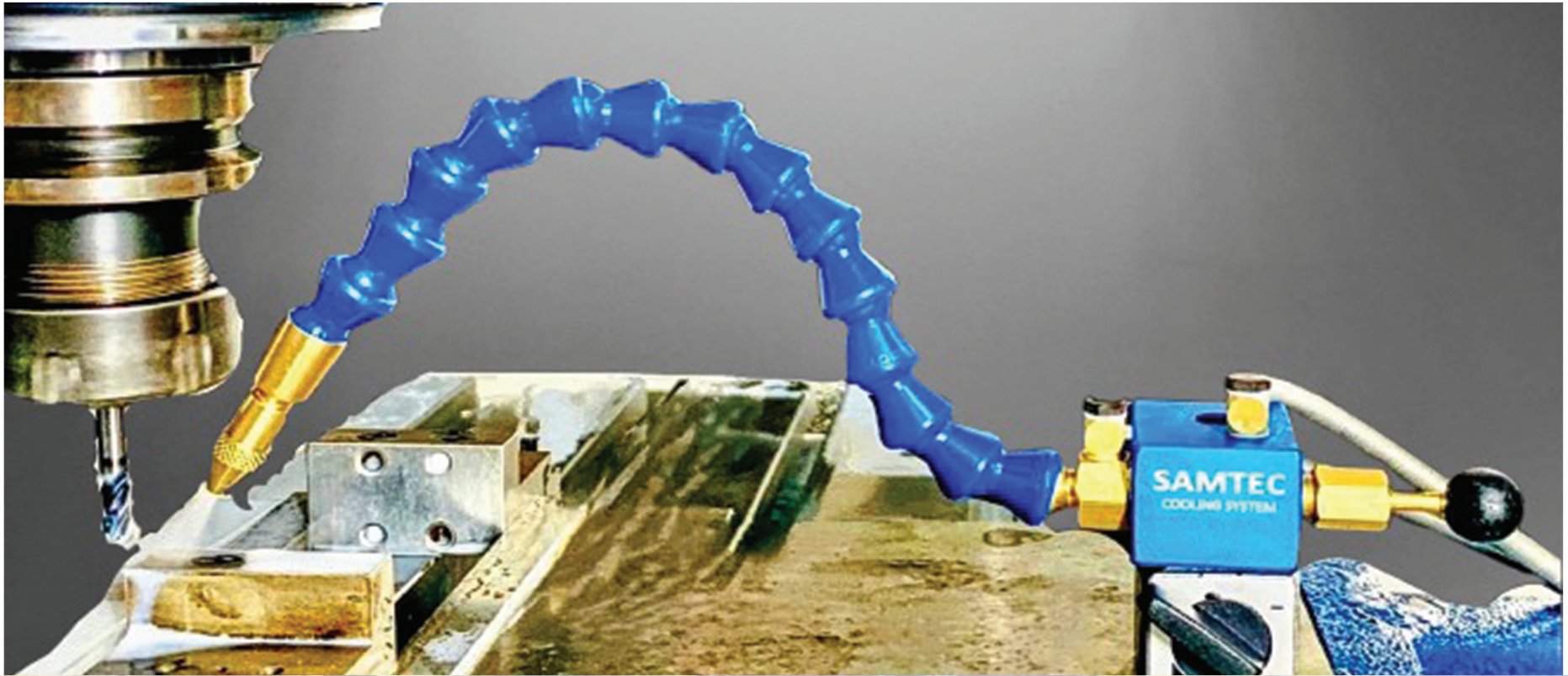


Samtec Mist Coolant



SAMTEC
Your Partner for Innovative Tooling Solutions

Samtec Head Office



Samtec Tools & Accessories

(Estd. 1994 HO in Pune, India)

Samtec is focused on implementing Innovative Tooling Solutions to enhance quality & productivity for our customers.

Samtec Product Portfolio

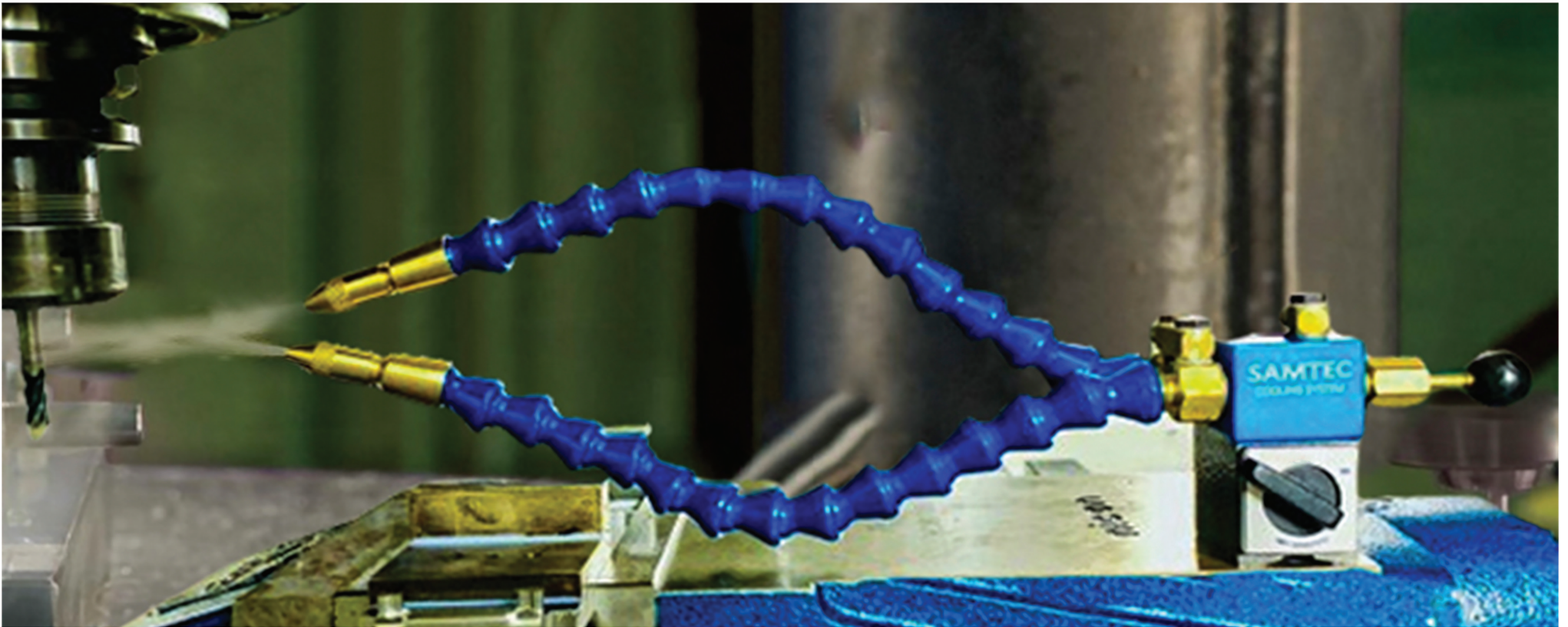
- Cutting Tools
- Machine Tool Accessories
- Shop Floor Accessories

SAMTEC
Your Partner for Innovative Tooling Solutions

Table Of Contents

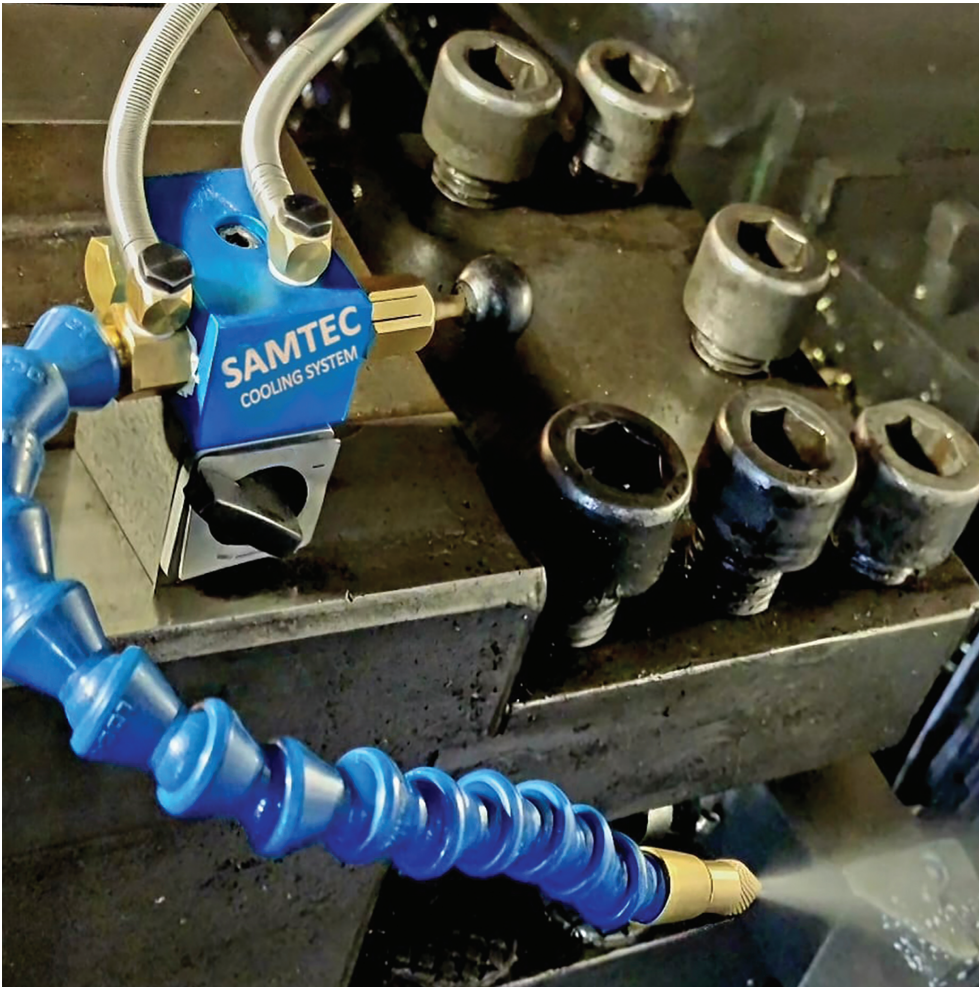
No.	Topic	Page No.
1.	Introduction	2
2.	Samtec Mist Coolant & Spares	3
3.	Guidelines	4
4.	Advantages	5
5.	Benefits	6

Cooling Systems Cutting Fluid Applicator



1

SAMTEC
Your Partner for Innovative Tooling Solutions



Samtec Mist Coolant System

The Samtec Mist Coolant system utilizes the VENTURI effect to spray an air & liquid mixture. This system allows users to control both the airflow rate & liquid rate easily.

Users can easily adjust both the air flow rate & the liquid rate to suit their specific cooling needs.

Both the stainless steel armoured provided in a standard length of 2 meters,

The spray unit is available in three standard lengths

- 264 mm
- 334 mm
- 479 mm

Special lengths can be requested to accommodate unique requirements.

Samtec Mist Coolant & Spares

SINGLE SPRAY UNIT SMC1700

- Maximum heat dissipation & extended tool life
- Strong magnetic base
- Separate on/off air & fluid controls
- Stainless steel armoured coolant hose & air hose
- Nozzle connected via Loc-Line flexible hose
- Simple, inexpensive & rugged design
- Single spray unit



DOUBLE SPRAY UNIT SMC3000

- Two spray units for enhanced cooling and coverage
- Same as Single Spary Unit SMC 1700




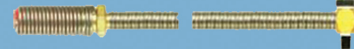







Order No.

One Spray unit of lenght (mm)			Two Spray units of lenght (mm)				
264	334	479	264	334	479	Air hose	Syphon hose
SMC1730	SMC1830	SMC2030	SMC3030	SMC3130	SMC3230	2 M	2 M

SPARE PARTS

Order No.

SMC0130		Control valve with popeye magnet
SMC0101 SMC0102 SMC0103		Spray Unit 270mm Spray Unit 340mm Spray Unit 485mm
SMC0308 SMC0302		Air line 1 m Air line 2 m
SMC0360 SMC0311		Suction line 1 m Suction line 2 m
SMC0204		Valve stem
SMC3637		Filter
SMC0001		Nuzzle nut
SMC0232		Banjo screw & washer
SMC0031		Banjo fitting

Samtec Mist Coolant Guidelines

- Uses the Venturi effect to spray an air & liquid mixture.
- Basic parts include
 - Stainless steel armoured coolant hose (2 meters standard length, special lengths upon request).
 - Air hose (2 meters standard length, special lengths upon request).
 - Spray unit (available in 264, 334, & 479 mm standard lengths, special lengths upon request).
 - Easily controls both air flow rate and liquid rate.
- Pressurized air flows through a Loc-Line flexible hose to a special nozzle.
- Nozzle creates a mixture of cold air and fine coolant spray.
- Nozzle is adjustable to control the liquid spray amount.
- Hose assembly sits on a valve with two inlets (one for air and one for coolant).
- Air passes through a shut-off valve with an adjustment feature to regulate air flow.
- Valve is connected to a 'Popeye' magnet for stability.



Advantages Of The Samtec Mist Coolant System

- Temperature Reduction: Lowers temperature by 40-45% on VTL machines.
- Flexible Coolant Hose: Adjustable hose for precise cooling.
- Nozzle Nut Adjustment: Modified nozzle nut for longer life.
- Extended Tool Life: Boosts tool life by 10-12%
- Improved Coolant/Oil Suction: Better suction for smooth flow
- New Filter System: Reduces choke-up issues.
- Fixed Nozzle Nut Setting: Saves time on pressure adjustments.
- Efficient Air & Coolant Mix: Consistent stream of cold air & coolant.
- Uses the venturi effect to spray an air & liquid mixture.
- Easily controls both air flow rate & liquid rate.

Benefits Of The Samtec Mist Coolant System

- **Increased Productivity**

Prevents overheating for efficient operation.

- **Cost Savings**

Reduced tool replacement and maintenance costs.

- **Precision Cooling**

Adaptable hose & nozzle for accurate cooling.

- **Continuous Operation**

Improved suction & filtration for uninterrupted flow.

- **Optimized Performance**

Consistent cooling enhances machine performance.

- **Durability**

Long-lasting components.

- **User-Friendly**

Easy adjustments & stable valve assembly.

SAMTEC

Your Partner for Innovative Tooling Solutions



samtectools.com



+91 9175105689,
+91 7507205689



info@samtectools.com