

# COBRA DS 3010/3161 C/G

Dry screw vacuum pumps



**VACUUM SOLUTIONS**

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## 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

Accessories, spare parts and options

- Optional powder process version available (only for DS 3010 G and DS 3161 C)
- Optional tantal coating

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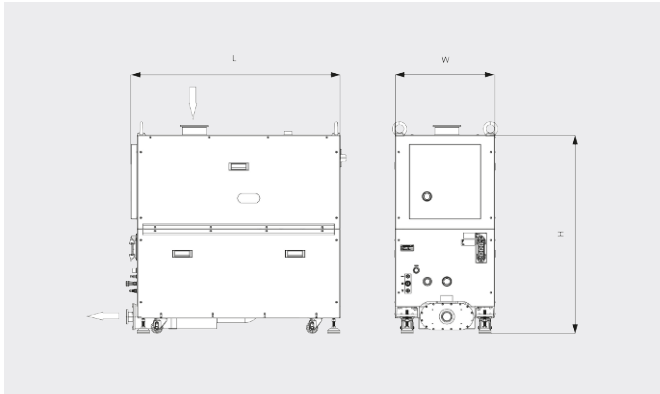
Dry screw vacuum pumps



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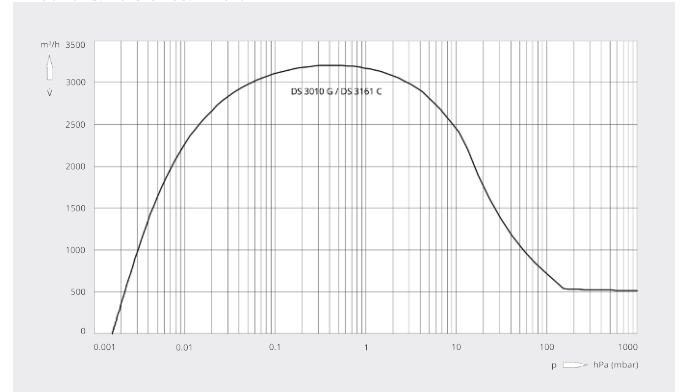
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Dimensional drawing



Pumping speed

Air at 20°C. Tolerance:  $\pm 10\%$



|                                                    | COBRA DS 3010 G        | COBRA DS 3161 C        |
|----------------------------------------------------|------------------------|------------------------|
| Nominal pumping speed                              | 3200 m³/h              | 3200 m³/h              |
| Ultimate pressure                                  | 0.001 hPa (mbar)       | 0.001 hPa (mbar)       |
| Nominal motor rating backing pump                  | 15 kW                  | 15 kW                  |
| Nominal motor rating vacuum booster                | 15 kW                  | 15 kW                  |
| Power consumption at ultimate pressure / idle mode | 11.8 / 9.9 kW          | 11.8 / 9.9 kW          |
| Nominal motor speed backing pump                   | 3600 min <sup>-1</sup> | 3600 min <sup>-1</sup> |
| Nominal motor speed vacuum booster                 | 5400 min <sup>-1</sup> | 5400 min <sup>-1</sup> |
| Sound pressure level (ISO 2151), KpA = 3 dB        | < 75 dB(A)             | < 75 dB(A)             |
| Water consumption                                  | min. 10 l/min          | min. 10 l/min          |
| Nitrogen consumption                               | 0 – 200 l/min          | 0 – 200 l/min          |
| Weight approx.                                     | 1500 kg                | 1375 kg                |
| Dimensions (L x W x H)                             | 1420 x 722 x 1452 mm   | 1316 x 633 x 1249 mm   |
| Gas inlet / outlet                                 | DN 160 / DN 63         | DN 160 / DN 63         |

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