



EMAIL QUOTATION
STOCK #UD100295

Machinery Solutions, Inc. is pleased to quote the following:

(1) WMW-HECKERT Model FW-450 x 1800 APUG Heavy-Duty Combination Horizontal/Vertical Knee-Type Production Milling Machine, S/N 326295/154 (2002)

Price \$ 24,500.00

Standard Features & Equipment:

- Horizontal 20 HP motor
- 18 spindle speeds
- 45 to 2240 RPM
- #50 taper
- Inch calibrations
- Flood coolant system
- (2) guide way covers, X-axis
- Horizontal arbor, 1-1/2" w/spacers
 - (2) arbor supports w/running bushings
- Electrical for 460v/3ph/60cy operation (24 volts at controls)
- Solid state pc logic
- Power drawbar w/safety innerlock on the horizontal spindle
- 15 HP vertical spindle motor
- 18 spindle speeds
- 28 to 1400 RPM
- Pendant with push button control of 3 axis
- Electromagnetic reversing clutch drives
- Feeds & rapid travel in 3 axis
- Emergency stop button
- Automatic hydraulic backlash eliminator
- Adjustable cam controls
- Hardened square ways (knee and column)
- Set wrenches and service tools
- Operator/service manuals
- Automatic work cycles (3-axis 2-axis consecutively)
 - Intermittent feed milling
 - Reciprocal milling
 - Longitudinal & cross frame milling
 - Longitudinal & vertical frame milling
 - Automatic rise and fall of knee by .028 to clear cutter in rapid travel

Specifications:

Working surface	18-1/4" x 71"
Number of t-slots	6
Width of t-slots	11/16"
Distance between t-slots	2-1/2"
Maximum weight of workpiece.....	3,300 Lbs

Travels

Longitudinal travel	52"
Cross travel	14"
Vertical travel	24-3/4"

Horizontal spindle:

Spindle drive	20 HP
Spindle taper	#50
Diameter of front bearing	4-5/16"
Number of spindle speeds	18
Range of spindle speeds	45 - 2240 RPM
Spindle center to table surface - maximum ..	26-3/4"
Spindle center to table surface - minimum ..	2"
Spindle center to overarm support.....	6-5/16"

Motorized vertical over arm:

Spindle drive	15 HP
Spindle taper.....	50
Diameter of front bearing	4-5/16"
Number of spindle speeds	18
Range of spindle speeds	28 to 1400 RPM
Spindle nose to table surface - maximum	32-7/8"
Spindle nose to table surface - minimum	8"
Spindle center to column ways - maximum	48"
Spindle center to column ways - minimum	14"

Feeds:

Feed drive	3 HP
Number of feeds	18
Range - longitudinal & cross - per min.63" - 31.5"
Range - vertical - per min.20" - 10"
Rapid travel - longitudinal & cross	124" Per min.
Rapid travel – vertical	40" Per min.

Coolant system:

Pump drive	1/8 HP
Delivery rate.....	2.6 Gal. Per min.
Sump capacity	12 Gallons

Electrical:

Connected load:	31.8 KVA
Amp load	100

Dimensions & weight:

Net weight 11,660 Lbs
Required floor space - W x D x H 154"W x 115"D x 100"H

Equipped with:

- 3-axis DRO system
- Power driven rotary table 315mm with ApAR-III drive unit to table
- Universal indexing attachment ApTZ-II
- Aluminum operator work platform around machine
- Tooling cabinet

Tooling:

- 8-1/2" Brown & Sharpe heavy duty vises (2 ea)
- #50 taper end mill holders - 3/16", 1/2", 5/8", 3/4", 1" (2 ea), 1-1/4" (2 ea)
- #50 taper shell mill holders – 3/4", 1" , 1-1/4", 1-1/2" (2 ea)
- #50 taper holder to #3MT
- #50 taper holder to #5MT
- #50 taper holder to #33JT with Jacobs 18N Drill chuck 1/8" – 3/4" capacity
- #50 taper arbor, 1-1/2" x 30"
- #50 taper arbor, 1" x 24"
- #50 taper arbor, 1" x 18" (2 ea)
- #50 taper holder and boring head #6830S
- #50 taper holder and Kennametal 6" face mill FPR66
- #50 taper with B & S #256 collect chuck (3 ea)
- B & S #21 collects for #256 collet chucks 1/8", 3/16", 1/4", 5/16", 3/8" (2 ea), 1/2" (4 ea), 9/16", 5/8" (4 ea) , 11/16", 7/8"

Terms: Net prior to shipment

FOB: Shipping Point

Delivery: Stock