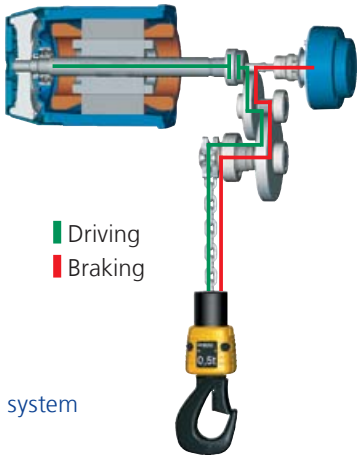


Even longer service life, improved safety and reduced wear

- Gearbox, brake and slipping clutch are maintenance-free for up to 10 years (DC-Pro 10-25 brake for up to 5 years)
- Slipping clutch with automatic cut-out by means of speed monitoring (no continuous slipping)
- Low-wearing brake thanks to regenerative braking from main to creep lifting until standstill, mechanical braking from creep lifting to standstill
- No brake adjustment
- Brake arranged before slipping clutch in the drive arrangement (no load dropping)
- Automatic braking if the control system fails
- Aluminium motor, gearbox and electrical cover parts provided with UV-resistant powder coating (resistant to scratches)
- Up to 1,000 kg only 1/1 reeving: reduced chain wear, improved ergonomics
- Rugged cylindrical-rotor motor with fan and separate DC brake beneath the electrical cover (brake double encapsulated for enclosure type, no brake sticking)
- Suitable for tandem applications, meets requirements of standard for safety functions



Brake/clutch system

Service friendly

- Elapsed operating time counter, status and error messages shown on display
 - Infrared diagnostic interface (to read out and manage specific data by means of IDAPSY software)
- Everything in one place under the service cover – rapid access for commissioning and service:
- Plug-and-socket connections (power cable, control cable, limit switches, trolley)
 - Strain relief (for power supply and trolley supply cables)
 - Storage for 3 m of control cable
 - Chain drive (fitted to output shaft)
 - Chain lubrication (through lubrication opening in the chain guide for improved lubrication between the links on DC 1–10)
 - Chain drive can be replaced without dismantling motor or gearbox parts (reduced downtimes)

Service cover, infrared diagnostics interface and chain drive



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Product details at a glance – highlights flyer

Demag DC-Pro and DC-Com chain hoist



The DC-Pro contains as standard

- Load capacities up to 5,000 kg, DCM-Pro Manulift up to 250 kg
- FEM classifications from 1 Am to 4 m (800–6,300 hours)
- 24 V contactor control, internal “tri-state” signal transfer
- Operating limit switches (upper/lower)
- Elapsed operating time counter
- Height-adjustable control pendant (H5: 0.8–3.8 m / H8: 3.8–6.8 m / H11: 6.8–9.8 m)
- “Plug & Lift” and “Plug & Drive” for all electrical connections
- Slipping clutch with speed monitoring
- Gearbox, brake and slipping clutch are maintenance-free for up to 10 years (DC-Pro 10-25 brake for up to 5 years)
- Aluminium housing components with powder coating
- Diagnostics interface (IDAPSY)
- Two speeds (F4)
- Lifting speeds: 4/1; 6/1.5; 8/2; 12/3; 16/4; 24/6 and variable speed up to 30 m/min
- Duty factor: 60% (40/20), 360 starts/hour
- Chain hoist and travel drive: IP 55 enclosure, insulation class F
- 2 suspension brackets, long and short (DC 1–10)



DC-Pro 1 to 25

Simple commissioning and optimum ergonomics

- Ergonomic DSC/DSC-S control pendants with low-fatigue actuation force
- Length of the control cable or position of the control pendant individually adaptable on site without any need for wiring (can be extended or shortened at any time)
- Control cable and control board signals designed for 3-axis applications
- Pivoting suspension bracket enables the chain hoist to be attached when the trolley has been fitted



Control pendant replacement and height-adjustable control cable



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

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

DCS-Pro – further benefits compared to DC-Pro

- Variable speed over the entire load spectrum
- Creep lifting speed from 0.15 m/min (DCS 1 and 2), 0.08 m/min (DCS 5), 0.04 m/min (DCS 10)
- Exceptionally fine control at slow speed
- Control ratio of 1 : 100
- 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
- Acceleration and braking ramps prevent significant load sway
- Hoist speed, acceleration and braking ramp can be modified via the control unit
- Motor temperature monitoring
- Variable long/cross-travel speeds with E 11–34 travel drives
- Optional DRC-MP radio control (DRC-DC only for two-stage DC)

Most important differences	DCS-Pro (DCMS-Pro)	DC-Pro (DCM-Pro)	DC-Com	DC-ProDC / CC
Control, control voltage	Inverter, 24 V	Contactors, 24 V	Contactors, 24 V	Direct / conv. contactor
Group of mechanisms	1 Am to 4 m	1 Am to 4 m	1 Am to 3 m	see Pro/Com
Standard hoist speed up to 125 kg, [m/min]	0.15–30/30	8/2; 16/4; 24/6	8/2	see Pro/Com
Standard hoist speed 160–500 kg, [m/min]	0.15–16/30; 0.08–8/15	8/2; 12/3; 16/4; 24/6	6/1,5; 4,4/1,1	see Pro/Com
Standard hoist speed 630–2,000 kg, [m/min]	0.04–4/7; 0.06–6/11; 0.11–12/22	4/1; 6/1,5; 8/2; 12/3; 24/6	4/1	see Pro/Com
Standard hoist speed 2,500-5,000 kg, [m/min]	0.04–4/7 for 2,500 kg	4/1; 6/1,5; 8/2	-----	see Pro/Com
Duty factor [CDF%]	60 (20 at VS _{min})	60 (40/20)	60 (40/20); 40 (25/15)	see Pro/Com
Speed ratio	Variable 1 : 100	F4	F4	F4
Hook paths (by order no.) [m]	5; 8 (Manulift 2.8; 4.3)	5; 8 (Manulift 2.8; 4.3)	4	see Pro/Com
Hook paths (order-specific) [m]	More than 8	More than 8	More than 4	see Pro/Com
Type of enclosure: chain hoist, trolley	IP55, IP55	IP55, IP55	IP55, IP55	see Pro/Com
Height-adjustable control pendant, plug connections	Yes, yes	Yes, yes	Yes, yes	No
Hook assembly	Pro	Pro	Com	see Pro/Com
Control pendant (can be fitted)	DSC, DSE, DSM, DSK, DST	DSC, DSE, DSM, DSK, DST	DSC, DSE, DSK, DST	DSK, DST
Limit-switch cut-off for DC 1–10 1/1	Yes	Yes	Optional	Optional
Limit-switch cut-off for DC 10 2/1 to DC 25	Yes	Yes	Yes	Optional
Elapsed operating time counter	Yes (can be read from the outside)	Yes (can be read from the outside)	Yes, under elec. equip. cover	No
Diagnostics interface	Yes (can be read from the outside)	Yes (can be read from the outside)	Yes, under elec. equip. cover	No
Gearbox, brake, slipping clutch maintenance-free for up to 10 years	Yes (DC10–25 brake 5 years)	Yes (DC10–25 brake 5 years)	No	No
Adjustable brake	No	No	No	Yes
Speed monitoring	Yes	Yes	Yes	No
Regenerative braking main to 0 via creep speed	Yes	Yes	Yes	No
Multi-range input	Yes	Yes	Yes	Yes
Pro-Hub: V _{max} in partial load range	Yes	No	No	No
Fast-to-slow cut-off	Yes	No	No	No
V, acc., dec. parameters adjustable via control pendant	Yes	No	No	No
Motor temperature monitoring	Yes	Optional	Optional	Yes
Aluminium electrical equipment cover surface	Aluminium	Aluminium (DC16/25 plastic)	Plastic	Partly longer cover
Surface	Powder coating	Powder coating	Powder coating	Powder coating
Suspension bracket	Long and short bracket	Long and short bracket	Long bracket	Long bracket

Highlighted sections indicate major differences

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



Trolley sizes 11, 22, 34, 56

- Variants:
 - U 11 (radii: RU 1,000 mm, EU 2,000 mm)
 - U 22/34 (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
- Diecast aluminium, powder-coated
- U 11–34 with optional dual-output gearbox, integrated in EU 56
- Travel speeds: E 11/22 up to 24/6 m/min (E 22 with RF 125 up to 27 m/min), E 34 up to 14 m/min, variable from 0.7 m/min
- E 11–34: plug-in electrical connections, smooth starting via ramps, load-sway damping can be activated for cross travel, inputs for travel limit switches integrated on the control board; speeds/acceleration/braking rates can be modified via control pendant
- EU 56 with ZBF motor with 12/4; 24/6; 40/10 m/min
- Travelling hoist designs: KDC, KLDC, UDDC, KDDC, LDC-D, KLDC-D



EU electric-travel trolley



DC chain hoists with RF 125 friction wheel travel drive