Screw vacuum pumps
for the Semiconductor Industry

COBRA BOB
BA 100

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Principle of operation
The COBRA single-stage screw vacuum pump takes advantage of the dry screw pump technology to maximize product uptime.
The advanced design allows for fewer moving parts, longer up-time between service, and lower nitrogen consumption than conventional multistage compression vacuum pumps.
The screw mechanism minimizes sliding areas inside the pump and thus has optimum restart capabilities.
The innovative screw design results in a lower energy consumption as compared to standard screw designs.
Using the indirect cooling principle the whole pump body is working at an uniform temperature level. There are no cold spots, and thus condensation is reduced to a minimum.
The COBRA BOB BA 100 is ideally suited for all harsh processes, that are found in the semiconductor industry of today and tomorrow.

High reliability
Due to the well proven twin screw design and the intelligent temperature management COBRA screw pumps are highly reliable even in the harshest applications in semiconductor processes and related applications.
This results in a high life expectancy.

Low cost of ownership
Long MTBF (Mean time between failure) and preventive maintenance free operation are the main reasons for a low cost of ownership.
Low utility consumption and the high reliability are responsible for lower production cost in the semiconductor industry.

Improved serviceability
A smaller number of parts with rotors made from one piece and the modular design result in lower costs for overhauls.

Tunable pump performance
The tunable pumping speed of the COBRA screw vacuum pumps allows for a flexible adaptation to changing process conditions.
COBRA vacuum pumps can be used as pressure control element and will save energy by running always at the optimum pumping speed.
The flexible programming of this feature allows for easy tool integration.

Advanced pump monitoring
COBRA vacuum pumps are well prepared for advanced monitoring, either at the pump directly or by the central monitoring system (CMS).
With the latest version of the CMS vacuum pumps as well as abatement systems, vacuum valves and pipe heaters can be monitored.

Air Cooled
The COBRA BOB BA 100 is an air cooled pump which does not require cooling water.

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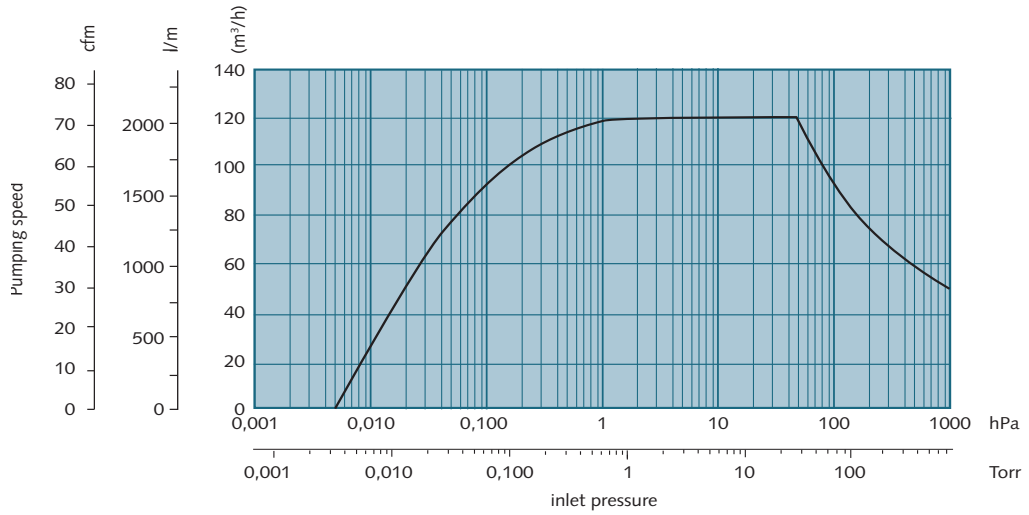
Technical data

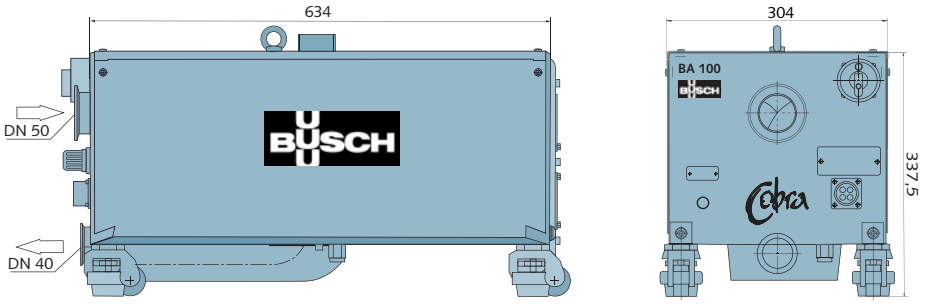
Pumping speed



Technical data		COBRA BOB BA 100	Technical data		COBRA BOB BA 100
Pumping speed	m^3/h l/min cfm	120 2000 70	Nitrogen* pressure	bar psi	1,5
Ultimate pressure	mTorr	0,01 7,5	Noise level	dB (A)	<58
Power consumption at ultimate pressure	kW	1,3	Weight	kg	118
Nitrogen* consumption	l/min	0 - 50	Ambient temperature	°C °F	0 - 40 32 - 104

*Nitrogen barrier/dilution optional

Dimensions



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Technical changes reserved

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