

COBRA

Screw Vacuum Pump NC 2500 B



The COBRA NC 2500 B is the largest screw vacuum pump among these high-performance, robust vacuum generators for process technology, and it is being used wherever gases and vapours need to be pumped reliably and without contamination. Thanks to the dry screw technology, the compression chamber is completely free from operating fluids. This prevents condensation and deposits of the pumping medium and stops the medium from becoming contaminated with oil.

Operationally reliable

The asymmetrical screw profile and free gas discharge allow for a high degree of fluid and particle compatibility. Optimum corrosion resistance is ensured thanks to even temperature distribution. The outstanding levels of efficiency reduce the thermal demand and increase the life cycle.

Economical

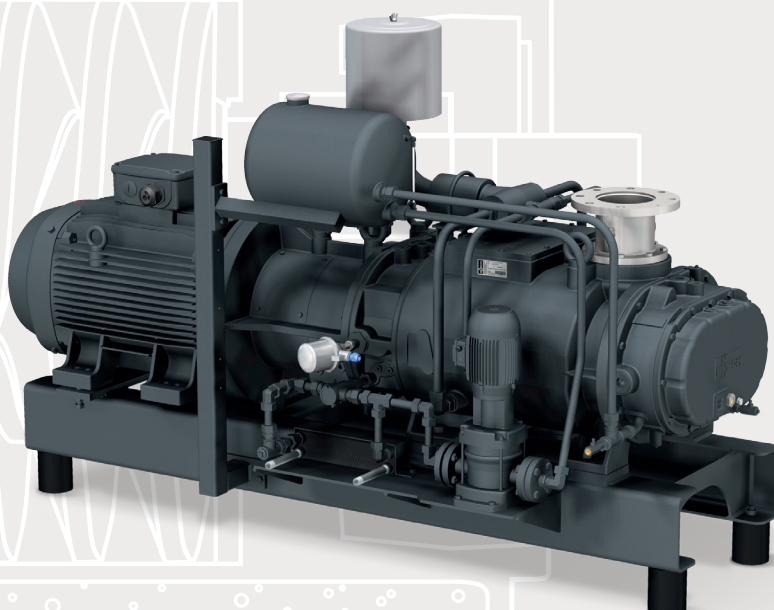
The COBRA NC 2500 B impresses through low energy consumption compared to other vacuum technologies with a similarly high suction capacity.

Application-oriented

The COBRA NC 2500 B screw vacuum pump is designed for applications that involve large flow rates of stable, non-reactive gases in the rough vacuum range, and is therefore particularly suited for steel degassing, space simulation, central vacuum supply or vacuum drying.



**COBRA NC 2500 B –
Dry and robust.
The vacuum technology
for processes involving
high gas flow in the
rough vacuum range.**



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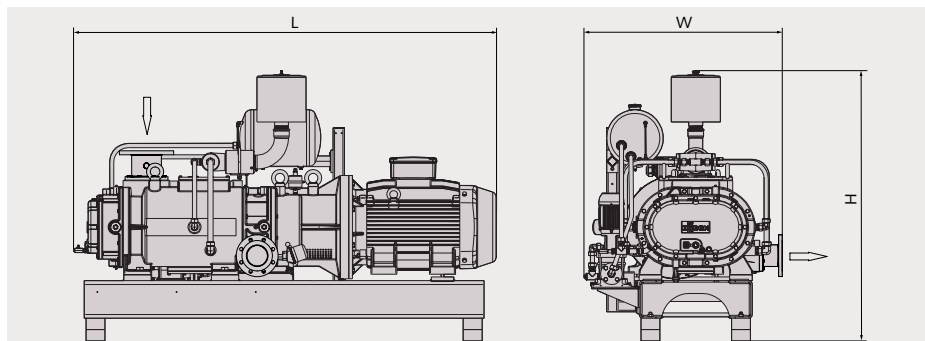
Technical specifications

The COBRA NC is a one-stage, twin-screw vacuum pump. Two screw rotors are rotating inside the cylinder. The pumping medium is trapped between the individual screw coils, compressed and transported to the gas discharge. During the compression process, the two screw rotors do not come into contact with each other nor with the cylinder. There is no need for an lubrication or an operating fluid in the compression chamber. Water cooling can take place in form of both direct water cooling or radiator cooling with air-cooled heat exchangers. Thanks to a wide range of technical options and accessories, COBRA NC screw vacuum pumps can be perfectly adjusted to suit every process. The complete series comprises seven sizes with nominal pumping speeds ranging from 100 up to 2,500 m³/h.

Accessories/technical options

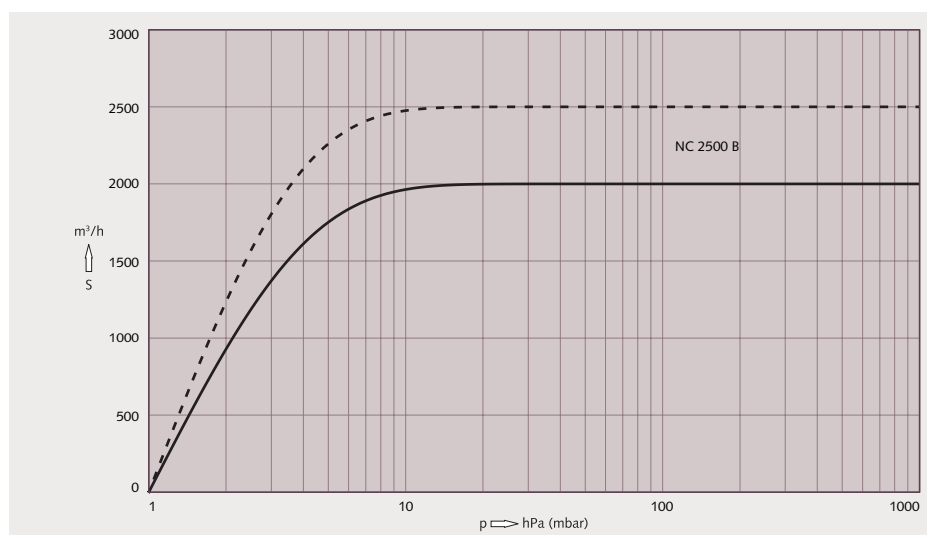
- Sealing gas supply
- Dilution gas supply
- Connection adapter to connect ASME flanges
- Exhaust gas silencer

COBRA NC 2500 B



Pumping speed

Air at 20 °C. Tolerance: ± 10% — 50 Hz - - - - 60 Hz



Technical Data		NC 2500 B	
Nominal pumping speed	50 Hz / 60 Hz	m ³ /h	2000 / 2500
Ultimate pressure	50 Hz / 60 Hz	hPa (mbar)	≤ 1.0
Nominal motor rating	50 Hz / 60 Hz	kW	55.0 / 63.0
Nominal motor speed	50 Hz / 60 Hz	min ⁻¹	3000 / 3600
Noise level (ISO 2151)	50 Hz / 60 Hz	dB(A)	82 / 84
Weight approx.		kg	2000
Dimensions	L x W x H	mm	2243 x 1053 x 1437
Gas inlet / outlet			DN 150 PN 16 / DN 100 PN 16

Busch Vacuum Kft.

Gyári út 23. | H-2310 Szigetszentmiklós | Phone +36 24 887 308 | busch@buschvacuum.hu | www.buschvacuum.hu

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Technical data is subject to change. Created in Germany 05/O