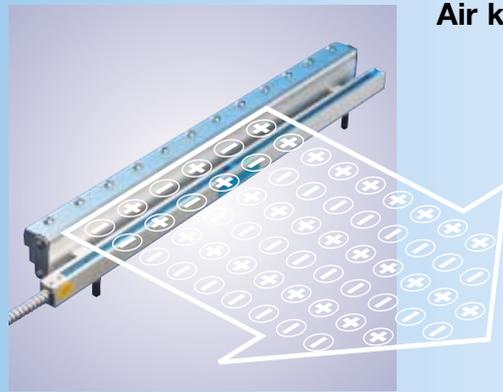




Airknife with anti-static bar

Air knives with a SIMCO anti-static bar combine the effects of air amplification and ionization to produce a high-velocity "sheet" of ionized air (amplification ratio as high as 25:1). This combined effect can be used for static neutralizing and dust removal in a single operation, for instance in the automotive finishing, printing, packaging, plastics and textile industries. The air knife is very compact and does not have any moving parts. SIMCO anti-static bars produce an electrical field which causes air molecules to break down into positive and negative ions. These ions are picked up by the high-velocity air flow produced by the air knife and propelled into the work area where they neutralize the charged surface or product.



Air knife with MEB anti-static bar

Air knives combined with a type MEB shock-proof anti-static bar come in standard lengths. Several air knives are used for greater lengths. The compressed air is blown across the high-voltage points over the entire width and amplified by the ambient air carried along. The air flow is saturated by the positive and negative ions produced by the anti-static bar. The air flow neutralizes the static charge, enabling any contamination to be easily blown away.



Air knife with P-Sh-N-Ex anti-static bar

This combination is used to blow ionized air into explosion-hazardous areas. You do not need external power sources because a compact power unit is integrated in the bar.



Application

The photograph (left) shows a production line for transporting automotive components. These components must be perfectly clean, before they are finished in the spray booth. All dust particles are blown away by the air knife with anti-static bar.

Anti Static Bar with Air Knife before the paintcabinet

Technical specifications

		Air Knife	Antic Static Bar MEB and P-Sh-N-Ex	
<p style="text-align: right;">MEB</p>	Mechanical		Mechanical	
	Standard lengths	150, 300, 450 and 600 mm	Material	Anodised aluminum PVC and ABS Stainless Steel 302
<p style="text-align: right;">P-Sh-N-Ex</p>	Working distance	150 - 3000 mm		
	Air inlet	G 1/4" - 19	Cable	PVC and PE
	Weight	2,6 kg/m	Ambient temperature	max. 55°C
	Material	aluminum	Electrical	
	Air requirements	0.7 to 7 bar clean, dry oil free air	Operating voltage	7000V AC
	Amplification ratio	25 : 1	Current	Emitterpoint to earth max. 20 µA
	Air consumption and recommended filters	see product specification	Power supplies	
			MEB:	A2 A7 S, C 2
			P-Sh-N-Ex:	integral power unit
			U primary	230V, 50 Hz