

COBRA

Screw Vacuum Pumps NC ATEX



- › **Advanced Screw Design**
- › **Explosion-Proof:**
ATEX certified
- › **Efficient:**
low energy consumption,
minimal maintenance,
minimized operating costs
- › **Robust:**
high vapour and particle
tolerance, self-draining
- › **High Performance:**
high pumping speed at all
inlet pressures
- › **Flexible:**
water or air cooling and
various sealing and coating
configurations available

The COBRA NC is a series of high-performance and robust dry screw vacuum pumps for demanding applications with maximum flexibility and modularity for process changes. The different ATEX versions are designed according to the EU directive 2014/34/EU relating to explosive atmospheres making them suitable for transporting explosive gases and vapours or operation in explosion hazard areas. Each model is available with different ATEX certifications to perfectly suit any requirement. Flame arresters may also be integrated if necessary.

These vacuum generators are in use wherever gases and vapours need to be pumped reliably. The proven, completely dry screw vacuum technology allows the COBRA NC to run without operating fluids in the compression chamber. In practice this means no contamination of the pumped medium, and no environmental emissions. In addition, no costs arise for

the purchase, replacement and disposal of operating fluids. Maintenance tasks such as oil changes or filter replacement are no longer required or are reduced to a minimum.

Vacuum pumps of the COBRA NC series are robust, extremely reliable and highly efficient – and the most advanced screw vacuum pumps on the market today. They operate efficiently throughout their vacuum range, and deliver constantly high pumping speeds. COBRA NC dry screw vacuum pumps feature dry compression, a specially developed screw profile, and unimpeded gas discharge. The result is a high degree of vapour and particle tolerance. Their design guarantees an even heat distribution over the whole pump stage, reducing thermal stress and increasing service life.

The screws are manufactured from a single-piece casting avoiding any gaps, making the ingress of process fluids or particles impossible, and thereby preventing corrosion.

**COBRA NC ATEX – for safe operation
in explosion hazard areas.**



COBRA NC 0600 C

COBRA

Screw Vacuum Pumps NC ATEX



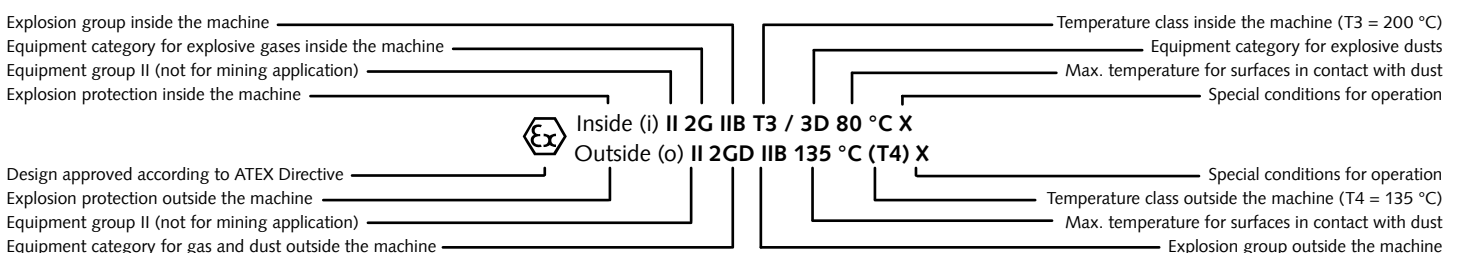
Vacuum pump	Category		Explosion group		Temperature class		ATEX classification of vacuum pump
	Inside	Outside	Inside	Outside	Inside	Outside	
COBRA NC 0100 B	1G	2G	IIB3	IIB, IIC	T4	T4	Ex II inside: 1G IIB3 T4 / outside: 2G IIB, IIC T4
	2G		IIB		T3, T4	T3, T4	Ex II inside: 2G IIB T3, T4 / outside: 2G IIB, IIC T3, T4
	2G	2G	IIC	IIC	T3, T4	T3, T4	Ex II inside: 2G IIC T3, T4 / outside: 2G IIC T3, T4
	2G	none	IIB	none	T3, T4	none	Ex II inside: 2G IIC T3, T4 / outside: No ATEX Zone
	3G	3G	IIC	IIB, IIC	T3, T4	T3, T4	Ex II inside: 3G IIC T3, T4 / outside: 3G IIB, IIC T3, T4
COBRA NC 0200 B COBRA NC 0300 B	1G	2G	IIB3	IIB, IIC	T3, T4	T3, T4	Ex II inside: 1G IIB3 T3, T4 / outside: 2G IIB, IIC T3, T4
	2G		IIB		T3, T4	T3, T4	Ex II inside: 2G IIB T3, T4 / outside: 2G IIB, IIC T3, T4
	2G	2G	IIC	IIC	T3, T4	T3, T4	Ex II inside: 2G IIC T3, T4 / outside: 2G IIC T3, T4
	2G	none	IIB	none	T3, T4	none	Ex II inside: 2G IIC T3, T4 / outside: No ATEX Zone
	3G	3G	IIC	IIB, IIC	T3, T4	T3, T4	Ex II inside: 3G IIC T3, T4 / outside: 3G IIB, IIC T3, T4
COBRA NC 0400 B	1G	2G	IIB3	IIB, IIC	T3	T3	Ex II inside: 1G IIB3 T3 / outside: 2G IIB, IIC T3
	2G		IIB				Ex II inside: 2G IIB T3 / outside: 2G IIB, IIC T3
	2G	none	IIB	none	T3	none	Ex II inside: 2G IIB T3 / outside: No ATEX Zone
	3G	3G	IIC	IIB, IIC	T3	T3	Ex II inside: 3G IIC T3 / outside: 3G IIB, IIC T3
COBRA NC 0600 C	2G	2G	IIB	IIB, IIC	T3	T3	Ex II inside: 2G IIB T3 / outside: 2G IIB, IIC T3
	3G	3G	IIC	IIB, IIC	T3	T3	Ex II inside: 3G IIC T3 / outside: 3G IIB, IIC T3
COBRA NC 0630 C	3G	3G	IIC	IIB, IIC	T2	T3	Ex II inside: 3G IIC T2 / outside: 3G IIB, IIC T3
COBRA NC 1500 B	2G	2G	IIB	IIB	T4	T4	Ex II inside: 2G IIB T4 / outside: 2G IIB T4
COBRA NC 2000 B	2G	2G	IIB	IIB	T4	T4	Ex II inside: 2G IIB T4 / outside: 2G IIB T4
COBRA NC 2500 B	2G	none	IIC	none	T2	none	Ex II inside: 2G IIC T2 / outside: No ATEX Zone

For further technical data please refer to the respective product leaflets.

Ex Zones and Equipment Categories

Explosive atmosphere	Zone *	Category *	Probability that the vacuum pump is an ignition source
Constant, long-term or frequently present	0	1	No ignition source, not even in the event of double malfunctions
To be expected from time to time	1	2	No ignition source, also in case of single malfunctions
Rarely, and even if present then only briefly	2	3	No ignition source during normal operation

* rating for inside and outside of the vacuum pump



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Argentina Australia Austria Bangladesh Belgium Brazil Canada Chile China Colombia Czech Republic Denmark Finland France Germany Hungary India Ireland Israel Italy Japan Korea Malaysia Mexico Netherlands New Zealand Norway Peru Poland Portugal Romania Russia Singapore South Africa Spain Sweden Switzerland Taiwan Thailand Turkey United Arab Emirates United Kingdom USA

Technical data is subject to change. Created in Germany. MG PL COBRAATEX Len 02/2019 9CA