Busch Vacuum Pump Catalogue Overview

All main Busch vacuum pump series on one page: technology, ultimate pressure, pumping speed and typical applications, with links to the official product pages.

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Series	Technology	Lubrication	Ultimate pressure	Pumping speed	Applications
R5	Rotary vane	Oil-lubricated	0.1 – 2 hPa (mbar), depending on series (RA 0.1–0.3; RD 0.1–0.5; RE 0.5–1.0; KB/KD/PB/RB/RC 2.0)	3 – 1,800 m³/h	Vacuum packaging, food processing, pneumatic conveying, plastics processing
SECO	Rotary vane	Dry-running	100 – 150 hPa (mbar)	See product leaflet for the model	Industrial applications needing fast, clean vacuum or compressed air
MINK	Claw	Dry (no oil in the pumping chamber)	0.8 – 150 hPa (mbar), depending on series (MW 0.8; MV 0040–0080 D 40; MV 0310 B 150)	See product leaflet for the model	Woodworking clamping, drying, handling and lifting; pneumatic conveying
COBRA	Screw	Dry	0.01 – 1 hPa (mbar) (COBRA Industry)	110 – 2,500 m³/h (COBRA Industry)	Industrial processes extracting gases and vapours
PANDA / PUMA	Roots booster	Dry pumping chamber	Depends on the backing pump	250 – 9,535 m³/h (50 Hz); 300 – 11,675 m³/h (60 Hz)	Boosting the speed of a backing pump in the medium vacuum range
DOLPHIN	Liquid ring	Liquid ring (operating liquid, usually water)	33 – 160 hPa (mbar), depending on series	See product leaflet for the model	Single- or two-stage pumps for all industrial sectors

Official product leaflets and manuals

Busch publishes product leaflets (PDF) with technical data for its models, and instruction manuals that contain the complete parts list. Both are linked in the downloads section of each product page; the manuals page explains how to search for them.

- https://www.buschvacuum.com/us/en/products/manuals/
- https://www.buschvacuum.com/us/en/products/parts-finder/

Choosing a technology

Oil-lubricated rotary vane (R5) for packaging and general rough vacuum; dry claw (MINK) and dry rotary vane (SECO) where oil-free air is needed; dry screw (COBRA) for process gases and vapours; liquid ring (DOLPHIN) for wet or dirty gas; Roots boosters (PANDA/PUMA) to multiply the speed of a backing pump.

Independent explanations of every pump type, with animations and calculators:
https://vacuumpumps.xyz/resources/vacuum-pump-types/