



**REVOLUTIONARY TECHNOLOGY  
IMPROVES PERFORMANCE**

# THE REVOLUTION IS NOW.

## Demand Products' ✦ **CUTLAS™** Oscillating Blade and Fast Wire Machines have created a revolution in the cutting and processing of foam.

For the past 28 years Demand Products has lead the way in developing and introducing new innovative foam cutting products and technologies: Fast Wires, Oscillating Blades, Continuous Blades, Convoluters, Carousels, Slitters and the trend continues as we introduce our Cutlas™ Series. This new series offers revolutionary performance at affordable pricing.\*

Demand's Cutlas™ Series Machines incorporate exceptional engineering designs that provides for smooth, fast and efficient processing of full size flexible and rigid foam blocks in minutes.

Leading the series is the HK-5 Dual Oscillating machine, requiring only one operator, that easily handles the job of both vertical and horizontal machines—on one compact platform.

Operators all over the world appreciate the ease and usability of the Cutlas™ Cad Software®. Most existing files can be easily and quickly converted to DXF files making them suitable for processing foam blocks with the Cutlas™. Demand's System Cut Check™ will monitor and correct the load on the servo motors by checking for phase errors. The program will be automatically corrected adding life to both motors and blades.

Demand Products provides sales, service, and technical support for all Cutlas™ Machines. All machines are warranted for one (1) year.

\* Call for a quote and visit our showroom for your free demonstration.

# CUTLAS™ HK1 SERIES



## CUTLAS HK1-FAST WIRE

The **Cutlas Fast Wire** combines versatility, accuracy and reliability to cut a wide spectrum of rigid and flexible foams.

MACHINE WEIGHT	~4,400 LBS
POWER 220V*	10.7HP, 380V, 50HZ
SIZE	209" [L] x 120" [W] x 105" [H]
MAXIMUM FOAM SIZE	104" [L] x 84.7" [W] x 47.25" [H]
WIRE SIZE	.05"-.06 inches
SERVO SYSTEM	0-2800 (rpm)
CUTTING SPEED	0-118 IN/MIN.
TOLERANCE	±0.020 INCHES
MINIMUM CUT SIZE	.20 INCHES

CNC TYPE	INDUSTRIAL CONTROL
MONITOR	LCD
CONTROL	MOTION CONTROL CARD
OPERATION SYSTEM	WINDOWS
PROGRAMMABLE AXIS	X, Y
STEPPER MOTOR	14.75 FT.LB.
MINIMUM CUTTING RADIUS	.394 INCHES
SELF-DIAGNOSIS	INSTALLED
WIRE BREAK ALARM	INSTALLED

\*60HZ INVERTER AVAILABLE

# HK2



## CUTLAS HK2-OSCILLATING BLADE

**Horizontal Blade CNC** is an efficient machine allowing intricate contouring, block sheeting and simple spiral peeling. The HK2 has a small footprint; advantages are quick blade changes and high speed oscillation with a high quality electronic cabinet. Maximum block size for this machine is 114" x 90" x 51"

MACHINE WEIGHT	~4,400 LBS
POWER 220V*	10.7HP, 380V, 50HZ
SIZE	220" [L] x 126" [W] x 90" [H]
MAXIMUM FOAM SIZE	114" [L] x 91" [W] x 51" [H]
BLADE SIZE	8 FT. 2 IN. x .120 IN. x .020 IN.
SERVO SYSTEM	2400-2800 (RPM)
CUTTING SPEED	0-248 IN/MIN.
TOLERANCE	±0.020 INCHES
MINIMUM CUT SIZE	.20 INCHES

CNC TYPE	INDUSTRIAL CONTROL
MONITOR	LCD
CONTROL	MOTION CONTROL CARD
OPERATION SYSTEM	WINDOWS
PROGRAMMABLE AXIS	X, Y, Z, ø
STEPPER MOTOR	14.75 FT.LB.
MINIMUM CUTTING RADIUS	.394 INCHES
SELF-DIAGNOSIS	INSTALLED
BLADE BREAK ALARM	INSTALLED

\*60HZ INVERTER AVAILABLE

# HK3



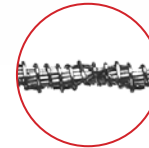
## CUTLAS HK3-OSCILLATING BLADE

**Vertical Blade CNC** Our Cutlas Vertical Oscillating machine with hold down bar allows for smooth and efficient processing most all rigid and flexible foams. HK3 has a small footprint; advantages are quick blade changes and high speed oscillation with a high quality electronic cabinet. Maximum block size for this machine is 114" x 90" x 51"

MACHINE WEIGHT	~4,630 LBS.	CNC TYPE	INDUSTRIAL CONTROL
POWER 220V*	12HP, 380V, 50HZ	MONITOR	LCD
SIZE	244"(L) x 126" (W) x 90"(H)	CONTROL	MOTION CONTROL CARD
MAXIMUM FOAM SIZE	118"(L) x 91"(W) x 51"(H)	OPERATION SYSTEM	WINDOWS
BLADE SIZE	5 FT.3 IN. x .120 IN. x .020 IN.	PROGRAMMABLE AXIS	X, Y, Z, $\phi$
SERVO SYSTEM	2400-2800 (RPM)	STEPPER MOTOR	14.75 FT.LB.
CUTTING SPEED	0-248 IN/MIN.	MINIMUM CUTTING RADIUS	.394 INCHES
TOLERANCE	$\pm 0.020$ INCHES	SELF-DIAGNOSIS	INSTALLED
MINIMUM CUT SIZE	.20 INCHES	BLADE BREAK ALARM	INSTALLED

\*60HZ INVERTER AVAILABLE

# HK4



## CUTLAS HK4-ROTATE TABLE also available as FastWire

**Turntable Oscillating Horizontal Blade CNC** is an efficient machine, allowing cutting in 3-D, intricate contouring, block sheeting and simple spiral peeling. The HK4 has a minimal footprint; advantages are the power turntable, quick blade changes and high speed oscillation with a high quality electronic cabinet.

MACHINE WEIGHT	~2,900 LBS.	CNC TYPE	INDUSTRIAL CONTROL
POWER 220V*	10.7P, 380V, 50HZ	MONITOR	LCD
SIZE	197"(L) x 126" (W) x 90"(H)	CONTROL	MOTION CONTROL CARD
MAXIMUM FOAM SIZE	118"(L) x 91"(W) x 51"(H)	OPERATION SYSTEM	WINDOWS
BLADE SIZE	8 FT. 6 IN. x .120 IN. x .020 IN.	PROGRAMMABLE AXIS	X, Y, Z, $\phi$
SERVO SYSTEM	2400-2800 (RPM)	STEPPER MOTOR	14.75 FT.LB.
CUTTING SPEED	0-248 IN/MIN.	MINIMUM CUTTING RADIUS	.394 INCHES
TOLERANCE	$\pm 0.020$ INCHES	SELF-DIAGNOSIS	INSTALLED
MINIMUM CUT SIZE	.20 INCHES	BLADE BREAK ALARM	INSTALLED

\*60HZ INVERTER AVAILABLE

# HK5



## CUTLAS HK5-DUAL OSCILLATING BLADE

**Double Oscillating Blade CNC** is a versatile dual blade machine allowing intricate contouring, block sheeting and many other cuts. The HK5 has a small footprint; advantages are quick blade changes and high speed oscillation with a high quality electronic cabinet. Block size for this machine is 114" x 90" x 51"

MACHINE WEIGHT	~6,200 LBS.	CNC TYPE	INDUSTRIAL CONTROL
POWER 220V*	13.4 HP, 380V, 50HZ	MONITOR	LCD
SIZE	248" [L] x 126" [W] x 90" [H]	CONTROL	MOTION CONTROL CARD
MAXIMUM FOAM SIZE	118" [L] x 91" [W] x 51" [H]	OPERATION SYSTEM	WINDOWS
BLADE SIZE	8 FT. 6 IN. x .120 IN. x .020 IN.	PROGRAMMABLE AXIS	X, Y1, Y2, Z1, Z2, ø1, ø2
	5 FT. 3 IN. x .120 IN. x .020 IN.	STEPPER MOTOR	14.75 FT.LB.
SERVO SYSTEM	2400-2800 (RPM)	MINIMUM CUTTING RADIUS	.394 INCHES
CUTTING SPEED	0-248 IN./MIN.	SELF-DIAGNOSIS	INSTALLED
TOLERANCE	±0.020 INCHES	BLADE BREAK ALARM	INSTALLED
MINIMUM CUT SIZE	.20 INCHES		

\*60HZ INVERTER AVAILABLE



## BANDSAW-Model DPVBS-1500

**Our Vertical Blade Bandsaw** is powered by a 21 HP Industrial motor and incorporates a built in blade sharpener that keeps the blade razor sharp throughout your project. Our large table glides effortlessly along precision rails assuring a smooth clean consistent cut in seconds.

FLOOR SPACE	27 FT. x 27 FT.
BASIC MACHINE WEIGHT	3,300 LBS.
MINIMUM CUTTING THICKNESS	.20 INCHES
MAXIMUM CUTTING HEIGHT	47.2 INCHES
BLADE SIZE	.98 IN x 0.17 IN.
BLADE MOTOR	2HP-6P, WITH 208/220/380/425V,50/60 HZ
SHARPENER MOTOR	2 X 1/8 HP-2P , WITH 208/220/380/425V, 0HZ/60HZ
CUTTING SPEED	ADJUSTABLE (USES POTENTIOMETER)
BLADE SPEED	270 RPM
SAFETY FENCE	39.4 INCHES x 15.75 INCHES
MAX. CUTTING SPEED (*)	8"/SEC

## CONVOULTER

**The Convoluter** comes in three widths, 65", 84" and 92" It quickly convolutes flexible foam sheets into "eggcrate" or checker patterns, etc., for the packaging, mattress and healthcare industry.

**DPYX-1650 65" WIDE x 12"**  
**DPYX-2150 84" WIDE X 12"**  
**DPYX-2340 92" WIDE X 12"**



MODEL	YX-1650	YX-2150	YX-2340
MAX.PROFILING WIDTH	65 IN.	84 IN.	92 IN.
MAX.PROFILING DEPTH	1.2 IN.	1.2 IN.	1.2 IN.
PROFILING AXLE-TURING SPEED*	0-25R/MIN	0-25R/MIN	0-25R/MIN
TOTAL POWER	14.4 HP	14.4 HP	14.4 HP
CUTTING SPEED	0-16 IN./SEC.	0-16 IN./SEC.	0-16 IN./SEC.
BLADE LENGTH	346 IN.	386 IN.	386 IN.
MACHINE WEIGHT	4410 LBS	5510 LBS	6600 LBS
MACHINE EXTERNAL SIZE (IN.)	165 [L] x 49 [W] x 61[H]	185 [L] x 49 [W] x 61[H]	185 [L] x 49 [W] x 61[H]
DENSITY RANGE: 8-50KG/M³	0.5-31LB/FT³	0.5-31LB/FT³	0.5-31LB/FT³

\*WORKING SPEED



# HK9

## CUTLAS HK9-CONTINUOUS VERTICAL BLADE

**Our Continuous Blade** the HK9 Continuous Vertical Blade Contour Foam Cutter is designed for the foam producers who are in great demand of vertical contour cutting. The greatest advantage of this machine is the fast speed. It has up to 3 times the cutting speed of a vertical oscillating cutting machine.

MACHINE WEIGHT	~8400 lbs	CNC TYPE	INDUSTRIAL CONTROL
POWER 220V*	17.4 hp, 60HZ	MONITOR	LCD
SIZE	260"(L) x 170"(W) x 118"(H)	CONTROL	MOTION CONTROL CARD
MAXIMUM FOAM SIZE	130"(L) x 90"(W) x 42"(H)	OPERATION SYSTEM	WINDOWS
BLADE SIZE	537.4" x .12" x.023"	PROGRAMMABLE AXIS	X , Y, Z
SERVO SYSTEM	0-2800 (rpm)	STEPPER MOTOR	14.75 FT.LB.
CUTTING SPEED	0-197 IN/MIN.	MINIMUM CUTTING RADIUS	0.394 INCHES
TOLERANCE	±0.060 INCHES	SELF-DIAGNOSIS	INSTALLED
MINIMUM CUT SIZE	.20 INCHES	BLADE BREAK ALARM	INSTALLED

\*60HZ INVERTER AVAILABLE



## HS SERIES FOAM SLITTER SAW

**The Horizontal Slitter** adopts the advanced imported inverter timing controlled techniques. It is used for the reciprocating action for flatly slicing of quadrate foam. Full numeric controll. It's operation is handy and cutting is exact. This machine can also be supplied with a pressure roller.

MODEL	HS-65	HS-84
CUTTING SIZE	W 65"xL 79"	W 84"xL 11
CUTTING HEIGHT	H 47"	H 47"
CUTTING THICKNESS	.1"-8"	.1"-8"
CUTTING SPEED	0-3.3 FT/MIN	0-3.3 FT/MIN
TOTAL POWER	11 HP	11 HP
BLADE LENGTH	28 FT	31 FT
MACHINE WEIGHT	4000 LBS	4400 LBS
MACHINE EXTERNAL SIZE (LWH)	L 228"xW 138"xH 94.5"	L 307"xW 165"xH 94.5"

## CARROUSEL SLITTER HORIZONTAL FOAM SAW

**Demand's Horizontal Carousel Slitter Foam Saw** is a high production machine, allowing for operation with minimal high-speed continuous manual handling.

**Applications:** furniture, bedding, automobile, aerospace, packing & medical industries

DIAMETER	~23 FT 11 INCH
FOAM SIZE	4 FT 11 IN (W) x 6 FT 6.5 IN (L) x 3 FT 11 IN (H) [5 PIECES]
MAXIMUM FOAM SIZE	7 FT 6.5 IN (W) 9 FT 10 IN (L) x 3 FT 11 IN (H) [3 PIECES]
WORKTABLE TURNING SPEED	0-0.3R/MIN
CUTTING THICKNESS	.08-5.91 INCHES
MACHINE EXTERNAL SIZE	25 FT 11 IN (L) x 2 FT 3.5 IN (W) x 7 FT 10 IN (H)
WEIGHT	7936 LBS.
CUTTING DENSITY RANGE	0-5LBS/FT <sup>3</sup> .



CREATING SOLUTIONS FOR THE FOAM INDUSTRY

**DEMAND** **FOAM**  
S Y S T E M S

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