



Oil-free compressor solutions  
for the rail traffic







## Application fields

oil-free auxiliary-air compressors  
in the rail traffic

- Pantograph
- Sanding systems
- wheel flange lubrication
- control system for toilet door
- Emptying of toilet bowl
- Signal horn
- Spring-loaded brakes
- main air for special vehicles
- Support of braking air for maintenance vehicles
- filling of sand tanks

## Our technology in the rail traffic

For more than 50 years now Dürr Technik has been specialist for oil-free piston compressors.

For three decades we have been supplying 55 different compressor versions to numerous leading companies in the rail traffic sector worldwide.

Our auxiliary-air compressors fulfill the highest requirements for reliability, precision and durability. For this reason manufacturers and operators of railway vehicles and system suppliers have, for many years now, relied on our high quality, compact system solutions - from Panama to South Africa to China.

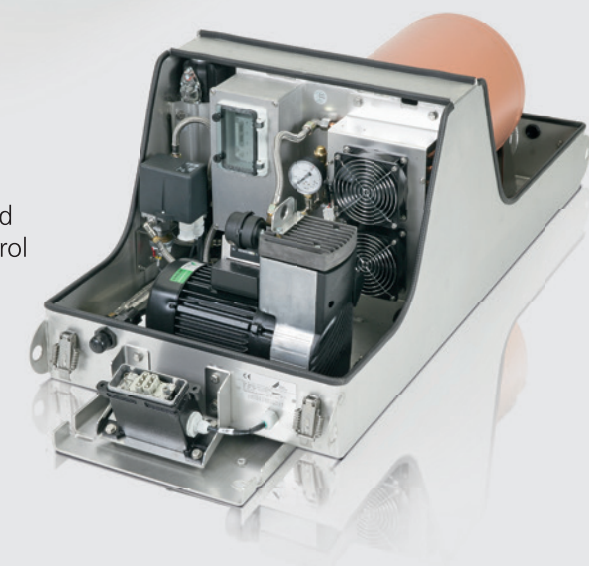
## Multifunctional installations

Engineering of customer specific solutions

By applying an auxiliary-air installation, several pneumatic requirements can be fulfilled at the same time.

This saves space and costs.

This installation generates for example compressed air for wheel flange lubrication, sanding, the control system for toilet doors and the signal horn.



## ADVANTAGES

### Highest quality standard

Compressors, which are used in the rail traffic, need to operate reliably under the most extreme ambient conditions

We have been certified according to IRIS since 2009. Our products are manufactured in Germany, and depending on your requirements, fulfill

- EN 50121-3-2 Electromagnetic compatibility
- EN 45545-2 Fire protection requirements
- EN ISO 9227 Salt-spray test
- EN 61373 vibration and shock test

### ■ Wide product range – high adaptability

We offer aggregates and complete system solutions with different kinds of voltages: From DC (direct current) to three-phase current, from 24V DC up to 400V 3~AC.

### ■ High reliability and durability

Our components are tested under extreme conditions, in order to meet our special quality requirements even in continuous operation.

### ■ Low weight

Compared with competing products, our compressor D-061 for example is essential lighter (as of 09/2014)

### ■ Environment-friendly

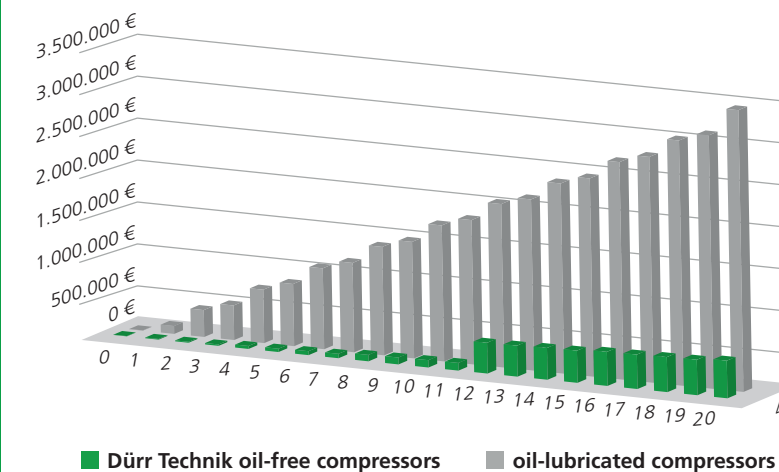
Oil-free compressors make it possible to produce oil-free air – thus excluding any impairment of the functions caused due to oil.

### ■ Space saving design

The compact dimensions of our products enable them to be installed in small spaces.

### ■ Low noise level

### ■ Low vibrations



Cumulated maintenance costs of a customer with oil-lubricated compressors compared to oil-free compressors from Dürr Technik in a time period of over 20 years, based on a project with 146 compressors.

The potential saving (Δ) amounts to 2.95 million euros – this corresponds to 86%.

### ■ Economical operation

Our customers benefit from the low energy consumption of our innovative motor concepts, which are especially adjusted to the railway traffic.

The use of high-quality materials ensures a minimum of wear and thus guarantees a high durability of the components

Low life-cycle costs are a further particular characteristic of our products as, in addition to the direct savings of oil and energy, the maintenance and servicing costs are also significantly reduced owing to the oil-free compressor technology by Dürr Technik.

- No oil-level check
- No oil change
- No use of oil filters
- No oil filter changes
- No disposal of used oil
- Low maintenance



Dürr Technik ■ Quality  
■ Made in  
■ Germany



# COMPRESSED AIR SOLUTIONS

Great variety of products  
from the aggregate up to the system solution

No matter for which application you need compressed air, our oil-free compressor aggregates can be configured exactly to your requirements.

Aggregates

A multitude of variations is available for you – from the direct current solution to the three-phase solution, from 24V DC up to 400V 3~AC

Special aggregates

As special aggregates our products can for example be equipped with EMC filters, special paints, special electronics, plugs etc.

System solutions

You can rely on our unique competence in the development and manufacture of complete compressed-air systems and compressed-air installations as an individual system solution in accordance with your specifications.

Receivers, dryer or control units can be integrated during installation depending on the spatial conditions. To ensure an optimal compressed-air supply, we plan your system solutions down to the tiniest detail at modern CAD workstations.



Special aggregates

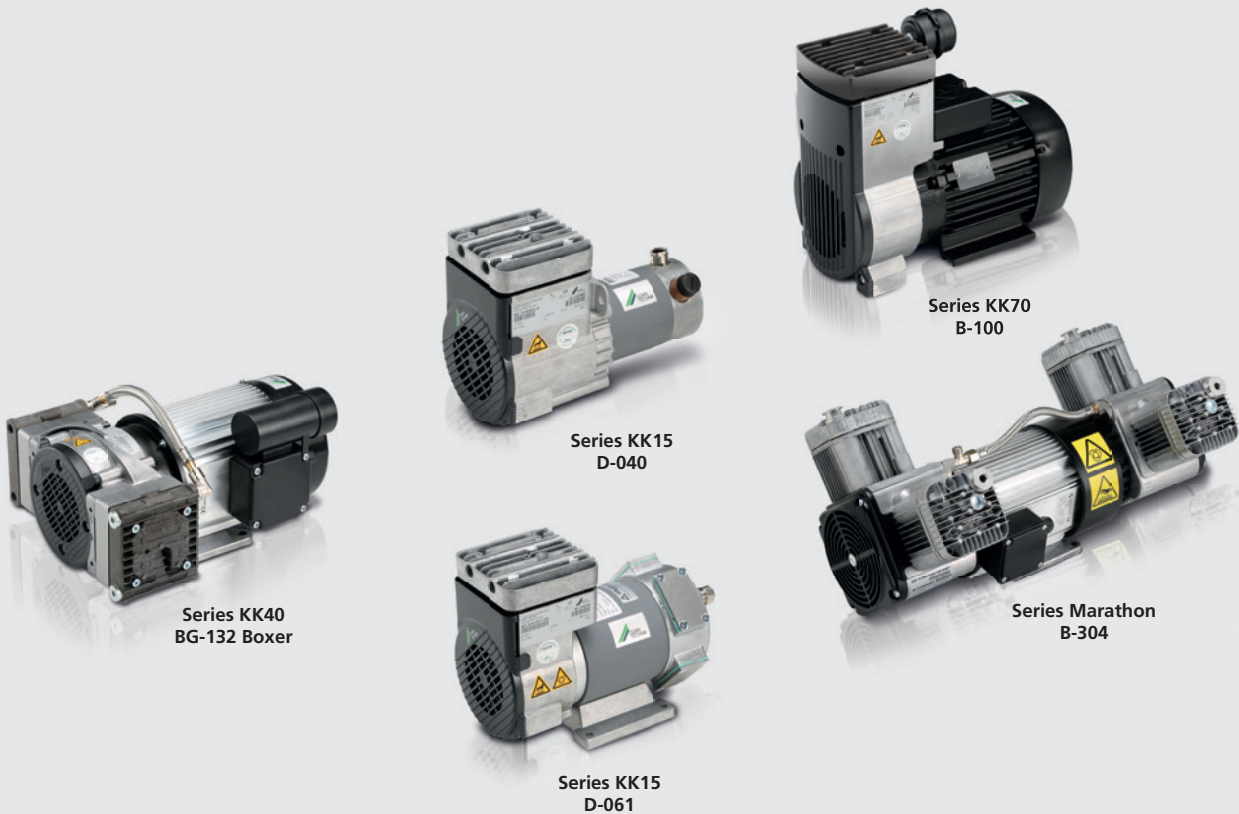


System solutions

Technical Data  
of our oil-free compressor aggregates

Type	Delivery rate at 0 bar  (l/min)	Nominal pressure PN  (bar)	Noise level at PN  dB (A)	Motor ratings				Protection class  (IP)	Dimensions LxWxH  (mm)	Weight  (kg)
				Wattage rating  P1 (kW)	Rated current  (A)	Nominal voltage  (V)	Frequency  (Hz)			
with DC motor										
D-030	30	7	61	0,12	6,4	24	-	IP00	209x108x156	4,4
D-040	40	7	61	0,19	9,0	24	-	IP00	242x121x175	5,9
D-061	60	7	69	0,50	21,0	24	-	IP54	247x132x188	6,9
D-061	60	7	69	0,40	3,7	110	-	IP54	247x132x188	6,9
D-100	105	8	68	0,63	26,0	24	-	IP54	368x176x292	20,5
D-100	105	8	68	0,62	8,8	72	-	IP54	368x176x292	20,5
D-100	105	8	68	0,72	6,5	110	-	IP54	368x176x292	20,5
DG-160	160	7	72	0,91	38	24	-	IP56	366x276x190	17,0
with 3~motor										
B-038	38	7	57	0,41	1,6 / 0,9	230/400	50	IP54	249x156x180	6,5
B-061	60	7	66	0,5	0,9	230/400	50	IP54	225x165x180	6,1
B-062	78	8,5	60	0,47	0,9	380-415	50	IP20	286x125x175	9,1
B-100	105	8	66	1,00	3,1	230/400	50	IP44	330x200x283	20,3
BG-132	130	7	71	0,89	2,0	230/400	50	IP54	322x276x190	18,0
B-160	160	7	72	1,40	3,1	400	50	IP54	425x355x295	25,9
B-304	290	7	77	2,95	4,4	400	50	IP54	620x350x295	47,0

Further models available on request.



## Germany

Dürr Technik GmbH & Co. KG  
Pleidelsheimer Straße 30  
74321 Bietigheim-Bissingen  
Tel. +49 (0) 7142-90 22-0  
Fax +49 (0) 7142-90 22-99  
office@duerr-technik.de  
www.duerr-technik.com

## Great Britain

Dürr Technik UK Ltd.  
Unit 13 The Industrial Quarter  
Bath Business Park  
Foxcote Avenue  
Peasedown St. John  
UK-Bath BA2 8SF  
Tel. +44 (0) 1761-42 29 44  
Fax +44 (0) 1761-42 08 95  
office@durrtechnik.co.uk  
www.durrtechnik.co.uk

## North America

Dürr Technik USA, Inc.  
1295 Walt Whitman Road,  
USA-NY 11747-3062 Melville  
Tel. +1 516-214-56 59  
Fax +1 516-433-76 84  
office@durrtechnikusa.com  
www.durrtechnikusa.com

## France

Dürr Technik  
Office France  
76350 Oissel  
Tel. +33 (0) 155-69 11 80  
Fax +33 (0) 155-69 11 81  
office@duerr-technik.fr  
www.duerr-technik.com

## South America

Dürr Technik  
Office Latin America  
Belgrano 440, Of. 21  
1642 San Isidro  
Buenos Aires / Argentina  
Tel. +5411 47 32-38 09  
office-latinamerica@durrtechnik.com  
www.duerr-technik.com



Dürr Technik GmbH & Co. KG  
Pleidelsheimer Straße 30  
74321 Bietigheim-Bissingen

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Fax +49 (0) 7142-90 22-99

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[www.duerr-technik.com](http://www.duerr-technik.com)

