

## Spray Baths

High pressure spray provides all over cooling either independently or in conjunction with full flood.

### Features:

- Range of bath sizes to match exact processing conditions
- Robust construction for movement free operation
- Full adjustment in all directions for precision alignment
- Simple operation and control
- Stainless steel construction with corrosion resistant fittings
- Range of options to meet with exact requirements

## Special Purpose Baths

As well as the "standard" cooling and sizing baths Boston Matthews design and manufacture a wide range of "Special Purpose" baths. These include very product or industry specific baths that include such features that are of a particular specialist requirement.

### These include:

- **Multi-Pass Baths:**  
Required when space is limited and an high speed extrusion process is required.
- **Cable Cooling Baths:**  
Designed for the high speed environments and polymers associated with Wire & Cable production.
- **Zipper Profile Baths:**  
Vertical baths designed specifically for the production of plastic re-sealable zippers. Forms part of the Boston Matthews Zipper Profile Extrusion Line.
- **Cosmetic "Squeeze" Tube Baths:**  
Very specialised Vacuum Cooling baths with tube specialised tube calibrators, vacuum control to ensure precise, mark free tubes. Also includes post calibration section for stress tube relief.

## Universal All-Rounder Cooling Calibration Units:

A flexible and universal, quick change cooling and calibration solution. The All Rounder can be quickly converted from an Open Cooling Bath to a Profile Calibration Bath to a Vacuum Bath. Available in a range of size and customisable options to match any specific requirements.

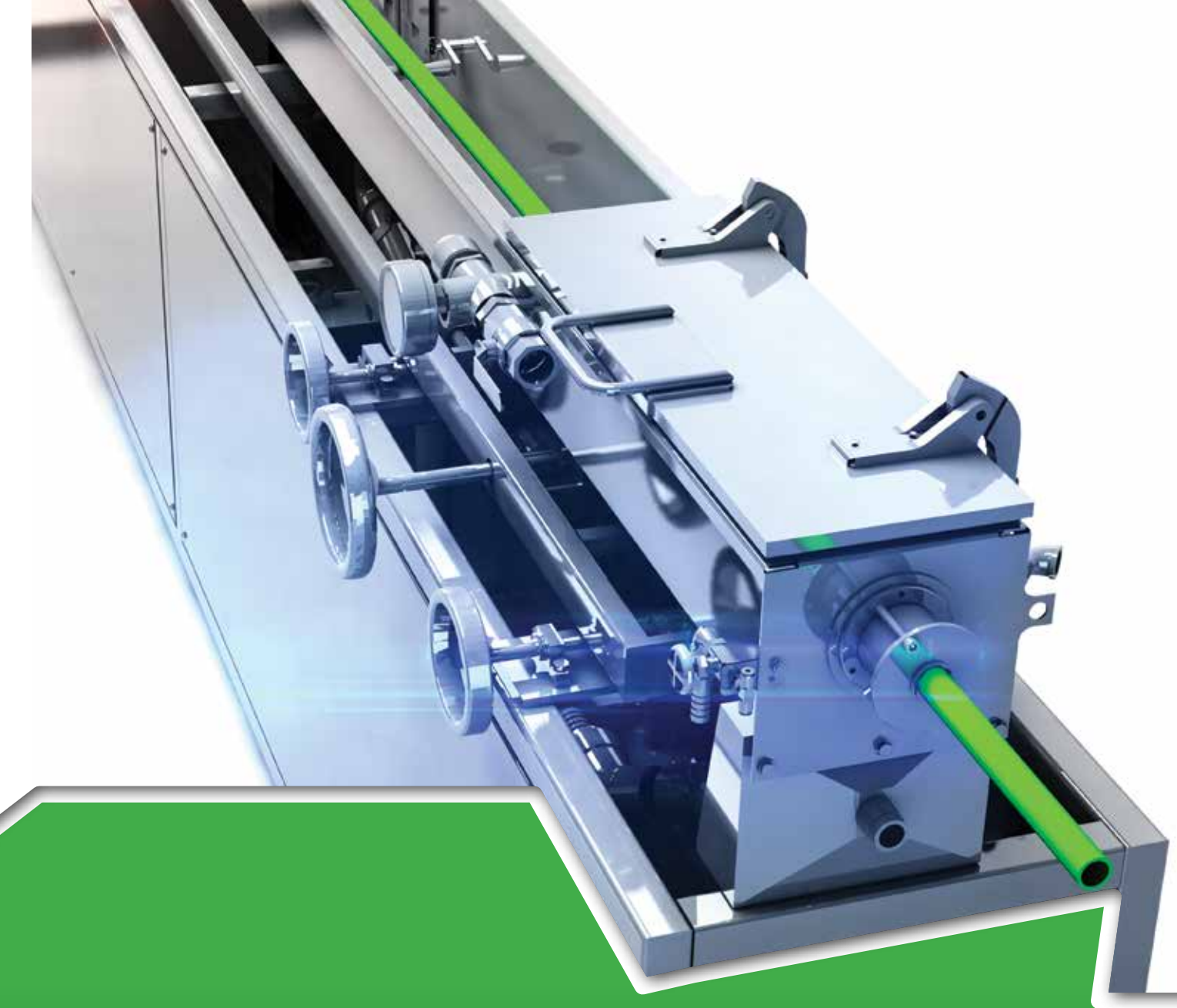
### Features:

- Stainless steel and corrosive resistant for clean operating environment
- Fully adjustable in 3 directions for perfect product alignment
- Available in a range of sizes to match production and environment
- Fully adjustable product hold-down rollers to assist high quality extrusion
- Adjustable water level for total control
- Optional Air Wipers for product drying
- Optional Profile Plate Holder
- Optional Drop-In Vacuum Tank

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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

# Cooling, Calibration & Sizing





# 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 Manufactures and Distributors Association (PMDMA); 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:

Utilising 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

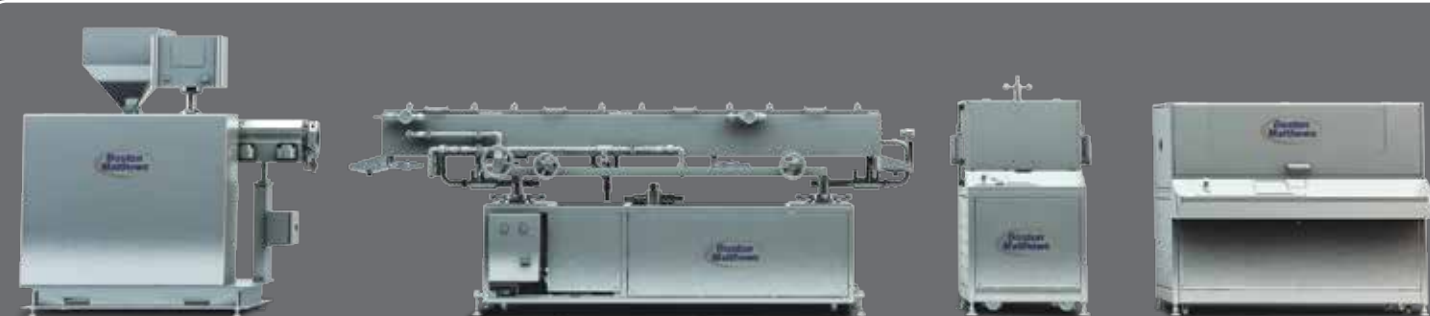


Coiling & Winding



Cutting & Sawing

## ...and Complete Lines



## Cooling Baths

Boston Matthews Cooling Baths provide a stable and accurate means of cooling tubes and profiles. A range of lengths is available dependent upon the product being extruded and line speed.

Features:

- Stainless steel and corrosive resistant
- Fully adjustable in 3 directions for perfect product alignment
- Available in a range of sizes to match production and environment
- Fully adjustable hold-down rollers to ensure straight "non bowed" product
- Adjustable water level for total control
- Optional calibration or profile plate holders
- Overflow catch tray at the outlet & inlet for a clean operating environment
- Easy clean down
- Optional Drop-In Vacuum Tank
- Optional Air Wipers for product drying

## Technical Specifications

Range			Cooling Baths					All Rounder Vacuum Calibration Baths			VB Vacuum Baths			DV Vacuum Baths								
Model			CTI500	CT3000	CT4000	CT5000	CT6000	ALL 3000	ALL 4000	ALL 5000	1000	1400	1600	800	1400	1480	1600	1680				
Maximum Capacity			60	115	150	190	230	115	150	190	70	100	100	100	100	200	100	200				
Tank Dimensions			- Length		1500	3000	4000	5000	6000	3000	4000	5000	3000	4200	6000	2400	4200	4200	6000	6000		
			- Width		- Standard		256	256	256	256	256	256	300	300	315	315	315	315	315	415	315	415
					- Option																	
			- Depth		- Standard		220	220	220	220	220	220	300	300	250	250	250	250	250	315	250	315
- Option																						
Full Adjustment up & down, forward & back, side to side			Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std				
Number of Chambers			1	1	1	1	1	Option	Option	Option	2	3	3	2	3	3	3	3				
Water Inlets			4	4	4	4	4	4	4	4	na	na	na	na	na	na	na	na				
Water Connections			na	na	na	na	na	6	6	6	na	na	na	na	na	na	na	na				
Vacuum Connections			na	na	na	na	na	6	6	6	na	na	na	na	na	na	na	na				
Spary Nozzles in each chamber			na	na	na	na	na	Option	Option	Option	16 + 64	16+44+44	16+64+64	16+44	16+44+44	16+44+44	16+64+64	16+64+64				
Product Support Rollers / Hold Down Rollers			1	2	3	3	4	Option	Option	Option	1	2	2	1	2	2	2	4				
Recirculation System			- option /standard		option	option	option	option	option	std	std	std	std	std	std	std	std	std				
			- Water Pump		kW	0.37	0.37	0.55	0.55	0.55	0.37	0.37	0.55	1	2.2	2.2	0.75	1	1	2.2	2.2	
			- Capacity		l/min	80	80	80	80	80	80	80	80	80	125	160	80	120	120	160	160	
			- Reservoir Tank		l	140	140	140	140	140	140	140	140	143	262	262	143	262	262	262	262	
Pumps			- Vacuum		kW	na	na	na	na	na	na	na	na	na	2.25	2 x2.25	2 x2.25	2 x2.25	2 x2.25			
			- Cooling		kW	na	na	na	na	na	na	na	na	na	na	0.55	0.55	0.55	0.9	0.9		
			- Venturi		kW	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
Drop in vacuum tank			na	na	na	na	na	option	option	option	na	na	na	na	na	na	na	na				
Centreline Height			- Maximum		mm	950	950	950	950	950	950	950	950	950	950	950	950	950				
			- Minimum		mm	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050			
Total Installed Power			amps	4	4	6	6	6	5	10	13	10	10	13	13	25	25	25				
Overall Dimensions			- Length		mm	1900	3400	4400	5400	6400	3400	4400	5400	3400	4615	6400	2830	4615	4615	6400	6400	
			- Width		mm	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640		
			- Height		mm	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1190	1190	1190	1190	1190		
Nett Weight			Kg	200	350	400	450	550	360	400	460	780	820	880	740	820	850	880	920			

## Vacuum Baths

Boston Matthews Vacuum Cooling Baths for the accurate and consistent cooling and sizing of tubes and profiles. Complete control over the Vacuum Sizing process including vacuum level, water volume and cooling mode in each chamber ensures maximum output and consistent high quality at all times. Available in a range of sizes and with optional features to match exactly the product sizing requirements.

Features:

- Stainless steel and corrosive resistant for clean operating environment
- Fully adjustable in 3 directions for perfect product alignment
- Available in a range of sizes to match production and environment
- Fully adjustable product hold-down rollers to assist high quality extrusion
- Adjustable water level for total control
- Optional Calibration Dies including pre-cooling & high output
- Overflow catch tray at the outlet & inlet for a clean operating environment
- Easy clean down
- Toughened glass lids for maximum vacuum accuracy and production visibility to assist operators
- Optional Air Wipers for product drying

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