



**Intuitive control.
Precise positioning.**

DCBS Chain Hoist - Electric Balancer

DEMAG
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Variable speeds. Exact positioning.

HIGHER AVAILABILITY FOR IMPROVED EFFICIENCY

Intuitive load handling has never been so easy and, at the same time, efficient: based on our DC range, DCBS chain hoists include a balancer function that allows loads to be guided and precisely positioned with ease. DCBS units are available in two sizes with load capacities up to 550lbs (250 kg). They are compatible with our comprehensive Demag KBK light crane system. DCBS units can be easily installed and travel on KBK profile section rails: on single-girder suspension cranes, suspension monorail systems or on slewing jib cranes.

HIGH SAFETY AND RELIABILITY. DCBS CORE FUNCTIONS:

- Lifting and lowering by manual force on the control handle
- Manipulating loads
- Protection against slack chain
- Protection against snatching loads
- Movements can be stopped if loads fluctuate widely
- Monitoring/reducing load capacity

HIGH SAFETY AND RELIABILITY

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

FEATURES

- Operating limit switches (upper/lower)
- Elapsed operating time counter
- Installation transparency thanks to operating data interface (IDAPSY)
- Option with external load sensor: for lifting columns, manipulators and customer-specific load handling devices

SIMPLE INSTALLATION

- Plug-in electric connections: "Plug & Lift"

Demag chain hoist with balancer function

Your benefits

GRIP CONTROL

- The load can be controlled very easily with the D-Grip Servo control handle.

LOAD POSITIONING

- By switching over to “load positioning mode”, the operator can grasp and guide the load directly with light pressure.

ASSEMBLY MODE

- High level of safety and precision for assembly operations, since any oscillation and uncontrolled load movements are suppressed.

LOAD PICK-UP MODE

- Load handling attachments can be lifted and pre-tensioned
- Load can be removed without dropping or sudden upward pull
- Protection for jigs and machinery: The balancer only lifts until a preset force is reached.



Maximum flexibility

EXTERNAL LOAD SENSOR

- Load sensor is placed between chain and load hook
- D-Grip Servo handle mounted remotely
- Load controlled by intuitive “Float” mode or via the Grip Servo handle
- Applications: lifting masts, manipulators, customer-specific load attachments





Technical data

		DCBS-Pro 1-125	DCBS-Pro 2-250
Model code		DCBS-Pro 1-125 H4,3 VS30 380-480/50/60	DCBS-Pro 2-250 H4,3 VS16 380-480/50/60
Load capacity	[lbs / kg]	275 / 125	550 / 250
Lifting speeds VSmin/VRated	[ft/min] / [m/min]	0.5 - 100 / 0.15 - 30	0.5 - 52 / 0.15 - 16
Maximal lifting height	[ft] / [mm]	14 / 4,300	14 / 4,300
Chain size	[ft] / [mm]		0.17 x 0.48 / 4.2 x 12.2
Group of mechanisms	FEM / ISO	4m / M7	4m / M7; 3m / M6; 2m+ / M5+
Supply voltage	[V AC]		380 - 480
Frequency	[Hz]		50/60
Control voltage	[V DC]		24
Output	[kW]		0.94
Hoist motor duty factor	[%]		15 % [VSmin] / 60 % [VRated]
C dimension with long suspension bracket	[in] / [mm]		34.8 / 884.5
C dimension with external load sensor option	[in] / [mm]		31.3 / 790
Equipment length	[in] / [mm]		19.8 / 502
Weight	[lbs] / [kg]		60 / 27
Temperature range	[F°] / [°C]		-4 to 104 / -20 to +40 (without reduction in CDF) 122 / 50 (30 % CDF)
Protection class / insulation class			IP55 / F

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