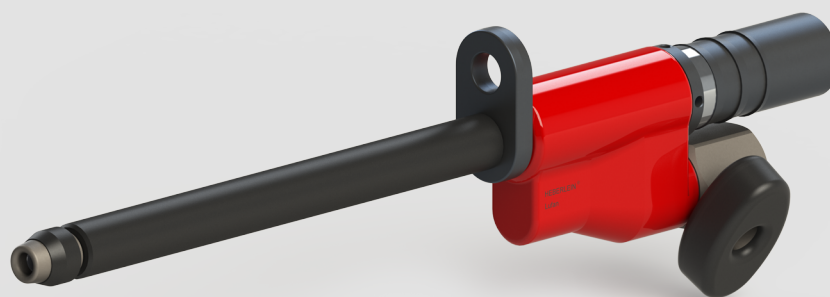




FACTSHEET

Lufan-3.

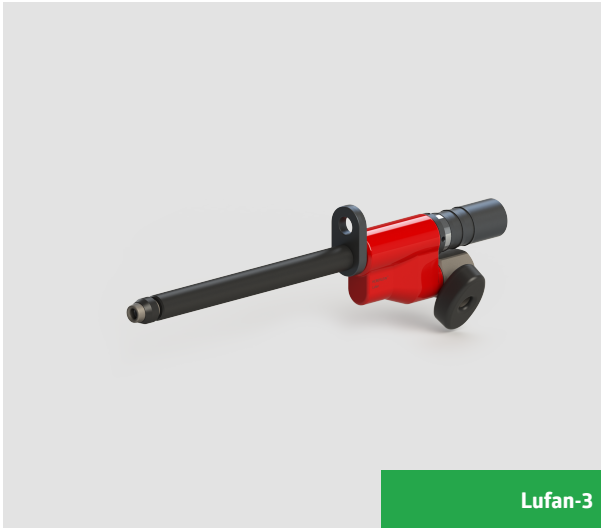
Aspirator



HEBERLEIN® Lufan-3.

High suction capacity and simple operation

The Lufan-3 is used for threading yarn on textile machines while they are operating. With products for the entire range of yarns and process parameters, our aspirators are in a class of their own. They stand out due to their low weight, extreme durability, and a remarkably powerful suction capacity.



Lufan-3

Yarn Threading

Due to the incredibly fast yarn speeds on the machines, threading performance and reliability are crucial elements and essential to successful operation.

Assortment

Lufan HS7-3, HS10-3

For high-speed spinning processes of up to 8,000 m/min.

Lufan LC7-3, LC10-3

For spinning processes of up to 5,000 m/min; low air consumption; also suitable for part-oriented yarns.

Lufan HS18-3

For the laying of fibre cables in staple fibre plants of up to 2,000 m/min.

Lufan TF15-3

For rovings, technical yarns, tapes, and mono-filaments of up to 2,000m/min (100,000 dtex at 350 m/min).

Features and Benefits

- Very high suction power
- Ergonomic, unbreakable valve
- Easy handling
- Impact-resistant mouthpiece
- A plastic-coated suction pipe prevents damage to the machines
- Long service life due to high-grade, wear-resistant materials
- Maximum operating speeds of up to 8,000 m/min
- Special handle material protects the operator's hands from the cold
- Replaceable mouthpiece depending on the application

HEBERLEIN® Lufan-3.

Technical Data

Performance values

Feature	HS7-3	LC7-3	HS10-3	HS10-3P	LC10-3	HS18-3	TF15-3
Suction power	★★★★	★★★	★★★★	★★★★★	★★★	★★★	★★★
Winding speed [m/min]	... 8000	... 5000	... 8000	... 8000	... 5000	... 2000	... 2000
Operating pressure [bar]	6 ... 14	5 ... 10	6 ... 14	6 ... 14	5 ... 10	7 ... 12	5 ... 10
Max. overpressure [bar]	20	15	20	20	15	20	15
Air consumption $q_{vn}^{1)}$ [m ³ /h]	58(p _e +1)	38(p _e +1)	58(p _e +1)	62(p _e +1)	38(p _e +1)	34(p _e +1)	28(p _e +1)
Yarn is rotated	yes	yes	yes	yes	yes	yes	no
Max. total count [dtex]	5000	5000	10000	10000	10000	100000	100000
Compressed air hose ²⁾							
Hose type (with metal spirals)	2TE	2TE	2TE	2TE	2TE	2TE	2TE
Nominal diameter (DN)	DN20	DN20	DN20	DN25	DN20	DN20	DN20
Nominal pressure (PN)	PN20	PN10	PN20	PN20	PN10	PN20	PN10
External thread	G1 1/4"	G3/4"	G1"	G1"	G3/4"	G1"	G3/4"
Internal thread	G1 1/4"	G1"	G1 1/4"	G1 1/4"	G1"	G1 1/4"	G1"
Max. length [m]	5	5	5	5	5	5	5
Exhaust hose ²⁾							
Hose type (with metal spirals)	2TE	2TE	2TE	2TE	2TE	2TE	2TE
Nominal diameter (DN)	DN30	DN30	DN30	DN40	DN30	DN30	DN24
Nominal pressure (PN)	PN20	PN10	PN20	PN20	PN10	PN20	PN10
Max. length [m]	5	5	5	5	5	5	5


1 Under standard conditions according to DIN 1343: temperature = 0 °C, pressure = 1.01325 bar, relative humidity = 0 %, 1 standard cubic metre = 1.293 kg (psi = 14.7 x bar, CFM = 0.588 x m³/h) p_e=overpressure [bar], q_{vn}=air consumption [m³/h]; losses were not allowed for in the air pressure system.

2 Hoses are not included in the delivery and must be procured from a hose specialist.

Count range

Type	Count range [dtex]
Textile Yarns	
HS7-3	22 - 330
LC7-3	330 - 3000
Technical & BCF yarns	
HS10-3	3000 - 9000
HS10-3P	3000 - 10000
LC10-3	3000 - 25000
Synthetic yarns in staple fibre plants	
HS18-3	3000 - 100000
Miscellaneous yarns, tapes, etc.	
TF15-3	3000 - 100000
	22 330 3000 6000 9000 10000 25000 70000 100000

 = Typical applications

 = Threshold

Compressed air requirements

- Max. overpressure:
 - HS: max. 20 bar
 - LC & TF: max. 15 bar
- Operating pressure:
 - HS : 6 ... 14 bar
 - HS18: 7 ... 12 bar
 - LC & TF: 5 ... 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
 - Pressure dew point + 7 °C

* Quality class according to DIN ISO 8573-1



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Subject to change without prior notice.

