

HEBERLEIN® LUFAN-3. ASPIRATOR.

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ADVANCED ASPIRATORS AND SUPERIOR OPERATION.

Lufan-3 is used for threading yarn on textile machines during operation. Suction force and easy handling are critical elements to ensure efficient operation and the focal points of our design. With products to suit the full spectrum of yarns and process parameters our aspirators are in a class of their own offering light weight, extreme durability and unrivalled suction performance.

Yarn threading

Due to the incredibly fast yarn speeds, performance and reliability are crucial elements during threading and key to successful operation.



Features and Benefits

- ▶ Comparable suction force with less air consumption
- ▶ Optimised rotary handle for easy operation via an ergonomically shaped unbreakable valve
- ▶ Easy Handling
- ▶ Unbreakable suction mouthpiece
- ▶ Plastic coated suction tube to avoid impact damage
- ▶ Long life due to high value, wear resistant materials
- ▶ Maximum operating speeds of up to 8 000 m/min
- ▶ Handle material designed for operator comfort
- ▶ Changeable mouthpiece depending on the application

Heberlein® Lufan-3

Performance characteristics

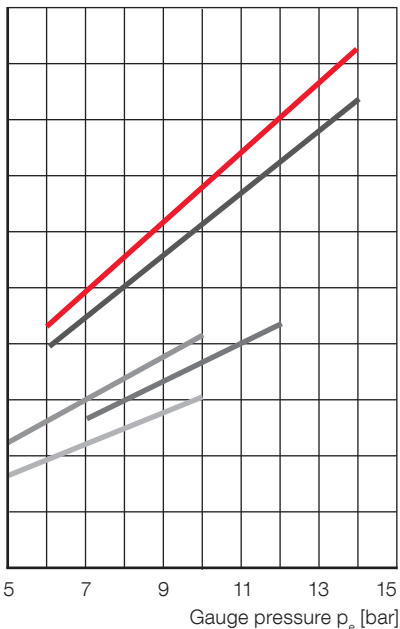
Application	Type	Count range [dtex] (den = 0.9 dtex)	Winding Speed [m/min]	Air usage [m³/h] ¹
Textile Yarns	HS7-3	22 - 3000	-8 000	58 (p _e +1)
	LC7-3	330 - 3000	-5 000	38 (p _e +1)
Technical & BCF yarns	HS10-3	800 - 9000	-8 000	58 (p _e +1)
	HS10-3P	800 - 10000	-8 000	62 (p _e +1)
	LC10-3	3000 - 10000	-5 000	38 (p _e +1)
Synthetic yarns in STF plants	HS18-3	3000 - 70000	-2 000	34 (p _e +1)
Various yarns, strings etc.	TF15-3	3000 - 100000	-2 000	28 (p _e +1)

■ Typical range ■ Limits of application 22 330 800 1500 3000 6000 9000 10000 25000 40000 70000 100000

¹ Formula applies from 0.8 bar. p_e = pressure [bar]. Under standard conditions according to DIN 1343: Temperature = 0 °C, pressure = 1.01325 bar, relative humidity = 0 % (1 standard cubic metre = 1.293 kg). Losses in the compressed air system have not been considered.

Comparison suction force

Yarn tension [cN]



- HS10-3P
- HS7-3/HS10-3
- LC7-3/LC10-3
- HS18-3
- TF15-3

Hose requirements*

Type	Hose type	Nominal diameter	Nominal pressure	Max. length	External thread	Internal thread
Compressed air hose						
HS7-3	2TE with metal coil	DN20	PN20	5m	G1"	G1¼"
HS10-3		DN20	PN20	5m	G1"	G1¼"
HS10-3P		DN25	PN20	5m	G1"	G1¼"
HS18-3		DN20	PN20	5m	G1"	G1¼"
LC7-3		DN20	PN10	5m	G¾"	G1"
LC10-3		DN20	PN10	5m	G¾"	G1"
TF15-3		DN20	PN20	5m	G¾"	G1"
Exhaust hose						
HS7-3	2TE with metal coil	DN30	PN20	5m		
HS10-3		DN30	PN20	5m		
HS10-3P		DN40	PN20	5m		
HS18-3		DN30	PN20	5m		N/A
LC7-3		DN30	PN10	5m		
LC10-3		DN30	PN10	5m		
TF15-3		DN24	PN10	5m		

* Please be aware that hoses are no longer included. Involve a specialist when specifying hose.

Compressed air requirements

Type	Gauge Pressure	Operating Pressure
HS7-3	max. 20 bar	6 - max. 14 bar
LC7-3	max. 15 bar	5 - max. 10 bar
HS10-3	max. 20 bar	6 - max. 14 bar
HS10-3P	max. 20 bar	6 - max. 14 bar
LC10-3	max. 15 bar	5 - max. 10 bar
HS18-3	max. 20 bar	7 - max. 12 bar
TF15-3	max. 15 bar	5 - max. 10 bar

- Max. residual oil: 0.1 mg/m³ (class 2*)
- Max. residual particles: (class 3*)
 - Particle size 5 µm
 - Particle density 5 mg/m³
- Max. residual water: (class 5*)
 - Residual water 7.732 g/m³
 - Dew point + 7 °C

* According to DIN ISO 8573-1