

# SOLUTIONS IN TRANSPORT ENGINEERING

Product range



## Drives for high-floor light rail vehicles

Series DKCBZ, air cooled, surface cooling, IP 55



**Stadler Pankow  
Tango “Bogestra”  
Germany**

DKCBZ 0212-4, 125 kW, 1,779 r.p.m.  
with gear ASZA 418



**Stadler Pankow  
Tango Lelsys “Lyon”  
France**

DKCBZ 0212-4, 125 kW, 1,775 r.p.m.  
with gear ASZA 418



**HeiterBlick  
Vamos “Bielefeld”  
Germany**

DKCBZ 0209-4, 80 kW, 1,778 r.p.m.



## Drives for low-floor light rail vehicles

Longitudinal drive for 100% low-floor

Series DKCBZ, air cooled, surface cooling, IP 55

**Bombardier Transportation  
Flexity Outlook “Valencia”  
Spain**

DKCBZ 0211-4, 105 kW, 1,775 r.p.m.



**Bombardier Transportation  
Flexity Outlook “Brüssel”  
Belgium**

DKCBZ 0211-4, 105 kW, 1,775 r.p.m.



**Bombardier Transportation  
Flexity Outlook “Augsburg”  
Germany**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



**Bombardier Transportation  
Flexity Outlook “Linz”  
Austria**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



**Bombardier Transportation  
Flexity Outlook “Krefeld”  
Germany**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



## Drives for low-floor light rail vehicles

Longitudinal drive for 100% low-floor

Series DKCBZ, air cooled, surface cooling, IP 55



**Bombardier Transportation  
Flexity Outlook “Eskisehir”  
Turkey**

DKCBZ 0211-4, 105 kW, 1,775 r.p.m.



**Bombardier Transportation  
Flexity Outlook “Genf”  
Switzerland**

DKCBZ 0211-4, 105 kW, 1,775 r.p.m.



**Bombardier Transportation  
Flexity Outlook “Palermo”  
Italy**

DKCBZ 0211-4, 105 kW, 1,775 r.p.m.



**Bombardier Transportation  
Flexity Outlook “Marseille”  
France**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



**Bombardier Transportation  
Flexity Outlook “Pöstlingberg”  
Austria**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



## Drives for low-floor light rail vehicles

Cross drive for 70% low-floor

Series DKCBZ, air cooled, surface cooling, IP 55

**Bombardier Transportation  
Flexity Classic "Plauen"  
Germany**

DKCBZ 0210-4, 85 kW, 1,779 r.p.m.



**Bombardier Transportation  
Flexity Classic "Dresden"  
Germany**

DKCBZ 0210-4, 85 kW, 1,944 r.p.m.



**Bombardier Transportation  
Flexity Classic "Leipzig"  
Germany**

DKCBZ 0210-4, 85 kW, 1,779 r.p.m.



**Bombardier Transportation  
Flexity Classic "Halle"  
Germany**

DKCBZ 0210-4, 85 kW, 1,779 r.p.m.



**Bombardier Transportation  
Flexity Classic "Dessau"  
Germany**

DKCBZ 0210-4, 85 kW, 1,779 r.p.m.





## Drives for low-floor light rail vehicles

Cross drive for 70% low-floor

Series DKCBZ, air cooled, surface cooling, IP 55



**Bombardier Transportation  
Flexity Classic "Dortmund"  
Germany**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.  
with gear ASZA 418



**Vossloh Kiepe  
Straßenbahn "Kassel"  
Germany**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.  
with gear ASZA 400



**ON'S Industry / Belkommunmash  
BKM Minsk  
Belarus**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



## Drives for low-floor light rail vehicles

Cross drive for 70% low-floor

Series DKCBZ, air cooled, surface cooling, IP 55



**Bombardier Transportation  
Flexity Classic "Stockholm"  
Sweden**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



**Bombardier Transportation  
Flexity Classic "Norrköping"  
Sweden**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



**Bombardier Transportation  
Flexity Classic "Adelaide"  
Australia**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



**Bombardier Transportation  
Flexity Classic "Frankfurt"  
Germany**

DKCBZ 0211-4, 105 kW, 1,775 r.p.m.



## Drives for low-floor light rail vehicles

Longitudinal drive for 100% low-floor

Series DKCBZ, air cooled, surface cooling, IP 55

PESA Bydgoszcz  
City Tram "Bydgoszcz"  
Poland

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



PESA Bydgoszcz  
City Tram "Warschau"  
Poland

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



PESA Bydgoszcz  
City Tram "Cluj-Napoca"  
Romania

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



PESA Bydgoszcz  
City Tram "Szeged"  
Hungary

DKCBZ 0211-4A, 105 kW, 1,777 r.p.m.



PESA Bydgoszcz  
City Tram "Stettin"  
Poland

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.





## Drives for low-floor light rail vehicles

Longitudinal drive for 100% low-floor

Series DKCBZ, air cooled, surface cooling, IP 55

PESA Bydgoszcz  
City Tram "Danzig"  
Poland

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



PESA Bydgoszcz  
Tram Foxtrot "Moskau"  
Russia

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



PESA Bydgoszcz  
Tram "Sofia"  
Bulgaria

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



## Drives for low-floor light rail vehicles

Longitudinal drive for 100% low-floor

Series DKCBZ, air cooled, surface cooling, IP 55



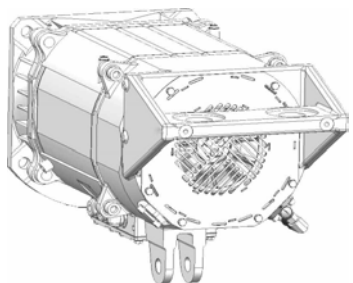
**Bombardier Transportation  
Flexity Freedom "Toronto"  
Canada**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



**Voith Turbo  
Solaris "Tramino" Poznan  
Poland**

DKCBZ 0211-4, 105 kW, 1,777 r.p.m.



**Voith Turbo  
Tram Arctic "Helsinki"  
Finland**

DKCBZ 1509-4, 65 kW, 1,919 r.p.m.



## Drives for low-floor light rail vehicles

Longitudinal drive for 100% low-floor · Cross drive for 70% low-floor

Series DKWBZ, water-jacket cooling, IP 55



**Bombardier Transportation**  
"VIA Essen"/"Mülheim"  
Germany

DKWBZ 0209-4, 100 kW, 2,380 r.p.m.



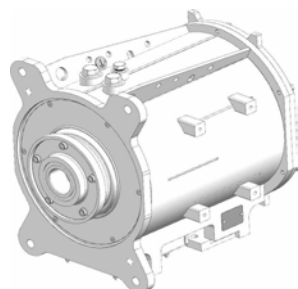
**Adtranz/Bombardier Transportation**  
NGT 6/8 "Dresden"  
Germany

DKWBZ 1706-4, 95 kW, 2,004 r.p.m.



**Vossloh Kiepe**  
TramLink "Valencia"/"Leon"/"Rostock"  
Spain/Germany

DKWBZ 0309-4, 100 kW, 2,680 r.p.m.  
with gear ASDA 533



**Bombardier Transportation**  
Flexity "Berlin"  
Germany

DKWBZ 1606-4, 50 kW, 2,653 r.p.m.



## Drives for low-floor suburban rail cars and metros

Series DKOBZ, air cooled, surface cooling, IP 55

**Stadler Pankow  
DT8.12 SSB "Stuttgart"  
Germany**

DKOBZ 0610-4, 130 kW, 1,775 r.p.m.  
with gear ASZA 400



**Bombardier Transportation  
Flexity Swift "Docklands"  
Great Britain**

DKOBZ 0610-4, 130 kW, 1,775 r.p.m.



**Bombardier Transportation  
Flexity Swift "Frankfurt"  
HF City Railway U5  
Germany**

DKOBZ 0610-4, 130 kW, 1,775 r.p.m.



**Bombardier Transportation  
Flexity Swift "Rotterdam"  
Netherlands**

DKOBZ 0610-4, 130 kW, 1,775 r.p.m.



**Bombardier Transportation  
Flexity Swift "Bursa"  
Turkey**

DKOBZ 0610-4, 1,8 kV, 125 kW, 1,776 r.p.m.





## Drives for low-floor suburban rail cars and metros

Series DKOBZ, air cooled, surface cooling, IP 55



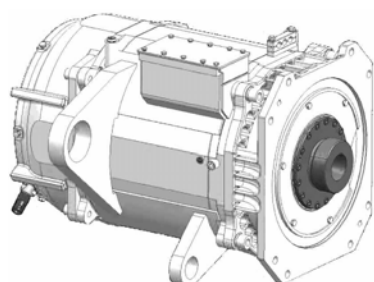
Stadler Pankow  
U-Bahn BVG Berlin  
Germany

DKOBZ 0606-4, 90 kW, 1,921 r.p.m.



Vossloh Kiepe  
TramTren "Leon"  
Spain

DKOBZ 0610-4, 130 kW, 1,775 r.p.m.



Vossloh Kiepe  
TramTren "Bitenson"  
Spain

DKOBZ 0610-4, 130 kW, 1,781 r.p.m.



Vossloh Kiepe  
TramTren "Mallorca"  
Spain

DKOBZ 0610-4, 145 kW, 1,987 r.p.m.



Series DKABZ, air cooled, drought ventilated, IP 21



Bombardier Transportation  
BR 481 City train "Berlin"  
Germany

DKABZ 2806-4, 100 kW, 1,137 r.p.m.  
with gear



## Drives for suburban rail cars, special purpose vehicles and solutions for modernisation

Series DKABZ, air cooled, drought ventilated, IP 22



Schalker Eisenhütte  
CarGo Tram "Dresden"  
Germany

DKABZ 0305-4, 42 kW, 1,750 r.p.m.



LEOLINER Fahrzeugbau/HeiterBlick GmbH  
NGTW6-L "Leipzig"  
Germany

DKABZ 0305-4, 65 kW, 2,016 r.p.m.



LEOLINER Fahrzeugbau/HeiterBlick GmbH  
NGTW6-H "Halberstadt"  
Germany

DKABZ 0305-4, 65 kW, 2,016 r.p.m.



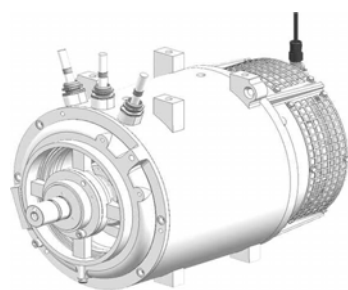
## Drives for suburban rail cars, special purpose vehicles and solutions for modernisation

Series DKABZ, air cooled, drought ventilated, IP 22



Leipziger Fahrzeugservice  
Modernisation Satra 2/3 "Sarajevo"  
Bosnia-Herzegovina

DKABZ 0306-4, 68 kW, 1,919 r.p.m.



LEOLINER Fahrzeugbau  
Modernisation of historical vehicles  
"Pöstlingbergbahn"  
Austria

DKABZ 0307-4, 50 kW, 1,306 r.p.m.



## Drives for monorails

Series DKVBZ, air cooled, foreign ventilated, IP 54



Bombardier Transportation  
Monorail "Las Vegas"  
USA

DKVBZ 0211-4, 95 kW, 1,781 r.p.m.



## Drives for electric regional and IR multiple units (EMU)

Series DKLBZ, air cooled, foreign ventilated, IP 22



**PESA Bydgoszcz**  
Electric multiple unit for EN 95 “WKD”  
Poland

DKLBZ 0910-4, 280 kW, 1,647 r.p.m.



**PESA Bydgoszcz**  
Electric Railbus EN 81 “PKP”  
Poland

DKLBZ 0910-4, (3 kV) 280 kW, 1,774 r.p.m.



**Vossloh Kiepe**  
Electric multiple unit “Protos”  
Netherlands

DKLBZ 0911-4, 340 kW, 2,008 r.p.m.





## Drives for electric regional and IR multiple units (EMU)

Series DKLBZ, air cooled, foreign ventilated, IP 22



**ELIN EBG Traction**  
**MAV E-Talent**  
**Hungary**

DKLBZ 0911-4, 340 kW, 1,963 r.p.m.



**ELIN EBG Traction**  
**MAV E-Talent**  
**Austria**

DKLBZ 0911-4, 340 kW, 1,963 r.p.m.



**PESA Bydgoszcz**  
**InterRegio Train ED59/74 "PKP"**  
**Poland**

DKLBZ 3112-4, (3 kV) 500 kW, 1,681 r.p.m.



## Drives for diesel-electric regional multiple units (DEMU)

Series DKABZ, air cooled, drought ventilated, IP 22



**INKA Indonesian Railway**  
**Railbus**  
**Indonesia**

DKABZ 0909-4, 110 kW, 818 r.p.m.



## Drives for locomotives and rail maintenance vehicles



**LEW Hennigsdorf**  
BR 112/143 Deutsche Reichsbahn  
Germany  
ECFB 1110-127K, 1,055 kW, 1,325 r.p.m.



**LEW Hennigsdorf**  
BR 156/252 Deutsche Reichsbahn  
Germany  
ECFB 1110-127C, 850 kW, 1,310 r.p.m.



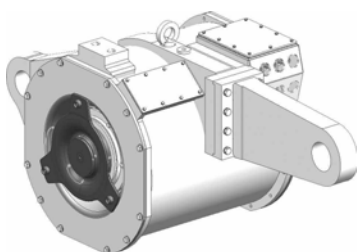
**LEW Hennigsdorf**  
BR 155/250 Deutsche Reichsbahn  
Germany  
ECFB 1110-127C, 850 kW, 1,310 r.p.m.



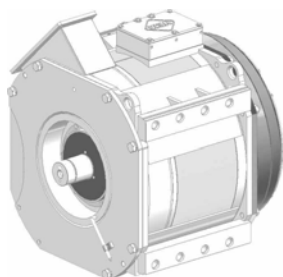
## Drives for locomotives and rail maintenance vehicles



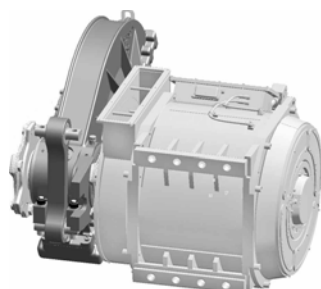
**Vossloh Locomotives**  
DE 18/DE 12  
Germany  
DKLBZ 3510-4, 400 kW, 865 r.p.m.



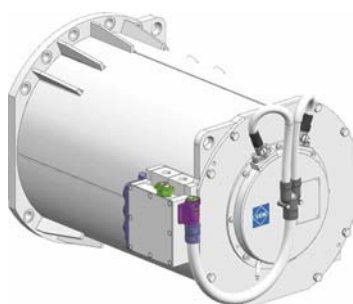
**Schalker Eisenhütte**  
Service Loco for Codelco  
Chile  
DKWBZ 3514-6, 600 kW, 1,592 r.p.m.



**LORAM USA**  
DB AG  
Germany  
DKWBZ 3509-4, 355 kW, 918 r.p.m.



**PESA Bydgoszcz**  
Electric locomotive "GAMA"  
Poland  
DKLBZ 4512-4, 540 kW, 3,500 r.p.m.  
with gear

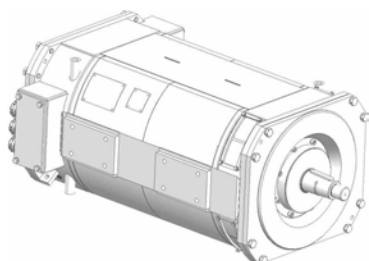


**ELH Eisenbahnlaufwerke Halle**  
SBB Erhaltungsfahrzeug St. Gotthard  
Switzerland  
DKWBZ 0714-4, 265 kW, 1,641 r.p.m.



## Drives for trolley busses and hybrid busses

Series DKLBZ, air cooled, drought ventilated, IP 22



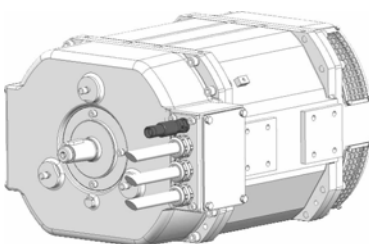
**Belkommunmash  
Trolley bus Type 321  
Belarus**

DKLBZ 0315-4, 180 kW, 1,480 r.p.m.



**SC Astra Bus Arad  
Trolley bus Astra  
Romania**

DKLBZ 0315-4, 240 kW, 1,467 r.p.m.



**Vossloh Kiepe  
Hybridbus "Dresden"  
Germany**

DKLBZ 0309-4, 160 kW, 1,466 r.p.m.



**Vossloh Kiepe  
Hybridbus "Leipzig"  
Germany**

DKLBZ 0309-4, 160 kW, 1,466 r.p.m.





# Main generators for diesel-electric locomotives

Series DREBZ, self-cooled, IP 23



**Vossloh Locomotives  
DE 18/DE 12  
Germany**

DREBZ 4015-6,  
1,900 kVA, 1,405 V, 1,800 r.p.m.



**Siemens VT  
NSB Di8  
Norway**

DREBZ 4513-6,  
1,570 kVA, 1,872 V, 1,800 r.p.m.



**Siemens VT  
NSB DE-Loco Di6 Dispolok ME26  
Norway/Germany**

DREBZ 5620-8,  
2,650 kVA, 1,870 V, 1,000 r.p.m.



**Schalker Eisenhütte  
Service Loco for Codelco  
Chile**

DREBZ 4015-6, 1,415 kVA, 1,800 r.p.m.



**Schalker Eisenhütte  
RHB Lok  
Germany**

DREBZ 4015-6,  
1,847 kVA, 1,425 V, 1,900 r.p.m.



## Main generators for diesel-electric locomotives

Series DREBZ, self-cooled, IP 23



**Bombardier Transportation  
TRAXX F140DE  
Germany**

DREBZ 4514-6,  
2,204 kVA, 1,404 V, 1,860 r.p.m.



**Bombardier Transportation  
TRAXX F160DE  
Germany**

DREBZ 4514-6,  
2,204 kVA, 1,404 V, 1,860 r.p.m.



## Auxiliary generator unit for diesel locomotives

Series DREBZ, self-cooled, IP 23



**Siemens VT/Vossloh Locomotives  
SNCB HLD 77/78  
Belgium**

DREBZ 3508-6,  
130 kVA, 420 V, 1,000 r.p.m.



## Main generators for diesel-electric multiple units (DEMU)

Series DREBZ, self-cooled, IP 23, under-floor construction



**INKA Indonesia Railway  
Railbus  
Indonesia**

DREBZ 3108-6,  
295 kVA, 660 V, 1,800 r.p.m.



**MTU Friedrichshafen  
DEL 02 Lugansk  
Ukraine**

DREBZ 3509-6,  
400 kVA, 1,150 V, 1,900 r.p.m.



**Siemens VT  
ICT-VT 605  
Germany**

DREBZ 3509-6,  
560 kVA, 1,400 V, 1,800 r.p.m.



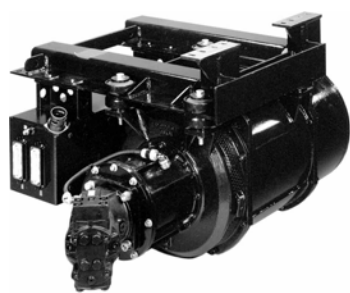
**ABEWA Systems  
4 DEMU  
Indonesia**

DREBZ 3509-6,  
560 kVA, 1,400 V, 1,800 r.p.m.



## Auxiliary generator unit for diesel multiple units

Series DREBZ 0606-4, with hydrostatic motor, exciter unit and support frame for under-floor assembly



Adtranz Henningsdorf  
Tilting system DMU  
DB AG VT 612  
Germany

DREBZ 0606-4, 50 kVA, 400 V, 1,500 r.p.m.



Bombardier Transportation  
Regio-Swinger  
Croatia

DREBZ 0606-4, 50 kVA, 400 V, 1,500 r.p.m.



INKA Indonesia Railway  
DMU  
Indonesia

DREBZ 0606-4, 50 kVA, 400 V, 1,500 r.p.m.





## Exciter units for main generators and auxiliary generators



RLAGV 56001-DA DREBZ 3508-6 10.0 ADC



TIBIS-XD 2.1 T10A DREBZ 4514-6 10.0 ADC  
CAN-BUS



RLAQX 16007-BA 7,5 kVA 3~  
CAN-BUS

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EXPERIENCE VISION

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