

Specifications are based on 2 x Ø80mm pick up points. Max length of each Ø80 line is 2m including 1m flexhose and 1 x 90 degr. bend. The conveying distance specified in the chart is from pick up of trim to discharge of trim. In the main line OK100, is included a maximum of 2 x 90 degr. bends. On the blowing side of the venturi, 1m OK160 and 1 x 90 degr. OK160 are included.

Selection of blower for ITF100 Venturi system (Paper trim)

Material:		Conveying distance m						
		Trim width	10	15	20	25	30	
Paper <50g/m ²	Trim Speed	< 80 mm	100 m/min	1020	1020	1040	1040	1040
			200 m/min	1040	1040	1040	1040	1075
			300 m/min	1040	1040	1040	1075	1075
			400 m/min	1040	1075	1075	2100	2100
Paper <100g/m ²	Trim Speed	< 75 mm	100 m/min	1020	1020	1040	1040	1040
			200 m/min	1040	1040	1040	1040	1075
			300 m/min	1040	1040	1040	1055	1075
			400 m/min	1040	1075	1075	2100	2100
Paper <150g/m ²	Trim Speed	< 65 mm	100 m/min	1040	1040	1075	1075	2100
			200 m/min	1040	1075	1075	2100	2100
			300 m/min	1040	1075	2100	2100	
			400 m/min	1075	2100	2100		
Paper <200g/m ²	Trim Speed	< 60 mm	100 m/min	1040	1075	2100	2100	
			200 m/min	1075	2100	2100		
			300 m/min	2100	2100			
			400 m/min	2100		FVO Inline Venturi system		
Paper <250g/m ²	Trim Speed	< 55 mm	100 m/min	1075	2100	2100		
			200 m/min	2100	2100			
			300 m/min	2100				
			400 m/min			FVO Inline Venturi system		

Selection of blower for ITF80 Venturi system (Paper trim)

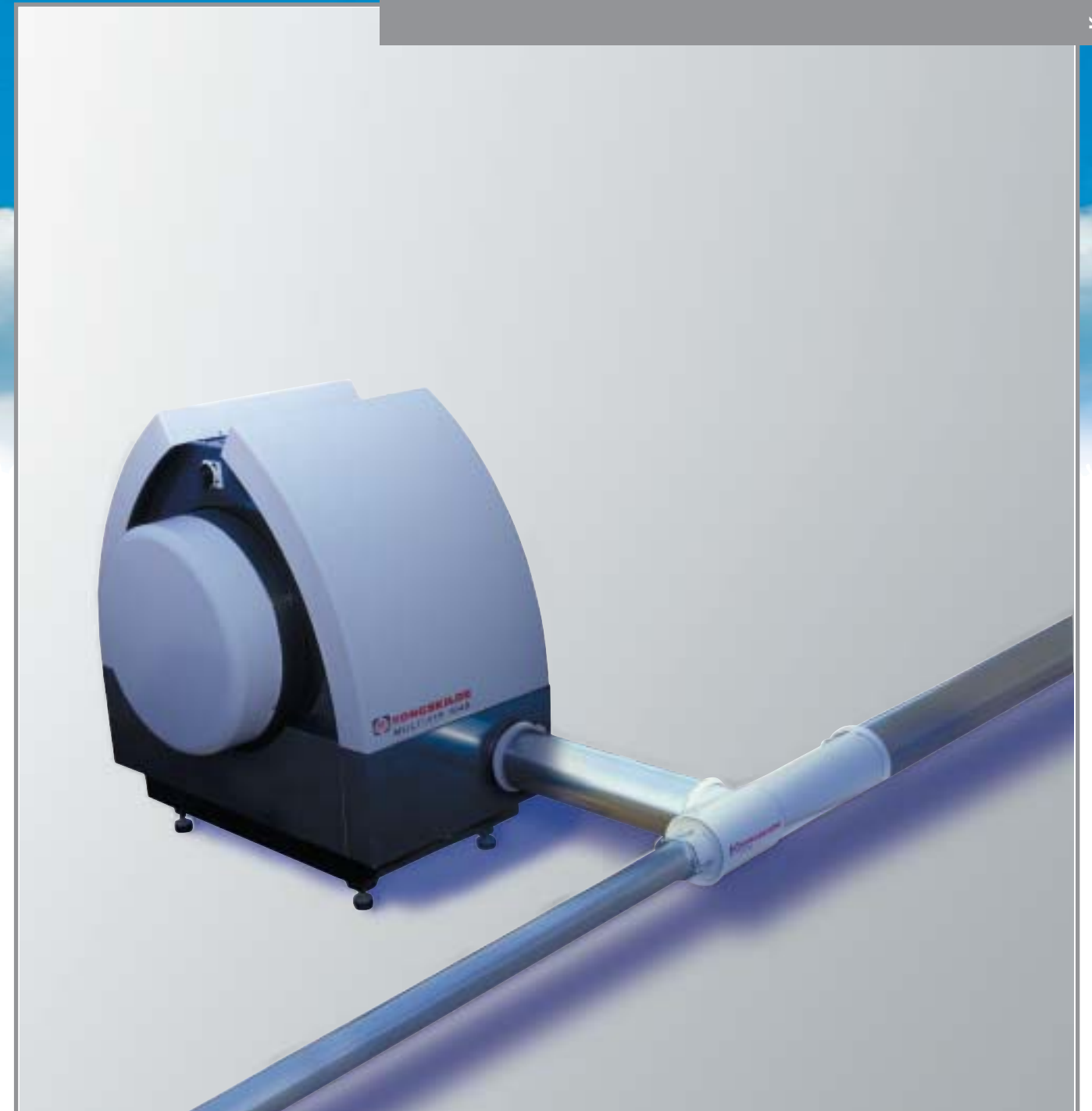
Material:		Conveying distance m						
		Trim width	10	15	20	25	30	
Paper <50g/m ²	Trim Speed	< 60 mm	100 m/min	1020	1020	1020	1020	1040
			200 m/min	1020	1020	1040	1040	1075
			300 m/min	1020	1040	1040	1075	1075
			400 m/min	1040	1040	1075	2100	2100
Paper <100g/m ²	Trim Speed	< 55 mm	100 m/min	1020	1020	1040	1020	1040
			200 m/min	1020	1020	1040	1040	1075
			300 m/min	1020	1040	1040	1075	1075
			400 m/min	1040	1040	1075	2100	2100
Paper <150g/m ²	Trim Speed	< 50 mm	100 m/min	1020	1020	1040	1040	1075
			200 m/min	1020	1040	1040	1075	2100
			300 m/min	1040	1040	1075	2100	
			400 m/min	1040	1075	2100		
Paper <200g/m ²	Trim Speed	< 45 mm	100 m/min	1040	1040	1075	2100	
			200 m/min	1040	1075	2100		
			300 m/min	1075	2100			
			400 m/min			FVO Inline Venturi system		
Paper <250g/m ²	Trim Speed	< 40 mm	100 m/min	1040	1075	2100		
			200 m/min	1075	2100			
			300 m/min	2100				
			400 m/min	2100		FVO Inline Venturi system		

Specifications are based on 2 x Ø60mm pick up points. Max length of each Ø60 line is 2m including 1m flexhose and 1 x 90 degr. bend. The conveying distance specified in the chart is from pick up of trim to discharge of trim. In the main line FK80, is included a maximum of 2 x 90 degr. bends. On the blowing side of the venturi is 1m OK160 and 1 x 90 degr. OK160 are included.



ITF Inline Venturi system

Kongskilde
Inline Venturi
system



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Subject to modifications.

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A compact trim handling system for continuous trim and trim cut

The ITF Inline Venturi utilises standard Kongskilde modular pneumatic conveying components to transfer process waste (edge trims) and light materials. The system is characterised by its ability to convey the product through a duct without the product coming into contact with any moving parts.

The ITF Inline Venturi system is suitable for conveying continuous edge trim and paper off cuts, aluminium and plastic from production systems with low to medium production speed.

By virtue of the technique involved, wear of the product is minimised; but a cutter can be built into the system to cut the continuous trim and by that reduce the need of storage facilities.

Simple installation, minimal maintenance

The installation of an ITF Inline Venturi System is simple. The system is based on a modular build-up and the material is vacuumed into the pipe system at the suction point without the need to set up special feeding arrangements. The diameter for the ITF Inline Venturi mainpipe is available as either 80 mm or 100 mm. The mainpipe can be branched into pipes with smaller diameter, which makes it possible to evacuate edge trim from several pick-up points.

Materials suitable for conveying in the ITF Inline Venturi System



Off cuts and continuous edge trim from paper, aluminium and plastic film rolls.

The ITF Inline Venturi system requires virtually no maintenance, as the material being conveyed in the system never comes in contact with any moving parts.

The ITF Venturi system – designed for maximum efficiency

The ITF Venturi system has been designed to produce maximum suction in the line & at the material pick up point. This is achieved by placing the ITF venturi system as close as possible to the discharge point of the waste material.

It is recommended that the material is discharged from the OK160 pipe a maximum distance of 2 m from the Venturi position.

The larger diameter OK160 transfer pipe after the Venturi reduces the air speed in the pipe. The material can be discharged into a cage by the use of a 90° slow radius bend.

It is recommended that where the material is discharged into enclosed systems such as bailers & compactors that a static air separator is used.

Sizing of the ITF Inline Venturi System

The four tables illustrate the various applications and limitations of the ITF Inline Venturi System in conjunction with different types of blowers. The system requirements for the aluminium foil can be read in the table for plastic.

Capacity requirements beyond the limits of the ITF Inline Venturi System can be met by using alternative, standard, Kongskilde pneumatic conveying technology. Please do not hesitate to contact us for further information regarding these systems.

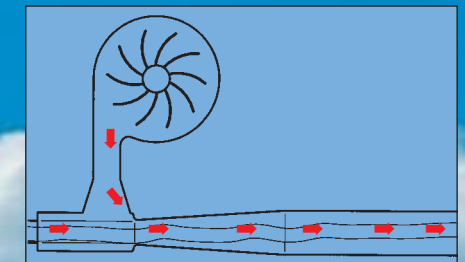
Selection of blower for ITF80 Venturi system (Plastic trim)

Material:		Conveying distance m					
Trim Speed	Trim width	10	15	20	25	30	
Plastic film <50my	< 60 mm	100 m/min	1020	1040	1040	1075	1075
		200 m/min	1040	1040	1075	1075	2100
		300 m/min	1040	1075	2100	2100	
		400 m/min	1075	2100	2100		FVO Inline Venturi s.
Plastic film <100my	< 55 mm	100 m/min	1040	1040	1075	1075	2100
		200 m/min	1040	1075	2100	2100	
		300 m/min	1075	2100	2100		
		400 m/min	2100	2100			FVO Inline Venturi system
Plastic film <150my	< 50 mm	100 m/min	1040	1075	2100	2100	
		200 m/min	1075	1075	2100		
		300 m/min	2100	2100			
		400 m/min	2100				FVO Inline Venturi system
Plastic film <200my	< 45 mm	100 m/min	2100	2100			
		200 m/min	2100	2100			FVO Inline Venturi system
		300 m/min					
		400 m/min					

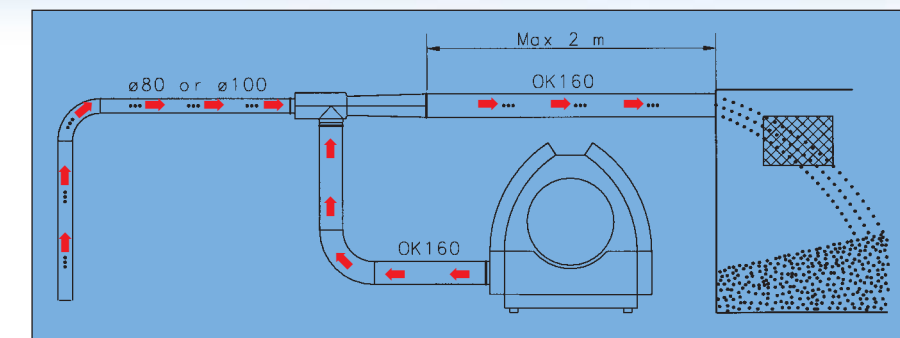
Selection of blower for ITF100 Venturi system (Plastic trim)

Material:		Conveying distance m					
Trim Speed	Trim width	10	15	20	25	30	
Plastic film <50my	< 80 mm	100 m/min	1040	1040	1075	1075	2100
		200 m/min	1040	1075	1075	2100	2100
		300 m/min	1075	2100	2100		
		400 m/min	2100	2100			FVO Inline Venturi system
Plastic film <100my	< 75 mm	100 m/min	1040	1075	2100	2100	2100
		200 m/min	1075	2100	2100		
		300 m/min	2100	2100			
		400 m/min	2100				FVO Inline Venturi system
Plastic film <150my	< 65 mm	100 m/min	1075	1075	2100	2100	
		200 m/min	2100	2100			
		300 m/min	2100				FVO Inline Venturi system
		400 m/min					
Plastic film <200my	< 60 mm	100 m/min	2100				FVO Inline Venturi system
		200 m/min					
		300 m/min					
		400 m/min					

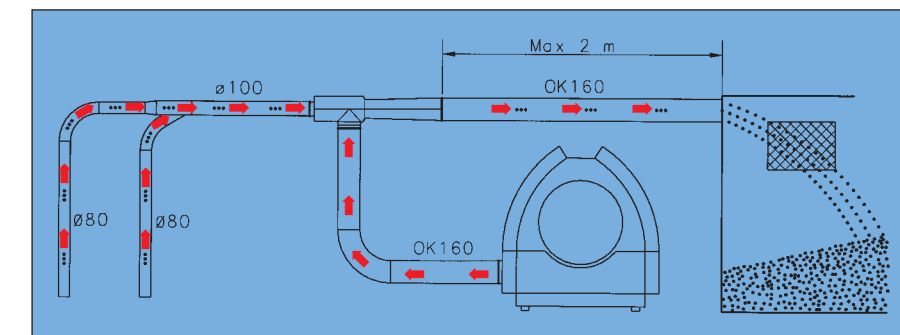
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Simple system
From the suction point to the inlet of the ITF Inline Venturi the pipe diameter is the same.



Several pick-up points
When the system is designed with several pick-up points; the pipe dimension on the branch pipes are reduced, so that the total cross-section area corresponds to the cross-section on the main pipe.