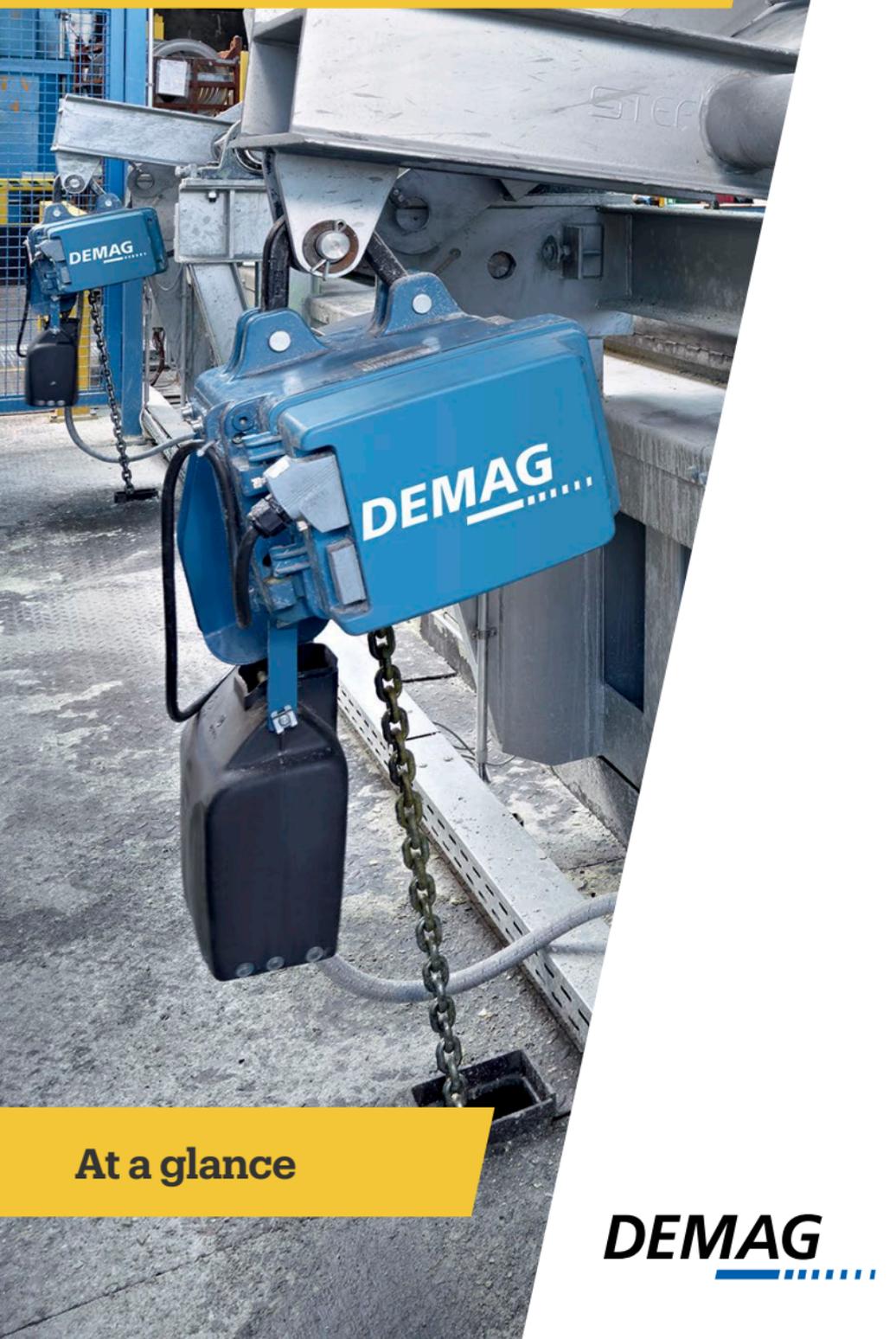


The industry benchmark

Demag DC chain hoists



At a glance

DEMAG

DC standard features include:



- Load capacities up to 5,000 kg
- FEM classifications from 1Am to 4m (800–6,300 hours)



- 24 V contactor control, internal "tri-state" signal transfer
- Operating limit switches (upper/lower)



- Elapsed operating time counter
- Operating data interface (IDAPSY)
- Height-adjustable control pendant



- "Plug & Lift" electric connections



- Slipping clutch with automatic cut-out by means of speed monitoring (no continuous slipping)



- Gearbox, slipping clutch and brake maintenance-free for up to 10 years.



- Speeds (F4 up to 24 m/min, variable up to 30 m/min)
- Duty factor: 60% (40/20), 360 starts/hour
- IP 55 enclosure, insulation class F
- Reliable operation from -20 °C to +45 °C without any reduction in the duty factor, up to 60 °C and higher possible

TRAVELLING HOIST VARIANTS



BK with RF 125



EKDC



EKDDC



KLDC-D

Even longer service life, improved safety and reduced wear



- Safety-related functions satisfy at least Performance Level c and Category 2 to EN ISO 13849-1



- Low-wear brake thanks to regenerative braking

- No need to adjust the brake

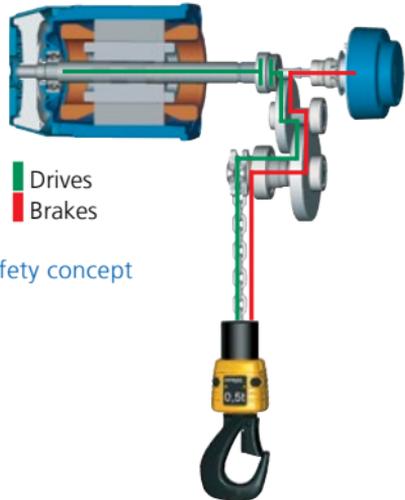
- Brake arranged before slipping clutch in the drive arrangement (no load slipping)



- Automatic braking if the control system fails

- Aluminium housing parts with scratch-resistant powder coating

- Up to 1,000 kg only 1/1 reeving: reduced chain wear, improved ergonomics



Slipping clutch safety concept



LDC-D



LDC-Q

Simple commissioning and optimum ergonomics



- Ergonomic control pendants
- Low switch actuation forces
- Length of control cable or position of control pendant can be adjusted (extended or shortened) without the need for any wiring
- Horizontal (DCM/DCMS) or vertical (DCRS) hand position for best possible ergonomics to meet application needs



Height-adjustable control cable



DCM/DCMS Manulift and DCRS rocker switch up to 250 kg



Control pendants, left to right: DSC, DSE-10 C, DSK-C, DST-C



Radio controls, left to right: DRC-DC 6, DRC-DC 10

DCS-Pro – further benefits compared to DC-Pro



- Infinitely variable speed
- Exceptionally fine control at low speeds



- Variable button characteristic like a car accelerator pedal
- Pro-Hub: up to 90% higher nominal speed for partial load or no-load operations
- Automatic switchover to creep lifting speed before the upper/lower limit positions are reached

Most important differences	DCS-Pro (DCMS-Pro)
Control method, control voltage	Inverter, 24 V
Group of mechanisms	1Am to 4m
Standard lifting speed up to 125 kg, [m/min]	0.15–30/30
Standard lifting speed 160–500 kg, [m/min]	0.15–16/30, 0.08–8/15
Standard lifting speed 630–2,000 kg, [m/min]	0.04–4/7, 0.06–6/11, 0.11–12/22
Standard lifting speed 2,500-5,000 kg, [m/min]	0.04–4/7 for 2,500 kg
Duty factor [CDF%]	60 (20 at $V_{S_{min}}$)
Speed ratio	Variable 1:100
Hook paths [m]	From 4, 5 (Manulift 2.8, 4.3)
Type of enclosure: chain hoist/trolley	IP55/IP55
Height-adjustable control pendant/plug connections	Yes/yes
Control pendant (can be fitted)	DSC, DSE, DSM, DSK, DST
Limit-switch cut-off for DC 1–10 1/1	Yes
Limit-switch cut-off for DC 10 2/1 to DC 25	Yes
Elapsed operating time counter	Yes (can be read from outside)
Diagnostic interface	Yes (can be read from outside)
Gearbox maintenance-free for up to 10 years	Yes
Brake, slipping clutch maintenance-free for up to 10 years	Yes (5 years for DC10–25 brake)
Adjustable brake	No
Speed monitoring	Yes
Regenerative braking from main to 0 via creep speed	Yes
Pro-Hub: V_{max} in partial load range	Yes
Fast-to-slow cut-off	Yes
V, acc., dec. parameters adjustable via control pendant	Yes
Motor temperature monitoring	Yes
Aluminium surface finish	Powder coating

Colored sections indicate major differences



Variable-speed DCS-Pro chain hoist and DCMS-Pro Manulift

- Acceleration and braking ramps prevent significant load sway
- Lifting speed, acceleration and braking ramps can be modified via the control unit
- Motor temperature monitoring device
- Variable long/cross-travel speeds with E11–34 travel drives

DC-Pro (DCM-Pro)	DC-Com	DC-ProDC/CC
Contactors, 24 V	Contactors, 24 V	Direct/conv. contactor
1Am to 4m	1Am to 4m	See Pro/Com
8/2, 16/4, 24/6	8/2	See Pro/Com
8/2, 12/3, 16/4, 24/6	6/1.5, 4.4/1.1	See Pro/Com
4/1, 6/1.5, 8/2, 12/3, 24/6	4/1	See Pro/Com
4/1, 6/1.5, 8/2	-----	See Pro/Com
60 (40/20)	60 (40/20)	See Pro/Com
F4	F4	F4
From 4, 5 (Manulift 2.8, 4.3)	From 4	See Pro/Com
IP55/IP55	IP55/IP55	See Pro/Com
Yes/yes	Yes/yes	No
DSC, DSE, DSM, DSK, DST	DSC, DSE, DSK, DST	DSK, DST
Yes	Optional	Optional
Yes	Yes	Optional
Yes (can be read from outside)	Yes (can be read from outside)	No
Yes (can be read from outside)	Yes (can be read from outside)	No
Yes	Yes	Yes
Yes 5 years for DC10–25 brake	Yes (5 years for DC10 brake)	No
No	No	Yes
Yes	Yes	No
Yes	Yes	No
No	No	No
No	No	No
No	No	No
Optional	Optional	Optional
Powder coating	Powder coating	Powder coating

Trolley sizes 11, 22, 34, 56

- U11 (radii: RU 1,000 mm, EU 2,000 mm)
- U22/34 (radii: RU 2,000 mm, EU 3,000 mm)
- RU 56 (radii: RU 2,000 mm, EU 2,500 mm)
- Variable adjustment of trolley flange width up to 200/310/500 mm by means of adjusting rings
- Universal travel wheels without a flange, lateral guide rollers (low wear)
- Integrated drop stop
- Low travel noise and resistance
- Die-cast aluminium, powder-coated
- Low-sway load handling thanks to smooth cross-travel starting and braking motions
- Speeds and acceleration/deceleration rates can be modified via control pendant
- Plug-in electric connections
- E11/E22-C up to 24/6 m/min (E22-C with RF 125 up to 27 m/min), E34 up to 14 m/min, variable from 0.7 m/min
- EU 56 12/4, 20/5, 24/6, 40/10 m/min with ZBF motor, or variable speeds with ZBA motor
- Pivoting suspension bracket enables the chain hoist to be attached when the trolley has been fitted



Conventional EU trolleys



RF 125 friction wheel travel drive/EU DC

Service-friendly



Diagnostics interface and chain drive



- Elapsed operating time counter, status and error messages shown on display



- Service cover: everything in one place – rapid access for commissioning and service
- Reduced downtimes when the entire chain drive is replaced without the need to dismantle motor or gearbox parts



PRODUCT CONFIGURATOR

- Online configuration
- Information available 24/7
- 3D CAD geometry data



Demag Cranes & Components GmbH

Wetter Site

Ruhrstrasse 28

58300 Wetter, Germany

E info@demagcranes.com

T +49 2335 92 0

F +49 2335 92 7676

www.demagcranes.com

DEMAG