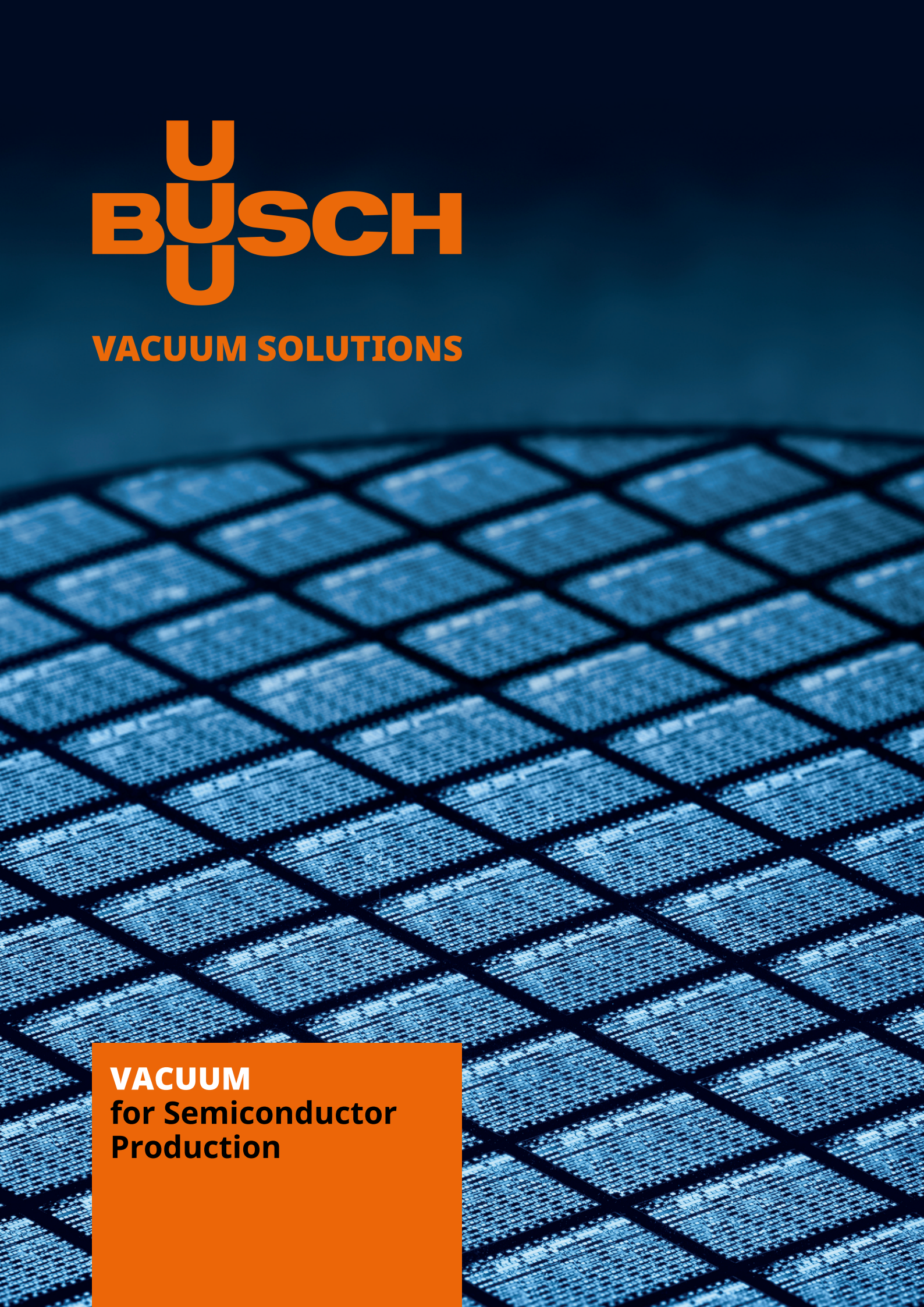
BUSCH

VACUUM SOLUTIONS



VACUUM
for Semiconductor Production

Your Partner.
For All Your Vacuum Needs.

The future of vacuum. Since 1963.
Busch Vacuum Solutions offers vacuum and overpressure solutions for all industries. From individual vacuum pumps, blowers, and compressors to tailor-made vacuum systems. More than 50 years ago, Dr.-Ing. Karl and Ayhan Busch developed the ideal vacuum pump for the food packaging industry. Today, the family business from Maulburg in the Black Forest is the market leader in all areas of industrial vacuum. With over 3500 employees in more than 40 countries. Thanks to our great experience and highly qualified specialists, we are driving innovation. And working on the vacuum world of the future.

Your local partner. For all vacuum needs in semicon applications.
The Busch Semiconductor Vacuum Group (SVG) was founded in 2001. As a dedicated service organization within the Busch Group to serve all needs of our semiconductor customers. Busch SVG is the leading full sub fab management supplier in Europe. With over 100 employees in the Netherlands, Austria and Germany, we ensure first-class service and vacuum pump overhaul. Busch SVG has two remanufacturing centers, one in Austria and one in the Netherlands. Allowing us to perform the overhaul of more than 2.000 vacuum pumps per year, including products from all leading OEMs. More than 70 employees are permanently based at customer sites. Providing leading edge on-site service and fast support. Wherever you are.

The trusted choice. For semiconductor manufacturing.
Reliable performance, predictable, with low cost of ownership. Vacuum solutions from Busch are the trusted choice. For all semiconductor applications. From load lock chambers to the harshest, particle-generating processes. We have provided leading semiconductor fabs worldwide with vacuum systems. And with single-source on-site support afterwards. Our vast experience. For your process.

Our extensive product portfolio draws on the widest range of vacuum and overpressure technologies.

Our extensive product portfolio is perfectly suited for all semiconductor process environments. Where high reliability, low cost of ownership and smart semiconductor tool communications are an absolute must.

The Perfect Solution.
For All Applications.

- **COBRA** Dry screw vacuum pumps
- **TORRI** Multi-stage rotary lobe vacuum pumps

	COBRA	TORRI
Light (load lock and transfer chambers, metrology, lithography)	●	●
Medium (PVD processes, PVD pre-clean, RTA, strip/ashing, oxide etch, silicon etch)	●	
Harsh (metal etch, implant source, HDP, CVD, RTP, epitaxy, SA CVD, MO CVD, PE CVD, LP CVD, ALD)	●	

● perfectly suited

◐ possible

COBRA BA 0100 C
Dry Screw Vacuum Pump

High performance
Advanced screw design, bell-shaped construction, patented self-balancing screws, excellent running qualities, perfectly suited for semiconductor and analytical applications, sterilization, freeze-drying, furnaces, thin film coating and gas recovery

Efficient
Low cost of ownership, minimal maintenance, long service intervals, high uptime, efficient air cooling

Compact
Fit-in-place design, directly mounted canned motor

	COBRA BA 0100 C
Nominal pumping speed	85 / 105 m^3/h (50 / 60 Hz)
Ultimate pressure	0.01 hPa (mbar) (50 / 60 Hz)
Nominal motor rating	1.5 / 1.8 kW (50 / 60 Hz)
Power consumption at ultimate pressure	1.1 / 1.25 kW (50 / 60 Hz)
Nominal motor speed	3000 / 3600 min^{-1} (50 / 60 Hz)
Noise level (ISO 2151)	58 dB(A) (50 / 60 Hz)
Nitrogen consumption	0 – 50 l/min
Weight approx.	120 kg
Dimensions (L x W x H)	634 x 304 x 338 mm
Gas inlet / outlet	DN 50 KF / DN 40 KF
Additional information	• Air cooling • Horizontal stainless steel silencer • Castor wheels with integrated silent blocks • Prefilled with PFPE oil

Accessories and spare parts – COBRA BA 0100 C

	COBRA BA 0100 C
Oil fill 0.12 l	0831800001
Non-return valve with DN 40 spring, SWPB material	0973800028

COBRA BC 0100/0200 F
Dry Screw Vacuum Pumps

High performance
Advanced screw design, bell-shaped construction, patented self-balancing screws, excellent running qualities, perfectly suited for tasks in load lock and transfer chambers, metrology, lithography, physical vapor deposition and rapid thermal annealing

Efficient
Low cost of ownership, minimal maintenance, long service intervals, high uptime, direct water cooling, idle mode capabilities

Compact
Fit-in-place design, directly mounted canned motor

	COBRA BC 0100 F	COBRA BC 0200 F
Nominal pumping speed	100 m^3/h	165 m^3/h
Ultimate pressure	0.01 hPa (mbar)	0.01 hPa (mbar)
Nominal motor rating	1.5 kW	2.9 kW
Power consumption at ultimate pressure / idle mode	1.3 kW	1.6 kW
Nominal motor speed	3600 min^{-1}	4570 min^{-1}
Noise level (ISO 2151)	58 dB(A)	60 dB(A)
Water consumption	min. 1.0 l/min	min. 2.0 l/min
Nitrogen consumption	0 – 50 l/min	0 – 50 l/min
Weight approx.	120 kg	130 kg
Dimensions (L x W x H)	829 x 304 x 362 mm	806 x 304 x 392 mm
Gas inlet / outlet	DN 50 KF / DN 40 KF	DN 50 KF / DN 40 KF

COBRA BC 0100/0200 F Premium Efficiency Dry Screw Vacuum Pumps

High performance
Advanced screw design, bell-shaped construction, patented self-balancing screws, excellent running qualities, perfectly suited for tasks in load lock and transfer chambers

Efficient
Latest Busch VacBoost technology, low cost of ownership, minimal maintenance, high uptime, direct water cooling, intelligent idle mode

Compact
Fit-in-place design, directly mounted canned motor

	COBRA BC 0100 F Premium Efficiency	COBRA BC 0200 F Premium Efficiency
Nominal pumping speed	115 m^3/h	175 m^3/h
Ultimate pressure	0.005 hPa (mbar)	0.005 hPa (mbar)
Nominal motor rating	1.8 kW	2.9 kW
Power consumption at ultimate pressure / idle mode	0.55 / 0.4 kW	0.7 / 0.5 kW
Nominal motor speed	3600 min^{-1}	4570 min^{-1}
Noise level (ISO 2151)	58 dB(A)	60 dB(A)
Water consumption	1.0 l/min	2.0 l/min
Compressed dry air consumption	25 l/min	25 l/min
Weight approx.	120 kg	130 kg
Dimensions (L x W x H)	829 x 304 x 362 mm	806 x 304 x 392 mm
Gas inlet / outlet	DN 50 KF / DN 40 KF	DN 50 KF / DN 40 KF

COBRA BC 0101 F Premium Efficiency Dry Screw Vacuum Pump

High performance
Advanced screw design, bell-shaped construction, patented self-balancing screws, excellent running qualities, perfectly suited for tasks in load lock and transfer chambers

Efficient
Latest Busch VacBoost technology, low cost of ownership, minimal maintenance, high uptime, direct water cooling, intelligent idle mode

Compact
Fit-in-place design, directly mounted canned motor

	COBRA BC 0101 F Premium Efficiency
Nominal pumping speed	95 / 115 m^3/h (50 / 60 Hz)
Ultimate pressure	0.005 hPa (mbar) (50 / 60 Hz)
Nominal motor rating	1.5 / 1.8 kW (50 / 60 Hz)
Power consumption at ultimate pressure	0.45 / 0.55 kW (50 / 60 Hz)
Nominal motor speed	3000 / 3600 min^{-1} (50 / 60 Hz)
Noise level (ISO 2151)	58 dB(A) (50 / 60 Hz)
Water consumption	1.0 l/min
Compressed dry air consumption	25 l/min
Weight approx.	115 kg
Dimensions (L x W x H)	777 x 304 x 362 mm
Gas inlet / outlet	DN 50 KF / DN 40 KF

COBRA BC 0101 G
Dry Screw Vacuum Pump

High performance
Advanced screw design, bell-shaped construction, patented self-balancing screws, excellent running qualities, perfectly suited for tasks in load lock and transfer chambers, metrology, lithography, physical vapor deposition and rapid thermal annealing

Efficient
Intelligent variable speed drive, low cost of ownership, minimal maintenance, high uptime, direct water cooling

Compact
Fit-in-place design, directly mounted canned motor, integrated control panel

	COBRA BC 0101 G
Nominal pumping speed	100 m^3/h
Ultimate pressure	0.01 hPa (mbar)
Nominal motor rating	1.8 kW
Power consumption at ultimate pressure	1.1 kW
Nominal motor speed	3600 min^{-1}
Noise level (ISO 2151)	58 dB(A)
Water consumption	1.0 l/min
Weight approx.	115 kg
Dimensions (L x W x H)	520 x 300 x 340 mm
Gas inlet / outlet	DN 50 KF / DN 40 KF

COBRA BC 0600 F
Dry Screw Vacuum Pump

High performance
Advanced screw design, bell-shaped construction, patented self-balancing screws, excellent running qualities, integrated vacuum booster, perfectly suited for tasks in load lock and transfer chambers, metrology, lithography, physical vapor deposition and rapid thermal annealing

Efficient
Low cost of ownership, minimal maintenance, long service intervals, high uptime, direct water cooling

Compact
Fit-in-place design, directly mounted canned motor

	COBRA BC 0600 F
Nominal pumping speed	520 / 620 m^3/h (50 / 60 Hz)
Ultimate pressure	0.003 hPa (mbar) (50 / 60 Hz)
Nominal motor rating backing pump	1.5 / 1.8 kW (50 / 60 Hz)
Nominal motor rating vacuum booster	4.0 / 4.4 kW (50 / 60 Hz)
Power consumption at ultimate pressure / idle mode	2.1 / 1.1 / 2.2 / 1.3 kW (50 / 60 Hz)
Nominal motor speed backing pump	3000 / 3600 min^{-1} (50 / 60 Hz)
Nominal motor speed vacuum booster	3000 / 3600 min^{-1} (50 / 60 Hz)
Noise level (ISO 2151)	62 dB(A) (50 / 60 Hz)
Water consumption	3.0 l/min
Nitrogen consumption	0 – 50 l/min
Weight approx.	315 kg
Dimensions (L x W x H)	933 x 354 x 694 mm
Gas inlet / outlet	DN 63 ISO–K / DN 40 ISO–KF

COBRA BC 0600 F Premium Efficiency Dry Screw Vacuum Pump

High performance
Advanced screw design, bell-shaped construction, patented self-balancing screws, excellent running qualities, integrated vacuum booster, perfectly suited for tasks in load lock and transfer chambers

Efficient
Latest Busch VacBoost technology, low cost of ownership, minimal maintenance, high uptime, direct water cooling, intelligent idle mode

Compact
Fit-in-place design, directly mounted canned motor

	COBRA BC 0600 F Premium Efficiency
Nominal pumping speed	530 / 635 m^3/h (50 / 60 Hz)
Ultimate pressure	0.001 hPa (mbar) (50 / 60 Hz)
Nominal motor rating backing pump	1.5 / 1.8 kW (50 / 60 Hz)
Nominal motor rating vacuum booster	4.0 / 4.4 kW (50 / 60 Hz)
Power consumption at ultimate pressure / idle mode	1.3 / 0.45 / 1.4 / 0.55 kW (50 / 60 Hz)
Nominal motor speed backing pump	3000 / 3600 min^{-1} (50 / 60 Hz)
Nominal motor speed vacuum booster	3000 / 3600 min^{-1} (50 / 60 Hz)
Noise level (ISO 2151)	62 dB(A) (50 / 60 Hz)
Water consumption	3.0 l/min
Compressed dry air consumption	25 l/min
Weight approx.	315 kg
Dimensions (L x W x H)	933 x 354 x 694 mm
Gas inlet / outlet	DN 63 ISO–K / DN 40 ISO–KF

COBRA BC 1000 F Premium Efficiency Dry Screw Vacuum Pump

High performance
Advanced screw design, bell-shaped construction, patented self-balancing screws, excellent running qualities, integrated vacuum booster, perfectly suited for tasks in load lock and transfer chambers

Efficient
Latest Busch VacBoost technology, low cost of ownership, minimal maintenance, high uptime, direct water cooling, intelligent idle mode

Compact
Fit-in-place design, directly mounted canned motor

	COBRA BC 1000 F Premium Efficiency
Nominal pumping speed	955 m^3/h
Ultimate pressure	0.001 hPa (mbar)
Nominal motor rating backing pump	1.8 kW
Nominal motor rating vacuum booster	2.9 kW
Power consumption at ultimate pressure / idle mode	1.5 / 0.4 kW
Nominal motor speed backing pump	3600 min^{-1}
Nominal motor speed vacuum booster	5400 min^{-1}
Noise level (ISO 2151)	62 dB(A)
Water consumption	3.0 l/min
Compressed dry air consumption	25 l/min
Weight approx.	310 kg
Dimensions (L x W x H)	1054 x 425 x 615 mm
Gas inlet / outlet	DN 100 ISO–K / DN 40 ISO–KF

COBRA BC 1000/2000 F
Dry Screw Vacuum Pumps

High performance
Advanced screw design, bell-shaped construction, patented self-balancing screws, excellent running qualities, integrated vacuum booster, perfectly suited for load lock and transfer chambers, metrology, lithography, physical vapor deposition and rapid thermal annealing

Efficient
Low cost of ownership, minimal maintenance, long service intervals, high uptime, direct water cooling

Compact
Fit-in-place design, directly mounted canned motor, backing pump and vacuum booster combined on a compact base frame

	COBRA BC 1000 F	COBRA BC 2000 F
Nominal pumping speed	930 m^3/h	1580 m^3/h
Ultimate pressure	0.003 hPa (mbar)	0.003 hPa (mbar)
Nominal motor rating backing pump	1.5 kW	2.9 kW
Nominal motor rating vacuum booster	2.9 kW	4.0 kW
Power consumption at ultimate pressure / idle mode	2.1 / 1.5 kW	3.0 / 1.9 kW
Nominal motor speed backing pump	3000 min^{-1}	4800 min^{-1}
Nominal motor speed vacuum booster	5400 min^{-1}	5400 min^{-1}
Noise level (ISO 2151)	62 dB(A)	62 dB(A)
Water consumption	3.0 l/min	3.0 l/min
Nitrogen consumption	0 – 50 l/min	0 – 50 l/min
Weight approx.	310 kg	360 kg
Dimensions (L x W x H)	1054 x 425 x 615 mm	1054 x 425 x 615 mm
Gas inlet / outlet	DN 100 ISO–K / DN 40 ISO–KF	DN 160 ISO–K / DN 40 ISO–KF

COBRA DS 0080/0160 G
Dry Screw Vacuum Pumps

High performance
Advanced screw design, excellent running qualities, perfectly suited for chemical vapor deposition, rapid thermal processing or atomic layer deposition

Efficient
Low cost of ownership, minimal maintenance, long service intervals, high uptime, efficient indirect water cooling, high hydrogen throughput

Compact
Fit-in-place design, directly mounted canned motor

	COBRA DS 0080 G	COBRA DS 0160 G
Nominal pumping speed	70 / 85 m^3/h (50 / 60 Hz)	140 / 160 m^3/h (50 / 60 Hz)
Ultimate pressure	0.03 hPa (mbar) (50 / 60 Hz)	0.03 hPa (mbar) (50 / 60 Hz)
Nominal motor rating	4.0 / 4.4 kW (50 / 60 Hz)	5.5 / 6.6 kW (50 / 60 Hz)
Power consumption at ultimate pressure	2.6 / 3.2 kW (50 / 60 Hz)	4.3 / 5.2 kW (50 / 60 Hz)
Nominal motor speed	3000 / 3600 min^{-1} (50 / 60 Hz)	3000 / 3600 min^{-1} (50 / 60 Hz)
Noise level (ISO 2151)	< 62 dB(A) (50 / 60 Hz)	< 68 dB(A) (50 / 60 Hz)
Water consumption	4.0 l/min (50 / 60 Hz)	4.0 l/min (50 / 60 Hz)
Nitrogen consumption	0 – 75 l/min (50 / 60 Hz)	0 – 75 l/min (50 / 60 Hz)
Weight approx.	276 kg	338 kg
Dimensions (L x W x H)	865 x 385 x 667 mm	975 x 425 x 697 mm
Gas inlet / outlet	DN 40 / DN 40	DN 50 / DN 40

COBRA DS 0600 E
Dry Screw Vacuum Pump

High performance
Advanced screw design, excellent running qualities, perfectly suited for chemical vapor deposition, rapid thermal processing or atomic layer deposition

Efficient
Low cost of ownership, minimal maintenance, long service intervals, high uptime, efficient indirect water cooling, high hydrogen throughput

Compact
Fit-in-place design, directly mounted canned motor

	COBRA DS 0600 E
Nominal pumping speed	600 m^3/h (50 / 60 Hz)
Ultimate pressure	0.01 hPa (mbar) (50 / 60 Hz)
Nominal motor rating	15 kW (50 / 60 Hz)
Power consumption at ultimate pressure	9 kW (50 / 60 Hz)
Nominal motor speed	3600 min^{-1} (50 / 60 Hz)
Noise level (ISO 2151)	< 70 dB(A) (50 / 60 Hz)
Water consumption	min. 6 l/min (50 / 60 Hz)
Nitrogen consumption	0 – 200 l/min (50 / 60 Hz)
Weight approx.	745 kg
Dimensions (L x W x H)	1654 x 600 x 747 mm
Gas inlet / outlet	DN 100 / DN 63

COBRA DS 0700–2000 G
Dry Screw Vacuum Pumps

High performance
Advanced screw design, excellent running qualities, integrated vacuum booster, perfectly suited for chemical vapor deposition, rapid thermal processing or atomic layer deposition

Efficient
Low cost of ownership, minimal maintenance, long service intervals, high uptime, efficient indirect water cooling, high hydrogen throughput

Compact
Fit-in-place design, directly mounted canned motor, backing pump and vacuum booster combined on a compact base frame

	COBRA DS 0700 G	COBRA DS 1000 G	COBRA DS 2000 G
Nominal pumping speed	500 / 610 m^3/h (50 / 60 Hz)	775 / 960 m^3/h (50 / 60 Hz)	1365 / 1640 m^3/h (50 / 60 Hz)
Ultimate pressure	0.003 hPa (mbar) (50 / 60 Hz)	0.003 hPa (mbar) (50 / 60 Hz)	0.003 hPa (mbar) (50 / 60 Hz)
Nominal motor rating backing pump	4.0 / 4.4 kW (50 / 60 Hz)	4.0 / 4.4 kW (50 / 60 Hz)	5.5 / 6.6 kW (50 / 60 Hz)
Nominal motor rating vacuum booster	4.0 / 4.4 kW (50 / 60 Hz)	4.0 / 4.4 kW (50 / 60 Hz)	5.5 / 6.6 kW (50 / 60 Hz)
Power consumption at ultimate pressure / idle mode	3.0 / 3.6 kW (50 / 60 Hz)	3.3 / 4.0 kW (50 / 60 Hz)	5.6 / 6.8 kW (50 / 60 Hz)
Nominal motor speed backing pump	3000 / 3600 min^{-1} (50 / 60 Hz)	3000 / 3600 min^{-1} (50 / 60 Hz)	3000 / 3600 min^{-1} (50 / 60 Hz)
Nominal motor speed vacuum booster	3000 / 3600 min^{-1} (50 / 60 Hz)	3000 / 3600 min^{-1} (50 / 60 Hz)	3000 / 3600 min^{-1} (50 / 60 Hz)
Noise level (ISO 2151)	< 62 dB(A) (50 / 60 Hz)	< 62 dB(A) (50 / 60 Hz)	< 68 dB(A) (50 / 60 Hz)
Water consumption	5.0 l/min	5.0 l/min	5.0 l/min
Nitrogen consumption	0 – 75 l/min	0 – 75 l/min	0 – 75 l/min
Weight approx.	445 kg	576 kg	668 kg
Dimensions (L x W x H)	865 x 385 x 917 mm	1034 x 425 x 1017 mm	1063 x 465 x 1069 mm
Gas inlet / outlet	DN 63 / DN 40	DN 100 / DN 40	DN 160 / DN 40

COBRA DS 2610–3161 A/E
Dry Screw Vacuum Pumps

High performance
Advanced screw design, excellent running qualities, integrated vacuum booster, perfectly suited for chemical vapor deposition, rapid thermal processing or atomic layer deposition

Efficient
Low cost of ownership, minimal maintenance, long service intervals, high uptime, efficient indirect water cooling, high hydrogen throughput

Compact
Fit-in-place design, directly mounted canned motor, backing pump and vacuum booster combined on a compact base frame

	COBRA DS 2610 E	COBRA DS 3010 E	COBRA DS 3161 A
Nominal pumping speed	1830 / 2130 m^3/h (50 / 60 Hz)	3200 m^3/h (50 / 60 Hz)	3200 m^3/h (50 / 60 Hz)
Ultimate pressure	0.001 hPa (mbar) (50 / 60 Hz)	0.001 hPa (mbar) (50 / 60 Hz)	0.001 hPa (mbar) (50 / 60 Hz)
Nominal motor rating backing pump	15 kW (50 / 60 Hz)	15 kW (50 / 60 Hz)	15 kW (50 / 60 Hz)
Nominal motor rating vacuum booster	5.5 / 6.6 kW (50 / 60 Hz)	15 kW (50 / 60 Hz)	15 kW (50 / 60 Hz)
Power consumption at ultimate pressure / idle mode	10 / 11 kW (50 / 60 Hz)	11.8 / 9.9 kW (50 / 60 Hz)	11.8 / 9.9 kW (50 / 60 Hz)
Nominal motor speed backing pump	3600 min^{-1} (50 / 60 Hz)	3600 min^{-1} (50 / 60 Hz)	3600 min^{-1} (50 / 60 Hz)
Nominal motor speed vacuum booster	3600 min^{-1} (50 / 60 Hz)	5400 min^{-1} (50 / 60 Hz)	5400 min^{-1} (50 / 60 Hz)
Noise level (ISO 2151)	< 75 dB(A) (50 / 60 Hz)	< 75 dB(A) (50 / 60 Hz)	< 75 dB(A) (50 / 60 Hz)
Water consumption	min. 10 l/min	min. 10 l/min	min. 10 l/min
Nitrogen consumption	0 – 200 l/min (50 / 60 Hz)	0 – 200 l/min (50 / 60 Hz)	0 – 200 l/min (50 / 60 Hz)
Weight approx.	1300 kg	1380 kg	1360 kg
Dimensions (L x W x H)	1420 x 722 x 1525 mm	1420 x 722 x 1525 mm	1316 x 627 x 1310 mm
Gas inlet / outlet	DN 160 / DN 63	DN 160 / DN 63	DN 160 / DN 63

COBRA DS 5161/9161 A
Dry Screw Vacuum Pumps

High performance
Advanced screw design, excellent running qualities, integrated vacuum booster, perfectly suited for chemical vapor deposition, rapid thermal processing or atomic layer deposition

Efficient
Low cost of ownership, minimal maintenance, long service intervals, high uptime, efficient indirect water cooling, high hydrogen throughput

Compact
Fit-in-place design, directly mounted canned motor, backing pump and vacuum booster combined on a compact base frame

	COBRA DS 5161 A	COBRA DS 9161 A
Nominal pumping speed	4300 m^3/h (50 / 60 Hz)	6160 m^3/h (50 / 60 Hz)
Ultimate pressure	0.001 hPa (mbar) (50 / 60 Hz)	0.001 hPa (mbar) (50 / 60 Hz)
Nominal motor rating backing pump	15 kW (50 / 60 Hz)	15 kW (50 / 60 Hz)
Nominal motor rating vacuum booster	15 kW (50 / 60 Hz)	20 kW (50 / 60 Hz)
Power consumption at ultimate pressure / idle mode	12.5 / 10 kW (50 / 60 Hz)	13 / 11 kW (50 / 60 Hz)
Nominal motor speed backing pump	3600 min^{-1} (50 / 60 Hz)	3600 min^{-1} (50 / 60 Hz)
Nominal motor speed vacuum booster	3600 min^{-1} (50 / 60 Hz)	3600 min^{-1} (50 / 60 Hz)
Noise level (ISO 2151)	< 75 dB(A) (50 / 60 Hz)	< 75 dB(A) (50 / 60 Hz)
Water consumption	min. 12 l/min	min. 13 l/min
Nitrogen consumption	0 – 200 l/min	0 – 200 l/min
Weight approx.	1440 kg	1800 kg
Dimensions (L x W x H)	1550 x 723 x 1504 mm	1572 x 810 x 1860 mm
Gas inlet / outlet	DN 250 / DN 63	DN 200 / DN 63

TORRI BD 0100 A
Multi-Stage Rotary Lobe Vacuum Pump

Flexible
Shortest pump-down time for load lock chambers

Efficient
Extremely low energy consumption, minimal maintenance, high uptime

Compact
Exceptionally small and light-weight

	TORRI BD 0100 A
Nominal pumping speed	100 m^3/h
Ultimate pressure	0.01 hPa (mbar)
Nominal motor rating backing pump	2.2 kW
Nominal motor speed backing pump	5500 min^{-1}
Power consumption at ultimate pressure	0.4 kW
Noise level (ISO 2151)	< 60 dB(A)
Water consumption	1.0 l/min
Weight approx.	60 kg
Dimensions (L x W x H)	450 x 230 x 275 mm
Gas inlet / outlet	DN 50 KF / DN 25 KF

Accessories and spare parts – TORRI BD 0100 A

	TORRI BD 0100 A
Top housing	0240 800 002
Bottom housing	0240 800 003
End plate, low pressure side	0240 800 004
End plate, high pressure side	0240 800 005
Permanent magnet motor stator, three-phase 220V	0210 800 004
Permanent magnet motor rotor	0210 800 001
Driving gear (motor shaft side) "X"	0517 800 001
Driven gear "Y"	0517 800 002
Driving rotor (motor shaft side) "X"	0210 800 002
Driven rotor "Y"	0210 800 003
Permanent magnet motor stator, three-phase 380V	0210 800 005
Power supply, 220V	0985 800 598
Power supply, 380V	0858 800 599
Water flow meter	0657 800 025
Horizontal silencer	0930 800 109
Ball check valve, FKM φ25	0730 800 004
Special overhaul tool kit	0947 800 086

Busch vacuum pumps are operated at leading semiconductor fabs. And are renowned for their reliability. The result of many years of listening to the needs of our semiconductor partners. And their process requirements.

Award-Winning On-Site Service. For Your Fab.

Busch has one of the largest product portfolios for semiconductor applications. Offering all from one hand: medium to high vacuum solutions, gas abatement systems and remanufacturing services.

Leading full sub fab management. For your peace of mind.
We can give you the peace of mind you need to focus on the main purpose of a semiconductor fab: the production of state-of-the-art microchips. Busch SVG has highly experienced on-site service teams. Helping you to keep your vacuum and abatement systems up and running. Thus, ensuring a safe and stable production environment. We can offer a full sub fab management concept, or any on-site service solution tailored to your specific requirements. To support you the way you need it.

European market leader. For on-site service solutions.
Busch SVG is the European market leader for on-site service solutions. Every day, our customers benefit from our extensive knowledge and experience. All our on-site service teams are certified according to ISO9001:2016, ISO14001:2016, ISO45001:2018 standards. Ensuring first-class support.

Busch Semiconductor Vacuum Group. Always Near You.

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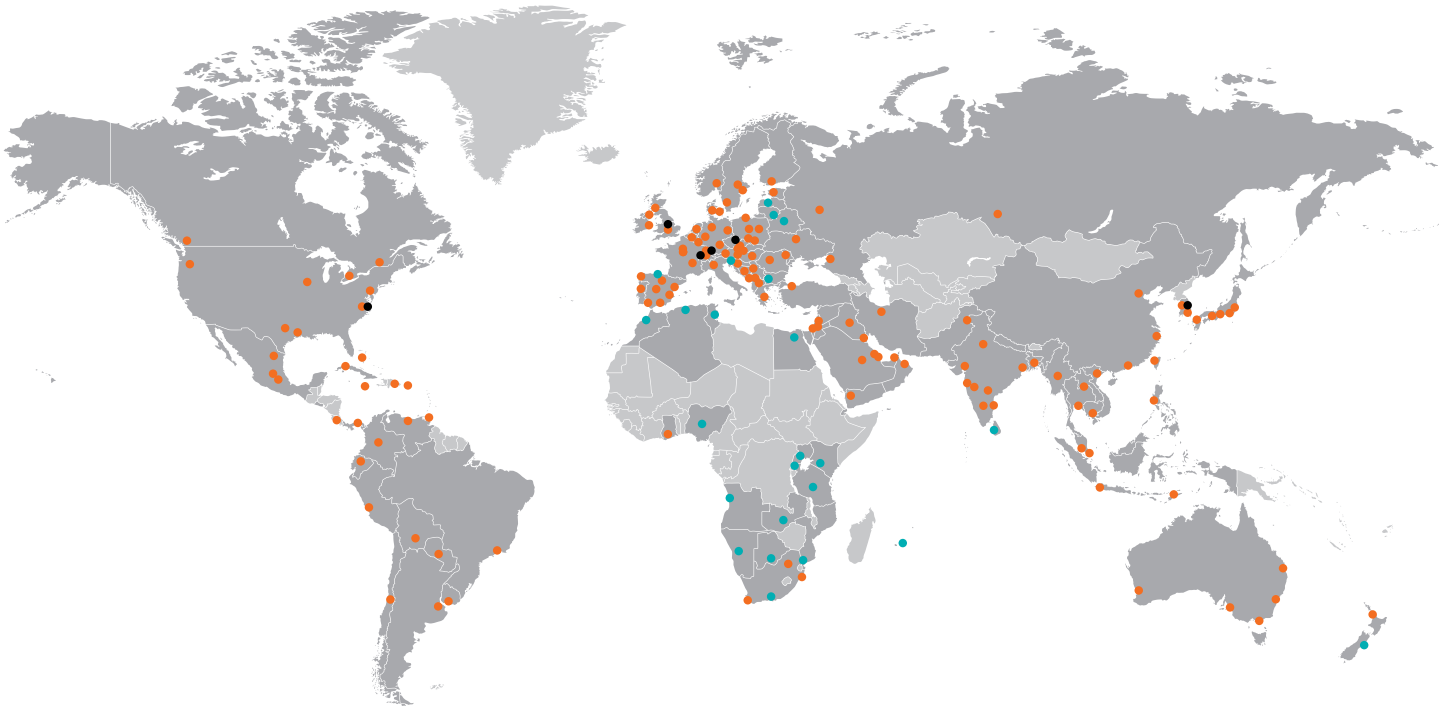
Get in touch with us directly!

Busch
Vacuum Solutions

With a network of over 60 companies in more than 40 countries and agencies worldwide, Busch has a global presence. In every country, highly competent local personnel delivers custom-tailored support. Backed by a global network of expertise. Wherever you are. Whatever your business. We are there for you.



Busch companies and Busch employees Local representatives and distributors Busch production sites

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