LUCAS MACHINERY LTD.

NEW MACHINERY CATALOGUE 2004

PROKING LC SERIES LATHE

HEAVY DUTY SLANT AND FLAT BED CNC LATHES – UP TO 12,000mm

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SPECIALIST IN ENGINEERING AND SHEETMETAL MACHINERY

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ECOCA
Focus on every detail

CNC LATHES

ITEM		MT412	MT415	MT-308	MT-310	MT-312
SWING OVER BED	mm	720	720	600	600	600
OVER CROSS SLIDE	mm	500	500	400	400	400
MAX.TURNING DIA	mm	510	510	450	450	450
MAX. WORK LENGTH	mm	750/1000/1500/2000	720/970/1470/1970	500/700/1000/1500/2000	490/740/990/1490/1990	480/730/980/1480/1980
DRAW TUBE BORE	mm	91	117.5	52	78	91
CHUCK SIZE	inch	12″	15″	8″	10″	12″
SPINDLE DRIVE MOTOR (cont/30min)		15/18.5KW	18.5/22KW	9/11KW	11/15KW	15/18.5KW
SPINDLE SPEED RANGE	rpm	3400	2500	4900	4200	3400
SPINDLE NOSE	ASA	A2-8	A2-11	A2-6	A2-8	A2-8
THROUGH SPINDLE HOLE DIA	mm	100	131	62	90	100
FRONT BEARING DIA	mm	140	160	100	130	140
SPINDLE TAPER		Jan-20	Jan-20	1/20	1/20	1/20
Z AXIS TRAVEL	mm	770/1020/1520/2020	740/990/1490/1990	520/770/1020/1520/2020	510/760/1010/1510/2010	500/750/1000/1500/2000
X AXIS TRAVEL	mm	265	265	225	225	225
Z AXIS MOTOR		4.0KW/5.3HP	4.0KW/5.3HP	3.0KW/3.8HP	3.0KW/3.8HP	3.0KW/3.8HP
X AXIS MOTOR		3.0 KW/3.8HP	3.0KW/3.8HP	1.6KW/1.9HP	1.6KW/1.9HP	3.0KW/3.8HP
Z AXIS RAPID TRAVERSE	m/min	20	20	30/24 (L/H)	30/24 (L/H)	30/24 (L/H)
X AXIS RAPID TRAVERSE	m/min	24	24	30/24 (L/H)	30/24 (L/H)	30/24 (L/H)
GUIDEWAYS		HARD RAIL	HARD RAIL	LINEAR/HARD RAIL	LINEAR/HARD RAIL	LINEAR/HARD RAIL
NO.OF TOOL STATIONS		V12	V12	12/6+6	12/6+6	12/6+6
SIZE OF EXTERNAL TURNING TOOL	mm	25(opy:32)	25(opy:32)	25	25	25/32
BORING BAR DIA	mm	40/50	40/50	40	40	40
QUILL DIA	mm	100	100	90	90	90
QUILL TRAVEL	mm	120	120	120	120	120
TAILSTOCK TRAVEL	mm	600/850/1350/1850	600/850/1350/1850	510	510	510
QUIL TAPER		MT #5	MT #5	MT #5	MT #5	MT #5
ELECTRICAL POWER SUPPLY	KVA	40	40	30	32	40
COOLANT TANK CAPACITY	Liter	150	150	125	125	125
COOLANT FLOW	L/min	20	20	20	20	20
TOTAL HEIGHT	mm	2000	2000	1950	1950	1950
FLOOR SPACE LENGTH	mm	4300/4800/5310/5820	4300/4800/5310/5820	3900/4300/4700/5100/5550	3900/4300/4700/5100/5550	3900/4300/4700/5100/5550
WIDTH	mm	2000	2000	2100	2100	2100
NET WEIGHT	Kg	6400/7300/8500/9600	6400/7300/8500/9600	4000/5000/6000/7200/8300	4000/5000/6000/7200/8300	4000/5000/6000/7200/8300

ECOCA MT-415

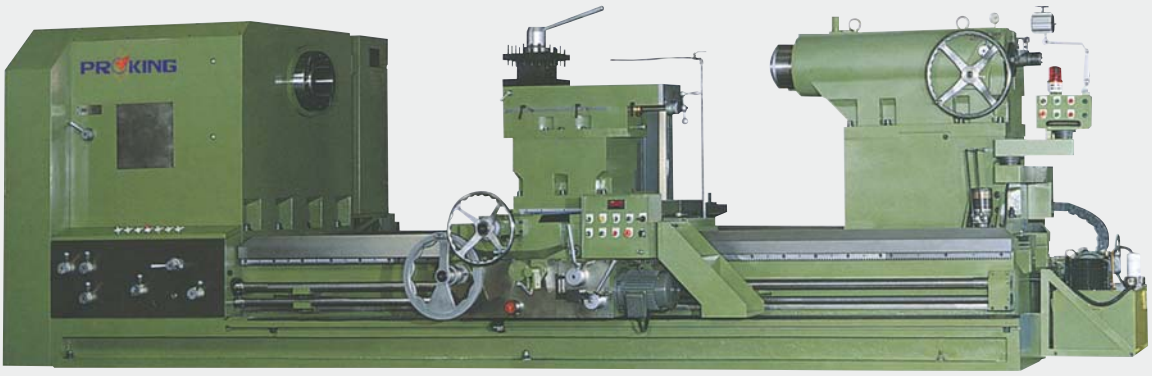
ECOCA EL-6115E

FEATURE	EL-6115E	EL-4610E
SWING OVER BED	610mm (24")	460mm (18.11")
SWING OVER CROSS SLIDE	400mm (15.75")	258mm (10.15")
GUARD		Full
CENTRE HEIGHT	300mm (11.81")	225mm (8.85")
DISTANCE BETWEEN CENTRES	1500mm (60")	1000mm (40")
WIDTH OF BED	400mm (15.75")	300mm (11.81")
SPINDLE DRIVE RATING	11kw/15kw (15HP/20HP)	5.5kw (7.5HP)/7.5kw (10HP)
SPINDLE SPEEDS	L:33 - 265rpm H: 250 - 2000 rpm (ASA D1-8) 250 - 1600rpm (ASA D1-11)	L: 95-350rpm M: 250-1000rpm D1-6 H: 690-3000rpm (D1-8 H: 690-2500)
SPINDLE NOSE	ASA D1-8 (std) ASA D1-11 (option)	ASA D1-6"/ASA D1-8"
SPINDLE BORE	82mm (std) 105 mm (option)	58mm (2.28")/78mm (3.07")
SPINDLE FRONT BEARING BORE	120mm (std) 140mm (option)	90mm (3.54")/ 100mm (3.93")
LONGITUDINAL WORKING STROKE	1470mm (60")	580mm (33.46")
TRANSVERSE WORKING STROKE		210mm (8.26")
CROSS SLIDE STROKE	290mm (11.42")	
FEED FORCE - LONGITUDINAL	6785 N (1524 lbf)	5000N (1110 lbf) Continuous
FEED FORCE - TRANSVERSE	3390 (762 lbf)	2400N (540 lbf)
CONTINUOUS RAPID TRAVERSE		5m/min (16ft/min) Max.
RAPID TRAVERSE	10 m/min max.	
RANGE OF FEEDS IN MANUAL MODE	0.01 to 500 mm/rev (0.0004 to 1968 in/rev)	0.01 to 500 mm/rev (0.0004" to 19.68"/rev)
TOPSLIDE TRAVEL		127mm (5")
TOPSIDE WIDTH	150mm (5.9")	110mm (4.33")
TAILSTOCK QUILL DIAMETER	90mm (3.54")	68mm (2-11/16")
TAILSTOCK QUILL STROKE	150mm (5.9")	127mm (5")
MORSE TAPER IN QUILL	MT5	
MORSE TAPER IN BARREL		MT 4

ECOCA EL-4610E

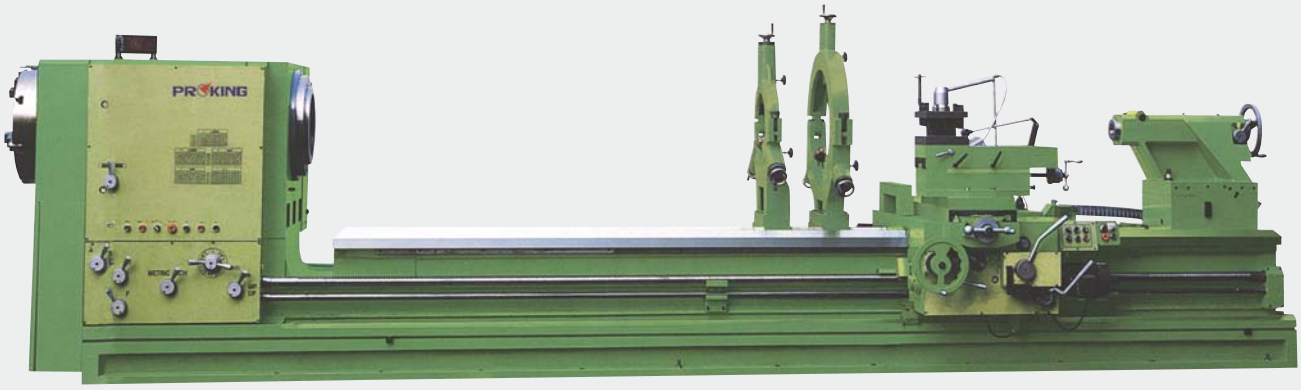
PROKING

HEAVY DUTY LATHES



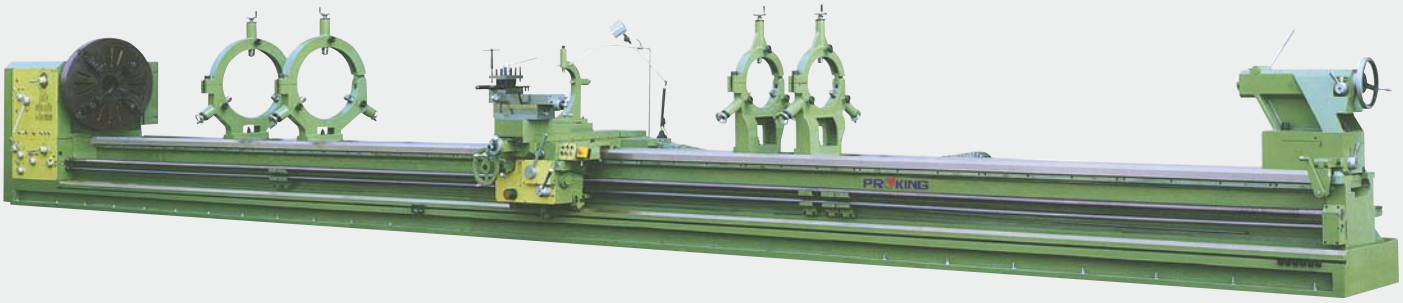
PROKING PK SERIES

- Swing over bed - 2,540mm (100")
- Swing over gap - N/A
- Distance between centers 1,500～1,200mm
- Spindle bore 9"～24"
- Spindle motor - 50HP
- 4-way track



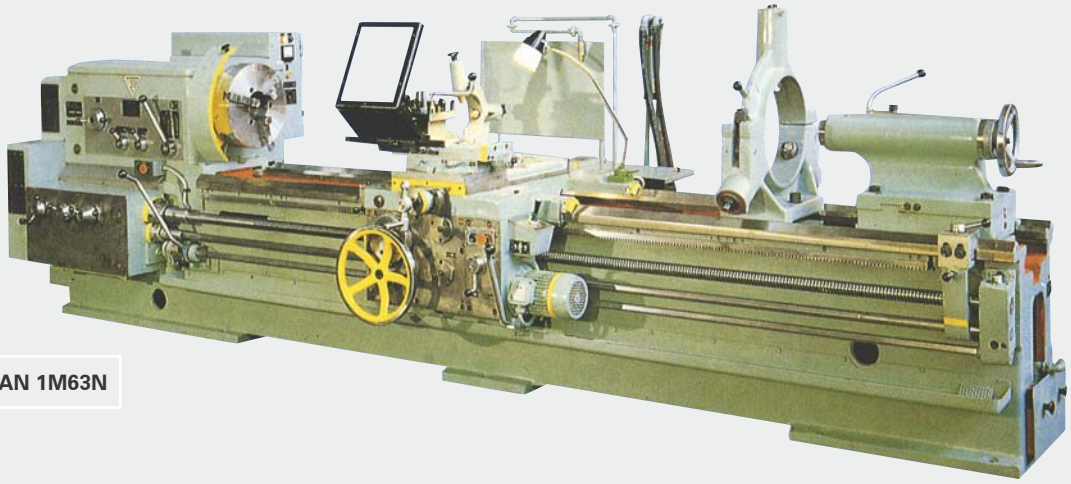
PROKING PB SERIES

- Swing over bed - 1,275mm (50")
- Swing over gap - 1,730mm (68")
- Distance between centers 1,500～1,2000mm
- Spindle bore 6"～24"
- Spindle motor - 30HP
- 2-way track



PROKING PA SERIES

- Swing over bed - 880mm (35")
- Swing over gap - 1,340mm (53")
- Distance between centers 1,500～1,2000mm
- Spindle bore 6"～14"
- Spindle motor - 20HP
- 2-way track



RYAZAN 1M63N

MACHINE MODEL	1M63N-1.5	1M63N-2*	1M63N-3	1M63N-5	1M63N-8*
BASIC SPECIFICATIONS					
Swing over the bed, mm	700	700	700	700	700
Swing over the carriage, mm	350	350	350	350	350
Maximum distance between centres, mm	1500	2000	3000	5000	8000
Diameter of spindle bore, mm	105	105	105	105	105
Maximum weight of worksplace held between centres, kg	2000	2000	2000	2000	2000
Range end of spindle, DIN	11M	11M	11M	11M	11M

WINHO 460x1000G

MACHINE CAPACITIES	460x 760G	460x 1000G	460x 1500G	460x 2000G	510x 1000GW	510x 1500GW	560x 1000G	560x 1500G	560x 2000G	660x 1000G	660x 1500G	660x 2000G
	(1830G)	(1840G)	(1860G)	(1880G)	(2040GW)	(2060GW)	(2240GW)	(2260GW)	(2280GW)	(2640GW)	(2660GW)	(2680GW)
SWING OVER BED	460mm (18")				510mm(11-1/2")		560mm (22")			660mm (26")		
SWING OVER CROSS SLIDE	258mm (10-1/5")				289mm (11-1/2")		339mm (13-1/2")			433mm(17")		
DISTANCE BETWEEN CENTERS	760mm (30")	1016mm (40")	1524mm (60")	2032mm (80")	1016mm (40")	1524mm (60")	1016mm (40")	1524mm (60")	2032mm (80")	1016mm (40")	1524mm (60")	2032mm (80")
SWING OVER GAP	670mm (26-3/8")				725mm (28-1/2")		785mm (31")			890mm (35")		
WIDTH OF BED	300mm (11-3/4")				350mm (13-3/4")				400mm (15-3/4")	350mm (13-3/4")		400mm (15-3/4")
SPINDLE NOSE	ASA D1-6 (or ASA A1-6)				ASA D1-8 (or ASA A1-8)							
SPINDLE BORE	58mm (2-9/32")				82mm (3-3/8")							
TAPER OF SPINDLE BORE	MT#6				MT#7							
RANGE OF SPINDLE SPEED	20-2000 rpm (12 changes)				15-1500 rpm (12 changes)							

MACRO MICRO TECH INC.

CNC MACHINING CENTERS

MACRO ACUMEN 500

MACRO ACUMEN 1500

MACRO ACUMEN 1000

MODEL		ACUMEN 500	ACUMEN 1000	HANDYMAN 1500
TRAVEL				
X x Y x Z Axis	mm	510x460x460	1016x640x640	1500x650x670
Spindle End to Table	mm	130-590	160-800	80-770
Spindle End to Column	mm	530	700	700
TABLE				
Table Size (X x Y)	mm	700x430	1260x560	1700x600
T-Slot (S x W x N)	mm	125x18x3	100x18x5	110x18x5
Max. Table Load	Kgs	350	800	1000
Table Height	mm	810	860	810
FEED RATE				
Rapid Traverse Rate (X,Y Axis)	mm/min	10000(20000)	1800(24000)	10000
Rapid Traverse Rate (Z Axis)	mm/min	1000(16000)	18000	10000
Cutting Feed Rate	mm/min	5000(10000)	5000(10000)	5000
SPINDLE				
Spindle Nose Taper	ISO	BT 40	BT 40	BT 40
Spindle Speed	RPM	8000	8000(10000)	6000 (8000)
MOTORS				
Spindle Motor	HP	10	10 (15)	10 (15)
Servo Motor (X x Y x Z)	W	AC 1K	AC 2K	AC 1K
ATC				
ATC Type		Armless	Arm/Armless	Armless
Tool Storage Capacity	pcs	16	24/20	16
Max. Tool Diameter	mm	80	100	80
Max. Tool Weight	Kgs	6	7	6
Max. Tool Length	mm	250	250	250
MACHINE ACCURACY				
Positioning	mm	± 0.005/Full S.	± 0.005/1000	±0.005/1000 mm
Repeatability	mm	± 0.003/400	± 0.003/1000	±0.003/1000 mm
OTHERS				
Air Requirement	Kg/cm2	7	7	7
Power Requirement	KVA	11	25	11
Machine Size (L x W x H)	mm	2200x2600x2150	2800x2850x2750	4000x2250x2700
Machine Weight	Kgs	4200	6000	5500
Machine Packing Size (L x W x H)	mm	2290x2280x2360	2250x3530x2750	4340x2450x2550
Machine Packing Weight	Kgs	4600	7200	6000

CNC MACHINING CENTERS

DAH LIH MCV-1250

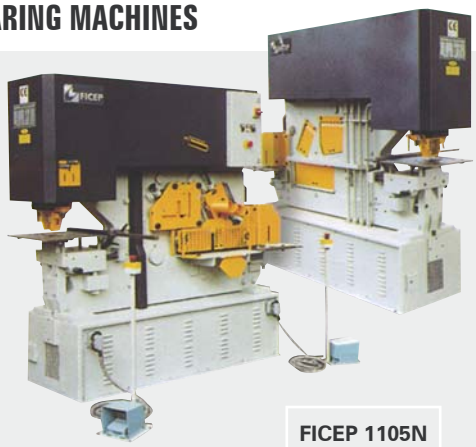
DAH LIH MCV-1450

DAH LIH MCV-1700

DAH LIH MCV-2100

MODEL		UNIT	MCV-1250	MCV-1450	MCV-1700	MCV-2100	MCV-2600
TABLE							
Working Surface		mm	1400 x 820	1600 x 800	1900 x 1010	2300 x 970	2800 x 970
		inch	55x 32.3	62.99 x 31.50	74.8 x 39.76	90.55 x 38.19	110.24 x 38.19
T-Slots (Size x Number)		mm	22 x 5	22 x 5	22 x 5	22 x 5	
		inch	0.86 x 5	0.86 x 5	0.86 x 5	0.87 x 5	
Max. Table Load		kg	1500	2000	2000	3000	
		lbs	3300	4400	4400	6600	
TRAVEL							
Longitudinal Travel (X)		mm	1250	1450	1700	2100	2600
		inch	49.2	57.09	66.92	82.68	102.36
Cross Travel (Y)		mm	650	750	800	870	
		inch	25.6	29.53	31.50	34.25	
Headstock Travel (Z)		mm	700	750	750	760	
		inch	27.6	29.53	29.53	29.92	
Distance Between Spindle End and Table Top		mm	200 - 900	200-950	200-950	200 - 960	
		inch	7.8 - 35.4	7.87-37.4	7.87-37.4	7.87 - 37.80	
Distance Between Spindle Centre and Column Surface		mm	710	850	850	850	
		inch	28	33.46	33.46	33.46	
SPINDLE							
Spindle Nose			N.T. 50	N.T. 50	N.T. 50	N.T. 50	
Spindle Speeds		rpm	45 - 4500	45 - 4500	45-4500	45-4500	
Spindle Speed Range			Two gears variable	Two gears variable	Two gears variable	Two gears variable	
FEED							
Cutting Feed		mm/min	10000	10000	10000	1000	
		inch/min	393.7	393.7	393.7	393	
Rapid Traverse		mm/min	20/20/12	20/20/12	15/15/8	10/10/8	
		inch/min	787/787/472	787/787/472	591/591/315	393/343/315	
Minimum Input Increment		mm	0.001	0.001	0.001	0.001	
		inch	0.0001	0.0001	0.0001	0.0001	
ATC (Automatic Tool Changer)							
Tool Holder			BT 50	BT 50	BT 50	BT 50	
Tool Storage Capacity		Tools	24	32	32	32	
Max. Tool Dia. X Length		mm	Ø 110x350	Ø 110x350	Ø 110x350	Ø 110x350	
		inch	Ø 4.3x13.8	Ø 4.3x13.8	Ø 4.3x13.8	Ø 4.3x13.8	
Max. Tool Weight		Kg	15	15	15	15	
		lbs	33	33	33	33	
Max. Tool Dia. Of adjacent pots are empty		mm	Ø 150	Ø 150	Ø 150	Ø 150	
		inch	Ø 5.90	Ø 5.90	Ø 5.90	Ø 5.90	
Tool Selection			Random	Random	Random	Random	
MOTORS							
Spindle Drive Motor	Continuous Rating	Kw	11	11	11	15	
		hp	15	15	15	20	
	(Rated output for 30 mins)	Kw	15	15	15	18.5	
		hp	20	20	20	25	
Drive Motors	X Axis	kw(HP)	3.8 (5HP)	3.8 (5HP)	3.3 (4.4HP)	3.3 (4.4HP)	
	Y Axis	kw(HP)	3.8 (5HP)	4.5 (6HP)	3.3 (4.4HP)	3.3 (4.4HP)	
	Z Axis	kw(HP)	3 (4HP)	3.3 (4.4HP)	3.3 (4.4HP)	3.3 (4.4HP)	
MACHINE WEIGHT SPACE AND PACKING							
Floor Space		mm	5006 x 4256	5330 x 4546	4650 x 4975	4895 x 7700	4895 x 8600
		inch	197.09 x 167.56	209.84 x 178.98	183 x 195.9	192.72x303.15	192.72x338.58
Net Weight		Kg	10500	14500	15500	18000	19000
		lbs	23100	33880	34100	39600	41800

HYDRAULIC PUNCHING AND SHEARING MACHINES



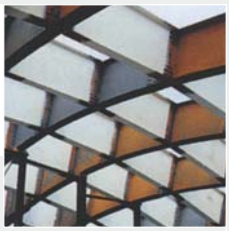
FICEP 1105N

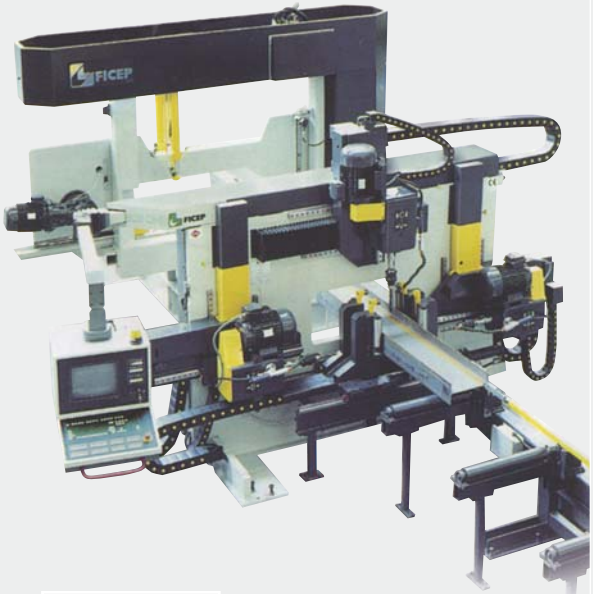
FICEP 801

FICEP 604N
+ coordinate table
Mod. K1D-1050

MODEL		404 N	604 N	805 N	1105 N	401	801
kN	kN	400	600	800	1100	400	800
Ø S	mm	32 x 10	32 x 16	32 x 20	32 x 26	32 x 10	32 x 20
A B S	mm	80x80x8	100x100x10	130x130x14	150x150x16		
● ■	mm	38/35	45/42	45/45	50/50		
A S	mm	350x12	350x16	450x15	510x16		
S	mm	10	13	13	13		

AUTOMATIC CNC DRILLING SYSTEM COMBINED WITH BAND SAW

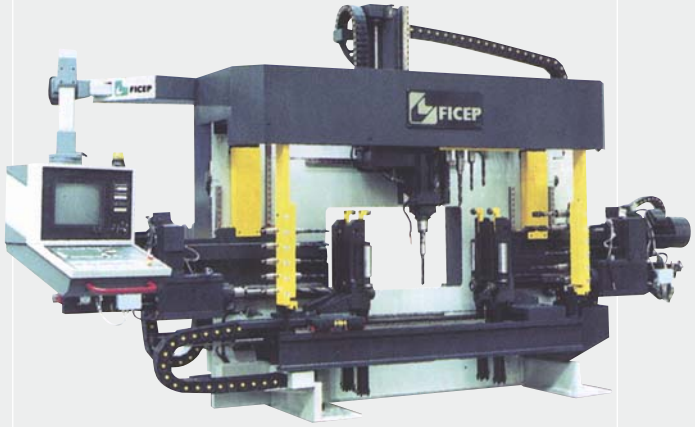




FICEP 603 DNB

AUTOMATIC CNC DRILLING AND MARKING SYSTEMS

FICEP 603 DZ



SUPERTEC G25PP-50H/CII

DESCRIPTION		UNIT	G15P-35M/CII	G20P-45M/CII	G25PP-50 H/CII
GENERAL CAPACITY	Distance Between Centres	mm(in)	350 (14")	450 (18")	500 (20")
	Swing Over Table	mm(in)	Ø 150 (Ø6")	Ø 200 (Ø8")	Ø 250 (Ø10")
	Max. Grinding Diameter	mm(in)	Ø 100 (Ø4")	Ø 200 (Ø8")	Ø 250 (Ø10")
	Max. Load Held Between Centres	kg(lb)	50 (110)	80 (176)	80 (176)
GRINDING WHEEL	Wheel Diameter (Dia. X Width x Bore)	mm(in)	Ø 300 x 25 x Ø 76 (Ø 12" x 1" x Ø 3")	Ø 355 x 38 x Ø 127 (Ø 14" x 1-1/2" x Ø 5")	Ø 355 x 38 x Ø 127 (Ø 14" x 1-1/2 x Ø 5")
	Wheel Speed (50/60Hz)	rpm	1620/1960	1620/1960	1620/1960
WHEELHEAD	Swivelling Angle (R&L)	deg.	FIXED	FIXED	±30°
	Infeed Travel	mm(in)	105 (4-1/5")	160 (6-1/3")	160 (6-1/3")
	Handfeed Travel	mm(in)	105 (4-1/5")	160 (6-1/3")	160 (6-1/3")
	Hydraulic Rapid Traverse	mm(in)	N/A	N/A	45 (1-3/4")
	Automatic Infeed Increment (C11 model)	mm(in)	Ø 0.001 - 99.999 (Ø 0.0001"-4")	Ø 0.001 - 99.999 (Ø 0.0001"-4")	Ø 0.001 - 9.999 (Ø 0.0001"-4")
	Handwheel Per Graduation	mm(in)	Ø 0.005 (Ø 0.0001")	Ø 0.005 (Ø 0.0001")	Ø 0.005 (Ø 0.0001")
	Handwheel Per Revolution	mm(in)	Ø 2 (Ø 0.1")	Ø 2 (Ø 0.01")	Ø 2 (Ø 0.01")
WORKHEAD	Swivelling Angle (R&L)	deg.	± 45°	± 45°	+ 30°/-90°
	Centre Taper	MT	MT 3	MT 3	MT 3
	Spindle Speed	rpm	150/264/356/480	150/264/356/480	150/264/356/480
	Spindle Type		Live and Dead	Live and Dead	Live and Dead
TAILSTOCK	Centre Taper	MT	MT 2	MT 3	MT 3
	Quill Travel	mm(in)	25 (1")	25 (1")	25 (1")
TABLE	Swivelling Angle (R&L)	deg.	+3°/-5°	+3°/-5°	+7°/-9°
	Traverse Speed	mm/min (in/min)	80/140/230 (3.0"/5.5"/9.0")	80/140/230 (3.0"/5.5"/9.0")	N/A
	Traverse Speed (Inf. Var. -Hydraulic)	mm/min (in/min)	N/A	N/A	50-1000 (2"-40")
	Handwheel Per Revolution	mm(in)	9 (0.35")	9 (0.35")	9.9 (0.39")
INTERNAL GRINDING	Spindle Speed	rpm	14000 (opt:25000)	14000 (opt:25000)	12000/18000 (opt:25000)
	Max. Grinding Bore	mm(in)	Ø 24-70 (Ø 0.95"-2.76")	Ø 24-70 (Ø 0.95"-2.76")	Ø 30-100 (Ø 1.18"-3.94") opt: Ø 20-50 (Ø 0.79"-1.97")
	Max. Grinding Length	mm(in)	70 (2.76")	70 (2.76")	110 (4.33") opt: 55 (2.17")
	Max. Chucking Length	mm(in)	275 (10-3/4")	275 (10-3/4")	315 (12-2/5")
	Max. Chucking Diameter	mm(in)	Ø 110 (Ø 4-1/3")	Ø 110 (Ø 4-1/3")	Ø 150 (Ø 6")
MOTOR	Wheel Spindle Motor	HP	2 (4P)	3 (4P)	5 (4P)
	Workhead Motor	HP	1/4 (4P)	1/4 (4P)	1/2 (4P)
	Hydraulic Pump	HP	N/A	N/A	1 (4P)
	Coolant Motor	HP	1/8 (4P)	1/8 (4P)	1/8 (4P)
	Internal Grinding Motor	HP	1/2 (4P)	1/2 (4P)	2 (2P)
MACHINE	Net Weight (Approx)	kg(lb)	1100 (2420)	1550 (3410)	2050 (4510)
	Gross Weight (Approx)	kg(lb)	1400 (2970)	2050 (4510)	2550 (5610)
	Packing Dimension (L x W x H)	mm(in)	1600 x 1150 x 1850 (63" x 45" x 73")	2150 x 1450 x 1850 (85" x 57" x 73")	2550 x 1650 x 1900 (89" x 65" x 75")

SURFACE GRINDERS

PERFECT 5020 PFG-AHR

SPECIFICATIONS	PFG-2550M	PFG-2550M	PFG-2550H	PFG-2550AH	PFG-3060AH	PFG-4080AH	5010 PFG-AHR 6010	5015 PFG-AHR 6015	5020 PFG-AHR 6020
WORKING SURFACE OF TABLE	160x410 (61/4"x16")	250x500 (10"x20")		250x500 (10"x20")	300x600 (12"x24")	500x1050 (20"x41")	500x1050 (20"x41") 600x1050 (24"x41")	500x1550 (20"x61") 600x1550 (24"x61")	500x2050 (20"x81") 600x2050 (24"x81")
MAX. TABLE TRAVEL	200x430 (8"x17")	270x550 (10 3/4"x22")		270x550 (10 3/4"x22")	340x670 (13"x27")	450x860 (16"x34")	560x1150 (22"x45") 660x1150 (26"x45")	560x1650 (22"x45") 660x1650 (26"x65")	560x2150 (22"x85") 660x2150 (26"x85")
MAX. SURFACE GROUND	185x410 (71/4"x16")	250x505 (10"x20")		250x500 (10"x20")	300x600 (12"x24")	400x800 (16"x32")	500x1050 (20"x41") 600x1050 (24"x41")	500x1550 (20"x61") 600x1550 (24"x61")	500x2050 (20"x81") 600x2050 (24"x81")
MAX. DISTANCE CENTRE OF SPINDLE TO TABLE	460 (18")	490 (19 1/2")		490 (19 1/2")	500 (20")	550 (22")	760 (30")	760 (30")	760 (30")
TABLE SPEED			5-25 m/min (200"-1000"/min)	5-25 M/min (200"-1000"/min)					
TABLE GUIDEWAY	Ball rolling way		V and flat way	V and flat way (-V,-)					
AUTO CROSS FEED INCREMENT				0.1-1-10mm (0.004"-0.4")					
POWER CROSS FEED				900 mm/min (35-4"/min)					
CROSS FEED ON HAND WHEEL 1 REV. 1 GRA.	4.0 (0.02") 0.02 (0.001")			4.0 (0.2") 0.02 (0.001")		5.0 (0.2") 0.02 (0.001")			
RAPID POWER HEAD ELEVATION 60HZ				Optional			572mm/min (p"/min)		
AUTO. DOWN FEED				Optional					
VERTICAL DOWN FEED ON HAND WHEEL 1 REV. 1 GRA.	2.0 (0.1") 0.01 (0.005")			2.0 (0.1") 0.01 (0.005")			0.2 (0.008") 0.001 (0.00005")		
WHEEL SPEED 60HZ (50HZ)	3500 RPM (3000 RPM)			3500 RPM (3000 RPM)	1740 RPM (1500 RPM)				
WHEEL DIMENSION	180x13x31.75 (7"x1/2"x1 1/4")			180x13x31.75 (7"x1/2"x1 1/4")	355x38x127 (14"x1 1/2"x5")	355x50.8x127 (14"x2"x5")			
SPINDLE MOTOR	2 HP			2 HP	5 HP	5 HP (7 1/2, 10 HP)	10 HP		
HYDRAULIC PUMP MOTOR			1 HP	1 HP		2 HP	3 HP	5 HP	
AUTO. CROSS FEED MOTOR				1/5 HP					
RAPID HEAD ELEVATION MOTOR				Optional			1/4 HP		
COOLANT PUMP	1/8 HP			1/8 HP					
DUST SUCTION MOTOR	1/2 HP			1/2 HP					
MACHINE NET WEIGHT	630 Kg (1386 Lbs)	1200 Kg (2640 Lbs)	1300 Kg (2860 Lbs)	1350 Kg (2970 Lbs)	1700 Kg (3740 Lbs)	2300Kg (5060 Lbs)	6000Kg (13200 Lbs) 6500 Kg (14300 Lbs)	7500 Kg (16500 Lbs) 6500 Kg (17600 Lbs)	9000Kg (19800 Lbs) 9500 Kg (20900 Lbs)
GROSS WEIGHT	730 Kg (1606 Lbs)	1400 Kg (3080 Lbs)	1500 Kg (3300 Lbs)	1550 Kg (3410 Lbs)	1950 Kg (4290 Lbs)	2700 Kg (5940 Lbs)	6200 Kg (13640 Lbs) 6700 Kg (14740 Lbs)	8500 Kg (18700 Lbs) 9000Kg (19800 Lbs)	9500 Kg (20900 Lbs) 10000 Kg (22000 Lbs)
FLOOR SPACE	1610x1120 (63"x44")	1920x1210 (75 1/2"x47 1/2")	2160x1400 (84"x55")	2150x1400 (84"x55")	2550x1600 (100"x63")	2980x1950 (117"x77")	4700x2200x2800 (185"x86 1/2"x110")	5000x2200x2800 (197"x86 1/2"x110")	6300x2200x2800 (244"x86 1/2"x110")
PACKING DIMENSION	1480x1155x1850 (58.5"x45"x73")	1820x1550x2040 (72"x61"x80")	1820x1550x2040 (72"x61"x80")	1880x1550x2000 (74"x61"x79")	2300x1790x2060 (90.5"x70.5"x81")	2280x2280x2150 (90"x90"x84.5")	3640x2280x2580 (143.5"x90"x101.6")	3760x2280x2580 (148"x90"x101.6")	4760x2280x2580 (187"x90"x101.6")

SCALEN FX37200

MODEL	CAPACITY (Tonnes)	BED LENGTH (mm)	CLEAR PASS (mm)	TABLE HEIGHT (mm)	STROKE (mm)	OPEN (mm)	THROAT (mm)	POWER (KW)
FX3190	90	3100	2500	980	200	385	300	7.5
FX3790	90	3700	3100	980	200	385	300	7.5
FX4390	90	4300	3700	980	200	385	300	7.5
FX31120	120	3100	2500	980	200	385	300	10
FX37120	120	3700	3100	980	200	385	300	10
FX43120	120	4300	3700	980	200	385	300	10
FX51120	120	5100	4500	980	200	385	300	10
FX61120	120	6100	5500	980	200	385	300	10
FX31150	150	3100	2500	980	200	385	300	15
FX37150	150	3700	3100	980	200	385	300	15
FX43150	150	4300	3700	980	200	385	300	15
FX51150	150	5100	4500	980	200	385	300	15
FX61150	150	6100	5500	980	200	385	300	15
FX71150	150	7100	5800	980	200	385	300	15
FX81150	150	8100	6500	980	200	385	300	15
FX31200	200	3100	2500	980	200	385	300	18.5
FX37200	200	3700	3100	980	250	460	300	18.5
FX43200	200	4300	3700	980	250	460	300	18.5
FX51200	200	5100	4500	980	250	460	300	18.5
FX61200	200	6100	5500	980	250	460	300	18.5
FX71200	200	7100	5800	980	250	460	300	18.5
FX81200	200	8100	6500	980	250	460	300	18.5
FX91200	200	9100	7500	980	250	460	300	18.5
FX37300	300	3700	3100	980	250	500	300	22
FX43300	300	4300	3700	980	250	500	300	22
FX51300	300	5100	4500	980	250	500	300	22
FX61300	300	6100	5500	980	250	500	300	22
FX71300	300	7100	5800	980	250	500	300	22
FX81300	300	8100	6500	980	250	500	300	22
FX91300	300	9100	7500	980	250	500	300	22
FX43400	400	4300	3700	980	250	500	300	30
FX51400	400	5100	4500	980	250	500	300	30
FX61400	400	6100	5500	980	250	500	300	30
FX71400	400	7100	5800	980	250	500	300	30
FX81400	400	8100	6500	980	250	500	300	30
FX91400	400	9100	7500	980	300	500	300	30
FX45500	500	4500	3600	980	300	520	300	37
FX53500	500	5300	4400	980	300	520	300	37
FX61500	500	6100	4800	980	300	520	300	37
FX71500	500	7100	5800	980	300	520	300	37
FX81500	500	8100	6500	980	300	520	300	37
FX91500	500	9100	7500	980	300	520	300	37
FX45700	700	4500	3500	980	400	600	350	45
FX53700	700	5300	4300	980	400	600	350	45
FX61700	700	6100	4800	980	400	600	350	45
FX71700	700	7100	5800	980	400	600	350	45
FX81700	700	8100	6500	980	400	600	350	45
FX91700	700	9100	7500	980	400	600	350	45
FX451000	1000	4500	3500	980	400	600	350	65
FX531000	1000	5300	4300	980	400	600	350	65
FX611000	1000	6100	4800	980	400	600	350	65
FX711000	1000	7100	5800	980	400	600	350	65
FX811000	1000	8100	6500	980	400	600	350	65
FX911000	1000	9100	7500	980	400	600	350	65

SPECIFICATION	
TONNAGE	25T
STROKE	250mm
TABLE WIDTH	600mm
TABLE HEIGHT	960mm
MOTOR	3kw
WEIGHT	480kg

FEATURES

Bosch hydraulic pump and valve
Proportional ram positioning
Prescision guideways
Precision bolster with key
Manual stroke adjustment
Hi-tensile tooling pin
Tooling - 150mm high x 90mm vee
Optional CNC Control
Special Tooling Upon Request

SCALEN HP25025

GUILLOTINES

CHINA WUXI RUNYUAN HSC 630

MODEL	SHEAR SIZE (TxW) (mm)	SHEAR ANGLE	NO LOAD STROKES	ADJUSTMENT RANGE OF BACKGAUGE (mm)	MAIN MOTOR power (KW)	NET WEIGHT (kg)	DIMENSION (mm) LxWxH
QC12K-6x2500	6x2500	1°30′	18	20-600	7.5	6000	3040x1610x1620
QC12K-6x3200	6x3200	1°30′	14	20-600	7.5	7200	3840x1610x1620
QC12K-6x4000	6x4000	1°30′	10	20-600	7.5	10000	4640x1705x1700
QC12K-8x2500	8x2500	1°30′	14	20-600	11	6500	3240x1610x1620
QC12K-8x3200	8x3200	1°30′	10	20-600	11	7800	4010x1610x1620
QC12K-8x4000	8x4000	1°30′	8	20-600	11	11000	4680x1705x1700
QC12K-10x2500	10x2500	1°48′	12	20-600	15	8000	3350x2050x1950
QC12K-10x3200	10x3200	1°48′	10	20-600	15	10000	4050x2050x1950
QC12K-12x2500	12x2500	1°30′	12	10-800	18.5	11000	3320x2050x2230
QC12K-12x3200	12x3200	1°30′	10	10-800	18.5	12500	4020x2050x2230
QC12K-12x4000	12x4000	2°	8	10-800	18.5	16000	4850x2400x2200
QC12K-16x2500	16x2500	2°30′	7	10-800	18.5	15000	3520x2060x2350
QC12K-16x3200	16x3200	2°30′	7	10-800	22	16000	4100x2060x2010
QC12K-16x4000	16x4000	2°	6	10-800	30	23000	4900x2400x2250
QC12K-20x2500	20x2500	2°	8	10-800	37	16000	3440x2088x2570
QC12K-20x3200	20x3200	2°	5	10-800	37	25000	4100x2350x2710
QC12K-20x4000	20x4000	2°30′	4	10-800	37	30000	4850x2400x2200

MANUAL SWIVEL HEAD BANDSAWS		
MODEL	CAPACITY	MODE
PK 270 MM	W 270 H 215	Manual Mitre 60
PK 270 MG	W 270 H 215	Manual Mitre 60 Gravity Feed
PK 270 DM	W 270 H 215	Manual D Mitre Air Clamp
PK 370 MG	W 370 H 260	Manual Mitre 60 Gravity Feed
SEMI AUTOMATIC SWIVEL HEAD BANDSAWS		
MODEL	CAPACITY	MODE
PK 270 DMS	W 270 H 215	Semi Auto D Mitre Air Clamp
PK 370 SAM	W 370 H 260	Semi Auto Mitre 60
PK 410 SAM	W 410 H 280	Semi Auto Mitre Hyd Vice
PK 460 SAM	W 460 H 330	Semi Auto Mitre Hyd Vice
PK 370 DM	W 370 H 260	Semi Auto D Mitre 60
PK 540 DM	W 540 H 360	Semi Auto D Mitre 60 Hyd Vice
PK 700 DM	W 700 H 500	Semi Auto D Mitre 60 Hyd Vice
PK 850 SAM	W 850 H 600	Semi Auto Mitre Hyd Vice
PK 1000 DM	W 1000 H 650	Semi Auto D Mitre Hyd Vice
FULLY AUTOMATIC MITRE CUTTING BANDSAWS		
MODEL	CAPACITY	MODE
PK 370 HFAM	W 370 H 260	Auto Hitch Feed Mitre 60
PK 370 HFAM (NC)	W 370 H 260	Auto Hitch Feed Mitre 60
PK 540 HFAM	W 540 H 330	Auto Hitch Feed Mitre
FULLY AUTOMATIC BANDSAWS		
MODEL	CAPACITY	MODE
PK 260 HFA	W 370 H 260	Auto Hitch Feed
PK 260 HFA (NC)	W 370 H 260	Auto Hitch Feed
PK 330 HFA	W 450 H 330	Auto Hitch Feed
FULLY AUTOMATIC TWIN COLUMN BANDSAWS		
MODEL	CAPACITY	MODE
PK 280 HFA	W 280 H 260	Twin Col Auto Hitch Feed
PK 325 HFA	W 370 H 325	Twin Col Auto Hitch Feed
PK 360 HFA	W 360 H 360	Twin Col Auto Hitch Feed
PK 420 HFA	W 420 H 420	Twin Col Auto Hitch Feed
PK 460 HFA	W 460 H 460	Twin Col Auto Hitch Feed
PK 600 HFA	W 600 H 600	Twin Col Auto Hitch Feed

PK 325 HFA TECHNICAL DATA			
CUTTING CAPACITY	Height 325 mm	Width 370 mm	
BLADE SIZE	4430 mm x 34 mm		
BLADE SPEED	22 - 100 m.p.m. Variable		
MAIN MOTOR	4 kw		
WEIGHT	2400 kgs		
DIMENSIONS	Length 2450 mm	Width 1520 mm	Height 1800 mm

PK 370 HFAM NC TECHNICAL DATA			
CUTTING CAPACITY	90°	45°	60°
HEIGHT	260 mm	200 mm	200 mm
WIDTH	370 mm	200 mm	130 mm
BLADE SIZE	3100 mm x 27 mm x 0.9		
BLADE SPEED	20-100 m.p.m. variable		
MAIN MOTOR	1.5 kw		
WEIGHT	850 kgs		
DIMENSIONS	length 3110 mm	width 1600 mm	height 1320 mm

PARKANSON PK 325 HFA

KEY FEATURES

- Fully Automatic Dual Hitch Feed System
- The Material is Supported by an Independent Roller Feed Bed
- Full Stroke Hydraulic Vice Clamps
- P.L.C. or N.C. Control with Full Diagnostics
- Hydraulic Blade Tension
- 34 mm Wide Bi-Metal Blade
- Variable Blade Speed Control
- Multiple Bar Clamps or Hydraulic Pack Clamps
- Full Height (320 mm) Vice Jaws
- Split Front Vice Clamping
- Automatic Adjustment of Moveable Blade Guide Arm
- Hydraulic Feed Pressure Cutting System
- Vice Pressure Regulation

PARKANSON PK 370 HFAM

KEY FEATURES

- Fully automatic dual vice hitch feed machines
- Swivel head for mitre cutting to 60°
- Hydraulic vice clamping
- Hydraulic feed pressure system
- 850 mm single feed stroke or 7650 mm maximum feed stroke
- Top hydraulic clamp for bundle cutting
- Variable blade speed control
- C.N.C. control system
- Automatic swarf conveyor

IMCAR CPHV-100

IMCAR TSIH 2000 x 3

TYPE	USEFUL LENGTH mm.	THICKNESS PINCH mm.	Ø MINIMUM PRE-BEND mm.	WEIGHT kg.	LENGTH mm.	WIDTH mm.	HEIGHT mm.	Ø ROLLS mm.	POWER KW	BENDING SPEED m.x1′	PINCH SPEED mm.x1′
3/1	1050	6	190	1000	2150	900	1050	135	2,7	4,5	600
3/2	1550	5	190	1200	2650	900	1050	135	2,7	4,5	600
3/3	2050	3	190	1400	3150	900	1050	135	2,7	4,5	600
3/4	2550	2,5	190	1600	3650	900	1050	135	2,7	4,5	600
3/5	3100	1,5	190	1800	4200	900	1050	135	2,7	4,5	600

IMCAR SIHR 3100 x 10

MODEL	USEFUL LENGTH	PREBENDING CAPACITY Ø Top roll 1,4x Thickness mm.	3x	5x	ROLLS DIAMETER top roll mm.	bottom rolls mm.	POWER KW	DIMENSIONS L x W x H	WEIGHT tons	ROTATION SPEED m. x 1′	PINCH SPEED mm. X 1′
6/3	2050	6	8	9	200	180	5,5	3100 x 1100 x 1200	3,6	5,2	460
8/3	2050	8	11	12	220	190	5,5	3100 x 1100 x 1200	3,9	5,6	460
10/3	2050	10	13	14	250	230	7,5	3250 x 1220 x 1320	5	5,5	500
12/3	2050	12	16	18	280	260	11	4100 x 1300 x 1515	7,6	4,8	550
15/3	2050	15	20	21	300	280	11	4100 x 1300 x 1515	8	5,4	550
17/3	2050	17	22	24	330	310	15	4200 x 1400 x 1620	9,7	5	400
6/4	2550	5	7	8	200	180	5,5	3600 x 1100 x 1200	4,0	5,2	460
8/4	2550	6	8	9	220	190	5,5	3600 x 1100 x 1200	4,5	5,6	460
10/4	2550	8	11	12	250	230	7,5	3750 x 1220 x 1320	5,5	5,5	500
12/4	2550	10	13	14	280	260	11	4600 x 1300 x 1515	8,4	4,8	550
15/4	2550	12	16	18	300	280	11	4600 x 1300 x 1515	9,0	5,4	550
17/4	2550	15	20	21	330	310	15	4700 x 1400 x 1620	10,8	5	400
6/5	3100	4	5	6	200	180	5,5	4150 x 1100 x 1200	4,5	5,2	460
8/5	3100	5	7	8	220	190	5,5	4150 x 1100 x 1200	4,8	5,6	460
10/5	3100	6	8	9	250	230	7,5	4300 x 1220 x 1320	6	5,5	500
12/5	3100	8	11	12	280	260	11	5150 x 1300 x 1515	9,2	4,8	550
15/5	3100	10	13	14	300	280	11	5150 x 1300 x 1515	9,8	5,4	550
17/5	3100	12	16	18	330	310	15	5250 x 1400 x 1620	11,9	5	400
6/7	4050	2	3	4	200	180	5,5	5600 x 1100 x 1200	5,4	5,2	460
8/7	4050	3	4	5	220	190	5,5	5600 x 1100 x 1200	5,7	5,6	460
10/7	4050	4	5	6	250	230	7,5	5750 x 1220 x 1320	7	5,5	500
12/7	4050	5	7	8	280	260	11	6100 x 1300 x 1515	10,8	4,8	550
15/7	4050	6	8	9	300	280	11	6100 x 1300 x 1515	11,6	5,4	550
17/7	4050	8	11	12	330	310	15	6200 x 1400 x 1620	14,1	5	400

JY-2VH
VERTICAL & HORIZONTAL MILLING MACHINE

- Table area 1300 x 300mm
- X-axis travel 1000mm
- Y-axis travel 360mm
- Z-axis travel 450mm
- Spindle taper NST#40

JY-2T
VERTICAL TURRET MILLING MACHINE

- Vertical turret head configuration
- Table area 1300 x 300mm
- X-axis travel 1000mm
- Y-axis travel 360mm
- Z-axis travel 450mm
- 16 step speeds, 75-3600 RPM (standard),
- Variable speed 80-3800 RPM (optional)
- Spindle taper NST#40

JY-2HT
HORIZONTAL VERTICAL TURRET MILLING MACHINE

- Horizontal and turret head configuration
- Table area 1300 x 300mm
- X-axis travel 1000mm
- Y-axis travel 360mm
- Z-axis travel 450mm
- 16 step speeds, 75-3600 RPM (standard), Variable speed 80-3800 RPM (optional)
- Spindle taper NST#40

SPECIFICATIONS	PK-FV2	PK-GRSM-V2
TABLE	1372 x 254 mm	
TRAVEL		
Longitudinal Travel	900 mm	
Cross Travel	380 mm	
Vertical Travel	380 mm	
Spindle Travel	127 mm	
SPINDLE		
Spindle Taper	NT 40#	
Spindle Speed	70 - 4200 RPM	
Spindle Speed - Step Pulley		80, 135, 210, 325, 660, 1115, 1750, 2720 RPM
Spindle Speed - Variable Speed		75 - 3800 RPM
Quill Feeds Per Rev. of Spindle	0.04 - 0.08 - 0.15 mm	0.04 - 0.08 - 0.15 mm
Motor	3.7KW 3PH	
Inverter	3.7KW 3PH	
SWIVEL ANGEL TO EACH SIDE		
Right & Left	90°	
Front & Back	45°	
APPROXIMATE NET WEIGHT	1450 Kgs	

PINNACLE PK-GRSM-V2

FEMCO HORIZONTAL BORER

FEMCO BMC 110R2

FEATURE	SPECIFICATION
TRAVEL	
Table Cross Travel (X)	78.74"(2000mm)
Headstock Travel (Y)	70.87"(1800mm)
Table Longitudinal Travel (Z)	66.93"(1700mm)
TABLE	
Size	56.69" x 62.99"(1440mm x 1600mm)
Load	13889bs(6300kg)
SPINDLE	
Stroke (W)	21.65"(550mm)
Diameter	Ø4.33"(110mm)
Taper	ISO No. 50 w/ power operated drawbar
Toolshank	BT50, CT50 option
Pull Stud	MASII 60 deg(MASI option)
Milling Spindle Diameter	8.86"(225mm)
Motor	29/35hp(AC 22/26kW)
Low Speed Range	5-626rpm Stepless
High Speed Range	626-2500rpm Stepless
AUTOMATIC TOOL CHANGER (ATC)	
Tool Storage Capacity	32, 60, 90 tools
Maximum Tool Weight	33lbs(15kg), 55lbs(25kg), 55lbs(25kg)
Maximum Tool Diameter (Adjacent Pods Full)	Ø4.72"(120mm)
Maximum Tool Diameter (Adjacent Pods Empty)	Ø9.84"(250mm)
Maximum Tool Length	15.75"(400mm)
Tool to Tool Exchanging Time	15 seconds
Tool Selection Method	automatic selection of shortest route

FEATURE	SPECIFICATION
POSITIONING SERVO MOTOR	
X-Axis	4.4hp(AC 3.3kW)
Y-Axis	4.4hp(AC 3.3kW)
Z-Axis	4.4hp(AC 3.3kW)
W-Axis	5.1hp(AC 3.8kW)
B-Axis	5.1hp(AC 3.8kW)
CONTROL	
Positioning Accuracy X, Y, Z, and W-Axes	0.001"/11.81"(0.025/300mm)
Repeatability X, Y, Z, and W-Axes	±0.0004"(±0.01mm)
Control Axes	5
Simultaneous Control Axes	4
RAPID TRAVERSE RATE	
X, Y, Z Axes	393.7"/min(10m/min)
W-Axis	157.48"/min(4m/min)
FEED IN ALL AXES	0.2-157.48"(5-4000mm) /min stepless
ROTARY TABLE ROTATION	0.95rpm
MACHINE WEIGHT	41888lbs(19000kg)
MACHINE DIMENSIONS	
LxW	257.13" x 215.91"(6531mm x 5484mm)
Machine Height	146.46"(3720mm)
Floor Space	308.27" x 244.09"(7830mm x 6200mm)
POWER REQUIREMENTS	220 Volts 3 Phase 60 cycle, 100Amps 440 Volt Transformer on Request

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