amplifier, cabinet prewire w/MS connector, 29"/LB motor and cable, part # 10560
- 19. Linear $4^{\rm th}$ axis includes s/w, $4^{\rm th}$ axis amplifier, motor and cable, # 10510
- 20. 150 mm rotary table with prewire part # 10560
- 21. 200 mm rotary table with prewire part # 10560
- 22. Adapter plate for rotary table
- 23. Tailstock for 150/200 mm table
- 24. Tool holders
- 25. 6" precision anglock vise
- 26. Clamping kit & collets

M400 / M400S Comparison Chart:

	M400	M400S
4TH Axis CNC Upgradeable	Yes	N/A
CNC Console	Same	Same
Power Source	220 VAC	110 VAC

DISTRIBUTED BY:



"C" - CLASS KNEE - TYPE MILLS

Superior Taiwan Engineering With Cost Saving Benefits of China Body

SAFETY / RELIABILITY / PERFORMANCE

BEST BUY • BEST FEATURES

Catalog # 20020510

ISO 9002

Models: BPS-1649-C BPS-1054-C BPV-3949F-C

BPV-3949-C BPV-1054-C BPV-1054F-C

Standard Features:

- High quality Taiwan-made mill head
- High precision China-made mill body
- Super strong column and base
- Low maintenance machines
- High precision leadscrews
- Satin chrome finished dials
- Built-in coolant column base
- Double knee and table locks
- Ram equipped w/ double locks
- Large diameter quill is chromed
- One-piece guill pinion and shaft
- Spindle head is internally cooled
- Hardened & ground ways and table
- Heavy-duty motor 3 phase or 1 phase
- High precision class 7 spindle bearings
- Three-stage power downfeed w/ auto stop
- One year warranty and 2nd year extended



BIRMINGHAM "C" - CLASS KNEE MILLS



BPS-1649-C

- R8 SPINDLE
- 9" x 49" TABLE
- STEP PULLEY, 16 SPEEDS (8 SPEEDS FOR1Ø)
- HIGH GRADE CAST IRON FRAME
- DOVETAIL GUIDEWAYS
- GROUND TABLE T-SLOTS
- HARDENED & GROUND WAYS
- HARDENED & GROUND TABLE
- BUILT-IN COOLANT BODY

BPV-3949-C

9" X 49" TABLE

- TILTING & ROTATING HEAD
- CHROMED GROUND QUILL
- HAND & POWER SPINDLE FEEDS
- POWER: 220V OR 440V, 3Ø (220V, 1Ø)

BPS-1649-C 9" X 49" TABLE

BPV-3949-C BPV-3949F-C*

- R8 SPINDLE
- 9" x 49" TABLE
- VARIABLE SPEEDS
- HIGH GRADE CAST IRON FRAME
- DOVETAIL GUIDEWAYS
- GROUND TABLE T-SLOTS
- HARDENED & GROUND WAYS
- HARDENED & GROUND TABLE
- BUILT-IN COOLANT BODY
- TILTING & ROTATING HEAD
- CHROMED GROUND QUILL
- HAND & POWER SPINDLE FEEDS
- POWER: 220V / 440V DUAL, 3Ø (220V, 1Ø)
- * BPV-3949F-C equipped with EVS head driven by Japanese Yaskawa inverter with electrical cabinet

BIRMINGHAM "C" - CLASS KNEE MILLS



BPS-1054-C

- R8 SPINDLE
- 10" x 54" TABLE
- STEP PULLEY, 16 SPEEDS (8 SPEEDS FOR1Ø)
- HIGH GRADE CAST IRON FRAME
- BOX WAYS ON Y AXIS & Z COLUMN
- HARDENED & GROUND WAYS
- HARDENED & GROUND TABLE
- GROUND WORK TABLE T-SLOTS
- BUILT-IN COOLANT BODY
- TILTING & ROTATING HEAD
- CHROMED GROUND QUILL
- HAND & POWER SPINDLE FEEDS
- POWER: 220V OR 440V, 3Ø (220V, 1Ø)

BPS-1054-C 10" X 54" TABLE

BPV-1054-C BPV-1054F-C*

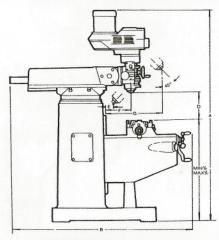
- R8 SPINDLE
- 10" x 54" TABLE
- VARIABLE SPEED
- HIGH GRADE CAST IRON FRAME
- BOX WAYS ON Y AXIS & Z COLUMN
- HARDENED & GROUND WAYS
- HARDENED & GROUND TABLE
- GROUND WORK TABLE T-SLOTS
- BUILT-IN COOLANT BODY
- TILTING & ROTATING HEAD
- CHROMED GROUND QUILL
- HAND & POWER SPINDLE FEEDS
- POWER: 220V / 440V DUAL, 3Ø (220V, 1Ø)
- * BPV-1054F-C equipped with EVS head driven by Japanese Yaskawa inverter with electrical cabinet

BPV-1054-C 10" X 54" TABLE

SPECIFICATIONS FOR "BIRMINGHAM" - "C" Class Knee Mills

MODEL	BPS-1649-C	BPV-3949-C / BPV-3949F-C	BPS-1054-C	BPV-1054-C / BPV-1054F-C
TABLE SIZE	9" X 49"	9" X 49"	10" X 54"	10" X 54"
TABLE LOAD CAPACITY	600LBS	600LBS	800LBS	800LBS
TABLE T-SLOT SIZE	5/8" X 3	5/8" X 3	5/8" X 3	5/8" X 3
LONGITUDINAL TRAVEL HAND ONLY	36″	36″	36″	36″
LONGITUDINAL TRAVEL W/ POWER FEED	33"	33"	34 1/4"	34 1/4"
CROSS TRAVEL	13 1/4"	13 1/4"	18"	18"
VERITCAL TRAVEL	16"	16"	18"	18"
RAM TRAVEL	12"	12"	18"	18"
QUILL FEED SPEEDS	0.0015", 0.003", 0.006"/REV	0.0015", 0.003", 0.006"/REV	0.0015", 0.003", 0.006"/REV	0.0015", 0.003", 0.006"/REV
QUILL TRAVEL	5"	5"	5"	5"
SPINDLE TAPER	R8	R8	R8	B8
QUILL DIAMETER	3 3/8"	3 3/8"	3 3/8"	3 3/8"
HEAD SWIVEL RH/LH	90°/90°	90°/90°	90°/90°	90°/90°
HEAD TILTING F / B	45°/45°	45°/45°	45°/45°	45°/45°
RAM TURRET SWIVEL	360°	360°	360°	360°
SPINDLE MOTOR	3HP,3Ø (2HP, 1Ø 8 SPEEDS)	3HP, 3Ø, (3HP 1Ø),	3HP,3Ø (2HP, 1Ø 8 SPEEDS)	3HP, 3Ø, (3HP 1Ø)
SPINDLE SPEEDS TYPE	STEP PULLEY	VARI-SPEED / EVS	STEP PULLEY	VARI-SPEED / EVS
SPINDLE SPEEDS (RPM)	90-5600(16 SPEEDS)	BPV 60-4300(VARI)	90-5600(16 SPEEDS)	BPV 60-4300(VARI)
	90-2800(8 SPEEDS)	BPV-F 65-5000(EVS)	90-2800(8 SPEEDS)	BPV-F 65-5000(EVS)
NET WEIGHT	2500 LBS	2600 LBS	3500 LBS	3600 LBS
AXBXC	86" X 68" X 67"	86" X 69" X 67"	89" X 81" X 72"	89" X 81" X 72"
D MAX	18"	18"	18 3/4"	18 3/4"
MIN	2"	2"	2"	- 2"
EMAX	12"	12"	12"	12"
MIN	0"	0"	0"	0"
F MAX	18 3/4"	18 3/4"	20"	20"
MIN	6 3/4"	6 3/4"	6 3/4"	6 3/4"
G MAX	20 3/4"	20 3/4"	25"	25"
MIN	8 3/4"	8 3/4"	9"	9"

* ALL SPECIFICATION & MACHINE DESIGN SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.



BPS-1649-C BPS-1054-C BPV-3949F-C

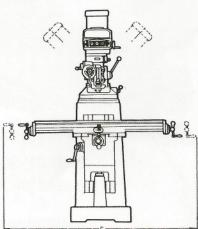
STANDARD EQUIPMENT

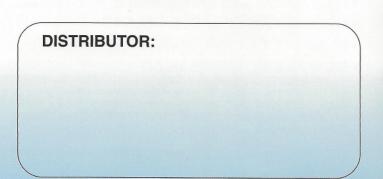
- (1) Tool box 1 set
- (2) Front chip guard 1 pc
- (3) Rear chip guard 1 pc
- (4) Draw bar 1 pc
- (5) One shot lube

BPV-3949-C BPV-1054-C BPV-1054F-C

OPTIONAL EQUIPMENT

- (1) Coolant system
- (2) Power feed for X,Y, Z
- (3) Halogen worklight
- (4) Electric control box
- (5) Cutter holder
- (6) Vise
- (7) Clamping kit set
- (8) Digital readout
- (9) Base coolant drop pan
- (10) Power air draw bar unit
- (11) NMTB # 30 spindle





BPS-B3S STANDARD FEATURES:

- 12"x60" TABLE, STEP PULLEY HEAD
- NMTB 40 OR CAT 40 SPINDLE
- 105mm HARDENED & GROUND CHROMED QUILL
- 3HP SPINDLE MOTOR W/BRAKE
- HIGH GRADE MEEHANITE CASTING
- GROUND TABLE T SLOTS
- · BOX WAY ON Y, Z AXIS
- HARDENED & GROUND TABLE & 3 AXIS WAYS
- X. Y. Z AXIS AC INVERTER DRIVE POWER FEEDS
- TURCITE "B" COATING ON X/Y AXIS WAYS
- CLASS 7 PRECISION SPINDLE BEARINGS
- FLOOD COOLANT SYSTEM
- SAFETY HANDWHEELS
- BASE CHIP/COOLANT DROP PAN
- AUTO LUBRICATION WITH TIMER
- LOW VOLTAGE HALOGEN WORKLIGHT
- CONTROL PANEL W/ELECTRIC CABINET
- Z AXIS FLEXIBLE RUBBER GUARD
- STAINLESS STEEL WAY COVER ON FRONT Y AXIS
- BPV-B3V equipped with EVS head driven by yaskawa inverter with 5HP spindle motor with brake.

OPTIONAL EQUIPMENT:

BPV-B2V30 • BPS-B2S30

- POWERED AIR DRAW BAR.
- 3 AXIS PRECISION BALL SCREWS .
- POWER FEED UNIT FOR X. Y. AXIS.
- MILLING VISE.
- MILLING CHUCK & COLLET SET.
 CLAMPING KIT SET.
- MILLING CHUCK & COLLET SET.

· POWERED AIR DRAW BAR.

HEAVY DUTY POWER FEED.

3 AXIS PRECISION BALL SCREWS.

Y AXIS AC INVERTER DRIVE BUILT-IN

BPV-B2V40 • BPS-B2S40

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CLAMPING KIT SET.

MILLING VISE.

· DIGITAL READOUT.

BPS-B3S • BPV-B3V

- 3 AXIS PRECISION BALL SCREWS WITH BRAKE MOTORS.
- POWERED AIR DRAW BAR.

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例

- MILLING VISE.
- MILLING CHUCK & COLLET SET.
- CLAMPING KIT SET.
- DIGITAL READOUT.

- COOLANT SYSTEM .
 DIGITAL READOUT.
- 3



BPV-B2V30 STANDARD FEATURES:

- 10"X54" TABLE
- VARIABLE SPEED
- NMTB 30 OR R8 SPINDLE
- HIGH GRADE MEEHANITE CASTING
- GROUND TABLE T SLOTS
- BOX WAY ON Y, Z AXIS
- HARDENED & GROUND TABLE & 3 AXIS WAYS
- Z AXIS RAPID UP/DOWN W/AC MOTOR
- TURCITE "B" COATING ON X/Y AXIS WAYS
- CLASS 7 PRECISION SPINDLE BEARINGS
- FLOOD COOLANT SYSTEM
- SAFETY HANDWHEEL ON Z AXIS
- BASE CHIP/COOLANT DROP PAN
- AUTO LUBRICATING WITH TIMER
- LOW VOLTAGE HALOGEN WORKLIGHT
- CONTROL PANEL W/ELECTRIC CABINET
- Y. Z AXIS FLEXIBLE RUBBER GUARDS

BPV-B2V40 STANDARD FEATURES:

- 10"x54" TABLE
- VARIABLE SPEED
- NMTB 40 OR CAT 40 SPINDLE
- 105mm HARDENED & GROUND CHROMED QUILL
- HIGH GRADE MEEHANITE CASTING
- GROUND TABLE T SLOTS
- BOX WAY ON Y, Z AXIS
- HARDENED & GROUND TABLE & 3 AXES WAYS
- X & Z AXIS AC INVERTER DRIVE POWER FEEDS
- TURCITE "B" COATING ON X/Y AXIS WAYS
- CLASS 7 PRECISION SPINDLE BEARINGS
- FLOOD COOLANT SYSTEM
- SAFETY HANDWHEEL ON Z AXIS
- BASE CHIP/COOLANT DROP PAN
- AUTO LUBRICATION WITH TIMER
- LOW VOLTAGE HALOGEN WORKLIGHT
- CONTROL PANEL W/ELECTRIC CABINET
- Y. Z AXIS FLEXIBLE RUBBER GUARDS

MAJOR FEATURES

- MACHINE STRUCTURE ARE
 MADE OF HIGH QUALITY
 MEEHANITE CAST IRON.
- HEAVILY RIBBED, TENSION RELEASED MACHINE FRAME GUARANTEES CONSTANT ACCURACY AND STABILITY.
- ALL SLIDEWAYS AND TABLE SURFACE ARE WELL HARDENED AND GROUND.
- SUPER-WIDE SQUARE Y-AXIS SLIDEWAYS; 16 1/2" FOR B2V, 20 1/2" FOR B3V, B4V.

- X, Y SLIDEWAYS ARE COATED WITH TURCITE-B.
- COUNTER-BALANCE-WEIGHT
 EQUIPPED ON Z-AXIS DELIVERS
 STABLE MOVEMENT.
- X-AXIS IS EQUIPPED WITH AC REDUCING MOTOR AND CONTROLLED BY INVERTER AS STANDARD; SAME EQUIPMENT AVAILABLE ON Y & Z-AXIS.
- ELECTRO MAGNETIC BRAKE SYSTEM FOR SPINDLE, STANDARD FOR B3V, B4V.
- HIGH TORQE BELT DRIVE DELIVERS HEAVY-DUTY CUTTING & BORING CAPACITY AND PRECISION.
- POWER QUILL DOWNFEED WITH AUTOMATIC STOP AND RETRACT FOR BORING AND DRILLING.
- MILLING HEAD TILTS 45° LEFT & RIGHT, DELIVERS ANGULAR MACHINING CAPACITY.

BPV-B4V

STANDARD FEATURES:

- 15"x60" TABLE
- INVERTER DRIVE HEAD
- NMTB 40 OR CAT 40 SPINDLE
- 110mm HARDENED & GROUND CHROMED QUILL
- X. Y. Z AXIS PRECISION BALLSCREWS WITH BRAKE MOTORS.
- 5HP SPINDLE MOTOR W/BRAKE
- HIGH GRADE MEEHANITE CASTING
- GROUND TABLE T SLOTS
 BOX WAY ON Y, Z AXIS
- HARDENED & GROUND TABLE & 3 AXIS WAYS
- XYZ AXIS AC INVERTER DRIVE POWER FEEDS
- TURCITE "B" COATING ON X/Y AXIS WAYS
- CLASS 7 PRECISION SPINDLE BEARINGS
- DIAL INDICATOR ON QUILL TRAVEL
- FLOOD COOLANT SYSTEM
- SAFETY HANDWHEELS
- BASE CHIP/COOLANT DROP PAN
- AUTO LUBRICATION WITH TIMER
- LOW VOLTAGE HALOGEN WORKLIGHT
- CONTROL PANEL W/ELECTRIC CABINET
- Z AXIS FLEXIBLE RUBBER GUARD
- STAINLESS STEEL WAY COVER ON FRONT Y AXIS
- X AXIS TWO HANDWHEELS DESIGN

OPTIONALS:

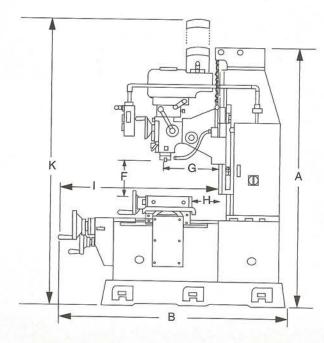
- · AIR DRAW BAR.
- · MILLING VISE.
- MILLING CHUCK & COLLET SET.
- CLAMPING KIT SET.
- DIGITAL READOUT.

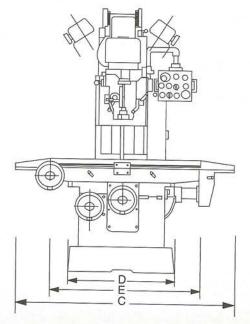
SPECIFICATIONS

FOR "BIRMINGHAM" Bed Mills

MODEL	BPV-B4V	BPS-B4S	BPV-B3V	BPS-B3S	BPV-B2V30	BPS-B2S30	BPV-B2V40	BPS-B2S40
TABLE WORKING SURFACE	15";	× 60"	10"	X 60"				
TABLE LOAD CAPACITY	2,500LBS		12"×60" 2,200LBS		10"×54"		10"×54"	
TABLE T-SLOT SIZE	18mm×3				1,500		1,50	OLBS
LONGITUDINAL TRAVEL		2"		m×3	16mr	141		m×3
CROSS TRAVEL	11102	0"	4:	the second s	31	The second s	30	1/2 "
VERTICAL TRAVEL		5% n		0" 5/ "	17		17	1/2 "
LONGITUDINAL FEEDS	Contraction Contraction	inch/min.(VAR.)		5/8 "	195	405700	- Contraction of the second	5% "
CROSS FEEDS	100 H 100	inch/min.(VAR.)	0~10 ¹ / ₈ ~ 43 ¹ / ₄ i		MAN			nch/min.(VAR.)
VERTICAL FEEDS		nch/min.(VAR.)	0~10 ¹ / ₈ ~ 43 ¹ / ₄ i		MAN		(OPT.)0~ ⁷ / ₈ ~ 33	3/4 inch/min.(VAR.)
QUILL TRAVEL	6		0~ 1/8 ~ 33 3/4 in	and a second between the	0-33 ³ /4 inch/n		0~ 1/8 ~ 33 3/4 ir	nch/min.(VAR.)
QUILL DIAMETER			5		5'		5	in .
QUILL FEEDS	110mm	and the second sec	105mm	and the second second	85.72mm	(3 3/8")	105mm	n(4.13")
SPINDLE TAPER	0.0015,0.003		0.0015, 0.003		0.0015, 0.003	,0.006"/REV	0.0015, 0.003	3,0.006"/REV
SPINDLE SPEEDS TYPE	NT/C/		INVERTER	A COMPANY OF A COMPANY	R8 OR	NT 30	NT/C	AT 40
SPINDLE SPEED (RPM)	VARIABLE	10 SPEEDS	VARIABLE	10 SPEEDS	VARIABLE	16 SPEEDS	VARIABLE	16 SPEEDS
SPINDLE MOTOR	65-5000	60-3000	65-5000	60-3000	70-4300	90-5600	70-4300	90-5600
LONGITUDINAL MOTOR	5HP WITH		5HP WITH BRAKE	3HP WITH BRAKE	3HP	ЗНР	5HP	3HP
CROSS MOTOR	1HP WITH	Mic. activity	1H	IP	MANU	JAL	1/2	HP
	1HP WITH		1H	IP ·	MANU	JAL	(OPT.1	/2HP)
VERTICAL MOTOR	1/2HP WIT		1/2	HP	1/2F	IP	1/2	HP
COOLANT PUMP	1/81	HP	1/81	HP	(OPT. 1	/8HP)	1/8	HP
MACHINE DIMENSIO	NS		h mai ha in S					
A/OVERALL HEIGHT HEAD	99)"	99	ņ	89 3/	<i>'</i> 4"	89 3	/4"
COLUMN	85 3	/8"	85 3	/8"	78'	e	78	
B/OVERALL DEPTH	70)"	70	11	59'	(59	and the second se
C/OVERALL WIDTH	93	tu.	93	n,	71 1/	2"	71 1	
D/OVERALL CROSS WAY WIDT	⁻ H 20 1	/2"	20 1	/2"	16 1/	2"	16 1	
E/SADDLE LENGTH	47 1	/4"	47 1	/4"	26'		26	
F/TABLE TO SPINDLE MIN.	4ª		3 3/4	8"	3 1/3	311	3 1/	
MAX.	27 1	/2"	27'	n,	23 1/	4"	23 1	
G/QUILL CENTER TO COLUMN	20		20'	,	18"	A CONTRACTOR OF THE OWNER	18	
H/COLUMN TO TABLE MIN.	1/2		2"	and the second second	3 5/1	and the second s	210.00	
MAX.	21 1/	/2"	22'		20 7/		3 5/1	
COLUMN TO HANDWHEEL	47 1/	/4"	47 1/	'4"	42 1/		20 7	
J/HEAD SWIVEL	RIGHT & LEFT	, EACH 45*	RIGHT & LEFT,	EACH 45*	RIGHT & LEFT,		42 1	
K/MAX.	99'	r.	99"		89 3/4	1940	RIGHT & LEFT	NAMES OF A DESCRIPTION OF
MACHINE WEIGHT	6300	lba	5800		03 3/	and the second second second	89 3	/4

*ALL SPECIFICATION & MACHINE DESIGN SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.



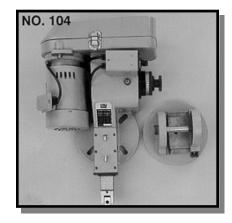


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C.P. TOOLS SPINDLE ATTACHMENTS:



SLOTTING ATTACHMENTS



FEATURES:

4" SLOTTING STROKE UNIVERSAL MOUNTING SYSTEM ALLOWS MOUNTING ON ANY TYPE OF MILLING MACHINE AT THE BACK OF RAM. EASY TO ADJUSTABLE RAM STROKE DESIGNED TO CUT ANY TYPE OF KEYWAY GROOVE OR CONICAL OR FLAT SURFACE WEIGHT: 240 LBS

FITS MOST MILLS

RIGHT ANGLE ATTACHMENTS

HORIZONTAL MILL ATTACHMENT

Universal Right angle Milling Head: Complete with 1" milling arbor and Dove Tail Support for 50 to 60 degree dovetail.

Features: : Available for R-8- 30 & 40 Taper Standard 3-3/8" Quill Dia or Large 4-3/8" Rugged two piece cast design, precision bearings for accurate cutting. Right Angle Attachment provide great machining capabilities of any conventional vertical mill.



Right angle attachment may be purchased separately from kit

Accu-Vertical Mill Birmingham Products

9906 Gidley St. El Monte, Ca 91733 T: (626)-579-9696 F: (626)-579-9697

BIRMINGHAM PRECISION GEARED HEAD BENCH LATHE

FEATURES:

- FLOOR STANDS ARE INCLUDED
- 2HP, 220V, 1 PHASE MAIN MOTOR
- D1-4 SPINDLE WITH 1 1/2" THRU BORE
- 9 SPINDLE SPEEDS FROM 70 1,400 RPM
- 40 KINDS OF INCH THREADS FROM 112-4 TPI
- AUTOMATIC LONGITUDINAL & CROSS FEEDING
- MAIN SPINDLE HARDENED & PRECISION GROUND
- BED MADE OF FINE GRAIN HIGH TENSILE CAST IRON
- BEDWAYS INDUCTION HARDENED & PRECISION GROUND
- SPLINED SHAFTS IN HEADSTOCK HARDENED & PRECISION GROUND
- JOG BUTTON FOR EASY GEAR ENGAGEMENT AND INCHING SPINDLE
- EMERGENCY STOP BUTTON LOCATED ON THE FRONT OF HEADSTOCK

MODEL: YCL-1236GH

SPECIFICATIONS

	ITEM / MODEL	YCL - 1236GH		
	Max. swing over bed	12"		
ŝ	Distance between centers	36"		
CAPACITIES	Max. swing over Carriage	7"		
APAG	Max. swing in gap	17"		
3	Effective length in gap	5"		
	Width of bed	7 1/4"		
X	Spindle Nose	D1-4		
HEADSTOCK	Diameter of spindle thru bore	1 1/2"		
ADS	Taper of spindle center	M.T. #5 (reducing sleeve M.T. #5 / M.T. #3)		
Η̈́	Spindle speeds, 9 steps	70-1,400 RPM, 70, 200, 220, 270, 360, 600, 800, 1,000, 1,400 RPM		
	Longitudinal feeds	.0011"0311" / REV., 40 kinds		
SS &	Cross feeds	.0004"0105" / REV., 40 kinds		
FEEDS & THREADS	Metric threads	0.2 - 4.5 MM, 30 kinds		
	Inch threads	112 – 4 TPI, 40 kinds		
ж	Max. travel of cross slide	6 7/8"		
CARRIAGE	Max. travel of top slide	3 3/4"		
CA	4 - way tool post capacity	3/4" × 3/4"		
č	Diameter of tailstock quill	1 1/4"		
TAILSTOCK	Taper of tailstock quill center	M.T. #3		
TAII	Max. travel of tailstock quill	4"		
К	Power of main motor	2 HP, 220V, 1 PHASE		
WEIGHT & MOTOR	Overall dimensions (WxLxH), w/stands	61" x 28" x 50"		
HT &	Overall dimensions (WxLxH), w/o stands	61" x 28" x 24"		
WEIG	Net weight	1,250 lbs (w/o stands 1,000 lbs)		

STANDARD EQUIPMENT:

- Follow Rest
- 10" Face Plate
- 6" 3-jaw Chuck
- 8" 4-jaw Chuck
- 3 3/4" Steady Rest
- Operation & Parts Manuals

OPTIONAL EQUIPMENT:

- Quick Tool Changer
- Halogen Work Light
- Taper Turning Attachment
- 5-C Lever Type Collet Closer

- Design and specifications are subject to change without notice.
- Removable Gap
- 4-way Tool Post
- Thread Chasing Dial
- Center & Sleeve
- Tool Kit with Tools
- Full Length Splash Guard

DISTRI	BUTOR:	1000		

BIRMINGHAM

ALL GEAR HEAD BENCH LATHE WITH FLOOR STAND



May different feed box style

	公制METRIC	英制INCH	
床身上最大回转直径	300mm	12"	
中拖板上最大回转直径	180mm	7"	
床鞍上最大回转直径	430mm	17" nm	
两顶尖间最大距离	910 mm	36"	
主轴通孔直径	38mm	1 <u>1</u> "	
主轴孔莫氏锥度	MT #5		
主轴转速	65–1400rpm		
纵向削量范围	0.079-1.291 mm/rev	0.003" -0.0508" /rev	
横向切削量范围	0.017-0.276 mm/rev	0.0007" -0.0108" /rev	
公制螺距范围	0.4–7mm		
英制螺距范围	4-60	TPI	
尾座套筒的最大移动量	100mm	4"	
尾座套筒莫氏锥度	MT#:	3	
电机功率	1.5kw	2 HP	
毛重	590 KGS	1928 LBS	
净重	540KGS	1188 LBS	
包装尺寸	1680 ×750×1400mm	66" x 30" x 55"	
	中拖板上最大回转直径 床鞍上最大回转直径 两顶尖间最大距离 主轴通孔直径 主轴通孔度低锥度 主轴转速 线向削量范围 横向切削量范围 後向切削量范围 尾座套筒的最大移动量 尾座套筒的最大移动量 尾座套筒真低锥度 电机功率	床身上最大回转直径 300mm 中拖板上最大回转直径 180mm 床鞍上最大回转直径 430mm 原顶尖间最大距离 910 mm 方前近尖间最大距离 910 mm 主轴通孔直径 38mm 主轴孔莫氏锥度 017 mm 主轴转速 65-140 线向削量范围 0.017-0.276 mm/rev 横向切削量范围 0.017-0.276 mm/rev 发制螺距范围 100mm 尾座套筒的最大移动量 100mm 尾座套筒莫氏锥度 MT# 毛虹功率 1.5kw 毛重 590 KGS 海重 540 KGS	

BIRMINGHAM ALL GEAR HEAD BENCH LATHE WITH FLOOR STAND



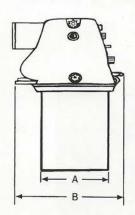
MODEL: YCL-1340GH

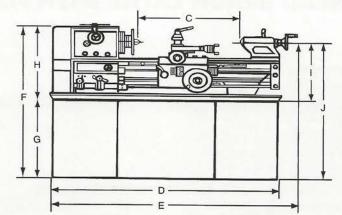
FEATURES:

- LATHE BED IS CONSTRUCTED OF HIGH TENSILE STRENGTH CAST IRON, RIGID STRUCTURE WITH HARDENED AND GROUND WAYS.
- PRECISION MAIN SPINDLE LOADED ON HIGH QUALITY PRECISION BEARINGS (2ea) 30212-30210.
- 8 SPEED HEADSTOCK WITH 70 TO 2,000 RPM. SPEED CHANGES BY HEADSTOCK QUICK CHANGE LEVER ACTION.
- PERMANENTLY FILTERED OIL HEADSTOCK BATH PROVIDES CLEAN RUNNING OIL FOR LONG LIFE OF BEARINGS & GEARS.
- 2 HP MAIN MOTOR HEAVY DUTY FOR ITS CLASS, WIRED 220 SINGLE PHASE.
- MANUFACTURE INCLUDES HEAVY DUTY FLOOR STANDS, ALONG WITH FULL LENGTH SPLASH GUARD AS STANDARD EQUIPMENT.

BIRMINGHAM

ALL GEAR HEAD-BENCH LATHE WITH FLOOR STAND





	YCL-1340GH			
A	438mm	17-1/4"		
в	740mm	29-1/4"		
C	1015mm	40"		
D	1747mm	68-3/4"		
E	1840mm	72-1/2"		
F	1290mm	50-13/16"		
G	680mm	26-3/4"		
H	605mm	23-13/16"		
1	480mm	18-7/8"		
J	1165mm	45-7/8"		

YCL-1340GH

MODEL	YC	YCL-1340GH			
Specification	metric	inch			
Swing over bed	330 mm	13"			
Swing over cross slide	200 mm	8"			
Swing over gap	476 mm	18-3/4"			
Width of gap	200 mm	7-7/8"			
Distance between centers	1015 mm	40"			
Length of bed	1658 mm	65-1/4"			
Width of bed	187 mm	7-3/8"			
Hole thru spindle	35 mm	1-3/8"			
Tailstock spindle travel	95 mm	3-3/4"			
Cross slide travel	175 mm	6-7/8"			
Top tool slide travel	85 mm	3-3/4"			
Saddle travel	895 mm	35-1/4"			
Headstock spindle taper	MT-5				
(Morse taper)	D	1-4			
Tailstock spindle taper	MT-3				
Range of spindle speed	8 speeds	70-2000			
Lead screw diameter	22 mm	7/8"			
Feed rod diameter	19 mm	3/4"			
Thread per inch of lead screw	23 mm	40			
Thread cutting range	0.25-11	4-112 TPI			
Main spindle motor	2	HP			
Net weight without stand	395 KG	900 LB			
Net weight with 27" stand	495 KG	1,100 LB			
Package size without stand	1860x780x760	73-1/4"x30"x33"			

STANDARD FEATURES:

- 1. Motor pulley
- 2. Back plate for three-jaw chuck
- 3. Back plate for four-jaw chuck
- 4. Center sleeve MT-5
- 5. Center (MT-5)
- 6. Tool box
- 7. Change gear for threading
- 8. Tool post wrench
- 9. Allen wrenches
- 10. Open end wrench
- 11. Screw driver
- 12. Oil gun
- 13. 4 way tool post
- 14. 3-jaw scroll chuck
- 15. 4 jaw independent chuck
- 16. Steady rest
- 17. Follow rest
- 18. Floor stand
- 19. Splash guard
- 20. Motor 2HP
- 21. Face plate 11-3/4"

OPTIONAL ACCESSORIES:

- 1. 5C lever collet chuck
- 2. 4 position saddle stop
- 3. Taper turning attachment
- 4. Digital readout system

BIRMINGHAM ALL GEAR HEAD BENCH LATHE WITH FLOOR STAND



ntems/项目		Specification/技术参数			
Max.swing over bed	床身最大回转直径	330mm (13")		
Max.swing over cross slide	中拖板上最大工件回转	直径 198mm(7-25/32")			
Max.swing over gap	床鞍上最大回转直径	476mm (18–3/4")			
Admits between centers	两顶尖间最大距离	750mm(30") 1000mm(40")			
Spindle bore	主轴孔径	38mm or 52mm(optional) 1–1/2 " or 2–2/5 " (o			
Taper of spindle bore	主轴孔莫氏锥度	NO.5morse			
Range of spindle speed	主轴转速	70–2000 r.p.m. (2speed motor)			
Range of horizontal feeds	纵向切削量范围	20 Nos. 0.052–1.392 mm / r 16 Nos. 0.078–1.044 mm / r			
Range of cross feeds	横向切削量范围	20 Nos. 0.014–0.38 mm / r 16 Nos. 0.018–0.238 mm / r			
Range of metric threads	公制螺距范围	26 Nos. 0.4–7 mm 32 Nos. 0.45–10 mm			
Range of inch threads	英制螺距范围		56–4 T / inch 40–2.5 T / inch		
Max.Travel of tail stock quill	尾座套筒的最大移动量	100m	ım (4")		
Taper of tail stock quill	尾座套筒莫氏锥度	NO.S	3 morse		
Power of motor	电机功率	1.5 KW	2 HP		
Packing Size	包装尺寸	1740 × 750 × 1510mm	68.5" x 29.5" x 59"		
Net Weight	净重	570/640kg	1254 / 1408 lbs		
Gross Weight	毛重	620/690kg	1364 /1518 lbs		

BIRMINGHAM HIGH SPEED PRECISION GAP BED LATHE



FEATURES:

- 3 HP MAIN MOTOR
- NO CHANGE GEARS REQUIRED
- 16 SPEEDS FROM 45-1,800 RPM
- D1-4 SPINDLE WITH 1 1/2" BORE
- 40 KINDS OF INCH THREADS FROM 4-112 TPI
- REMOVABLE GAP BED FOR LARGE DIAMETER WORK
- MAGNETIC CONTROLS AND SPINDLE FOOT BRAKE
- T-SLOTTED COMPOUND AND FRONT PULL-OUT CHIP TRAY
- MAIN SPINDLE HARDENED & PRECISION GROUND
- BED MADE OF FINE GRAIN HIGH TENSILE CAST IRON
- BEDWAYS INDUCTION HARDENED & PRECISION GROUND
- ALL GEARS & SHAFTS HARDENED & PRECISION GROUND
- MAIN SPINDLE SUPPORTED AT 2-POINT BY PRECISION BEARINGS

YCL-1440GH

SPECIFICATIONS

	ITEM / MODEL		YCL-1440GH		
	Max. swing over bed		14"		
ŝ	Distance between centers		40"		
CAPACITIES	Max. swing over cros	ad 14" centers 40" ross slide 8 5/8" 20" 20" gap 6 1/4" 8 1/8" 8 1/8" dle mount) D1-4 e thru bore 1 1/2" sleeve) M.T. #5 (M.T. #3) 45-1,800 RPM, 16 steps - 45, 70, 90, 108, 140, 165, 215, 385, 510, 585, 770, 900, 1,170, 0,0012 - 0.0294"/REV. (40 kinds) Optional: 1ph 90-1,800 RPM, 8 steps - 90, 385, 510, 585, 770, 900, 1,170, 0,0012 - 0.0294"/REV. (40 kinds) 0.0012 - 0.0294"/REV. (40 kinds) 0.0003 - 0.01"/REV. (40 kinds) 0.45 - 7.5 mm (22 kinds) eadscrew rgs slide 7" pound slide 4" 5/8" x 5/8" 5/8" x 5/8"	8 5/8"		
PAG	Max. swing in gap		14" 40" 8 5/8" 20" 6 1/4" 8 1/8" D1-4 1 1/2" M.T. #5 (M.T. #3) 1,800 RPM, 16 steps - 45, 70, 90, 108, 140, 165, 215, 255, 330, 385, 510, 585, 770, 900, 1,170, 1,800 RPM 0,0012 - 0,0294"/REV. (40 kinds) 0,0003 - 0,01"/REV. (40 kinds) 4 - 112 TPI (40 kinds) 0,45 - 7.5 mm (22 kinds) 7/8" 8 TPI 7" 4" 5/8" x 5/8"		
CA	Effective length in ga	p	6 1/4"		
	Width of bed		8 1/8"		
×	Spindle nose (spindle	e mount)	D1-4		
HEADSTOCK	Diameter of spindle t	hru bore	1 1/2"		
DST	Spindle taper (with sl	eeve)	M.T. #5 (M.T. #3)		
IEA	Spindle speeds	3ph	45-1,800 RPM, 16 steps - 45, 70, 90, 108, 140, 165, 215, 255, 330, 385, 510, 585, 770, 900, 1,170, 1,800 RPM		
-	opinale speeds	Optional: 1ph	90-1,800 RPM, 8 steps - 90, 385, 510, 585, 770, 900, 1,170, 1,800 RPM		
S	Longitudinal feeds				
FEEDS & THREADS	Cross feeds		0.0003 - 0.01"/REV. (40 kinds)		
H	Inch threads		4 - 112 TPI (40 kinds)		
ŏ	Metric threads		0.45 - 7.5 mm (22 kinds)		
EDS	Diameter of long. leadscrew		7/8"		
Ë	Pitch threads of long. leadscrew		8 TPI		
ШU	Max. travel of cross s	slide	7"		
RIA	Max. travel of compound slide		4"		
CAF	Max. tool size		5/8" x 5/8"		
CK	Diameter of tailstock quill		2 3/4"		
STO	Taper of tailstock quill center		M.T. #3		
TAIL	Taper of tailstock quill center Max. travel of tailstock quill	4 3/4"			
MOTORS TAILSTOCK CARRIAGE	Power of main motor		3 HP, 220V, 3 phase, 2-speed		
MOTO	Power of coolant pump		1/8 HP, 220V, 3 phase		
	Overall dimensions (LxWxH)		72"x 31" x 49"		
20000	Net weight (LBS) approx.		2,000		

Design and specifications are subject to change without notice.

STANDARD EQUIPMENT:

- Follow Rest
- 12" Face Plate
- 3 3/4" Steady Rest
- 6" 3-jaw Chuck
- 8" 4-jaw Chuck
- Operation & Parts Manuals

OPTIONAL EQUIPMENT:

- 8" Drive Plate
- Taper Turning Attachment
- Quick Tool Changer
- Micro Carriage Stop
- 5-C Lever Type Collet Closer
- Digital Readout Installed
- Rotary Phase Converter

- Coolant System
- Halogen Work Light
- Removable Gap
- 4-way Tool Post
- + way 10011 03t
- Thread Chasing Dial
 Front Dull out Chin Trop
- Front Pull-out Chip Tray
- Centers & Reducing Sleeve
- Tool Kit with Tools & Leveling Pads
- Full Length Foot Brake
- Full Length Splash Guard
- All inch/mm Dual Dials
- Spindle Jog Button Control
- DISTRIBUTOR:

BIRMINGHAM HIGH SPEED PRECISION GAP BED LATHE

cQ6236F-1X1000(GH-1440) ¢52mm Big spindle bore (optional)





YCL-1440GK

Hardened and grounded gears in the headstock

With 2 precision D degree taper roller bearings on the spindle

Super voice frequency heated bedways

CE certified by TüV product and service

FEATURES:



¢52mm Big spindle bore



Compare the spindle bores

ITEMS/项目		METRIC	INCH
Max swing over bed		356mm	14 ~
Max swing over cross slide		220mm	8-5/8 "
Max swing-over gap		506mm	20 ″
Width of bed		206mm	8-1/9 ~
Distance between center		1000mm	40 ″
Taper of spindle hole		M.T.NO.5	
Hole through spindle		38mm or 52mm (optional)	1-1/2 " or 2-2/5" (optional
Step of spindle speed		8 or 16 steps	
Range of spindle speeds		90 or 45–1800 r.p.m	
Spindle nose		D1-4	7
Metric thread range		(37)0.4–7mm	(22)0.45-7.5mm
Whitworth threads range		(28)4-56T.P.I	(40)4-112T.P.I
Range of longitudinal feeds		(42)0.043-0.653mm/rev	(40)0.0304-0.746mm/rev
		(42)0.0017-0.0257in/rev	(40)0.0012-0.0294in/rev
Range of cross feeds	11	(42)0.015-0.22mm/rev	(40)0.0076-0.254mm/rev
		(42)0.0006-0.0087in/rev	(40)0.0003-0.0100in/rev
Pitch and diameter of leadscrew		4mm	8 T.P.I
Travel of carriage		840mm	33 ″
Travel of cross slide		178mm	7 ″
Travel of top slide		92mm	3–5/8 ″
Travel of tailstock quill		115mm	4-1/2 -
Diameter of tailstock quill		45mm	1-25/32 "
Taper of tailstock quill		M.T.NO.3	
Motor power		2/3.3HP	
Ner weight		750KG	1667LBS
Packing size		1950×760×1480mm	76-25/32"×30"×58-8/30'

Precision Gearhead Lathe KGY-1640 and KGY-1660



	MODELS			
SPECIFICATION	CD6241×1000	CD6241× 1500		
CAPACITY	KGY-1640	KGY-1660		
Swing over red	410mm(16")	410mm(16")		
Swing in gap	590(23-1/4")	590(23-1/4")		
Distance between centers	1000mm(40")	1500mm(60")		
Center height	1073mm	1073mm		
Width of bed	250(1	0")		
HEADSTOCK				
Spindle nose	D1-	6		
Spindle bore	52 mm	(2")		
Taper of spindle bore	No.6M	orse		
Range of spindle speed	16 changes 4	5-1800r/min		
FEEDS AND THREADS				
Max.travel of compound rest	102mm (4")			
Max.travel of cross slide	210mm (8-1/4")			
Leadscrew pitch	4T.P.I.			
Max.Section of tool	20×20mm			
Longitudinal feeds range	0.05-1.7mm/rev (0.002"-0.067"/rev)			
Cross feeds range	0.025-0.85mm(0.001"-0.0335"/rev)			
Metric threads range	39 kinds 0.2-14mm			
Inch threads range	45 kinds 2-72T.P.I.			
Diametrical pitches range	21 kinds 8-44D.P.			
Module pitches range	18 kinds 0.3	3-3.5M.P.		
TAILSTOCK				
Travel of tailstock sleeve	120mm(4-3/4")			
Morse taper of tailstock sleeve	No.4 Morse			
Cross adjustment	±13mm(±12")			
MOTOR				
Power of main motor	2.8/3.3kw(3.8/4.5HP) 3PH			
Power of coolant pump	0.1kw(1/8HP), 3PH			
DIMENSION AND WEIGHT		[
Net weight / Gross weight	1550 /1800kg	1750 / 2030kg		
	(3960 lbs)	(4500 lbs)		

Precision Gearhead Lathe KGY-1440GH



No change gear in tool box.
The thread category complete, not only cutting metric thread and imperial thread, but also cutting diametric thread and module thread.

MODELS	<u>KGY-1440GH</u>				
Swing over bed	360mm(14")				
Swing over cross slide	224mm (8-13/16")				
Swing in gap diameter	502mm (19-3/4")				
length in gap	210mm (8-1/4")				
Center height	179mm (7")				
Admits between	750mm (30") or 1000mm (40")				
Spindle bore	38mm (1-1/2")				
Spindle nose	D1-4 or D1-5				
Taper in nose	No 5 Morse				
Speeds number	8				
Speeds range	70-2000 r/min				
Cross slide travel	170mm (6-11/16")				
Compound rest travel	95mm (3-9/16")				
Lead screw thread	8T.P.I. or 3mm pitch				
Feed rod diameter	19mm (3/4")				
Cutting tool max section	16mm×16mm (5/8"×5/8")				
Threads imperial pitches	42 Nos. 4-112T.P.I				
Threads metric pitches	44 Nos. 0.1-7mm				

Threads diametral pitches	25 Nos. 16-112DP			
Threads module pitches	34 Nos. 0.1-1.75MP			
Longitudinal feeds imperial	24 Nos. 0.00168-0.1175"/rev			
Longitudinal feeds metric	24 Nos. 0.046-3.249 mm/rev			
Cross feeds imperial	32 Nos. 0.00046-0.03231"/rev			
Cross feeds metric	24 Nos. 0.01-0.703 mm/rev			
Quill diameter	32mm(1-1/4") or 42mm (1-21/32")			
Quill travel	100mm (3-15/16")			
Quill taper	No3 Morse			
Main motor power	1.5kW (2HP)			
Coolant pump power	40W (1/16HP)			
Packing size (cm)	168 ×76 ×153 (750mm) or 193×76×153 (1000mm)			
NG/GW (kg)	510/630 (750mm) or 540/645 (1000mm)			

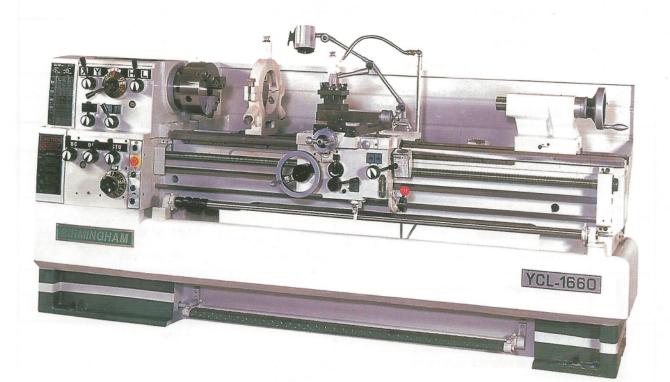
Standard Accessories for KGY-14 / 16

- 1. Reduction Sleeve 5/3#
- 2. Center MT3#(Dead Center, Alloy Center)
- 3. Three Jaw Chuck 160mm
- 4. Four Jaw Chuck
- 5. Chip Tray
- 6. Splash Guard
- 7. Tool Box & Tools 1set
- 8. Face Plate
- 9. Steady Rest
- 10. Follow Rest
- 11.Brake
- 12. Coolant System
- 13. Work Light

Optional Accessories:

- 1. Quick Change Tool Post
- 2. Taper Turning Attachment
- 3. Live Center
- 4. Drill Chuck
- 5. Chuck Cover
- 6. Tool Post Cover
- 7. Leadscrew Cover
- 8. Driving Plate

BIRMINGHAM HIGH SPEED PRECISION GAP BED LATHES



FEATURES:

- 7.5 HP MAIN MOTOR
- ONE-PIECE CAST IRON BASE
- NO CHANGE GEARS REQUIRED
- 12 SPEEDS FROM 25-2,000 RPM
- D1-6 SPINDLE WITH 2 9/32" BORE
- 60 KINDS OF INCH THREADS FROM 112-2 TPI
- MAIN SPINDLE HARDENED & PRECISION GROUND
- BED MADE OF FINE GRAIN HIGH TENSILE CAST IRON
- BEDWAYS INDUCTION HARDENED & PRECISION GROUND
- ALL GEARS AND SHAFTS HARDENED & PRECISION GROUND
- MAIN SPINDLE SUPPORTED AT 3-POINT BY PRECISION BEARINGS

YCL-1640 YCL-1660

SPECIFICATIONS

	ITEM / MODEL	YCL - 1640	YCL - 1660		
	Max. swing over bed	16 1/8"			
ES	Max. length of workpiece	40"	60"		
CITI	Max. swing over Carriage	8 13	8/16"		
APA	Max. swing in gap	25 3	3/16"		
Ö	Effective length in gap	9 -	1/2"		
	Width of bed	11 1	3/16"		
СК	Effective length in gap Width of bed Spindle Nose Diameter of spindle thru bore Taper of spindle center Spindle speeds Longitudinal feeds Cross feeds Metric threads Inch threads Module threads Diametral pitch threads	D	1-6		
Same Max. swing over bed Max. length of workpiece 40" Max. swing over Carriage Max. swing in gap Effective length in gap Effective length in gap Width of bed Diameter of spindle thru bore Taper of spindle center Image: Spindle speeds Solution Cross feeds .001 Max. travel of cross slide Max. travel of cross slide Max. travel of tailstock quill Taper of tailstock quill Taper of tailstock quill Power of main motor Power of coolant pump Power of coolant pump	2 9	/32"			
	Taper of spindle center	M.T. #6 (sleeve #6 / #4)			
Ξ	Max. swing over bed Max. length of workpiece 40" Max. swing over Carriage 40" Max. swing in gap 1 Effective length in gap 1 Width of bed 1 Spindle Nose 1 Diameter of spindle thru bore 1 Taper of spindle center M.T. #6 Spindle speeds 25 - 2,00 Longitudinal feeds .0011"06 Cross feeds .00033"0 Metric threads 0.1 - 1 Inch threads 112 - Module threads 0.1 - 5 Diametral pitch threads 112 - Max. travel of cross slide Max. travel of top slide Diameter of tailstock quill 12 - Max. travel of top slide 112 - Max. travel of top slide 112 - Max. travel of top slide 112 - Max. travel of tailstock quill 7 1 Power of main motor 7 1 Power of coolant pump 7 1	25 – 2,000 R	PM, 12 steps		
	Longitudinal feeds	.0011"0633" / REV., 42 kinds			
	Cross feeds	.00033"01837" / REV., 42 kinds			
	Metric threads	0.1 - 14 MM, 41 kinds			
бо О	Cross feeds Metric threads Inch threads Module threads	112 – 2 TF	112 – 2 TPI, 60 kinds		
Effective length in gap Width of bed Width of bed Spindle Nose Diameter of spindle thru bore Taper of spindle center Spindle speeds Longitudinal feeds Cross feeds Metric threads Inch threads Module threads Diameteral pitch threads Max. travel of cross slide Max. travel of top slide Diameter of tailstock quill Taper of tailstock quill	0.1 – 7 MM	vl, 34 kinds			
	Diametral pitch threads	112 – 4 D	P, 50 kinds		
IAGE	Max. travel of cross slide	12 :	12 3/16		
CARF	Diametral pitch threads Max. travel of cross slide Max. travel of top slide Diameter of tailstock quill	5"			
OCK	Diameter of tailstock quill	2 3/8"			
LSTC	Taper of tailstock quill center	M.T. #4			
Diameter of tailstock quill Taper of tailstock quill center Max. Travel of tailstock quill	4 13	4 13/16"			
ORS	Power of main motor	7 1/2 HP			
MOT	Power of coolant pump	1/8	HP		
202	Overall dimensions (WxLxH)	86" x 41" x 53"	107"x41"x53"		
	Net weight, LBS	4,100	5,100		

STANDARD EQUIPMENT:

- Follow Rest
- 14" Face Plate
- •7 1/2" Steady Rest
- 10" 3-jaw Chuck
- 12" 4-jaw Chuck
- Operation & Parts Manuals
- Taper Turning Attachment

OPTIONAL EQUIPMENT:

- Quick Tool Changer
- 5-C Lever Type Collect Closer

- Coolant System
- Halogen Work Light
- Removable Gap
- 4-way Tool Post
- Thread Chasing Dial
- Hand Oil Pump for Ways

DISTRIBUTOR:

- Design and specifications are subject to change without notice.
 - Centers & Sleeve
 - Tool Kit with Tools
 - Automatic Kick-Out Longitudinal Carriage Stop
 - Full Length Foot Brake
 - Full Length Splash Guard

BIRMINGHAM HIGH SPEED PRECISION GAP BED LATHES



FEATURES:

- 10 HP MAIN MOTOR
- ONE-PIECE CAST IRON BASE
- D1-8 SPINDLE WITH 3-1/8" BORE
- NO CHANGE GEARS REQUIRED
- 12 SPEEDS FROM 45-1,600 RPM
- 60 KINDS OF INCH THREADS FROM 112-2 TPI
- 47 KINDS OF METRIC THREADS FROM 0.2 14MM
- MAIN SPINDLE HARDENED & PRECISION GROUND
- BED MADE OF FINE GRAIN HIGH TENSILE CAST IRON
- BEDWAYS INDUCTION HARDENED & PRECISION GROUND
- ALL GEARS & SHAFTS HARDENED & PRECISION GROUND
- MAIN SPINDLE SUPPORTED AT 3-POINT BY PRECISION BEARINGS

YCL-2060/80/120 YCL-2260/80/120

SPECIFICATIONS

	ITEM / MODEL	YCL-2060	YCL-2080	YCL-20120	YCL-2260	YCL-2280	YCL-22120	
	Max. swing over bed		20"			22"		
CAPACITIES	Distance between centers	60"	80"	120"	60"	80"	120"	
	Max. effective cutting length	56"	75-1/2"	116"	56"	75-1/2"	116"	
	Max. swing over cross slide	11-7/8" 13-3/4"						
AP	Max. swing in gap		29"			22" 80" 75-1/2" 13-3/4" 31" 1100,1600rpm //rev. "/rev. "/rev.		
U	Effective length in gap		B0" 120" 60" 80" 6" 75-1/2" 116" 56" 75-1/2" 11-7/8" 13-3/4"					
	Width of bed			13-3	3/4"			
СК	Spindle Nose			D1	-8			
HEADSTOCK	Diameter of spindle thru bore	3-1/8"						
	Taper of spindle center	Contraction of the second s						
	Spindle speeds, 12 steps	25,35,55,80,120,170,235,350,525,700,1100,1600rpm						
DS	Longitudinal feeds							
EA	Cross feeds							
THR	Metric threads							
~	Inch threads	60 Kinds, 112 – 2 TPI						
FEEDS & THREADS	Module threads							
H	Diametral pitch threads							
ш	Max. travel of cross slide							
CARRIAGE	Max. travel of top slide							
ARR	4-way tool post size	1" x 1"						
Ö	Longitudinal leadscrew dia./pitch	Dia. 1-5/8" / 4 TPI						
CK	Diameter of tailstock quill	3"						
STC	Taper of tailstock quill center	M.T.#5						
TAIL	Max. travel of tailstock quill	7"						
MOTORS TAILSTOCK	Power of main motor	10HP, 230/460V/60HZ, 3 Phase Prewired 230V						
MOT	Power of coolant pump	1/8HP, 230/460V/60HZ, 3 Phase Prewired 230V						
	Overall dimensions (LxWxH), approx.			154x46x57"	114x46x58"	and the second	154x46x58	
	Net weight, LBS, approx.	5,200	5,900	7,500	5,200		7,600	
	Gross weight, LBS, approx.	5,900	6,500	8,500	6,000	6,600	8,600	

STANDARD EQUIPMENT:

- Follow Rest
- 18" Face Plate
- 6-1/2" Steady Rest w/Rollers
- 12" 3-jaw Chuck
- •16" 4-jaw Chuck
- 10" Drive Plate
- Operation & Parts Manuals
- Taper Attachment

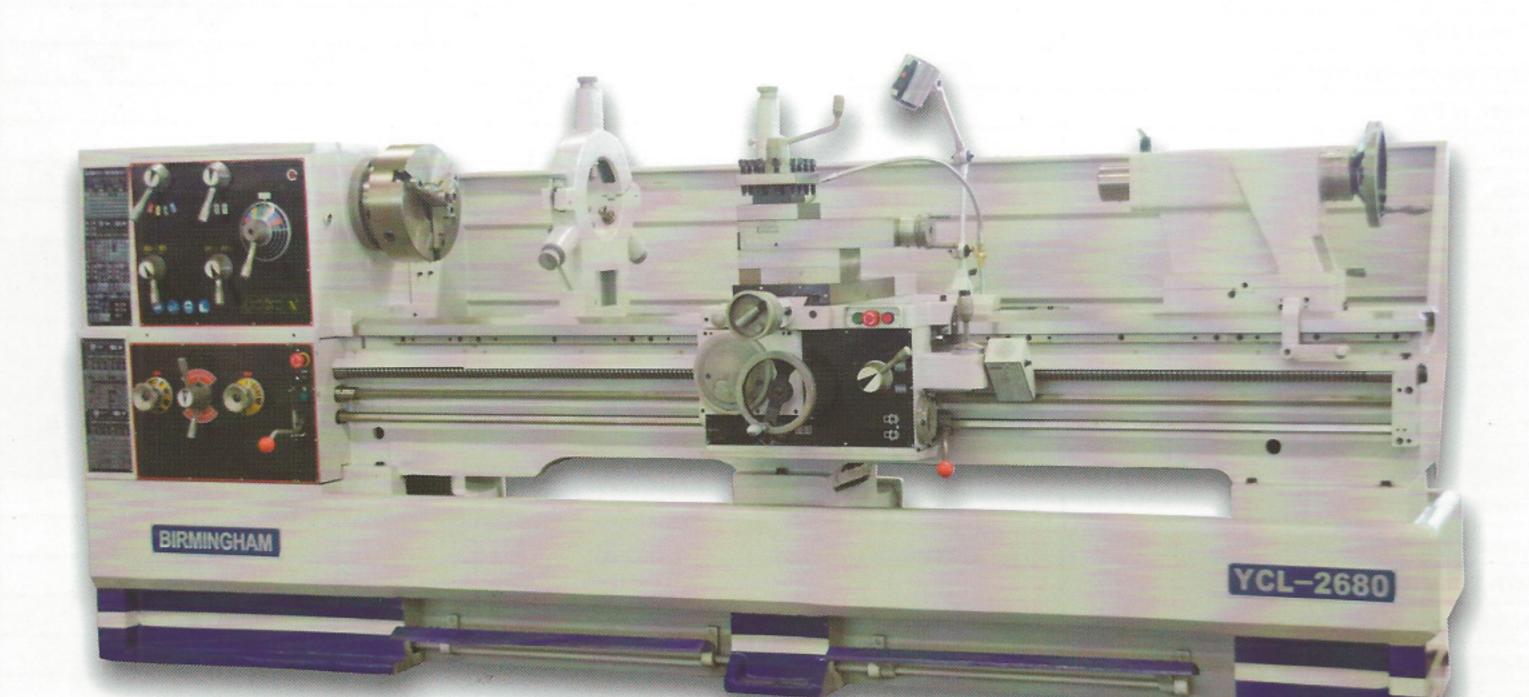
OPTIONAL EQUIPMENT:

- Quick Tool Changer
- 5-C Lever Type Collet Closer
- Digital Readout
- 10" Steady Rest w/rollers

- Coolant System
- Halogen Work Light
- Removable Gap
- 4-way Tool Post
- Thread Chasing Dial
- Hand Oil Pump for Ways
- Rapid Trave (120" Only)

- Design and specifications are subject to change without notice.
 - (2) Dead Centers
 - Reducing Sleeve MT7/MT5
 - Tool Kit with Tools
 - 4-position Automatic Kick-Out Longitudinal Carriage Stop
 - Full Length Foot Brake
 - Full Length Splash Guard
- **DISTRIBUTOR:**

BIRMINGHAM HIGH SPEED PRECISION GAP BED LATHES



YCL-2660/80/120 YCL-3280/120

FEATURES:

- 10 HP MAIN MOTOR
- ONE-PIECE CAST IRON BASE
- NO CHANGE WITH 4" BORE
- NO CHANGE GEARS REQUIRED
- 16 SPEEDS FROM 25~1600rpm
- ♦ 54 KINDS OF INCH THREADS FROM 7/16~80TPI
- ◆ 54 KINDS OF METRIC THREADS FROM 0.45~120MM
- MAIN SPINDLE HARDENED & PRECISION GROUND
- BED MADE OF FINE GRAIN HIGH TENSILE CAST IRON
- BEDWAYS INDUCTION HARDENED & PRECISION GROUND
- ALL GEARS & SHAFTS HARDENED & PRECISION GROUND
- MAIN SPINDLE SUPPORTED AT 3-POINT BY PRECISION BEARINGS

Specification

Cracification			Model			
Specification	YCL-2660	YCL-2680	YCL-26120	YCL-3280	YCL-32120	
Capacity						
Swing over bed		26"		3	32"	
Swing over cross slide		17-1/4"		22-	-1/2"	
Swing in gap diameter		36"		4	1"	
Length of Gap			10"			
Center Height		13"		1	6"	
Distance between centers	60"	80"	120"	80"	120"	
Width of Bed	~		16"		-	
Max. Section of Tool			1"×1"		And Street	
Max. Travel of Cross Slide	14-1/2" 16-1/2"		-1/2"			
Max. Travel of Compound Rest	9"					
HEADSTOCK						
Spindle bore	4-1/8"					
Spindle nose			D1-8			
Taper of spindle bore			φ 113mm(1:20)/MT5			
Spindle Speed Step			16			
Range of spindle speed			25 ~ 1600rpm			
Feeds and threads						
Leadscrew Pitch	φ 40mm × 2T.P.I					
Inch Threads Range			7/16 ~ 80T.P.I			
Metric Threads Range			0.45 ~ 120mm(54 kinds	5)		
Diametrical pitches range			7/8 ~ 160DP(42 kinds))		

Module pitches range			(0.25 ~ 60MP(46 kinds))	
Cross Feeds Range In Metric lead	Screw		0.04	4 ~ 1.48mm/rev(25 ki	nds)	
Cross Feeds Range In Inch lead S	crew		0.001	65" ~ 0.05497"/rev(25	kinds)	
Longitudinal Feeds Range In Metri	c lead Screw		0.02	22 ~ 0.74mm/rev(25 ki	nds)	
Longitudinal Feeds Range In Inch	lead Screw	-	0.0008	83" ~ 0.02774"/rev(25	kinds)	
TAILSTOCK						
Travel of Tailstock Sleeve				9-1/4"		
Dia. of Tailstock Sleeve		φ 3-1/2"				
Morse Taper of Tailstock Sleeve		MT5#				
MOTOR						
Power of Main Motor	÷	7.5KW (10HP)				
Power of Coolant Pump		0.09KW(1/8HP)				
DIMENSION AND WEIGHT						
Overall Dimension($L \times W \times H$)		3210 × 1230 × 1600	3710 × 1230 × 1600	4710 × 1230 × 1600	3710 × 1230 × 1670	4710 × 1230 × 1670
Packing Size(L \times W \times H)		3240 × 1140 × 1840	3740 × 1140 × 1840	4740 × 1140 × 1840	3740 × 1140 × 1910	4740 × 1140 × 1910
Net Weight		3060KGS	3340KGS	3710KGS	3540KGS	3910KGS
Gross Weight		3530KGS	3830KGS	4300KGS	4030KGS	4500KGS
STANDARD ACCESSORIES						
2. Four Jaw Chuck6. T3. Face Plate7. 1	ollow Rest hread Chasin 13mm(1:20) Noil Gun	ng Dial /IT5 Sleeve and MT5 (10. C Center 11. D	One Set of Wrenches Operation Maunal Drive Plate I–Way Tool Post	13. Rapid 14. Splash 15. Taper	
SPECIAL ACCESSORIES						
Quick Change Tool Post						



"RONG FU" STEP-PULLEY TYPE MILL / DRILLS

Catalog# 20020310



Standard Accessories: 3 1/2" angle drill press vise, 1/2" drill chuck w/ key, drill chuck arbor R8/JT6, 3" face mill cutter, shell mill arbor, forward/reverse drum switch, and draw bar.

Optional Accessories: Deluxe cabinet stand w/chip pan, R8 collet sets (11 pcs), 52 pcs clamping kit, working light, floor-type coolant system, and table power feed 125"/lb.chuck safety guard, tapping control, and inverter drive variable speed.

	Specificat	ions	
Model #	RF-31	RF-31V	RF-31N2F
Swing		16 3/8"	
Table surface area		8 1/4" x 28 3/4	4"
Spindle speeds(No.)rpm RF-31 and RF-31N2F		(12) 120, 190, 230, 285, 370, 440, 770, 1040, 1220, 1450, 1800, 2500	
RF-31V	Inverter	Variable Speed	30-3000rpm
Power down feed, IPR			.0027/.0047/.007
Longitudinal table travel	Sector de	18 1/8"	
Cross table travel		6 1/4"	
T-slots-(No.) & size		(4) 5/8"	
Spindle / quill travel		5 1/8"	
Spindle taper		R8	
Spindle / quill diameter	3"		
Spindle to table-Max.	18"		
Spindle to column-Max.	5 1/2"		
Diameter of column	4 1/2"		
Head Swivel	360°		
Capacity:			
Drilling in steel		1 1/4"	
Drilling in cast iron		1 1/2"	
End mill		3/4"	
Face mill		4"	
Motor & Electrics		0/220v, 1 ph. Pr 20/440v, 3 ph. Pr	
Net Weight	630 LBS (700 LBS w/stand)		
Dimensions w/o stand	43	1/2" H x 38" W	x 36" D
Dimensions w/ stand	73	1/2" H x 38" W	x 36" D

"RONG FU" 38 1/2" BENCH TYPE RADIAL DRILL

Model# RF-35



Standard Accessories:

1/2" drill chuck w/ key, drill chuck arbor MT3 / JT6, forward/reverse switch **Optional Accessories:**

Deluxe cabinet stand w/ chip pan, 52 pcs clamping kit, working light, floor-type coolant system, 11" L x 7 7/8" W x 7 7/8" H box table, tapping control.

S	pecifications	
Model #	RF-35	
Swing	38 1/2"	
Table surface area	21 5/8" x 17 1/4"	
Spindle speeds(No.)rpm	(5) 340, 660, 1060, 1665, 3000	
T-slots-(No.) & size	(3) 5/8"	
Spindle vertical travel	5 1/16"	
Spindle head horizontal travel	14 7/8"	
Spindle taper	MT 3	
Spindle / quill diameter	3"	
Spindle to table-Min.	6 1/2"	
Spindle to table-Max.	24"	
Spindle center to column-Min.	6"	
Spindle center to column-Max.	20 7/8"	
Diameter of column	4 1/2"	
Arm elevation	manual operation	
Capacity:		
Drilling in steel	1 1/4"	
Drilling in cast iron	1 1/2"	
Tapping in steel	1/2"	
Tapping in cast iron	5/8"	
End mill	3/4"	
Face mill	3"	
Motor & Electrics	1 1/2HP, 110/220v, 1 ph. Prewired 110v	
MOTOL & EIECTICS	1 1/2HP, 220/440v, 3 ph. Prewired 220v	
Drive	belt drive	
Net Weight	650 LBS (750 LBS w/ stand)	
Dimensions w/o stand	43" L x 22" W x 32" H	
Dimensions w/ stand	43" L x 22" W x 57" H	



"RONG FU" GEARED-HEAD MILL / DRILLS 21" SWING WITH TILTING & SWIVEL HEAD MILL / DRILLS

Catalog# 20020311



	Specifications	
Model #	RF-40	RF-40N2F
Swing		21"
Table surface area	8 1/4	" x 28 3/4"
Spindle speeds(No.)rpm	(6) 60, 130, 2	30, 450, 800, 1500
Power down feed, IPR		.0027/.0047/.007
Longitudinal table travel	1	9 3/4"
Cross table travel		9"
T-slots-(No.) & size	(4) 5/8"
Spindle / quill travel	5 1/8"	4 1/4"
Spindle taper		R8
Spindle / quill diameter		3"
Spindle to table-Max.	18 1/2"	
Spindle to column-Max.	6 1/2"	
Diameter of column	4 1/2"	
Head tilting	90° left & 45° right	
Head Swivels	360°	
Capacity:		
Drilling in steel		1 1/4"
Drilling in cast iron	1	9/16"
End mill		1 1/4"
Face mill		4"
Mater 0 Electrica	1 HP, 110/220v,	1 ph. Prewired 110v
Motor & Electrics	1 HP, 220/440v	3 ph. Prewired 220v
Net Weight	650 LBS (7	20 LBS w/ stand)
Dimensions w/o stand	43 1/2" H x 31	1/2" W x 43 1/2" D
Dimensions w/ stand	73 1/2" H x 31	1/2" W x 43 1/2" D

Standard Accessories: R8 shell mill arbor, Forward / reverse switch, and draw bar. Optional Accessories:

Deluxe cabinet stand w/chip pan, R8 collet sets (11 pcs), 52 pcs clamping kit, working light, floor-type coolant system, table power feed 125"/LB, 3 1/2" angle drill press vise, 1/2" drill chuck w/key, drill chuck arbor R8/JT6, 3" face mill cutter, chuck safety guard, tapping control, and inverter drive variable speed.

20" SWING WITH TILTING HEAD MILL / DRILLS



Standard Accessories: R8 shell mill arbor, Forward/ reverse switch, and draw bar. Optional Accessories: Deluxe cabinet stand w/ chip pan, R8 collet sets (11 pcs), 52 pcs clamping kit, working light, floor-type coolant system, 3 1/2" angle drill press vise, 1/2" drill chuck w/key, drill chuck arbor R8/JT6, 3" face mill cutter, table power feed 107" I/ I terreire extend she arbor ward and inverter drive variable speed 125" LB, tapping control, chuck safety guard, and inverter drive variable speed.

Model #	RF-45	RF-45N2F
Swing		20"
Table surface area	9 1/2"	x 32 1/4"
Spindle speeds(No.)rpm	(6) 60, 130, 23	0, 450, 800, 1500
Power down feed, IPR		.0027/.0047/.007
Longitudinal table travel	20) 1/2"
Cross table travel	8	1/4"
T-slots-(No.) & size	(4) 5/8"
Spindle / quill travel	5 1/8"	4 1/4"
Spindle taper		R8
Spindle / quill diameter		3"
Spindle to table-Max.	18"	
Spindle to column-Max.	10"	
Square column	36 1/4" H x 11" W, dovetail guideways	
Head tilting	90° left & 45° right	
Capacity: Drilling in steel Drilling in cast iron End mill Face mill	1 1/4" 1 1/2" 3/4" 4"	
Motor & Electrics		1 ph. Prewired 110v 3 ph. Prewired 220v
Net Weight	800 LBS (87	0 LBS w/ stand)
Dimensions w/o stand	43 1/2" H x	38" W x 43" D
Dimensions w/ stand	73 1/2" H x	38" W x 43" D

"RONG FU" HEAVY-DUTY STEP PULLEY DRILL PRESSES 20" - 12 SPEEDS DRILL PRESSES

Catalog# 20020316



Model #	RF-19	RF-19V
Swing	20'	
Spindle taper	MT 3 (opt	. MT 4)
Spindle travel	4 3/4	4"
Spindle speeds for RF-19	(12) 120, 190, 225, 265, 365, 440, 645, 980, 1240, 1350, 1890, 2400	
Spindle speeds for RF-19V	Inverter vari-spee	ed 30-3000rpm
Spindle to base, max.	47 1/	/4"
Spindle to table, max.	25 1/2"	
Spindle/quill diameter	2 1/8"	
Table size	18 1/2" x 16 1/2"	
Column diameter	4"	
Drilling capacity	1 1/4" ca	ist iron
Tapping capacity	1/2" optional	
Motor & electrics	1HP, 110/220V, 1ph / 1.4kw, 115V or 230V, 1p	
Net Weight	400 LBS	
Dimensions	26" L x 35" W x 75" H	

Optional Accessories:

Floor-type coolant system, 6" swivel milling vise, safety chuck guard, drill bits, mill cutters, tapping control, tilting table, and inverter drive variable speed

2

20"	INFINITELY	VARIABLE	SPEED	DRILL	PRESSES	



RF-401VS Shown RF-401S2F Shown

Model #	RF-401VS	RF-401S2F
Swing		20"
Spindle taper	MT 3	(opt. MT4)
Spindle travel	6 3/4"	4 1/4"
Spindle speeds	300 - 200	00 rpm, variable
Spin. Power down feed		.004/.006/.009/.012 IPR
Spindle to base, max.	2	44 7/8"
Spindle to table, max.		32 1/8"
Spindle/quill diameter	3"	
Table size	22" x 19 1/2"	
Column diameter	4 1/2"	
Drill capacity in iron	1 1/4"	
Tapping in iron	5/8"	
Face mill in iron	3"	
End mill in iron	3/4"	
Motor & electrics	1 1/2HP, 110/220V, 1 ph 1 1/2HP, 220/440V, 3 ph.	
Net Weight	650 LBS	
Dimensions	30" L x	38" W x 77" H

Standard Accessories: (1) cutter arbor, F/R switch

Optional Accessories: Floor-type coolant system, 6" swivel milling vise, safety chuck

guard, drill bits, mill cutters, tapping control, tilting table, and inverter drive variable speed

RF-400HC Shown RF-400S2F Shown

Model# RF-400HC Cross table

Model# RF-400HS Square table

Model# RF-400C2F Cross table, power feed

Model# RF-400S2F Square table, power feed

Standard Accessories: (1) cutter arbor, F/R switch Optional Accessories:

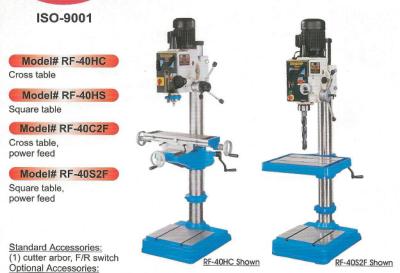
Floor-type coolant system, 6" swivel milling vise, safety chuck guard, drill bits, mill cutters, tapping control, tilting table, and inverter drive variable speed

16" - 12 SPEEDS DRILL PRESSES

Model #	RF-400HC RF-400HS	RF-400C2F RF-400S2F
Swing	10 S	16 1/4"
Spindle taper	MT	3 (opt. R8)
Spindle travel	5 1/8"	4 1/4"
Spindle speeds, rpm	(12)150, 225, 255, 350, 400, 5	00, 850, 1200, 1500, 1600, 2300, 3000
Spin. Power down feed		.004/.008/.01/.02 IPR
Spindle to base, max.	36 3/4" (HC & C2	2F)/ 39 1/4" (HS & S2F)
Spindle to table, max.	18 1/8" (HC &	C2F)/ 25" (HS & S2F)
Spindle/quill diameter		3"
Square table size, L x W	22" x 19 1/2"	
Cross table size, L x W	23" x 7 1/2"	
Long. & cross travel	13 1/2" x 7"	
Column diameter	4 1/2"	
Drill capacity in iron		1 1/4"
Tapping in iron		5/8"
Face mill in iron		3"
End mill in iron		3/4"
Motor & electrics	1 1/2HP, 110/220V, 1 ph 1 1/2HP, 220/440V, 3 ph.	
Net Weight	6	80 LBS
Dimensions		33" W x 73" H

"RONG FU" HEAVY-DUTY GEARED HEAD DRILL PRESSES 20 1/2" - 6 SPEEDS GEARED HEAD DRILL PRESSES

Catalog# 20020317



Floor-type coolant system, 6" swivel milling vise, safety chuck guard, drill bits, mill cutters, foot paddle, tapping control, tilting table, and inverter drive variable speed

Model #	RF-40HC RF-40HS	RF-40C2F RF-40S2F
Swing		0 1/2"
Spindle taper		(opt. R8)
Spindle travel	5 1/8"	4 1/4"
Spindle speeds, rpm		30, 450, 800, 1500
Spin. Power down feed		.005/.007/.01IPR
Spindle to base, max.	36 3/4" (HC & C2	F)/ 37 1/4" (HS & S2F)
Spindle to table, max.	18 1/8" (HC & C	2F)/ 23" (HS & S2F)
Spindle/quill diameter		3"
Square table size, L x W	22"	x 19 1/2"
Cross table size, L x W	23" x 7 1/2"	
Long. & cross tavel	13 1/2" x 7"	
Column diameter	4 1/2"	
Drill capacity in iron	1 1/4"	
Tapping capacity in iron		5/8"
Face mill in iron		3"
End mill in iron		3/4"
Motor & electrics	1.5 HP, 110/220V, 1ph 1 HP, 220/440V, 3ph.	
Net Weight	7	00LBS
Dimensions	33" L x 3	33" W x 72" H

20 1/2" - 6 SPEEDS GEARED HEAD DRILL PRESS

With spindle power down feed and coolant system



Optional Accessories:

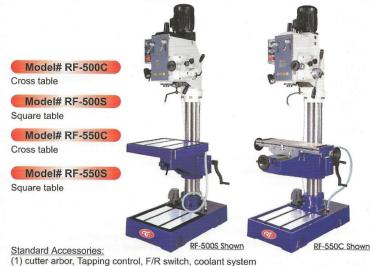
inverter drive variable speed



Swing Spindle Spindle Spindle Spindle Spindle Spindle Spindle Spindle Spindle Table s Colum Face m End mi Motor & Coolant Net We

Model #	RF-46SF	
Swing	20 1/2"	
Spindle taper	MT 4	
Spindle travel	4 1/4"	
Spindle speeds, rpm	(6) 60, 130, 230, 450, 800, 1500	
Spin. Power down feed	.005/.007/.01 IPR	
Spindle to base, max.	39"	
Spindle to table, max.	20 1/8"	
Spindle/quill diameter	3"	
Table size, L x W	22" x 19 1/2"	
Column diameter	4 1/2"	
Drill capacity in iron	2"	
Tapping capacity in iron	3/4"	
Face mill in iron	3"	
End mill in iron	3/4"	
Motor & electrics	1 1/2HP, 220/440V, 3 ph opt.1 1/2HP, 110/220V, 1ph.	
Coolant pump	1/8HP	
Net Weight	700LBS	
Dimensions	36" L x 30" W x 82" H	

27 1/2" - 6 SPEEDS GEARED HEAD DRILL PRESSES With spindle power down feed and coolant system

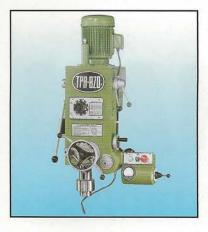


6" swivel milling vise, safety chuck guard, drill bits, mill cutters,

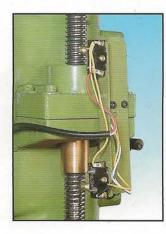
Model #	RF-500S / 500C	550S			
Swing	27	1/2"			
Spindle taper	MT 4				
Spindle travel	4	1/4"			
Spindle speeds	60, 125, 250, 450, 915, 1810	100, 205, 410, 740, 1500, 3000			
Spin. Power down feed	.004/.008/.01/.02 IPR	.004/.008/.01/.02 IPR			
Spindle to base, max.	42"	42"			
Spindle to table, max.	28"	27 1/8"			
Spindle/quill diameter		4"			
Table size, L x W	24" x 24"(S)	32 1/4' x 9 1/2"(C)			
Long. & cross travel	18 1/8" x 11" for RF-500C / 550C				
Column diameter	6	1/4"			
Drill capacity in iron		2"			
Tapping capacity in iron	3/4"				
Face mill in iron		3"			
End mill in iron	3	3/4"			
Motor & electrics	3 HP, 220/440V, 3 ph opt. 3HP, 110/220V, 1ph.				
Coolant pump	1/	8HP			
Net Weight	1,70	OLBS			
Dimensions	33" L x 45	5" W x 87" H			

BIRMINGHAM RADIAL DRILLS

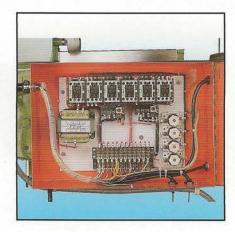




1.Extra Auxiliary Dial 2.Centralized Electrical Controls

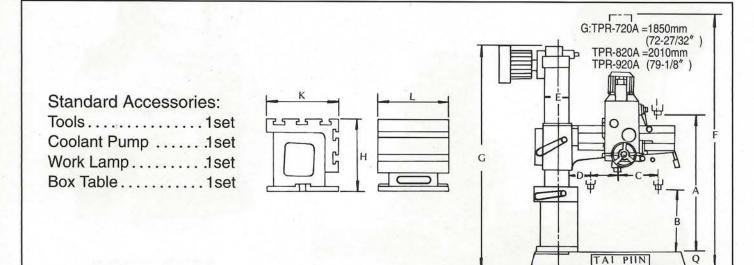


1.Arm raising Safety Device prevents the arm from falling after years of usage 2.Limit safety device



Electrical Control Panel.

RxS



FEATURES:

- Limit safety device is available to assure Security while operating.
- High speed Gears are made of Nickel-Chrome Steel and through the process of Heattreatment and Grinding.
- 3. 2HP -Power motor is available for Heavy Duty Cutting.
- Extra Auxiliary Dial for Spindle Feed Depth Indication. With this indicator,we can review the momental feed depth of Spindle 1 through 200mm at any moment.
- Special Mechanism for Spindle Balance.With this Mechanism, we can save lots of headache to avoid the defect on breaking of Balance Spring. And it is more durable than all Taiwan made traditional balance mechanism.

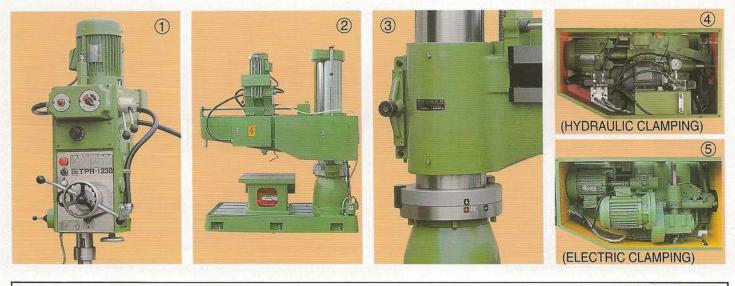
SPECIFICAION / OVERALL DIMENSION

	MODE	L	TPR-720A	TPR-820A	TPR-920A	
Dia. of co	olumn			210(8-1/4")	And and a second s	E
	Distance from column surface to spindle center, Max.		750(29-1/2")	850(33-1/2")	950(37-3/8″)	D+C
Distance from column surface to spindle center.Min.			220(8-5/8")		D	
Travel of	spindle h	nead	530(20-7/8")	630(24-7/8")	730(28-3/4")	С
	from Bas e end,Ma	se surface x.	1060(41-3/4″)	and committee of the second second	47-5/8″)	A
	from Base end,Mir	se surface n.	455-210=245(9-5/8")	560-210=	350(13-3/4″)	в
Elevating	height o	of arm	605(23-13/16")	650(2	25-9/16")	A-B
Effective area of Box Table		2:	600x445x380 3-5/8″ x17-1/2″ x15″		LxKxH	
Dimensions Base			1260x640x160 49-5/8″ x25-3/16″ x6-9/32″			
Taper hole Spindle		e	MT#4			
Stroke of spindle			210(8-1/4″)			
R,P.M. of spindle (rpmxsteps)		(rpmxsteps)	88,154,282 455,796,1500x6			
Feed of	spindle (r	evxsteps)	(0.0	0.05,0.09,0.15x3 02″,0.0035″,0.006″)		4
Main mo	tor (HP)			2		0
Elevating	a motor (H	HP)		1		
Coolant	equipmer	nt (HP)		1/8		1
Machine	heigh fron	n Floor(max)	2170(85-7/16")	2320(9	91-3/8″)	F
Net weigh	h (approx)	Kgs (lbs)	1200Kgs (2640 lb)	1300Kgs (2860 lb)	1350Kgs (2970 lb)	1
Shipping	Dimensio	ns (LxWxH)	64" x32" x85"	66" x32" x86"	71" x32" x86"	
Shipping	weigh (app	prox) Kgs (lbs)	1350Kgs (2970 lb)	1450Kgs (3190 lb)	1500Kgs (3300 lb)	
	Drilling	Steel		38Ø(1-1/2")		
	Uning	Cast Iron	Contraction of the second	50Ø(2″)		1
Capacity	Tapping	Steel		25Ø(1″)		
Capacity	ping	Cast Iron		32Ø(1-1/4″)		
	Boring	Steel		70Ø(2-3/4″)		
		Cast Iron		105Ø(4-1/6″)		

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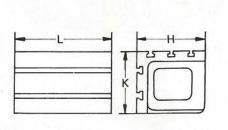
RADIAL DRILLS

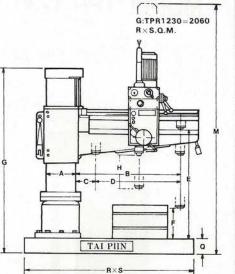




TRP-1230

Standard Accessories: Tools.....1set Coolant Pump1set Work Lamp.....1set Box Table1set





FEATURES:

- 1. The arm is made of high-class cast-iron. Arm slide is under strict heat-treatment and grinding.
- 2. The bearing bracket of gear-box uses stand-ardised bearing to fit arm slide. This makes the gear-box can be operated on the arm slide smoothly.
- The high-speed gears in the gear box are made of Nickel-Chrome alloy steel and under strict heat treatment with accurate grinding.
- 4. The 3 HP two-speed motor can provide diverse speed selection under heavy-duty cutting.
- 5. The main spindle is balanced by an adjustable block.(see fig.2)
- The over-load protective devices can secure the operator against injury.
- 7. The arm-clevating is controlled by a cross-switch and driven by Copper nut/Leading screw which can reach the ideal working height stably. Furthermore, the safety device can prevent the arm from falling due to wear of the elevating copper nut.
- 8. The arm's gear box and column are controlled by a button switch, which provides easy tightening and looseness according to the requirement.
- 9. Hydraulic clamp style: an electronic counter added to the arm up/down device,by set aside of the cross switch once to complete auto arm release plus the vertical up/down or up/down plus auto clamp process. easy to operate, the center position of tool would be maintained after the tool change.

SPECIFICATION: (UNIT:IN MM WHEN NOT SPECIFIED)

A Section of the sect	MODEL	TPR-1230 TPR-1230H		
Dia. of column		300 (1113/16")	A	
Distance from colu	umn surface to sp	indle center, Max.	1230 (487/16")	D+C
Distance from colu			340 (133/8")	С
Travel of spindle h		And Initia 111125	890 (35")	D
Distance from bas	e surface to spind	le end, Max.	1370 (54")	E
Distance from bas	e surface to spind	le end, Min.	490 (193/8")	F
Elevating height o	f Arm		880 (345/8")	E-F
Effective area of ta	able		635x520x415 (25"x201/2x163/8") 1720x710x165	LxKxH
Dimensions of Ba	se		1720x710x165 (67 ¹¹ / ₁₆ "x27 ¹⁵ / ₁₆ "x6 ¹ / ₂ ")	RxSxQ
Taper hole spindle)		MT#4	
Stroke of spindle		250 (97/8")		
R.P.M of spindle (rpm x steps)	44~1500x12		
Feed of spindle (r			0.05,0.09,0.15x3 (0.002" 0.004" 0.006")	
Main motor(HP)			3(Two speed motor)	
Elevating motor(H	IP)		1	
Clamping Motor ((HP)		1	1
Coolant Pump (HI	P)		1/8	
Machine height fro	om Floor (Max.)		2780(1091/2")	M
Net weight (appro	x)Kgs (lbs)		2100(4630)	
Shipping dimension	ons (L x W x H)		80"x39"x88"	1
Gross weight (app	prox)Kgs (lbs)		2250(4960)	
	The second se	Steel	42ø(15/8")	
	Drilling	Cast iron	55ø(23/16")	
Capacity	Topping	Steel	25ø(1")	
oupdony	Tapping	Cast iron	38ø(11/2")	
	Poring	Steel	85ø(33/8")	
	Boring	Cast iron	120ø(43/4")	

DOC.S/N:DRB008 EDITION:02

BIRMINGHAM

HIGH EFFICIENCY AND PRECISION RADIAL DRILLS

PH-770

1-a

(EISO9000

Blai

UKAS

 TPR 720A

 TPR 820A

 TPR 920A

 TPR 920A

 TPR 1100

 TPR 1230

 TPR 1230H

 TPR 1230H

 TPR 1250

 TPR 1600H

 TPR 1600H

 TPR 1600H

BIRMINGHAM

PR-720

PR-870

TPH-071

L'III

720-1100/ 1230/ 1230H

- Adopts mechanic switch with forward/ reverse functions and longer service life with low damage.
- The arm is made of high-class cast-iron. Arm slide is under strick heattreatment and grinding.
- 2HP motor can provide diverse speed selection under heavy-duty cutting.
- The main spindle is balanced by special spring. And is more durable than all traditional balance mechanism.
- The over-load protective devices can secure the operator against injury.
- Extra auxiliary dial for spindle feed depth indication. With this indicator, we can review the momental feed depth of spindle 1through 210mm at any moment.

TPR-820

TPR-920A

C1250/ C1600/ 1600H

The Radial Drill Arm adopts IC Timer with advantage of one bottom press, it can automatically release up and vertical down, stop, and automatically clamping easy to operate. The spindle can still maintain in original set after the tools change.

TPR-1230

Exclusively for gears type cycling oil pump is furnished to cool off precise gears inside gear box, and minimize excessive wear on gears to lowest extent.

TPR-1100

Friction type disc clutch is adopted to absorb impact force caused by vertical movement of spindle, and effectively protect all transmission unit inside gear box. With the function of quick spindle return, this clutch will also help us to speed up our tapping operation.

TPR-1230H

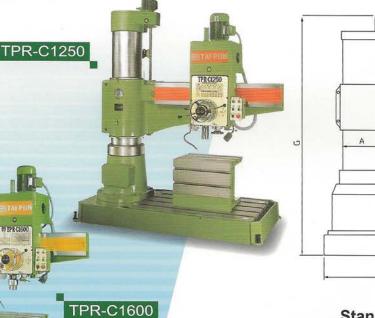
- Special arm elevating safety device is provided to prevent arm from falling down abruptly after year of usage . It will keep us from injurious dropping whenever the copper nut is excessively worn.
- Equipped with hydraulic STEP BY STEP clamping system, with proper selection on push button switch, column, arm, gear box can be clamped/released independently.(suitable for TPR-C1250/C1600)
- Free speed preselection, speed change id hydraulically actuated.
 Fast and very easy to be operated.(suitable for TPR-C1250/C1600)
- Special automatic tool eject device is supplied to enable us to shift tools efficiently.(suitable for TPR- 1600H)

C2500

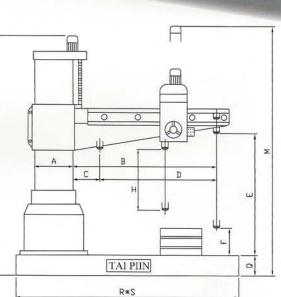
- The Radial Drill Arm adopts IC Timer with advantage of one bottom press, it can automatically release up and vertical down, stop, and automatically clamping easy to operate. The spindle can still maintain in original set after the tools change.
- Exclusively for gears type cycling oil pump is furnished to cool off precise gears inside gear box, and minimize excessive wear on gears to lowest extent.
- Friction type disc clutch is adopted to absorb impact force caused by vertical movement of spindle, and effectively protect all transmission unit inside gear box. With the function of quick spindle return, this clutch will also help us to speed up our tapping operation.
- Special arm elevating safety device is provided to prevent arm from falling down abruptly after year of usage. It will keep us from injurious dropping whenever the copper nut is excessively worn.
- The Column, arm, and gear box with advantage of independently or synchronous clamping/unclamping automatically or manual.
- Free speed preselection, speed change id hydraulically actuated.
 Fast and very easy to be operated.

TPR-1600

TPR-1600H



100



TPR-C2500

Standard accessory:

Adjustment tools (box included) ······1 set
Cooling device (pimp included)1 set
Lighting device (fluorescent lamp included) · · · 1 set
Box-type Work Table 1 set

Special Optionals/Tilt Tables

Uni-tilt table tilts s full 90 degrees. Calibrated indicator shows degree of tilt has accurately planed top

Dimensions (L x W x H)

① 810*710*610 m/m (Large size) Application:TPR-C1250 / C1600 / 1600H

510*510*590 m/m (small size)

② Application:TPR-720A-1600H

MC	DEL		TPR-720A	TPR-820A	TPR-920A	TPR-1100	TPR-C2500	
Dai.of	column			210		260	550	А
Distance	from column surfa	ace to spindle center, Max	750	850	950	1100	2500	D+C
Distance	from column surf	ace to spindle center, Min		220		280	500	С
Travel	of spindle I	nead	530	630	730	820	2000	D
Distance	from base surfa	ace to spindle end, Max	1060	1	210	1270	2000	E
Distance	e from base surfa	ace to spindle end, Min	260	3	50	470	550	F
Elevat	ing height o	f Arm	580	6	40	570	1000	E-F-I
Effecti	ve area of b	ox table		600x445x3	80	635x520x415	1000x800x560	LxKxH
Dimension of base		and the second	1260x640x	:160	1725x715x180	3520x1400x320	RxSxQ	
Taper hole spindle			MT#4		MT#4	MT#6		
Stroke of spindle		12.11.1.1	220		230	450	1	
R.P.M of spindle (rpm x steps)		88, 154, 282, 455, 796, 1500x6			44-1500x12	16-1250x16		
Feed of spindle (rev.x steps)		0.05, 0.09, 0.15x3			0.05, 0.09 ,0.15x3	0.04, 3.20 x16		
Main motor (HP)			2HP		3(two speed motor)	10HP		
Elevati	ing motor (H	IP)		1HP		1HP	5HP	
Coolar	nt equipmen	t (HP)		1/8HP		1/8HP	1/4HP	
Machir	ne height fro	m floor (Max.)	2170	2:	320	2530	3990	М
Base +	- column he	ight	1850	20	010	2000	3850	G
let we	eight (approx	()kgs	1120(kg)	1200(kg)	1250(kg)	1800(kg)	11000(kg)	
Shippir	ng weight (a	approx)kgs	1250(kg)	1340(kg)	1400(kg)	1950(kg)	12500(kg)	
Shippir	ng dimensio	ns (LxWxH)	1680x826x2160	1680x826x2190	1806x826x2190	1880x864x2210		
-	Drilling	Steel		32 Φ		42 Φ	80 D	
Capacity	Drining	Cast iron		50 Φ		55 D	100 Φ	
Cap	Tapping	Steel		25 Φ		25 Φ	65 Φ	
	apping	Cast iron		32 D		38 D	75 Φ	

MC	DDEL		TPR-1230	TPR-1230H	TPR-C1250	TPR-C1600	TPR-1600H	
Dai.	of column		30		35		432	A
Distanc	e from column sur	face to spindle center, Max	11	70	1250	1600	1580	D+C
Distanc	ce from column su	face to spindle center, Min	34	0	35		440	C
Trav	el of spindl	e head	89	0	900	1250	1140	D
Distanc	ce from base sur	face to spindle end, Max	137	70	12	20	1600	E
Distand	ce from base sur	face to spindle end, Min	49	0	34	10	380	F
Eleva	ating heigh	t of Arm	63	0	56	55	850	E-F-I
Effec	ctive area o	f box table	635x52	0x415	635x50	0x500	700x500x400	LxKxH
Dime	ension of ba	ase	1725x7*	15x180	2030x980x205	2380x980x205	2480x1050x210	RxSxQ
Taper hole spindle		MT	#4	MT#5		MT#5	, mond	
Strok	Stroke of spindle		25	0	315		370	4
R.P.I	R.P.M of spindle (rpm x steps)		44-150	0x12	25-2000x16		40-1920x12	
Feed	of spindle	(rev.x steps)	0.05 ,0.09	,0.15X3	0.04-3.2X16		0.07~0.96x6	
Main	motor (HP)	3(two spee	ed motor)	5H	IP	71/2HP	
Eleva	ating motor	(HP)	1H	Р	2H	IP	2HP	
Clam	nping motor	(HP)	1H	P	1H	IP	1HP	
Coola	ant equipm	ent (HP)	1/8H	HP	1/8HP		1/8HP	
Mach	nine height	from floor (Max.)	278	30	2810		3170	М
Base	+ column	height	206	60	2600		2660	G
Net v	veight (app	rox)kgs	2100	(kg)	3000(kg)	3500(kg)	4600(kg)	
Shipp	oing weight	(approx)kgs	2300	(kg)	3540(kg)	4100(kg)	5100(kg)	
Shipp	oing dimens	sions (LxWxH)	2035x99	5x2240	2235x1220x2540	2590x1220x2540	2850x1400x2940	
-	Drilling	Steel	42	Φ		Φ	65 Φ	
Capacity	Drining	Cast iron	55	Φ	60 Φ		70 Φ	
Cap	Tapping	Steel	25	Φ	45	5 Φ	50 Φ	
		Cast iron	38	Φ	55	Φ	60 Φ	





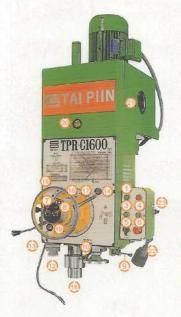




Hydraulic clamping/ TPR-1230H



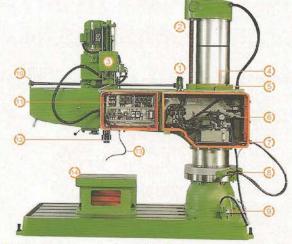
Electric clamping/ TPR-1230





- P/B swich for spindle start
 P/B swich for spindle stop
 P/B swich for arm lifting
- P/B swich for arm lowering
- Selector for step clamping
- 6 Emergency stop
- P/B swich for clamping
- P/B swich for unclamping
- Dever for spindle hydraulically forward/reverse turn
- Ontrol lever for clutch
- 💮 Hand wheel for fine feed
- Mob for spindle speed selection
- Mob for feed rate selection
- Horn for auto and manual feed
- Hand wheel for hand horizonal movement
- Regulator for feed depth selection and fine adjustment
- Dial for feed depth indication
- Ospindle
- Osight glass
- Oil level sight glass
- O Sight glass for lube check
- Work light
- Switch for coolant water
- ①② Structure of feed lever
 - (i) Ejecting lever
 - (Horn
 - (6) Cross switch
 - 6 Swing lever
- 🕐 🛞 Change lever
 - H.L change lever
 - Limit hand wheel
 - 1 Machine oil indicator
 - Green, release button
 - Red, clamp button

- Elevating motor(2HP)
 Lead screw
- (3) Column
- Hydraulic flow distributing valve
 Coolant pump(1/8HP)
- Main motor(5HP)
- ② Electric control unit
- (1) Hydraulic pump motor(1HP)
- Ospindle
- 💮 Plain box table
- 🕕 Base



COLUMN LE

- Oil cylinder base for fasten & loosen gear box
- ② Leading screw
- Spinding weight counter balance unit
- (d) Limit swith, upper
- ⑤ Special arm raising safety device
- O Hydeaulic control unit
- 🕐 Limit swith, lower

- Hydraulic cyclinder
- Oolant pump
- Leader for fasten & loosen gear box
- Electric control unit
- Opinale and quill
- 💮 Coolant nozzle
- 💮 Plain box table



Model# RF-712 N

"RONG FU" HORIZONTAL AND VERTICAL BAND SAWS 5" x 6" Horizontal & Vertical Band Saw # RF-128

Catalog# 20020312



- · Instantly change from horiz to vert. position
- Vise swivels 45° right & left
- Automatic cut-off safety switch
- · Mitering vise & blade guard
- · With one blade, vert. table & casters

Cutting Capacity

	0°	45°
0	5"	3"
×	4 1/2" x 6"	3" x 4 1/2"

Specifications

Motor & electrics	1/3HP, 110/220V, 1 ph, prewired 110v
Saw blade speed	(3) 80, 120, 200 FPM
Blade size	64 1/2" x 1/2" x 0.025"
Net Weight	140 LBS
Dimensions	36" L x 18" W x 39" H

7" x 12" Horizontal & Vertical Band Saw # RF-712 N



- Instantly change from horiz. to vert. position
- · Heavy cast iron base with quick lock vise
- Hardened & ground worm gears
- · Hydraulic feed & coolant system
- Automatic shut-off & 5" casters
- With 10" x 10" vert. table & one carbon blade

Cutting Capacity

	0°	45°
0	7"	5"
	7" x 12"	4 3/4" x 4 7/8"



Specifications

Motor & electrics	1HP, 110/220V, 1 phase, prewired 110v	
Saw blade speed	(4) 80, 125, 175, 225 FPM	
Blade size	93" x 3/4" x 0.035"	
Net Weight	330 LBS	
Dimensions	49" L x 17" W x 38" H	

7" x 12" Horizontal & Vertical Band Saws with Swivel Head



- Instantly change from horiz. to vert. position
- · Heavy cast iron base with quick lock vise
- Hydraulic feed & coolant system
- Automatic shut-off
- · 5" casters for #RF-712R only
- With 10" x 10" vert. table & one Bi-metal blade

Cutting Capacity

	0°	±45°
0	7"	5"
	7" x 8 1/4"	3 1/3" x 5 1/2"

Specifications

Motor & electrics	1 HP, 110/220V, 1 phase, prewired 110v	
Saw blade speed	(4) 98, 164, 246, 328 FPM	
Blade size	93" x 3/4" x 0.035"	
Net Weight	360 LBS	
Dimensions	49" L x 25" W x 45" H	



"RONG FU" HORIZONTAL BAND SAWS 10" x 18" Step-Pulley Horizontal Band Saw # RF-1018 B

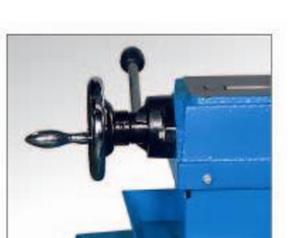
Catalog# 20020314



RF-1018S (Step-Pulley) RF-1018SV (Variable Speed)

10"x 18"





	2HP		
ŵ	Mt/min	60HZ /35-60-88-115 50HZ /29-50-73-96 Variable speed 60HZ/22~95 50HZ/18~78	
102	Ft/min	60HZ /114-196-288-377 50HZ /95-164-239-314 Variable speed 60HZ/73~312 50HZ/59~256	
	mm	W x T x L / 25.4 x 0.9 x 3090	
6.00	inch	W x T x L / 1 x 0.035 x 121.66	
	mm	L x W x H / 1720 x 620 x 1055	
	inch	L x W x H / 67.7 x 24.4 x 41.5	
	NW/GW	320 / 350 kgs	
	111/011	706 / 772 lbs	
	mm	L x W x H / 1790 x 670 x 1155 (SKD 1790 x 560 x 1055)	
	inch	L x W x H / 70.5 x 26.5 x 45.5 (SKD 70.5 x 22 x 41.5)	
R.	20'	9 sets / SKD 24 sets	

CUTTING CAPACITY				
X	0			
0°	254 (10")	127 X 468 (5" X 18 ³ /8")		
45°	150 (6")	175 X 239 (7" X 9 ³ /8")		



RF-1018SV

Tru-Lock Vise (Standard) For RF-1018S & RF-1018SV

10" x 18" Swivel & Vari-Speed Horizontal Band Saw # RF-1018 NDR



- 2-way swivel head and variable blade speeds
- Massive frame maintains blade & wheel alignment
- Heavy cast iron base and saw frame
- · Double row of adjustable bearings support saw blade
- · Adjustable variable down feed speeds
- Coolant system, blade guides, Head control cylinder
 Quick positioning vise with adjustable jaws for 0° 45° angles
- · Automatic shut-off, one Bi-metal blade

Cutting Capacity

	0°	$\pm 30^{\circ}$	±45°	$\pm 60^{\circ}$
0	10"	10"	10"	8"
	10" x 10"	10" x 10"	10" x 10"	7" x 7"
	3" x 18"	10" x 14" ·	10" x 11"	5" x 8"

Specifications

Motor & electrics	2HP, 110/220V, 1 phase, prewired 220V or 2 HP, 220V/440V, 3 phase, prewired 220V	
Saw blade speed	Variable speeds 95-402 FPM	
Blade size	11' x 1" x 0.035"	
Net Weight	950 LBS	
Dimensions 73" L x 28" W x 43" H		

* Optional: models# RF-1018AB / #RF-1018AV / #RF-1018 ADR

come with Semi-automatically head raise-up feature



"RONG FU" HORIZONTAL BAND SAWS 11" x 18" Swivel & Vari-Speed Horizontal Band Saw # RF-1118 DR

Catalog# 20020315



- · 2-way swivel head and variable blade speeds
- Massive frame maintains blade & wheel alignment
- Heavy cast iron base and saw frame
- · Double row of adjustable bearings support saw blade
- Adjustable variable down feed speeds
- · Coolant system, blade guides, Head control cylinder
- Quick positioning vise with adjustable jaws for 0° 45° angles
- · Automatic shut-off, one Bi-metal blade

Cutting Capacity

	0°	±45°	$+60^{\circ}$
0	10 1/4"	11"	8"
	3" x 18"	10" x 11"	5" x 8"

Specifications

Motor & electrics	2HP, 110/220V, 1 phase, prewired 220V or 2 HP, 220V/440V, 3 phase, prewired 220V	
Saw blade speed	Variable speeds 75-402 EPM	
Blade size	11" x 1" x 0.035"	
Net Weight	1,000 LBS	
imensions 73" L x 29" W x 43" H		

13" x 19" Swivel & Vari-Speed Horizontal Band Saw # RF-1319 DR



- · 2-way swivel head and variable blade speeds
- · Massive frame maintains blade & wheel alignment
- Heavy cast iron base and saw frame
- · Double row of adjustable bearings support saw blade
- Adjustable variable down feed speeds
- · Coolant system, blade guides, Head control cylinder
- Quick positioning vise with adjustable jaws for 0° 45° angles
- · Automatic shut-off, one Bi-metal blade

Cutting Capacity

	0°	±45°	$+60^{\circ}$
0	13"	12"	8"
	5" x 19"	9" x 12"	7" x 8"



Specifications

Motor & electrics	2HP, 110/220V, 1 phase, prewired 220V or 2 HP, 220V/440V, 3 phase, prewired 220V	
Saw blade speed	Variable speeds 75-402 EPM	
Blade size	12'6" x 1" x 0.035"	
Net Weight	1,100 LBS	
Dimensions	80" L x 29" W x 44" H	

13" x 19" Semi-automatic Horizontal Band Saw # RF-1319 ADR



- · Automatically stop and arm raised up when cut is finished
- · 2-way swivel head and variable blade speeds
- · Massive frame maintains blade & wheel alignment
- Heavy cast iron base and saw frame
- · Double row of adjustable bearings support saw blade
- Adjustable variable down feed speeds
- · Coolant system, blade guides, Head control cylinder
- · Quick positioning vise with adjustable jaws for 0° 45° angles
- · Automatic shut-off, one Bi-metal blade

Cutting Capacity

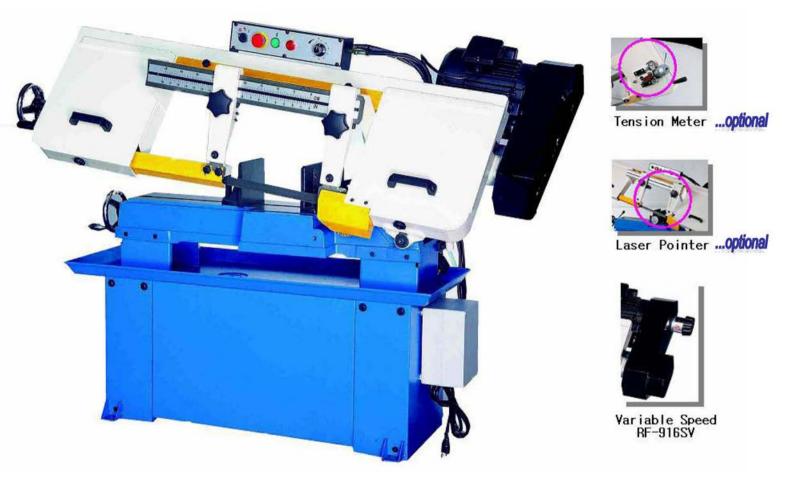
	0°	±45°	$+60^{\circ}$
0	13"	12"	8"
	5" x 19"	9" x 12"	7" x 8"

Specifications

Motor & electrics	2HP, 110/220V, 1 phase, prewired 220V or 2 HP, 220V/440V, 3 phase, prewired 220V	
Saw blade speed	Variable speeds 75-402 EPM	
Blade size	12'6" x 1" x 0.035"	
Net Weight	1,150 LBS	
Dimensions 80" L x 29" W x 44" H		







RF-916S 4 speeds RF-916SV Variable speed

-	1.5HP		
.	Mt/min	60HZ /35-60-88-115 50HZ /29-50-73-96 Variable speed 60HZ/22~95 50HZ/18~78	
υž	Ft/min	60HZ /114-196-288-377 50HZ /95-164-239-314 Variable speed 60HZ/73~312 50HZ/59~256	
0	mm	W x T x L / 25.4 x 0.9 x 2910	
	inch	W x T x L / 1 x 0.035 x 114.57	
-	mm	L x W x H / 1580 x 549 x 1229	
	inch	L x W x H / 62.2 x 21.6 x 48.4	
	NW/GW	265 / 290 kgs	
\odot	1117011	585 / 640 lbs	
	mm	L x W x H / 1700 x 625 x 1235	
	inch	L x W x H / 67 x 25 x 49 (SKD 66 x 19 x 45)	
	20'	18 sets / SKD 30 sets	

CUTTING CAPACITY				
X*	0			
0°	229 (9")	406 X 127 (16" X 5")		
45° 229 (9")		241 X 203 (9.5" X 8")		

Machine at work

RF-916S (Step-Pulley) RF-916SV (Variable Speed)





<u>~</u>	RF-916R	
ŧ	1.5HP(1.1kw) 3ø	
- VZ	Mt/min	35 , 60 , 88 , 115 60HZ
	Ft/min	114,196,288,377 60HZ
	mm W x T x L	25.4 x 0.9 x 2910
لم می کرد. محمد کی ک	inch W x T x L	1"x 0.035 x 114.6
	mm LxWxH	1580 x 549 x 1229
	inch L x W x W	62.2 x 21.6x 48.4
(Participant)	kgs	680/740
	lbs	1496 / 1628
-	mm L x W x W	1600x610x1245
	inch L x W x H	63 x 24 x 49
		20' x 18sets
CUTTING CA	PACITY	
0°		229mm (9")
		229mm (9")
		380 x 127 mm (15" x 5")
45 °	•	229mm (9")
		230 x 165 mm (9" x 6.5")

*** 標準配備: STANDARD FEATURES

- 1. 4階皮帶輪組,提供鋸帶4種速度變化 4 speeds step pulley
- 2. 重型進級式油壓缸 Heavy Duty Hydraulic Cylinder
- 3. 虎鉗快速夾緊機構 Tru-Lock Vise
- 4. 水泵式冷卻水系統 Coolant System
- 5. 排削鋼刷輪 Steel Brush
- 6. 定距桿組 Length Stop

*** 選擇配備: OPTIONS

- 1, 紅外線鋸帶定位燈 Laser Pointer
- 2, 機械式無段皮帶輪組 (RF-916RV) Extension Pulley Variable Speed
- 3, 工作燈 Work Light
- 4, 滾輪送料架組 Roller Stock Stand
- 5, 鋸帶張力表 Blade Tension Meter

機器特性: MACHINE FEATURES:

雙金屬鋸帶,提供金屬管材,棒材,鐵材,非鐵材更好切削性能。

Bi-Metal blade provides high-productivity for tubes, profiles, solid. ferrous and non-ferrous material.

鋸弓和工作台一體機構設計,提供更好,更穩定,更精確的鋸切過程。

One piece design of saw frame with working table provides better precision and efficient cutting performances.

鋸帶導塊兩端由軸承及鎢鋼導塊支持,上端由軸承支持。

Blade guides at both sides are supported by carbide/bearings.

具有集削功能及板金水箱一体結構。

One piece chip tray with stand, integrated cooling tank underneath.

鋸帶兩端冷卻水提供快速冷卻功能。

Coolant system included.

重型傳動齒輪箱機構,耐久性好。

Heavy duty transmission gear box with longer life

重型鋸帶輪傳動機構,提供穩定切削。

Heavy duty drive and idle wheels provide stable cutting

虎鉗快速夾緊機構,夾持穩定容易。

Heavy duty Tru-Lock vise provide firmly locking •

簡單的鋸切操作及鋸切循環操作界面。

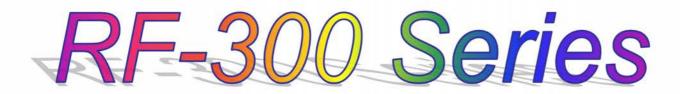
Easy cutting operation and cycling interface









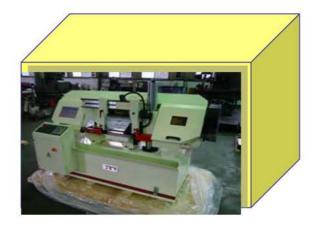




Dual Column

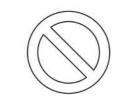
	RF-300	Machine at work	
	3HP(2.2kw) 3ø		
12	Mt/min	22,40,58,84 60HZ	
	Ft/min	72,131,190,275 60HZ	
	mm W x T x L	34 x 1.1 x 3950	
	inch W x T x L	1-3/8"x 0.043 x 155.5	
A A A A A A A A A A A A A A A A A A A	mm LxWxH	2100 x 1100 x 1400	
	inch L x W x W	83 x 31x 50	
Õ	kgs	645/675	
	lbs	1419 / 1485	
	mm LxWxW	2200 x 1180 x 1550	
	inch L x W x H	86.6 x 46.5 x 61	
		20' xx 6 sets / 40' xx 11sets	
CUTTING	CUTTING CAPACITY		
0		300mm (11.8")	
		300 x 300 mm (11.8" x 11.8")	
		300 x 500 mm (11.8" x 19.6")	



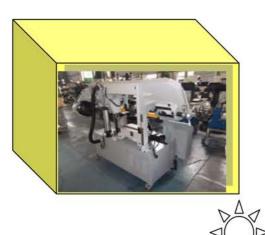


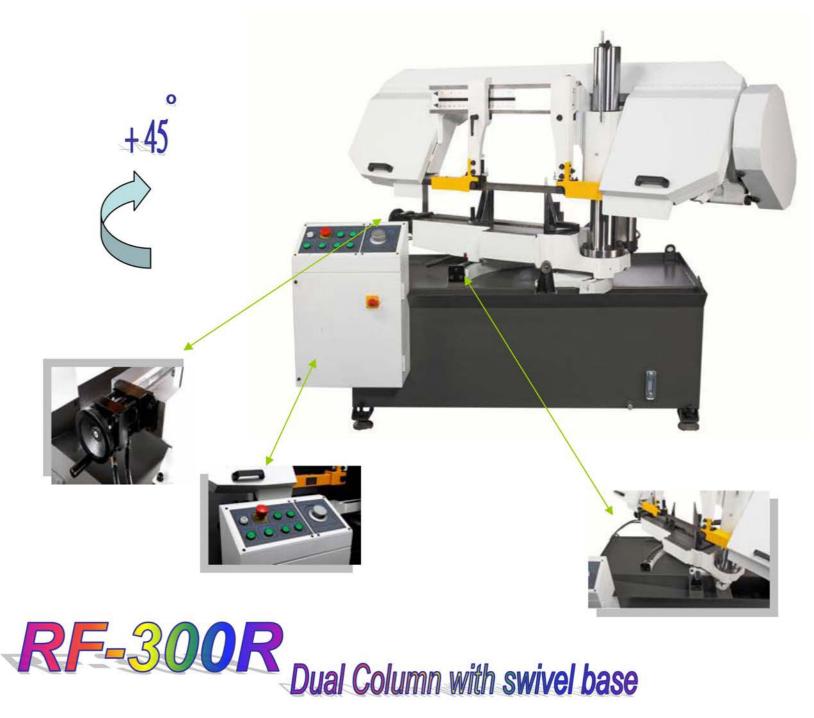


Mass Production









	RF-300R/300RV		
@ >	3HP(2.2kw) 3ø		
	Mt/min	22,40,58,84 60HZ	
- 3 2	Ft/min	72 , 131 , 190 , 275 60HZ	
	mm W x T x L	34 x 1.1 x 3950	
ل المعني الم	inch W x T x L	1-3/8"x 0.043 x 155.5	
1 Ste	mm LxWxH	2100 x 1140 x 1520	
inch L x W x W	83 "x 45"x 60"		
1	kgs	680/740	
	lbs	1496 / 1628	
	mm LxWxW	1940x1140x1530	
	inch L x W x H	76.4 x 45 x 61	
A		20' xx 6 sets / 40' xx 11sets	
		CUTTING CAPACITY	
	•	300mm (11.8")	
0°		300 x 300 mm (11.8" x 11.8")	
		300 x 432 mm (11.8" x 17")	
45°		300mm (11.8")	
		255mm (10")	
		300 x 203 mm (11.8" x 8")	

*** STANDARD FEATURES:

- 1. 4 speeds step pulley
- 2. Dual Column, Heavy Duty Hydraulic Cylinder for saw bow and table vise.
- 3. Coolant System
- 4. Steel Brush
- 5. Length Stop
- *** OPTIONS
- 1. Laser Pointer
- 2. RF-916RV: Extension Pulley Variable Speed
- 3. AC inverter drive variable speed. (RF-916RV)
- 4. Work Light
- 5. Roller Stock Stand
- 6. Blade Tension Meter

WORK FEATURES:

Semi-automatic and high-productivity for tubes, profiles, solids bars, ferrous and non-ferrous materials.
Dual-columns provide better transportation of the feed strength needed for the sawing process with better cutting performances.
Table and saw bow swivel, but the work

piece stay still when turn the angle.

•Blade guides at both sides are supported by carbide/bearings.

•One piece chip tray with stand, integrated cooling tank underneath.

•Heavy duty transmission gear box with longer life

•Heavy duty drive and idle wheels provide stable cutting

•Heavy duty Tru-Lock vise provide firmly locking •



RF-300A Dual Column with single vise auto feeding

	RF-300A	
	3HP(2.2kw) 3ø	
-9°2	Mt/min	22,40,58,84 60HZ
	Ft/min	72,131,190,275 60HZ
	mm W x T x L	34 x 1.1 x 3950
Ç.	inch W x T x L	1-3/8"x 0.043 x 155.5
· Ste	mm LxWxH	2100 x 1100 x 1400
	inch L x W x W	83 "x 34"x 50"
ō	kgs	680/740
	lbs	1496 / 1628
	mm L x W x W	1940x1140x1530
	inch L x W x H	76.4 x 45 x 61
a., <u></u>		20' xx 6 sets / 40' xx 11sets
	CUTTING CAPACITY	CUTTING CAPACITY
	•	300mm (11.8")
0 °		300 x 300 mm (11.8" x 11.8")
		300 x 500 mm (11.8" x 19.6")
ROLL FEED	•	229mm (9")
		355 x 175 mm (14" x 6.9")
	**Auto feeder roller height =	175mm,, Vise Open=355mm,,S=1.3m/mim





RF-300R





RF-300A

高效率銀切!穩定!精準!

High Efficiency Cutting ! Maximum Stability ! High Accuracy

280HA



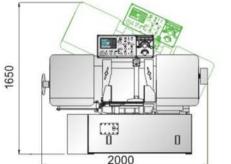


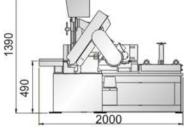
280HA 專用

- ·手動鋸帶張力調整裝置。
- ·鋸帶斷裂檢知開關。
- Manual blade tension adjustment device.
- · Blade breakage sensor.

Dimensional Drawing

Unit: mm





Specifications

MODEL			280HA
Capacity			240 x 270 mm
Capacity		\supset	270 mm
	Spood 50 Hz		20-80 m/min
Blade	Speed	60 Hz	10 A
	Size		1.1 x 34 x 3505 mm
	Sawbla	de	3 HP
Motor	Hydraul	ic	1 HP
MOLOI	Cooling		1/8 HP
	Chip Co	onveyor	1/8 HP
Floor Spa	ice (W x	LXH)	2000 x 2000 x 1650 mm
Machine	Weight		1300 kgs

·規格尺寸如有變更,恕不另行通知。

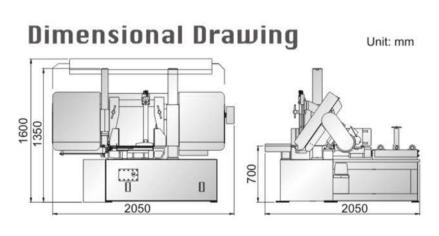
Above specifications are subject to change without prior notice.

一部匠心獨運的帶鋸機

A State-Of-The-Art Band Saw With Extra Value.

320HL





Specifications

MODEL			320HL
Capacity			320 x 330 mm
Capacity		\supset	320 mm
	Speed 50 Hz		20-80 m/min
Blade	Speed	60 Hz	-
	Size		1.1 x 34 x 3940 mm
	Sawbla	de	5 HP
Motor	Hydraul	ic	1 HP
WOU	Cooling		1/8 HP
	Chip Co	nveyor	1/8 HP
Floor Spa	ice (W x	LXH)	2050 x 2050 x 1600 mm
Machine	Weight		1750 kgs

·規格尺寸如有變更,恕不另行通知。

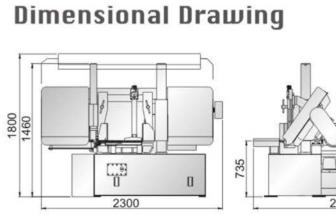
Above specifications are subject to change without prior notice.

先進設計!操控簡易!

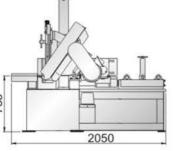
Advanced Design! Easy To Operate!

400HL





Unit: mm



Specifications

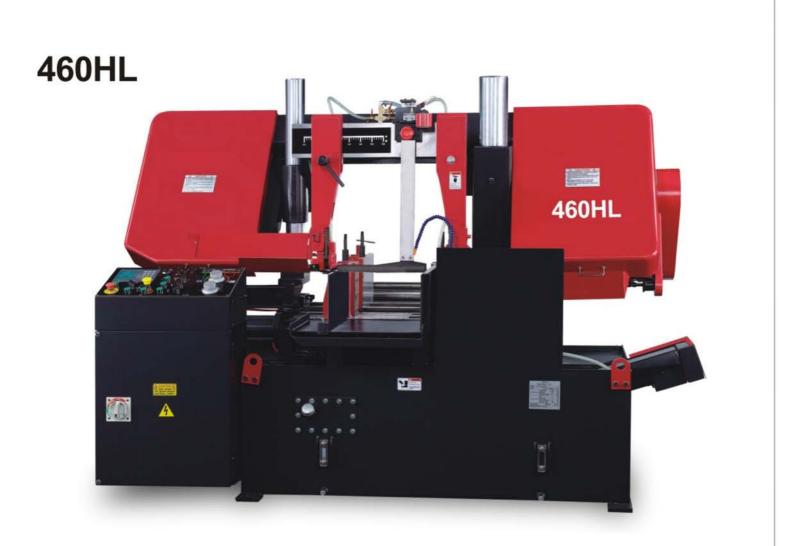
MODEL			400)HL		
			400 x 4	20 mm		
Capacity		C	400	mm		
	Speed	50 Hz	20-80	m/min		
Blade	Speed	60 Hz	-			
Didde	Size		1.1 x 34 x 4585 mm	1.3 x 41 x 4585 mm		
	Sawbla	de	5 HP	7.5 HP		
Motor	Hydraul	lic	2 HP			
WIOTON	Cooling	í.	1/8 HP			
	Chip Co	onveyor	1/8 HP			
Floor Spa	ace (W >	(LXH)	2300 x 2050) x 1800 mn		
Machine	Weight		1900	0 kgs		

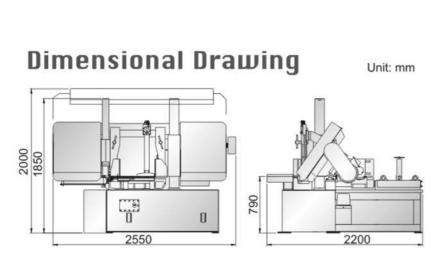
·規格尺寸如有變更,恕不另行通知。

· Above specifications are subject to change without prior notice.

物超所值的新一代帶鋸機

A New Generation Band Saw for Extra Value





Specifications

MODEL			460HL
Canaaitu			460 x 470 mm
Capacity	(\supset	460 mm
	Speed	50 Hz	20-80 m/min
Blade	opeeu	60 Hz	-
	Size	°	1.3 x 41 x 5250 mm
	Sawbla	de	7.5 HP
Motor	Hydrau	lic	2 HP
WOO	Cooling		1/8 HP
	Chip Co	onveyor	1/8 HP
Floor Spa	ace (W>	(LXH)	2550 x 2200 x 2000 mm
Machine	Weight		2500 kgs

·規格尺寸如有變更,恕不另行通知。

Above specifications are subject to change without prior notice.

優異特性 FEATURES

- ·簡易、精密的長度設定
- ·碳化鎢導塊
- · 鋸帶斷裂檢知
- ·油壓鋸帶張力控制
- ·變頻器速度控制
- ·自動切屑螺桿

- · Easy and precise length setting.
- · Tungsten carbide blade guide.
- · Blade breakage sensor.
- · Hydraulic blade tension control.
- · Speed control by frequency inverter.
- · Automatic chip auger.



精準的鋸切長度設定

具有突破性設計的長度設定,提供更精準, 更簡易的操作。操作者只需輸入所需的長度, 電腦將自動判讀,並自動尋找正確尺寸。 Accurate Length of Cut Setting The innovative design of length setting provides more accurate and easier operation. The operator simply enters his desired length, then the computer will check automatically and search for the correct size.



獨創性位置轉換器 (直線式)

獨創的長度設定系統,精準,穩定,且使用壽命長。 Unigue Direct Transducer(Linear Type) The unigue length setting device features high accuracy, high stability and long service life.



電控箱

- 採用PC板與高級電子元件組成,提供可靠的控制 性能,使用壽命長。
- 電控迴路完善規劃,維修保養方便。

Control Circuit

- The control circuit consists of PC board and high quality electronic parts, providing maximum dependability of control performance and long service life.
- The control circuit is well planned for added convenience of maintenance.



凸輪式碳化鎢導鋸(280HA除外)

全系列機種採用碳化鎢導塊以導引鋸帶, 確保最佳直線精度與鋸帶之穩定性。

Cam Type Tungsten Carbide Blade Guide (280HA Excluded)

The full series of machine employs tungsten carbide block for guiding the band blade, assuring outstanding straightness accuracy and stability of the blade.



油壓鋸帶張力自動控制裝置(280HA除外) 本機採用油壓式鋸帶張力自動控制,使鋸帶隨時保持在最佳張力狀態。 鋸帶附斷裂檢知開關,確保安全。 Hydraulically Operated Blade Tension Control (280HA Excluded)

•The machine employs a hydraulically operated blade tension control, that keeps the blade at the best tension conditions at all times. • Equipped with blade breakage sensor for safety protection.



High quality frequency inverter



- 變頻馬達驅動,
- 配合高效率皮帶傳動。
- 皮帶更換快速方便。
- Frequency inverted motor drive combined with high efficiency belt transmission.
- Belt change is fast and convenient.



自動切屑 輸送螺桿 Automatic chip auger.



- 電線保護軟管
- 曲手保護裝置
- Cable protection cover
- Crank arm protection device

選購配備 OPTIONAL EQUIPMENT

- 無段夾鉗壓力。
- CE 機型。
- · Varable vise pressure.
- · CE comformity machine.





• 滾輪式料架。 Roller stock table.

工具箱。

BIRMINGHAM VERTICAL METAL OUTTING BAND SAWS & HYDRAULIC POWER HACK SAWS

PRECISION • EFFICIENCY • RELIABILITY • VERSATILITY



KV KV-40 · 50 · 60 · 100 SERIES **VERTICAL METAL CUTTING BAND SAWS**





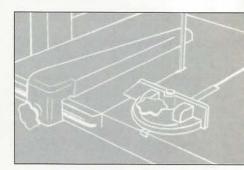
STANDARD ACCESSORIES:

- · Saw blade butt welder with integrated annealing unit .
- · Blade shear, grinder.
- · Built-in blaole and tire cleaning brush.
- · Low voltage working lamp.
- One set of required tools.
- One instruction and

parts manual.

OPTIONAL ACCESSORIES:

- Rip Fence for straight ,repeated cuttings easily removable for varied siz.
- Miter Protractor for angular cutting.
- Groove Table.



SPECIFICATIONS:

MC	DELS	UNIT	KV-40	KV-50	KV-60	KV-100			
Cutting	blade to colum	mm (in)	410 (16 ¹ / ₈)	520 (20½)	600 (23 %)	1000 (39%)			
capacity	max,work height	mm (in)	300 (1113/16)	310 (12%)	300 (11 ¹³ / ₁₆)	300 (1113/6)			
Table size	able size		600x500 (23 ¹ / ₂ x19 ¹ / ₂)	600x500 (23½ x19½)	600x500 (231/2x191/2) 220x500 (89/8x191/2)	600x500 (231/2 x191/2) 450x500 (17 3/4 x191/2)			
	nation(4ways)		15°	15°	15° 15°				
Saw blade	length	mm (in)	3350 (132)	3880 (153)	3970 (156%)	4540 (178 %)			
Saw blade	width	mm	3-16	3-16	3-16				
Saw blade	speeds	m/min(fpm)	Low 20-8	35m/min (65-280fpm)	High 120-500m/min				
Butt welde	er capacity	mm (in)		2.4KVA 3-16m	m (¼ - ¾)	× · · ·			
Drive mot	or	HP (KW)	2HP (1.5)	2HP (1.5)	2HP (1.5)	2HP (1.5)			
Net weigh	t (approx.) kgs (lbs)		440 (970)	500 (1102)	700 (1542)	800 (1763)			
Gross wei	ght (approx.)	kgs (lbs)	560 (1234)	620 (1366)	820 (1807)	920 (2028)			
Measurement (LxWxH)		mm (in)	1200x760x2100 (47 ⁵ / ₁₆ x29 ¹³ / ₁₆ x82 ¹³ / ₁₆)	1300x760x2140 (51 ³ / ₁₆ x29 ¹³ / ₁₆ x84 ⁵ / ₁₆)	1420x760x2140 (55 ¹³ / ₁₆ x29 ¹³ / ₁₆ x84 ⁵ / ₁₆)	1770x760x2140 (69 ⁷ / ₁₆ x29 ¹³ / ₁₆ x84 3/ ₆			

All specifications and designs are subject to change without notice.

KV-A KV-40A · 50A · 60A · 100A SERIES TABLE AUTOMATIC FEED ASSEMBLY VERTICAL METAL CUTTING BAND SAWS

KV-100A

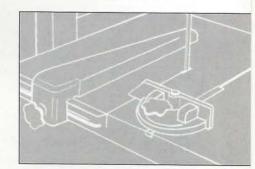






STANDARD ACCESSORIES:

- · Saw blade butt welder with integrated annealing unit .
- Blade shear,grinder.
- · Built-in blaole and tire cleaning brush.
- · Low voltage working lamp.
- · One set of required tools.
- · One instruction and parts manual.
- Rip Fence for straight ,repeated cuttings easily removable for varied size.
 - · Miter Protractor for angular cutting.
 - · Groove Table.



SPECIFICATIONS:

MC	DELS	UNIT	KV-40A	KV-50A	KV-60A	KV-100A			
Cutting	throat depeth	mm (in)	410 (16 1/8)	520 (201/2)	600 (23%)	1000 (39 %)			
capacity	max,work height	mm (in)	300 (1113)	310 (12%)	300 (11 ¹³ / ₁₆)	300 (1113)			
Table size		mm (in)	660x700 (26x27½)	660x700 (26 x27 ½)	660x700 (26x27 ¹ ₂)	660x700 (26x27 ¹ ₂) 450x500 (17 ³ ₄ x19 ¹ ₂)			
Table inclin	nation(2ways)		L5° R15°	L5° R15°	L5° R15°	L5° R15°			
Table stroke		mm (in)	350 (1325/32)	350 (1325/32)	350 (1325)	35 0 (13%)			
Saw blade	Saw blade length		3350 (132)	3880 (153)	3970 (156 5/16)	4540 (178%)			
Saw blade width		mm	3-20	3-20	3-20	3-20			
Saw blade	speeds	m/min(fpm)	Low 20-85m/min	(65-280fpm)	High 120-500m/m	High 120-500m/min (400-1640fpm)			
utt welde	r capacity	mm (in)		4.2KVA 3-20mr					
ive moto	or	HP (KW)	2HP (1.5)	2HP (1.5)	2HP (1.5)	2HP (1.5)			
Net weight	(approx.)	kgs (lbs)	590 (1298)	650 (1430)	850 (1870)	950 (2090)			
Gross weig	ght (approx.)	kgs (lbs)	710 (1562)	770 (1694)	970 (2134)	1070 (2354)			
Measurement (LxWxH)		mm (in)	$\begin{array}{c} 1350 \times 1100 \times 2100 \\ (53_{16}^3 \times 43_{16}^5 \times 82_{16}^{13}) \end{array}$	1450x1100x2140 (57x43 ⁵ / ₁₆ x84 ⁵ / ₁₆)	1570x1100x2140 (62 x43 ⁵ / ₁₆ x84 ⁵ / ₁₆)	1920x1100x2140 (75 ⁵ / ₈ x43 ⁵ / ₁₆ x84 ⁵ / ₁₆)			

50

• All specifications and designs are subject to change without notice.

KP KP-200 · 225 · 280 · 320 · 380 · 450

SERIES HYDRAULIC POWER HACK SAWS

SPECIFICATIONS:

MODELS		UNIT	KP-200	KP-225	KP-280	KP-320	KP-380	KP-450		
Cutting	•	mm(in)	200(7 %)	225(8 1/8)	280(11)	320(125%)	380(15)	450(17%)		
capacity	HxW	mm (in)	190x190 (7 ³¹ / ₆₄ x7 ³¹ / ₆₄)	230x220 (9 x8 ¹ %)	280x250 (11 x9 ¹³ 16)	300x300 (11 ³ / ₄ x11 ³ / ₄)	330x350 (13x13 ³ / ₄)	400x430 (15 ³ / ₄ x17)		
Max.Cutting			45°/160							
Distance of S	trokes	mm(in)	120(421/64)	140(5 1/2)	140(5½)	140(51/2)	140(51/2) 160(63/10)			
Strokes pe	r min		105,125		80					
Blade Siz	е	mm (in)		400x32x1.6x8.3 (16x1 ¼x1⁄16x 11/2)	450x32x1.6x8.3 (18x1 ¼x ¼6 x 1/32)	500x38x2x10.3 (20x1 ½x1/13x13/2)	550x45x2.25x10.3 (22x134x1/12x13/2)	650x50x2.5x12.3 (26x2 x 1/10 x 1/2)		
Main mot	or	HP(KW)	4P,1HP(0.75)	4P,2HP(1.5)	4P,2HP(1.5)	4P,2HP(1.5)	4P,2HP(1.5)	4P,3HP(2.2)		
Measurement (LxWxH)		mm (in)	1240x730x1010 (48 ¹ / ₆ x28 ¹ / ₆ x39 ¹ / ₆)	1400x850x1100 (48½x33¾x4356	1470x850x1100 (57 %x33 %6x43%6)	1550x850x1200 (61 x33¼x47¾)	1550x850x1200 (61 x33 ¹ / ₄ x47 ⁵ / ₁₆)	1970x940x1520 (77 ³ 5x37x59 ² 5)		
Weight Net/Gross		kgs (lbs)	270/330 (594/726)	485/545 (1067/1199)	520/580 (1144/1276)	600/660 (1320/1450)	645/ 705 (1419/1551)	800/880 (1760/1936)		

All specifications and designs are subject to change without notice.

STANDARD EQUIPMENT:

- · Complete hydraulic system.
- · Infinitely variable saw feed pressure control. Equalixing bar for jaws. · Complete electric components with motor protection.
- · Recirculating coolant system.
- · Adjustable material length stop.
- · Clamping device for short ends.
- Nesting fixture for multiple sawing of stacked bars, small rounds and tubing.
- · Material support stands.
- · One saw blade ready for cutting.
- One set of necessary tools ,and tool box.
- · One grease gum.
- One instruction and parts manual.

KB KB-30 · 36 · 45

SERIES VERTICAL METAL CUTTING BAND SAWS

SPECIFICATIONS:

MO	DELS	UNIT	KB-30	KB-36	KB-45
Cutting	atting throat deprth mm(i		310 (12%)	355 (14)	455 (1715)
capacity	max,work height	mm(in)	175 (6½)	230 (91/16)	255 (1016)
Table size		mm(in)	500x400 (191/2x151/4)	500x400 (191/2x151/4)	600x500 (231/2-191/2)
Table incli	ble inclination (4ways)		15°	15°	15°
Saw blade length		mm(in)	2520 (99¼)	2840 (11113)	3490 (137 ³ 8)
Saw blade width		mm	3-16	3-16	3-16
Saw blade	speeds	m/min(fpm)	20-90 (65-295)	20-90 (65-295)	25-115 (85-375)
Butt weld	er capacity	mm(in)	2.4KVA,3-16mm(1/8-5/8)	2.4KVA 3-16mm(1/8-5/8)	2.4KVA 3-16mm(1/8-5/8)
Drive mot	or	HP(KW)	1/2HP (0.4)	1HP (0.75)	1HP (0.75)
Net weigh	t (approx.)	kgs(lbs)	225 (496)	250 (551)	300 (660)
Gross wei	Gross weight (approx.)		285 (628)	310 (683)	370 (814)
Measurement (LxWxH)		mm(in)	$\begin{array}{c} 920 \times 550 \times 1680 \\ (36_{16}^3 \times 21_{16}^{11} \times 66_{16}^{3}) \end{array}$	940x560x1850 (37 ³ / ₁₆ x22x72 ¹³ / ₁₆)	1110x660x2020 (43 ¹ / ₁₆ x26x79 ¹ / ₄)

• All specifications and designs are subject to change without notice.

STANDARD ACCESSORIES:

- · Saw blade butt welder with integrated annealing unit .
- · Blade shear, grinder.
- · Built-in blaole and tire cleaning brush.
- . Low voltage working lamp.
- One set of required tools.
- One instruction and parts manual.

OPTIONAL ACCESSORIES:

- Rip Fence for straight , repeated cuttings easily removable for varied size.
- Miter Protractor for angular cutting.
- · Electro-magnetic switch and overload protection.
- · Groove Table.





021

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BIRMINGHAM PRECISION MANUAL SURFACE GRINDERS



WSG-618

BIRMINGHAM

- 2 HP WHEEL SPINDLE MOTOR • FINE GRADUATION ON TRAVELS

WSG-818

- HIGH PRECISION CARTRIDGE WHEEL SPINDLE
- HIGH PRECISION AND SMOOTH ROLLER WAY TABLE

BIRMINGHAM

- AUTO LUBRICATION ON LEADSCREWS AND WAYS
- FINE GRAIN HIGH TENSILE CASTING CONSTRUCTION

SPECIFICATIONS

ITEM / MODEL	WSG-618	WSG-818
Table size	6" x 18"	8" x 18"
Max. grinding length	18 1/2"	19 3/4"
Max. grinding width	6 1/2"	8 1/4"
Max. distance from spindle center to table	15 3/4"	19 3/4"
Max. longitudinal travel	19"	21 5/8"
Max. cross travel	7"	9"
Longitudinal travel per revolution	4 1/8"	3 15/16"
Cross travel per revolution	0.2"	0.2"
Cross travel per graduation	0.0008"	0.0008"
Vertical travel per revolution	0.05"	0.05"
Vertical travel per graduation	0.00025"	0.00025"
Peripheral speed of wheel	110 FT/S	110 FT/S
Spindle speed	3,600 RPM	3,600 RPM
Grinding wheel size	8" x 1/2" x 1 1/4"	8" x 1/2" x 1 1/4"
Spindle motor	2 HP	2 HP
Dust collector motor	1/2 HP	1/2 HP
Coolant pump	0.05 HP	0.05 HP
Lubricating pump	0.02 HP	0.02 HP
Overall dimensions (L x W x H)	55" x 39" x 71"	59" x 47" x 72"
Net weight, LBS	1,600	2,350

Design and specifications are subject to change without notice.

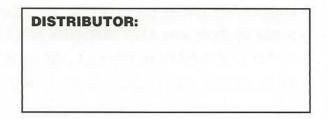
STANDARD EQUIPMENT:

- Grinding wheel Grinding wheel flange
- Tool box
- Wheel balance arbor
- Diamond wheel dresser
- Working light system

- Hoisting set
- Leveling pads
- Coolant/Dust system
- Standard permanent magnet chuck

OPTIONAL ACCESSORIES:

- · Fineline magnet chuck
- · Electrical magnet chuck with demagnet system



BIRNINGHAM PRECISION 3 AXIS AUTO SURFACE GRINDERS



GENERAL FEATURES OF 10.12.16 SERIES:

- COLUMN: ENLARGED, DOUBLE WALL, STRONGLY RIBBED COLUMN, ESPECIALLY SUITABLE FOR HEAVY DUTY GRINDING.
- CONSTRUCTION: CONSTRUCTION OF TABLE, SADDLE AND BASE IS CASTED WITH HIGH GRADE CASTING IRON, STRONGLY RIBBED.
- SPINDLE: ENLARGED SPINDLE SET IS SUPPORTED BY 4 PIECES OF PRELOADED PRECISION ANGULAR CONTACT BALL BEARINGS FOR HEAVY DUTY.
- SLIDEWAYS: VERTICAL, CROSS(DOUBLE VEES) AND LONGITUDINAL(ONE VEE & ONE FLAT)SLIDEWAYS ARE COATED WITH TURCITE-B, PROVIDES STABLE MOVEMENT AND DURABLE ACCURACY.
- AUTOMATIC CONTINUOUS LUBRICATION SYSTEM: ALL SLIDEWAYS AND SCREWS ARE FULLY OILED BY AUTOMATIC CONTINUOUS LUBRICATION SYSTEM TO ELIMINATE WEARS ON SLIDEWAYS & SCREWS.
- CROSS FEED: BALL SCREW FOR CROSS TRAVEL, POWERED BY AC MOTOR.
- VERTICAL FEED: POWERED BY SERVO MOTOR.
- HYDRAULIC TABLE: TABLE SPEED RANGES 5-25M/MIN. WITH RACK AND PINION TABLE DRIVE FOR HAND OPERATION.
- PROXIMITY SWITCH: PROVIDE BUILT-IN-TYPE(HIDDEN)PROXIMITY SWITCH, FEATURES SAFE AND EASY OPERATION.
- TABLE SPEED CONTROL: PRESETTABLE HYDRAULIC TABLE SPEED CONTROL ALLOWS OPERATOR TO PRE-SET SPEED RATE, ENABLE TO GET SAME SPEED RATE WHEN ENGAGING HYRAULIC TABLE EVERY TIME.
- HAND WHEELS: ZERO-SETTING SLIP-RINGS WITH VERNIER ON VERTICAL HANDWHEEL, AND VERNIER ON CROSSFEED HANDWHEEL.

SPECIFICATIONS

ITEM/MO	DEL	WSG-818AHD	WSG-1020AHD	WSG-1225AHD	WSG-1240AHD	WSG-1632AHD	WSG-1640AHD		
TABLE SIZE		7.87"X18.11"	9.84"x19.69"	12"x25"	12"x40.16"	16"x32"	16"x40"		
MAX.LONGITUDINAL TRAVEL		20.08"	22.05"	30.12"	44.49"	35.83"	44.49"		
MAX.CROSS TRAVEL		9.37"	10.83"	13.	39"	17.	72"		
MAX.DISTANCE FROM SPINDLE CEN	TER TO TABLE	17	.72"		22.	84"			
MAGNETIC CHUCK SIZE		7.87"X18.11"	9.84"x19.69"	11.81"X23.62"	11.81"X39.37"	15.75"X31.5"	15.75"X39.37"		
SPEED OF TABLE LONGITUDINAL MC	VEMENT			275'	'-905''				
	AUTO FEED(IN/MIN)			0.004	4"-0.3"				
TABLE TRANSVERSE MOVEMENT	RAPID SPEED(IN/MIN)	39"							
	FEED OF HANDWHEEL(IN/DIV.)	0.0008"							
	AUTO FEED(IN/STROKE)	0.0002"-0.002"							
WHEELHEAD VERTICAL MOVEMENT	RAPID SPEED(IN/MIN)	9.45"							
	FEED OF HANDWHEEL(IN/DIV.)	0.0002"							
	SPEED (60HZ)	3450 RPM 1750 RPM							
GRINDING WHEEL	SIZE(ODxWxID)	7.87"X0.	79"X1 1/4"		13.8"X	1.6"X5"			
MOTOR OF SPINDLE		2 HP	3 HP		7.5	HP			
MAX.LOADING OF CAPACITY OF TAB	LE (INCLUDE MAGNETIC CHUCK	270 LBS	400 LBS	600 LBS	900 LBS	1100 LBS	1300 LBS		
HEIGHT OF MACHINE		6	66"		7	5"			
FLOOR SPACE (L x W)		81"X56"	91"X63"	115"X87"	175"X87"	142"X95"	175"X95"		
GROSS WEIGHT		3530 LBS	3970 LBS	6400 LBS	7280 LBS	7720 LBS	8820 LBS		
PACKING DIMENSION (L x W x H)		75"x68"x86"	79"x83"x86"	93"x88"x87"	117"x88"x87"	113"x90"x87"	117"x90"x87"		

Design and specifications are subjict to change without notice

STANDARD EQUIPMENT:

GRINDING WHEEL

GRINDING WHEEL FLANGE

WHEEL BALANCE STAND

WHEEL BALANCE ARBOR

DIAMOND WHEEL DRESSER

WHEEL FLANGE EXTRACTOR

WORKING LIGHT SYSTEM

LUBRICATION SYSTEM

COOLANT SYSTEM

FULL LENGTH SPLASH GUARD

OPTIONAL EQUIPMENT:

DRO SYSTEM

PARALLEL WHEEL DRESSER

FINE POLE ELECTRO MAGNETIC CHUCK

COOLANT AND DUST COLLECTION SYSTEM

COOLANT SYSTEM WITH PAPER FILTER

COOLANT SYSTEM WITH MAGNETIC SEPARATOR

COOLANT SYSTEM WITH MAGNETIC SEPARATOR AND PAPER FILTER

DISTRIBUTOR:

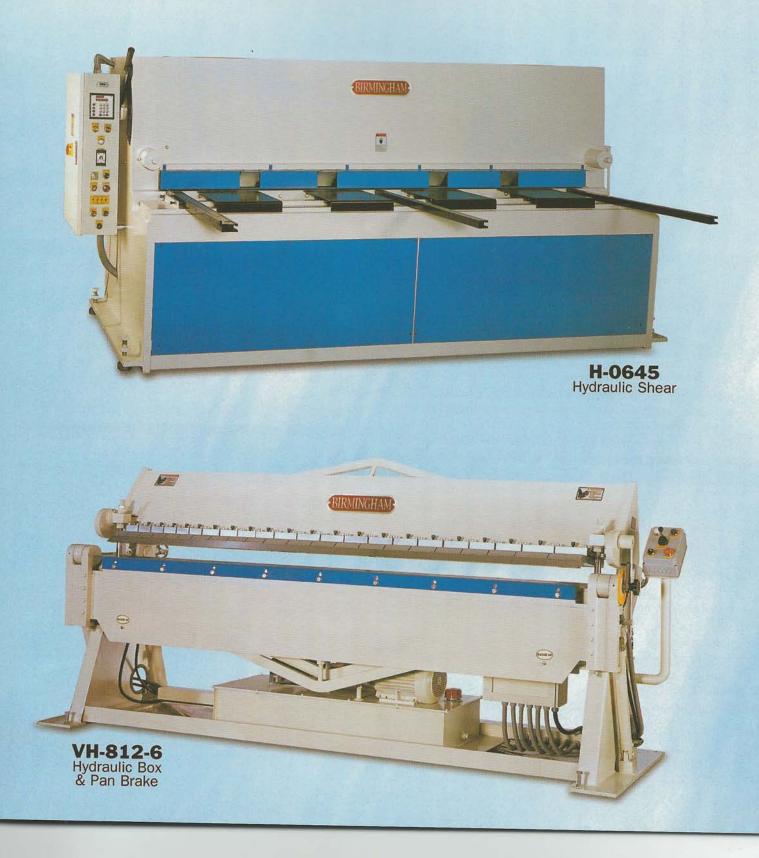
BIRMINGHAM

FABRICATION EQUIPMENT SHEET METAL EQUIPMENT

ISO 9002 Made in

TAIWAN

SAFETY/RELIABILITY/PERFORMANCE



BIRMINGHAM HEAVY DUTY HYDRAULIC SHEARS



MAIN FEATURES:

- Well balanced and sturdy welded machine frame provides constant stability and rigidity.
- The centralized hydraulic logical system offers the best performance with a quiet hydraulic pump.
- Independent hydraulic pressure hold-downs synchronized with upper blade, ensuring the workpiece is securely clamped at the moment of cutting.
- High grade carbon/chrome alloy steel blades ensure maximum accuracy cutting and longer blade life, 60hrc hardened.
- Blade clearance (gap) setting can be easily and quickly done by adjusting handle. (Standard for H-0445 and heavier models).
- Hydraulic adjustable rake angle design is a standard feature for all models, this allows the operator to obtain best rake angle for each application and minimize possible bowing and twisting.
- Adjustable cutting length and stroke.
- Shadow line lighting covering full length of worktable, this is very helpful to operator for positioning and shearing workpiece.
- Worktable mounted with ball transfer type plates, for easier loading and moving workpiece.
- Full-length and full view safety finger guard, to protect operator from cutting hazard.
- Removable foot remote pedal is fitted with safety protection, the upper blade beam will rise to top position immediately, when the operator removes off his foot from the pedal.
- All motors and pumps are overload protected.
- Jog, single, or continuous cutting modes.

STANDARD ACCESSORIES:

- High grade, high carbon/chrome 2-edge upper blade, and 4-edge bottom blade, 60hrc.
- Hydraulic rake angle adjustment.
- Two 40" front support arms with front setters.
- One 40" squaring arm with dual scale.
- 24" manual back gauge with dual scales and crank wheel.
- Single axis 32" NC programmable front operated power back gauge (H-0865/H-1065/H-1365 only).
- Full length finger guard and shadow line lighting.
- Hydraulic independent hold-downs.
- Overload protected hydraulic system.
- Removable foot control pedal with safety protection.
- Full electrics & cabinet with operation panel.
- Tool box and leveling pads.

OPTIONAL ACCESSORIES:

- Angle gauge
- Single axis, NC programmable 32" power back gauge.
- Hydraulic-type thin sheet supporter.
- Power back gauge with lifting function.
- 59"/79"/118" front support arm.
- 59"/79"/118" squaring arm with dual scale.
- CE making machines

9

BIRMINGHAM HEAVY DUTY HYDRAULIC SHEARS





AManual back gauge.



▲ 32" NC programmable front operated power back gauge. Fast & precise travel motorized by precision ball screw, incorporates with a single axis NC type control unit #ELGO P8511 (Germany), with read out display & jog adjustment. Resolution 0.004"



Blade clearance (GAP) adjusting device.



Squaring arm with dual inch/mm scale and front setter.

SPECIFICATIONS:

MODEL		H-0435	H-0535	H-0635	H-0835	H-1035	H-1335	H-0445	H-0545	H-0645	H-0845	H-1045	H-1345	H-0665	H-0865	H-1065	H-1365
MILD ST	G CAPACITY TEEL SS STEEL	4' 10GA 13GA	5' 10GA 13GA	6' 10GA 13GA	8' 10GA 13GA	10' 10GA 13GA	13' 10GA 13GA	4' 7GA 11GA	5' 7GA 11GA	6' 7GA 11GA	8' 7GA 11GA	10' 7GA 11GA	13' 7GA 11GA	6' 1/4" 7GA	8' 1/4" 7GA	10' 1/4" 7GA	13' 1/4" 7GA
BLADE I	LENGTH	4'4"	5'2"	6'10"	8'4"	10'2"	13'4"	4'4"	5'2"	6'10"	8'4"	10'2"	13'4"	6'4"	8'4"	10'2"	13'4"
STROKE	S PER MINUTE (S.P.M.)	44-55	35-50	30-45	28-40	25-35	20-28	40-55	35-50	32-50	30-45	25-35	20-28	26-40	26-40	24-35	20-28
HOLD-	NUMBER	8	9	11	13	16	18	8	9	11	13	16	18	11	13	16	18
DOWNS	PRESSURE (tons)	2.5	3.5	4.2	6.7	8.2	9.2	3.2	4.5	5.6	7.8	9.6	10.1	10.1	13	16	18
FRONT	FRONT SUPPORT (inch) 40 <td>40</td> <td>40</td> <td>40</td> <td>40</td>		40	40	40	40											
BACK G	AUGE (inch)	24	24	24	24	24	24	24	24	24	24	24	24	24	POWER B.G.32"		
TOP BLA	ADE RAKE ADJUST	HYD	RAULIC A	DJUSTME	NT RAKE	ANGLE		HY	DRAULIC	ADJUSTM	IENT RAP	E ANGLE	+ BLADE	CLEARAN	CE ADJUST	DEVICE	
TOP BLA	ADE RAKE ANGLE	1/2-2°	1/2-20	1/2-2°	1/2-2°	1/2-20	1/2-2°	1/2-20	1/2-20	1/2-20	1/2-20	1/2-20	1/2-2°	1/2-2°	1/2-20	1/2-20	1/2-20
MOTOR	(HP)	7.5	7.5	7.5	10	10	15	10	10	15	15	15	20	15	15	20	20
OIL TAN	K CAPACITY (gallons)	25	30	35	40	40	40	25	30	35	40	40	40	40	60	80	100
NET WE	IGHT, (Ibs)	4,000	5,000	7,000	8,200	9,800	11,000	4,800	5,800	7,800	9,000	10,600	12,000	10,000	12,800 16,000 26,000		
APPROX	L DIMENSIONS (, pport arm)	91" x 48" x 63"	103" x 48" x 63"	118" x 48" x 65"	132" x 50" x 65"	158" x 50" x 65"	197" x 50" x 65"	91" x 48" x 63"	103" x 48" x 63"	130" x 48" x 65"	132" x 50" x 65"	158" x 50" x 65"	197" x 50" x 65"	130" x48" x65"	138" x 70" x 85"	158" x 70" x 85"	197" x 72" x 89"

#ELGO P8511 Germany

ALL SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

BIRMINGHAM DELUXE HYDRAULIC SHEARS



STANDARD EQUIPMENT:

- · Spring hold downs.
- Two 24" front support arms.
- 24" manual back gauge with wheel.
- Safety full length finger guard.
- High grade, high carbon/chrome
- Toolbox and leveling pads.
- 2-edge upper blade & 4-edge bottom blade, 60hrc.

OPTIONAL EQUIPMENT:

• 40"/59"/79"/118" long squaring arm. • 32" front operated power back gauge with digital counter



SPECIFICATIONS:

MODEL	CUTTING LENGTH	CUTTING MILD STEEL	CUTTING STAINLESS STEEL	RAKE ANGLE	STROKE PER/MIN.	MOTOR POWER	FRONT GAUGE	BACK GAUGE	SHIPPING WEIGHT	PACKING SIZE
H-5216	52"	16GA	19GA	1°40'	20	2HP	24"	24"	1,600lbs	75" x 36" x 53"
H-5214	52"	14GA	18GA	1°40'	35	3HP	24"	24"	1,900lbs	75" x 36" x 53"
H-5210	52"	10GA	13GA	1°40'	30	5HP	24"	24"	3,000lbs	76" x 36" x 55"
H-6014	61"	14GA	18GA	1º40'	30	5HP	24"	24"	3,200lbs	84" x 36" x 55"
H-6010	61"	10GA	13GA	1°40'	26	5HP	24"	24"	3,500lbs	84" x 36" x 55"
H-8014	81"	14GA	18GA	1°40'	26	5HP	24"	24"	3,700lbs	105" x 36" x 55"
H-8010	81"	10GA	13GA	1°40'	24	5HP	24"	24"	4,000lbs	105" x 36" x 55"
H-10014	100"	14GA	18GA	1°30'	22	5HP	24"	24"	4,300lbs	126" x 36" x 55"
H-10012	100″	12GA	15GA	1º30'	22	5HP	24"	24"	24" 4,800lbs	126" x 36" x 55"
H-10010	100"	10GA	13GA	1°30'	22	7.5HP	24"	24"	5,500lbs	128" x 36" x 55"
H-12014	122"	14GA	18GA	1º30'	20	5HP	24"	24"	5,200lbs	152" x 36" x 55"

- Two 14" side gauges (R/L) with dual scales
 Removable foot control pedal with safety protection
- Fully hydraulic control and safety protection system.
- Electric control selection for single/continuous mode.

BIRMINGHAM FOOT SHEAR



SPECIFICATIONS:

MODEL	CUTTING LENGTH	CUTTING MILD STEEL	RAKE ANGLE	FRONT GAUGE	BACK GAUGE	SHIPPING WEIGHT	PACKING SIZE
0-5216	52"	16GA	1°40″	24"	24"	1,000lbs	67" x 32" x 53"
0-3616	36"	16GA	1º40"	24"	24"	800lbs	57" x 32" x 53"

STANDARD EQUIPMENT:

- · Spring hold downs.
- Two 24" front supports.
- Rugged steel frame.
- 24" Manual back gauge. Safety finger guard.
- Two 14" side gauges.
- High grade, high carbon/chrome 2-edge upper blade and 4-edge bottom blade.

BIRMINGHAM

L-20





FLANGE ATTACHMENT

STANDARD LOCK FORMED IN BOARD 5/16" (8mm)

SPECIFICATIONS:

Capacity	20 to 26GA.Use approximately 1"of material.					
Depth of Pocket	5/16" Width of hammer-over edge adjustable up to 3/8".					
Speed	25 feet per minute.					
Motor	1 HP 110V, single phase.					
Drive	V-belt.					
Stand	ARC welded steel. Heavy top plate.					
Feature	All steel forming head, hardened and ground shafts, Case hardened steel forming rolls, machine cut gear and needle type roller bearing throughout.					
Dimensions	36" x 16.5" x 36.5"					
Net Weight	Approximately 320 lbs					

Optional roll mounted on outboard shafts.

			0	0
Rolls	Double Seam Rolls	Drive Cleat Rolls	Flange Attachment	Right Angle Rolls
Capacity	20-26GA	20-26GA	20-26GA	20-26GA
Material	1"	2-1/8"	up to 3/16"	up to 3/8"
Size	3/8" Seam	1-1/8" Width	up to3/16" Height	up to3/8" Height

BIRMINGHAM HYDRAULIC PRESS BRAKES



MAIN FEATURES:

1. CONSTRUCTION

The frame is high tension, stress released steel plate and rigidly bolted/welded to manufacture strong/un-transform machine body.

2. WIDE GUIDEWAY

To ensure the movement of the guideblock more smoothly and stable for high accuracy.

3. MECHANICAL PARALLEL DEVICE

The compulsory synchronization of the mechanical structure to ensure the top die and bottom die fully parallel at any position of stroke movement.

4. HYDRAULIC OIL TANK & PUMP

A large tank allows the oil to run smoothly and efficiently. The high-efficiency, low-noise pump improves the quality of the working environment.

5. STROKE

Depth positioning by accurate mechanical stops inside the cylinder to ensure every bending to the same angle. Adjustable strokes shorten machine time.

6. SAFETY FOOT CONTROL

Removable foot control pedal with safety protection. The upper die beam is raised back to the top position immediately upon the operator removing his foot from the pedal.

7. HYDRAULIC SYSTEM

High-efficient hydraulic circulation system, quality solenoids and two powerful cylinders provide maximum and stable output to execute excellent performance. Ram downward by two-step speed, fast-speed approaching and slow -speed press bending to shorten the circulation time. Easy setting work pressure by stepless regulator with overload protection device to provide a proper pressure.

8. SINGLE-SIDE MICRO ADJUSTMENT

Two micro-fine adjusting bending angles, this device provides two directional adjustments, increase or decrease bending angle(s), to achieve uniform angle on both ends of the bent workpiece.

9. DIES

One-piece upper die. One-piece 4-way bottom die. Multi-size V-slot design to meet most bending applications,

10. POWER BACK GAUGE

Motorized precision ballscrew type back gauge with readout display and micro adjustor. Resolution 0.004".

IRMINIGHAM 3 **HYDRAULIC PRESS BRAKES**





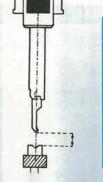
Hydraulic System



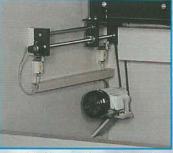
• Power Bending Angle (Depth Positioning) setting device with manual micro adjustor and readout display control panel.



• Rigid Parallel Mechanism



stops in the cylinders.



Ballscrew Power Back Gauge



• Bottom Die/Table Hydraulic Support, ensure bent workpiece in straight alignment.

FOR BIRMINGHAM HYDRAULIC PRESS BRAKES SPECIFICATIONS:

8

ALL SPECIFICATIONS AND DESIGNS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

STANDARD EQUIPMENT:

- 24" or 32" ballscrew back gauge with digital counter display and front control (optional for 22/33/38/50 ton model).
 - 24" front operated manual ballscrew back gauge with digital counter and micro adjustor (22/33/36/50 ton models).
 - 24" (2) front support arms.
- Powered bending angle setting device (opt: 22/33/38/50 ton models).
- Hydraulic bottom-die angle compensation (opt: 22/33/38/50 ton models).
- One top die and one 4-way bottom die (6Vs for 66ton and over, single V for 50tons and lower).
 - · Control panel with all switch low voltage wired.
- Removable foot pedal with safety protection housing.
- Tool box with maintenance tools and leveling pads.

OPTIONAL ACCESSORIES:

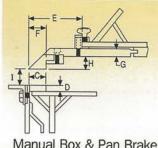
- 24"Power ballscrew back gauge with digital counter display and front control (for 22/33/38/50 ton models only).
- Powered bending angle setting device (22/33/38/50 ton models only).
- Hydraulic bottom-die angle compensation (22/33/38/50 ton models only).
 - Safety sensor protection system.
 - Power grease injecting system.
- Larger throat depth per customer's request.
 - Special custom die.
- 2 axis NC back gauge with German ELG0 #P8822



BIRMINGHAM CHYDRAULIC TYPE







Manual Box & Pan Brake Hydraulic Box & Pan Brake

TR I +C> D

Manual Straight Hand Brake

DIMENSIONS:

MODEL	V-412 V-612 V-816	V-812 V-1014	V-1016	V-1218 V-4020	V-412-6 V-612-6	V-616-6 V-816-6	V-812-6 V-1014-6	V-1016-6 V-1218-6 V-4020-6	VH-412-6 VH-410-6 VH-1014-6 VH-612-6 VH-810-6 VH-1216-6 VH-812-6 VH-1010-6 VH-4018-6
A	31/8"	4"	4"	4"					
В	⁵ /8″	1"	3/4"	1"					
С	2"	2"	2"	2"	2"	2"	2"	2"	2"
D	7/8"	7/8"	3/4"	7/8"	7/8"	3/4"	7/8"	3/4"	7/8"
E					6"	6"	6"	6"	6"
F					2"	2"	2"	2"	2"
G					13/16"	3/4"	13/16"	1"	13/16"
Н					15/16"	15/16"	15/16"	15/16"	15/16"
1	1%/16"	2¹/s"	2 ¹ /a"	2 ¹ /8"	1%16"	1%16"	2 ¹ /a"	21/8"	4"

SPECIFICATIONS: FOR BIRMINGHAM BRAKES

FLOOR TYPE MANUAL STRAIGHT HAND BRAKES:

N	IODEL	V-412	V-612	V-812	V-816	V-1014	V-1016	V-1218	V-4020
DENDING	BENDING LENGTH	481/2"	73"	97"	97"	121"	121"	145"	157"
BENDING	MILD STEEL	12GA	12GA	12GA	16GA	14GA	16GA	18GA	20GA
	STAINLESS STEEL	16GA	16GA	16GA	20GA	18GA	20GA	22GA	24GA
BENDI	NG ANGLE	0-135°	0-135°	0-135°	0-135°	0-135°	0-135°	0-135°	0-135°
BEAM A	DJUSTMENT	1"	1"	1"	1"	1"	1"	1"	1"
MIN. REV	VERSE BEND	5/16"	5/15"	5/16"	⁵ /16"	5/16"	⁵ /16"	⁵ /16"	5/18"
PACKING	G SIZE, INCH	71 x 34 x 40	97 x 34 x 40	123 x 34 x 40	123 x 34 x 40	146 x 34 x 40	146 x 34 x 40	168 x 34 x 40	185 x 36 x 47
NET WI	EIGHT, LBS	1,500	2,000	3,000	2,300	3,800	3,500	4,500	5,300

FLOOR TYPE MANUAL BOX AND PAN BRAKES:

Ň	IODEL	V-412-6	V-612-6	V-812-6	V-816-6	V-1014-6	V-1016-6	V-1218-6	V-4020-6
DENDING	BENDING LENGTH	48"	72"	96"	96"	120"	120"	145"	157"
BENDING	MILD STEEL	12GA	12GA	12GA	16GA	14GA	16GA	18GA	20GA
	STAINLESS STEEL	16GA	16GA	16GA	20GA	18GA	20GA	22GA	24GA
BENDI	NG ANGLE	0-135°	0-135°	0-135°	0-135°	0-135°	0-135°	0-135°	0-135°
BEAM A	DJUSTMENT	1"	1"	1"	1"	1"	1"	1"	1"
MIN. REV	ERSE BEND	5/8*	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8*
PACKING	SIZE, INCH	71 x 34 x 44	97 x 34 x 44	123 x 34 x 46	123 x 34 x 44	146 x 34 x 44	146 x 34 x 44	168 x 34 x 47	185 x 36 x 47
NET WE	EIGHT, LBS	2,300	2,800	3,600	3,000	4,000	3,800	6,000	6,500

HYDRAULIC BOX AND PAN BRAKES:

N	NODEL	VH-412-6	VH-410-6	VH-612-6	VH-812-6	VH-810-6	VH-1014-6	VH-1010-6	VH-1216-6	VH-4018-6
DENDING	BENDING LENGTH	48"	48"	72"	96″	100"	120"	120"	145"	157"
BENDING	MILD STEEL	12GA	10GA	12GA	12GA	10GA	14GA	10GA	16GA	18GA
	STAINLESS STEEL	16GA	12GA	16GA	16GA	12GA	18GA	12GA	20GA	22GA
BENDI	NG ANGLE	0-135°	0-135°	0-135°	0-135°	0-135°	0-135°	0-135°	0-135°	0-135°
BEAM A	DJUSTMENT	1"	1"	1"	1"	1"	1"	1"	1"	1"
MIN. REV	VERSE BEND	1/2"	13/16"	1/2"	1/2"	13/16"	1/2"	13/16"	1/2"	1/2"
М	IOTOR	2HP	2HP	2HP	3HP	5HP	3HP	5HP	3HP	3HP
PACKING	G SIZE, INCH	83 x 46 x 66	83 x 46 x 69	106 x 46 x 66	132 x 46 x 66	132 x 46 x 71	154 x 46 x 66	154 x 46 x 71	185 x 47 x 67	191 x 47 x 67
NET WI	EIGHT, LBS	2,600	4,200	4,600	5,600	6,400	6,400	8,500	7,500	8.000

STANDARD FINGER ASSORTMENT, WIDTH AND NUMBER OF FINGERS

SIZE	410-6/412-6	612-6/616-6	810-6/812-6/816-6	1010-6/1014-6/1016-6	1216-6/1218-6	4018-6/4020-6
3"	3	6	6	6	6	6
4"	2	3	4	4	6	6
5"	5	6	10	10	10	10
6"	1	2	2	6	9	11
TOTAL	11	17	22	26	26	33

ALL SPECIFICATIONS AND DESIGNS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

STANDARD EQUIPMENT:

24"manual back gauge with slide and lock for all hydraulic box and pan brakes.

OPTIONAL EQUIPMENT:

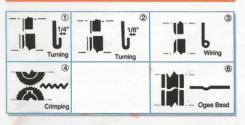
- 32" 2axes (Angles & Length) NC Controller
- 24"manual back gauge with slide and lock for all manual brakes.
- 32" power brake gauge with LED display unit and platform
- Radius fingers
- Side guard
- Safety protective sensors only for VH-410-6, VH-610-6, VH-810-6, VH-1010-6
- Auto angle setting control

BIRMINGHAM

SPECIFICATIONS:

MODEL	CAPACITY MILD STEEL	DIS. BETWEEN SHAFT CENTER	DEPTH OF THROAT	NET/GROSS WEIGHT	PACKING SIZE
U-22	22GA	22"	7"	71lbs	18" x 16" x 8"

STANDARD EQUIPMENT:



Y-16 HAND NOTCHER with optional stand

SPECIFICATIONS:

MODEL	MAXIMUM FORCE	CAPACITY MILD STEEL	NOTCHING SIZE	STROKE	TABLE SIZE	NET/GROSS WEIGHT
Y-16	4 TONS	16GA	6" x 6" x 90°	3/4"	18" x 12"	220/280lbs

U-22 ROTARY CLADDING

MACHINE

NS-4816 BENCH HAND BRAKE with floor stand NU-4816 BENCH BOX & PAN BRAKE with floor stand

BENCH TYPE HAND BRAKES:

MODEL	CAPACITY MILD STEEL	MAX LIFT OF BEAM	BEAM ADJUSTMENT	NET/GROSS WEIGHT, LBS	PACKING SIZE
NS-4822	48 ¹ /2" x 22GA	7/8"	3/8"	260/280	63" x 26" x 32"
NS-4816	48 ¹ /2" X 16GA	13/4"	5/8"	500/520	63" x 26" x 32"

BENCH TYPE BOX AND PAN BRAKES:

MODEL	CAPACITY MILD STEEL	MAX LIFT OF BEAM	BEAM ADJUSTMENT	NET/GROSS WEIGHT, LBS	PACKING SIZE
NU-4822	48" x 22GA	7/8"	3/8"	300/320	63" x 26" x 32"
NU-4816	481/2" x 16GA	13/4"	5/8"	550/580	63" x 26" x 32"

STANDARD EQUIPMENT:

- One piece counter weight (except 22 gauge machine).
- Hand brake NS model, including one pair of bending rails
- Box and pan brake NU model, including fingers assortment of: (2"x 5+3"x6+4"x 5=16pcs).









X-2420 Manual Slip Roll

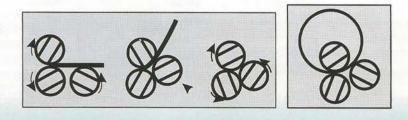


SPECIFICATIONS:

MODEL	FORMING WIDTH	CAPACITY MILD STEEL	DIAMETER OF ROLL	3 WIRE GROOVES	MIN FORMING RADIUS	GEAR RATIO	ROLL	MOTOR	NET GROSS WEIGHT, LBS	OVERALL DIMENSIONS, INCH
X-2420	24"	20GA	2*	5/16", 3/8", 1/4"	1"	1:1	-	-	180(220)	43 x 15 x 21
X-3622	36"	22GA	2"	5/16", 3/8", 1/4"	1"	1:1	-	-	240(290)	55 x 15 x 21
X-5016	50"	16GA	3″	⁵ /16", ³ /8", ¹ /2"	11/2"	3:1	-	-	520(540)	65 x 16 x 20
X-5016E	50"	16GA	3"	5/15", 3/8", 1/2"	11/2"	-	16RPM	1HP,3ø	720(780)	67 x 26 x 45

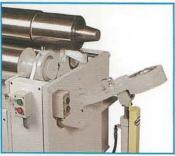
MAIN FEATURES:

- All rolls are made of polished, turned, and ground high grade carbon steel.
- · Gear-driven rolls.
- Rigid construction for long life and precision operation
- Front mounted handle to lift upper roll for easy workpiece removal.
- · Standard three wire grooves.
- Removable foot pedal control for X-5016E.



BIRMINGHAM HYDRAULIC PLATE BENDING ROLL MACHINES DOUBLE PINCH TYPE

THE DROP END IS TILTED HYDRAULICALLY AT THE OUTBOARD END OF THE TOP ROLL JOURNAL FOR EASY REMOVAL OF THE FINISHED CYLINDER. THE DROP END IS STRONGLY CONSTRUCTED AND MADE TO ELIMINATE TWIST TENDENCY OF THE DROP END FROM BENDING FORCE.





MAIN FEATURES:

- Hydraulic circuits, which is protected against overload, is fully enclosed to provide low-noise and leak-proved flow system.
- · All three rolls are driven independently and hydraulically.
- Hydraulic pinch adjustment for two lower rolls.
- Each lower roll is equipped with an easy-reading LED indicator to show its reference position to the operator.
- Hydraulic pinch adjustment can be easily adjusted from the LED indicator reading.
- Portable controller around the machine for rolls forward/ reverse/pinch adjustment conveniently.
- All rolls are made of top grade alloy steel hardened up to HRC55°
- Spherical roller bearings, which are very high quality made and sealed-in to keep out dirt and dust, are installed for all rolls.

OPTIONAL ACCESSORIES:

- Infinitely variable roll rotation speed.
- Cone bending attachment.

14

THE PLANETARY REDUCTION GEAR AND PUMP OUTPUTS HIGHER TORQUE, DRIVING THE ROLLS POWERFULLY AND SMOOTHLY



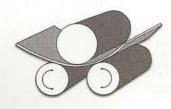
PLANETARY REDUCTION GEAR AND PUMP

ROLLS CAMBER DESIGN

THE ROLLS ARE ALSO MANUFAC-TURED IN A CAMBER DESIGN TO COMPENSATE ANY DISTORTION OF THE ROLLS FROM PRESSURE DURING BENDING PROCESS, THIS DESIGN CAN AVOID TO HAVE FINISHED CYLINDER WITH A CONVEX OR CONCAVE SHAPE.

BIRIVINGHAM **HYDRAULIC PLATE BENDING ROLL MACHINES DOUBLE PINCH TYPE**







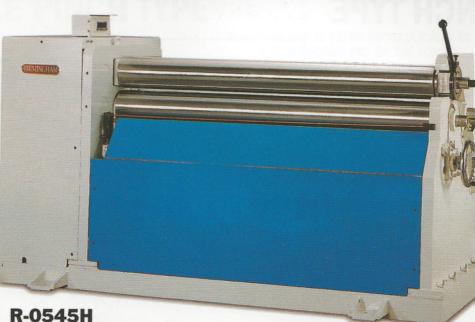
MODEL	MILD STEEL CAPACITY	ROLL LENGTH & DIA.	MOTOR (HP)	ROLL SPEED INCH/MIN.	NET WEIGHT LBS.	PACKING SIZE (INCH)
RH-0506	5'1" x 1/4"	5'1" x ø8"	3HP	197	8,700	102 x 41 x 47
RH-0606	6'8" x 1/4"	6'8" x ø8"	3HP	197	9,500	122 x 41 x 47
RH-0805	8'4" x 6GA	8'4" x ø8"	3HP	197	10,200	138 x 41 x 49
RH-1004	10' x 7GA	10' x ø8"	3HP	197	12,500	163 x 43 x 49
RH-0508	5'1" x 5/36"	5'1" x ø9"	5HP	197	11,500	110 x 43 x 49
RH-0608	6'8" x 5/16"	6'8" x ø9"	5HP	197	12,500	126 x 43 x 49
RH-0806	8'4" x ¼"	8'4" x ø9"	5HP	197	13,500	142 x 45 x 53
RH-1005	10' x 6GA	10' x ø9"	5HP	197	15,800	163 x 45 x 53
RH-0510	5'1" x 3/s"	5'1" x ø10"	7.5HP	177	13,000	110 x 43 x 51
RH-0610	6'8" x 3/s"	6'8" x ø10"	7.5HP	177	13,800	130 x 41 x 51
RH-0808	8'4" x 5/16"	8'4" x ø10"	7.5HP	177	15,800	146 x 43 x 53
RH-1006	10' x 1/4"	10' x ø10"	7.5HP	177	18,000	177 x 43 x 53
RH-0613	6'8" x 1/2"	6'8" x ø11"	10HP	177	16,500	134 x 43 x 55
RH-0810	8'4" x 3/s"	8'4" x ø11"	10HP	177	18,500	153 x 47 x 57
RH-1008	10' x 5/18"	10' x ø11"	10HP	177	22,000	173 x 51 x 57
RH-0616	6'8" x 5/s"	6'8" x ø121/4"	15HP	177	19,800	138 x 51 x 55
RH-0813	8'4" x ½"	8'4" x ø121/4"	15HP	177 .	24,500	157 x 51 x 59
RH-1010	1.0' x 3/s"	10' x ø121/4"	15HP	177	26,500	179 x 55 x 59

SPECIFICATIONS:

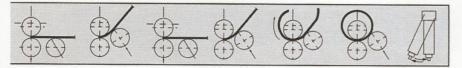
ALL SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

BIRMINGHAM HYDRAULIC PLATE BENDING ROLL MACHINES

SINGLE PINCH TYPE



INITIAL PINCH TYPE:



MAIN FEATURES:

- · All three rolls are driven by hydraulic system.
- · Pinch roll cylinders adjustment synchrosly.
- Pinch roll is hydraulic powered up/down with digital counter for showing pinch roll position.
- \bullet All rolls are made of top-grade alloy steel hardened up to ${\rm HRC55}^\circ$
- Rigid construction for precise and smooth operation, and long life time usage.
- The top roll can be swivelled out for easy removal of the finished workpiece.
- Removable foot control pedal for forward/reverse, fitted with a protective housing.

OPTIONAL ACCESSORIES:

- · Cone bending attachment.
- Section bending attachment with profile roller.



Electrical cabinet.
 Foot pedal with control buttons.



 Top roll swivel out mechanism.
 Pinch roll hydraulic powered.

3 Digital counter shows pinch roll position.

SPECIFICATIONS:

MODEL	MILD STEEL CAPACITY	ROLL LENGTH & DIAMETER	PINCH ADJUSTMENT	MOTOR (HP)	NET WEIGHT LBS.	PACKING SIZE
R-0440H	4'3" x 8GA	4 ³ /4"	STANDARD	2	2900	98" X 40" X 57"
R-0535H	5'1" x 10GA	4 ³ /4"	STANDARD	2	3100	106" X 40" X 57"
R-0625H	6'8" x 12GA	4 ³ /4"	STANDARD	2	3550	126" X 40" X 57"
R-0465H	4'3" x 1/4"	5 7/8"	STANDARD	3	3750	98"X 43"X 59"
R-0545H	5'1" x 7GA	5 ⁷ /8"	STANDARD	3	4200	106"X 43"X 59"
R-0640H	6'8" x 8GA	5 7/8"	STANDARD	3	4650	126"X 43"X 59"
R-0480H	4'3" x 5/16"	7"	STANDARD	5	4850	98"X 47"X 60"
R-0570H	5'1' x ⁹ / ₃₂ "	7"	STANDARD	5	5650	108"X 47"X 59"
R-0650H	6'8" x 6GA	7"	STANDARD	5	6160	128"X 47"X 60"
R-0830H	8' X 11GA	5 7/8"	STANDARD	3	5400	148" X 43" X 59"

REMARKS: BIGGER MODEL R-0840H AND R-1020 ARE AVAILABLE ON REQUEST.

• ALL SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

BIRMINGHAM BOX & PAN BRAKE



BOX & PAN

SPECIFICATION:

MODEL	BENDING LENGTH	CAPACITY MILD STEEL	BENDING ANGLE	Max. Box Depth (In.)	Finger Width (In.)	N.W./G.W. (LBS)	PACKING SIZE(INCH)
NU-4816-C	48"	16GA	0-135°	4"	2", 3", 4"	297/333	63x18x27
V-412-6C	48"	12GA	0-135°	4"	3", 4", 25"	1146/1279	69x30x36
V-612-6C	72"	12GA	0-135°	6"	3",4",5",6",11"	2525/2855	99x30x40
V-812-6C	96"	12GA	0-135°	6"	2.5",3",4",5",6",12"	2888/3263	118x30x40
V-1014-6C	120"	14GA	0-135°	6"	3",5",6",10",12"	3285/3726	138x30x40

BIRMINGHAM FOOT SHEAR & NOTCHER

MAIN FEATURES:

- * A fully casting structure.
- * With heavier weight, good stability.
- * With both front & back gauge.
- * Used for mild steel, aluminium copper, brass zinc plastic and leads.
- * High carbon and chrome steel blade.



SPECIFICATION:

MODEL	CUTTING LENGTH	CUTTING MILD STEEL	BACK GAUGE RANGE (In.)	N.W./G.W. (LBS)	PACKING SIZE(INCH)
O-3720-C	37"	20GA	0 to 27	805 / 905	55x30x45.3
O-5216-C	52"	16GA	0 to 32	1083 / 1202	66x30x45.3

O-5216-C FOOT SHEAR



SPECIFICATION:

	TION.			2 2			
MODEL	MAX. FORCE	CAPACITY MILD STEEL	NOTCHING SIZE	STROKE	TABLE SIZE	N.W./G.W. (LBS)	PACKING SIZE(INCH)
Y-16- C	4 TONS	16GA	6-1/4" x 6-1/4" x 90 Degree	3/4"	18"x12"	165/187	24x23x22

Y-16-C HAND NOTCHER WITH OPTIONAL STAND

SPECIFICATION: MODEL CAPACITY MILD STEEL THROAT DEPTH N.W./G.W. (LBS) PACKING SIZE(INCH) U-22-C 22GA 7" 49/53 20x18x6.3

Turning	Turning	Burring	Wiring	Ogee Bead	Crimping
F			D-J	B 2	



U-22-C ROTARY MACHINE

BIRMINGHAM SLIP ROLLS



SPECIFICATION:

MODEL	FORMING WIDTH	CAPACITY MILD STEEL	DIA.OF ROLL	3 WIRE GROOVES	MIN FORMING RADIUS	ROLL SPEED	MOTOR	N.W./G.W. (LBS)	PACKING SIZE(INCH)
X-2422-C	24"	22GA	1 1/2"	0.157",0.236", 5/16"	3/4"	s s	-	81/88	38 x 11 x 15
X-3622-C	36"	22GA	2"	0.157",0.236", 5/16"	1"	. 	E	176/216	53 x 13 x 20
X-5016-C	50"	16GA	3"	5/16",3/8", 1/2"	1 1/2"	. 	E	430/485	67 x 17x 22
X-4014E-C	40"	16GA	3"	5/16", 2/5", 0.55"	1 1/4"	23RPM	1HP	573/716	69 x 24 x 50
X-5016E-C	50"	14GA	2 3/8"	5/16",3/8", 1/2"	1 1/2"	18RPM	1HP	617/750	71 x 24 x 44

MAIN FEATURES:

- * All rolls are made of polished, turned and ground high grade carbon steel.
- * Gear-driven rolls.
- * Rigid construction for long life and precision operation.
- * Front mounted handle to lift upper roll for easy workpiece removal.
- * Standard three wire grooves.
- * Removable foot pedal control for POWER SLIP ROLL



3-IN-1 BIRMINGHAM SHEAR, BRAKE & ROLL



SPECIFICATION:	
Model:	SBR5216-C
Bed Width	52"
Max.shearing thickness	16GA
Max.bending thickness	16GA
Max.bending angel	90°
Max.rolling thickness	16GA
Min.rolling dia.	2 3/8"
Packing size	70" x 23 1/4" x36 2/3"
Net/Gross weight, LBS	1036/1168

SBR5216-C

MAIN FEATURES:

- * Removable male dies with female dies
- * Back gauge standard equipment
- *With two position handles
- * Shearing mild steel or equipment
- * Press brake-bends box & pan works
- * Sectional fingers allow box & pan works
- * Slip roll provided with forming grooves



SPECIFICATION:

Model:	SBR3020-C	SBR4020-C	
Bed Width	30"	40"	
Max.shearing thickness	20GA	20GA	
Max.bending thickness	20GA	20GA	
Max.bending angel	90°	90°	
Max.rolling thickness	20GA	20GA	
Min.rolling dia.	1.54"	1.70"	
Packing size	39 2/5" x 16" x 26"	54" x 17.72" x 28.40"	
Net/Gross weight, LBS	300 / 337	430 / 474	