

Pathfinder Advanced Cutting Technology

M-Series





Pathfinder made in Australia, sold throughout the world











Introducing the World's most Productive, Reliable and Economical Cutting Machine

"Design and manufacture the world's best automatic knife cutting technology" is the one area of focus that defines everything we do at Pathfinder.

As a smaller more innovative organisation, Pathfinders ability to design solutions around Customer specific applications has resulted in the widest range of productivity enhancing options available in the market place.

Pathfinder's value proposition is simple "Design & build the best cutting room technologies, using the highest quality materials, processes and people.

Pathfinder partners with
Customers and their applications to
provide cutting room solutions that are
highly productive and reliable.
Importantly Pathfinder machines
feature low running costs, minimal
maintenance requirements and a long
production life.

Customers are provided with a true lowest cost of ownership proposition.









OFP



















OFD Offload Display

Offload Printer

MKR Marking Tool

ABR Airbrush

BCR Barcode Scanner

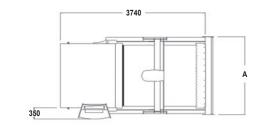
IJP Inkjet Printing

PM
Pattern Match Software

HDC Head Camera

MTS
Machine Transfer System

Technical Specifications



		M3-180	M3-220	M3-390	M5-180	M5-220	M5-390	M7-180	M7-220	M7-390
Characteristics										
Max Cutting Width	(mm/inch)	1800 / 71	2260 / 89	3900 / 153	1800 / 71	2260 / 89	3900 / 153	1800 / 71	2260 / 89	3900 / 153
Cutting Height - max. (Compressed)	(mm/inch)	30 / 1.2	30 / 1.2	30 / 1.2	50 / 2	50 / 2	50 / 2	70 / 2.8	70 / 2.8	70 / 2.8
Spread Height - max.	(mm/inch)	100 / 3.9	100 / 3.9	100 / 3.9	120 / 4.7	120 / 4.7	120 / 4.7	140 / 5.5	140 / 5.5	140 / 5.5
Cutting Speed - max. (Per Minute)	(m/inch)	48 / 1888	48 / 1888	48 / 1888	48 / 1888	48 / 1888	48 / 1888	48 / 1888	48 / 1888	48 / 1888
Acceleration - max.	(mps²/g)	5 / 0.51	5 / 0.51	5 / 0.51	5 / 0.51	5 / 0.51	5 / 0.51	5 / 0.51	5 / 0.51	5 / 0.51
Width 'A'	(mm/inch)	2350 / 92.5	2800 / 110	4440 / 175	2350 / 92.5	2800 / 110	4440 / 175	2350 / 92.5	2800 / 110	4440 / 175
Working Height	(mm/inch)	825-925 / 33-37	825-925 / 33-37	825-925 / 33-37	825-925 / 33-37	825-925 / 33-37	825-925 / 33-37	825-925 / 33-37	825-925 / 33-37	825-925 / 33-37
Weight	(Kg/Lb)	1500 / 3300	1700 / 3700	2600 / 5700	1500 / 3300	1700 / 3700	2600 / 5700	1500 / 3300	1700 / 3700	2600 / 5700

Supply										
Electrical- (1 x 3 PH, 50/60Hz, 380V-440V)	(KW/Hp)	15 / 20	15 / 20	22 / 30	15 / 20	15 / 20	22 / 30	15 / 20	15 / 20	22 / 30
Compressed Air (6CFM, 170ltrs/min)	(bar/PSI)	6.9 / 100	6.9 / 100	6.9 / 100	6.9 / 100	6.9 / 100	6.9 / 100	6.9 / 100	6.9 / 100	6.9 / 100

Operating Environment										
Operational Temperature- max	(°C/°F)	41 / 104	41 / 104	41 / 104	41 / 104	41/104	41 / 104	41 /1 04	41 / 104	41 / 104
Humidity - max (non-condensing)	%	80	80	80	80	80	80	80	80	80
Noise	dBA	75	75	75	75	75	75	75	75	75

Standard Features

- Windows[®] operating platform
- Touch Screen user interface (-Y standard, +Y on request)
- Utility drawer
- Vacuum VSD-Digital Vacuum control
- Vacuum Re-sealing blind
- QuickDraw[®] automatic diamond sharpening system
- Vacuum filter

PathCut® cutter software

- Import standard industry files DXF, ISO RS274d, ESSI
- Automatic cutting window conveyor advance calculation
- Full screen and zoom graphic display mode
- Display selection of cut order and piece identification
- Vacuum Economiser® power saving function
- Self diagnostic system
- Operator programmable 'end cut'
- Cutting small pieces first user definable
- Automatic compensation for knife/diamond sharpening stone wear
- Pre-set cutting parameters
- MultiCut[™] queuing of nested files
- QuickPath™ automatic cut piece ordering to reduce dry haul
- Visual marker display with scrolling facility
- Automatic Selvage waste cut at programmable intervals
- Comprehensive Self Diagnostics
- Self Adjusting software parameters optimising cut quality
- Marker manipulation features, notch selection, rotation, flip, drill ommission, scaling etc...
- PPR Pathfinder Proportional Reciprocation
- Automatic lay width checking
- System history file production cut file verification
- Power Fail Re-start sequence automatic operator prompts
- Maintenance Manager automatic reporting of maintenance requirements and schedule
- Head parking user definable
- Automatic conveyor advance pause user definable
- Units display in metric, imperial/yards and inches
- Automatic proportional slow down of cutting within critical areas

Ontions

- MTS (Machine Transfer System) allows machine to move laterally to service multiple tables
- PM (Pattern Match) for matching patterns to stripes, motifs and pre-printed textiles
- BCR (Barcode Scanner) automatic opening of production cut request
- PRM (Production Manager) integrated production reporting
- PRA (Production Analyst) remote access to production manager data standalone software
- IKP (IceKnife-Pump) computer controlled lubricant onto the knife to reduce fusing between parts
- IKA (IceKnife-Air) controlled delivery of air onto knife to cool and reduce fusing between parts
- HDC (Head Camera) camera dynamically interacts with PathCut for Matching and other functions.
- DRG (Drag Knife) ultra fine cutting tool for specialty materials
- DR2 (Secondary Drilling Unit) for drilling multiple hole sizes simultaneously
- AFP (Automatic Foor pressure) for special applications requiring multiple foot pressures
- CRT (Crease Tool) creating crease lines or kerf cutting
- PTW (PathWorks®) integrated within PathCut® enabling pattern creation and nesting

Marking/Identification

- IJP (Ink-Jet) mounted inside the cutting head used for printing part identification
- MRK (Marking) tool holder accepting a variety of standard marking pens-seam lines/text etc.
- ABR (Airbrush) non contact paint marking for difficult materials such as fibreglass
- OFD (Offload Display) synchronised display of delivered cut parts
- OFP (Offload Printer) thermal self adhesive label synchronised with OFD and delivered cut parts



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