

Cutting & Sawing



**Boston
Matthews**

For more than 65 years

Boston Matthews has been at the forefront of extrusion machinery technology.

A Worldwide Organisation

Boston Matthews is a global company that supports in excess of 30,000 machines in over 70 countries.

Head Offices and manufacturing facilities are based in Worcester, England which are further supported by facilities in Coral Springs, Florida, USA and Shanghai, China.

Boston Matthews is proud to be active members in the world's leading Plastics Associations including The British Plastics Federation (BPF); The Plastic Packaging Machinery Association (PPMA); Plastics Machinery Manufacturers and Distributors Association (PMMDA); Society Of The Plastics Industry (SPI); and The Shanghai Plastics Association.

Advanced Design & Innovation:

Continued investment in the latest technology enables Boston Matthews to drive extrusion innovation for the benefit of our customers. From 3D Design to Digital Measurement Analysis.

Precision Engineering:

Utilizing the latest manufacturing techniques combined with experienced, highly skilled engineers ensure that EVERY component part is precision manufactured and quality checked before assembly.

Customer Support – Aftercare

Boston Matthews has dedicated Spare Parts and Customer Support Departments to ensure you are fully supported at all times.

Our team of Test Engineers, Processing Engineers and Commissioning Engineers ensure your machine or complete extrusion line operates at the optimum level before you take delivery.

We can also train your operators, install and commission in your facility and our Processing Engineers are always willing to assist, even after sign off.

Boston Matthews Machine Range Includes...



Extruders



Cooling & Sizing



Pulling



Coiling & Winding



Cutting & Sawing

...and Complete Lines



Cutting – For fast, precision swarf-free cutting of tubes and profiles.

Servo-Rotary Cutters (Flying Knife):

Precision accurate servo technology in combination with a super-heavyweight construction provides stable, movement-free consistent accurate cutting.

Features:

- Clutch less operation for virtually ZERO maintenance
- Accurate high speed cutting for tubes & profiles
- Capable of up to 50 cuts per second
- Servo-PLC Control with Touch Screen Control
- Range of models & sizes to match product
- Precision accurate cutting of delicate products – e.g. medical devices
- Powerful cutting technology to ensure clean, square cuts
- Simple set-up & operation
- Low maintenance
- Also available as a Caterpillar Take-Up/Cutter Combo Unit

Planetary Cutters:

Boston Matthews Planetary Cutters automatically detect line speed and initiate the cutting sequence whilst travelling with the product. The result is a clean, square, accurate and repeatable cut every time.

Features:

- Clean, square consistent cutting for rigid tubes and pipes
- Particularly suitable for 'brittle' products
- Up to 5 inches diameter maximum capacity
- Repeatable, Accurate Cutting
- Range of sizes & models to match product cutting requirement
- Automatically cuts to line speed
- Eliminates the need for a secondary cut operation
- Applications include PS Pipettes, Mailing Tubes, Cosmetic Tube, Medical Tubing

Fly-Wheel Cutters:

Powerful fly-wheel cutter with Servo precision accuracy for the cutting of large tubes, pipes and profiles.

Features:

- Super heavy-weight construction for vibration, movement free cutting
- Large diameter servo driven fly wheel
- Multiple blade cutting options
- Blade lubrication
- Cut length setting
- Batch counting

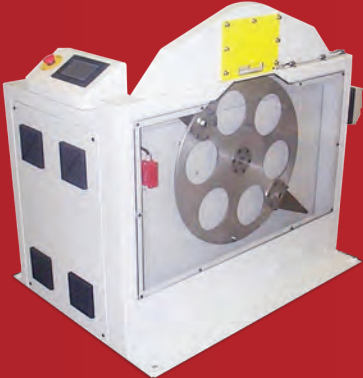
Guillotines:

Precision accurate cutting of small sections and tubes. Guillotine action cutting ensure a clean, square, repeatable cut each time.

Features:

- Strong, robust construction for movement free cutting
- Powerful pneumatic cutting operation for clean, square cutting
- Small footprint for easy in-line integration
- Capable of cutting a range of tube and profile sizes
- Optional pre-heater
- Optional discharge conveyor
- Available as Guillotine/Take-Up Combination Unit

Fly Wheel Cutter



Servo-Rotary Cutter



Planetary Cutter



Technical Specifications

Range		
Model		
Maximum Cut Capacity	- OD / Round	inches
	- Flat / Profile	inches
Cuts Per Minute/Line Speed		
Blade Drive Motor	- Standard	hp
	- High Torque Option	hp
Take-Up Drive Motor	- Standard	hp
	- High Torque Option	hp
Take-Up Belt Width	- Standard	inches
Take-Up Conveyor Length		inches
Carriage Travel	- Standard	inches
	- Option	inches
Air Pressure	- Standard	bar
Centerline Height	- min	inches
	- max	inches
Total Installed Power		
Dimensions - standard	- Length	inches
	- Length with tunnel guards	inches
	- Width	inches
	- Overall Height	inches
Nett Weight		lbs

Cutters										
Servo Cutters			Caterpillar Take-Up /Cutter Combo			Planetary Cutters			Servo Fly Wheel Cutter	
SC50	SC75	SC100	SC25-E	SC50-C	SC50-CL	TC75	TC100	TC125	SFC600	
2	3	4	1	2	2	3	4	5	TD:6	
na	na	na	na	na	na	na	na	na	PW:2 x 14	
1-3000	1-3000	1-3000	1-3000	1-3000	1-3000	50ft/min	50ft/min	50ft/min	1-300	
2½	4	4	2½	2½	2½	1	1¼	2	5¾	
	4		4	4	4	na	na	na	na	
na	na	na	¾	1½	1½	na	na	na	na	
na	na	na	1.1	1.5	1.5	na	na	na	na	
na	na	na	3	4	4	na	na	na	na	
na	na	na	21	27	39	na	na	na	na	
na	na	na	na	na	na	23	23	23	na	
na	na	na	na	na	na	na	na	na	na	
na	na	na	na	na	na	5.6	5.6	5.6	na	
39	39	39	39	39	39	39	39	39	39	
39	39	39	39	39	39	39	39	39	39	
9	14	14	12	15	15	25	25	25	25	
27	27	27	51	54½	72	54	54	54	39	
na	na	na	na	na	na	109	116	116	na	
19	20	21	22½	25½	25½	28	28	33	33	
45	46	47	54	54	54	49	49	49	45	
287	309	324	551	1102	1455	1322	1322	1322	1322	

TD = Tube Diameter PW = Profile Widest

Saws				
AS Automatic Saws			All-Electric Servo Saws	
AS75	AS100	AS200	SDS100	SDS200
3	4	8	4	8
4½	10½	20	10½	20
65ft/min	50ft/min	25ft/min	50ft/min	25ft/min
1	1	2	1	2
na	na	na	na	na
na	na	na	na	na
na	na	na	na	na
na	na	na	na	na
na	na	na	na	na
12	24	24	24	24
24	39	39	39	39
5.6	5.6	5.6	na	na
37	36	35	36	35
41	42	41	42	41
6	6	10	6	10
37	49	58½	49	58½
84	96	125	96	125
29	34	47	34	39½
61	61	61	61	61
397	551	904	584	948

Our policy of continuing design, materials and manufacturing improvement means that some modifications to machine specifications may be included.

Precision Sawing

Automatic Saws:

In-line precision accurate sawing of tube, pipes and profiles into repeatable cut lengths.

Boston Matthews Automatic Saws (AS) automatically track the extrusion line speed and initiate the sawing operation for an accurate, clean, square cut.

Features:

- Range of sizes to meet your exact sawing requirements
- Pneumatic driven table for greater accuracy
- Up-Stroke cutting action for square, clean cuts with repeatability
- Fully guarded & interlocked for operator safety
- Fully adjustable clamping unit for height & pressure – ensuring positive movement-free cutting
- Range of options including dust extraction and tipping tables

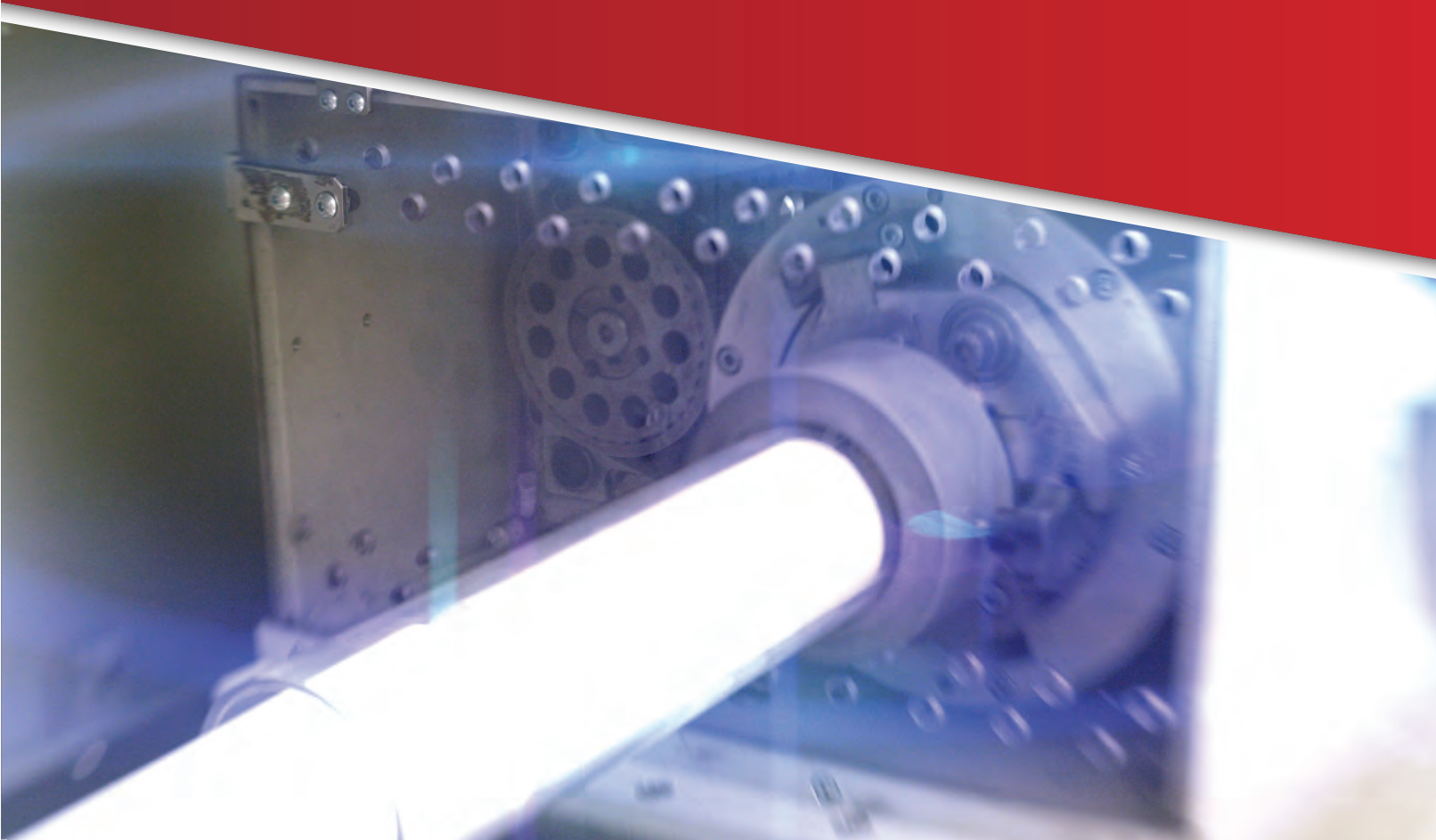
All-Electric Servo-Driven Saws:

Close tolerance, repeatable sawing of pipes, tubes and profiles.

With complete control over the entire sawing operation the All-Electric Servo Driven Saw provides such accuracy the need for any secondary cut operation is completely eliminated.

Features:

- Complete control & setting of the entire sawing operation – speed of table, speed of saw blade, speed of blade up-stroke, etc
- Range of sizes to meet your exact sawing requirements
- Up-Stroke cutting action for square, clean cuts with repeatability
- Touch-Screen Operator Control for quick & easy setting
- Fully guarded & interlocked for operator safety
- Range of options including dust extraction and tipping tables
- Elimination of any secondary cut operation greatly reducing scrap levels and improving efficiency.



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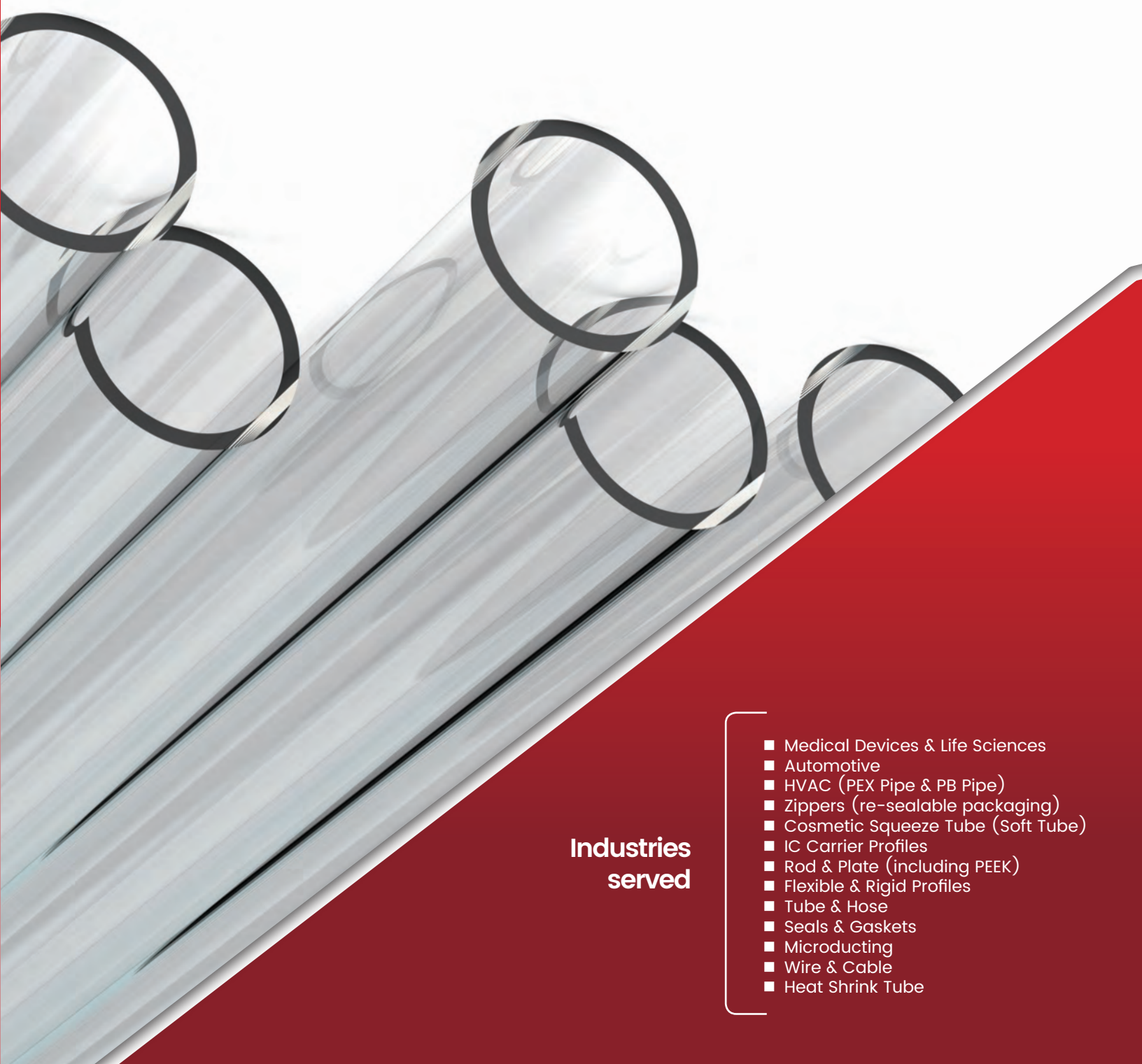


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Industries served

- Medical Devices & Life Sciences
- Automotive
- HVAC (PEX Pipe & PB Pipe)
- Zippers (re-sealable packaging)
- Cosmetic Squeeze Tube (Soft Tube)
- IC Carrier Profiles
- Rod & Plate (including PEEK)
- Flexible & Rigid Profiles
- Tube & Hose
- Seals & Gaskets
- Microducting
- Wire & Cable
- Heat Shrink Tube