# We find the right solution to meet your needs.

Demag Cranes & Components has the right hoist for every business and every load. In order to select the best product for your individual needs from the wide variety of sizes and versions, just fill in the following fax form and send it to us or your dealer. You will promptly receive a recommended solution with the corresponding offer.

440 240 2074

440-246-38/4
Please send the quote to:
Company
Attention of
Department
Address
City/State/ Zip Code
Telephone
Fax
E-mail
lb (kg)
ox. hours
ox. ft (m)
(m/min) Girder profile dimensions
Operating voltage
n(m/min)





# Demag DC-Pro Chain Hoist Demag DCM-Pro Manulift

The New High Performance Hoists





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# Demag hoist units: Perfect load handling

Selection Criteria

Hoist Designer/e-tools

Selection and Dimension Tables

Technical Data,

Fax service

High productivity, efficiency and reliability are the most important requirements for state-of-the-art material

handling systems. Demag Cranes & Components develops and produces material handling solutions for all industries and for companies of all sizes, from small workshops to major industrial corporations.

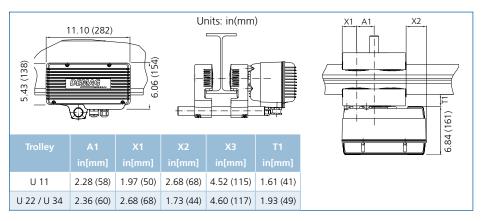
Contents	Page	DEMAG
DC-Pro Chain Hoist		4000
A New Industry Standard	1	
Standard Features	2 – 3	
Increased Performance, More Speed	4	
Improved Safety and Reliability	5	
Control Pendant	6 – 7	
Commissioning and Maintenance	8 – 9	
		i i i i i i
DCM-Pro Manulift		
DCM-Pro Manulift	10 – 11	_\\\
•		D DEMAG ©
Accessories	42 45	0,0
Pillar and Wall-mounted Slewing Jibs	12 – 15	
KBK Track and Crane Installations	16 – 17	
Trolleys and Electric Drives	18 – 21	
Clamp-fitted Buffers and Magnets	22	
Service	23	
Taskwical Data and Calastics Task		
Technical Data and Selection Tools		

24 - 25

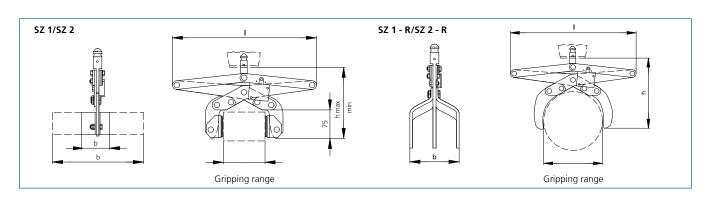
26 – 33

35

# E 11/E 22/E 34 travel drive on U 11/U 22/U 34 trolley dimensions



### Pantograph tongs for load capacity up to 275 lb (125 kg) dimension table



Range						Size			
	2.36–3.15 (60–80)					SZ 1-08-1	265 701 44		
	3.15–4.13 (80–105)	2.36 (60)	14.57 (370)	7.48 (190)	10.43 (265)	SZ 1-10-1	565 601 44	7.72 (3.5)	
	4.13–5.12 (105–130)					SZ 1-13-1	565 702 44		
	5.12-6.10 (130-155)					SZ 1-15-1	565 602 44		
	6.10-7.09 (155-180)	2.36 (60)	14.57 (370)	7.48 (190)	10.43 (265)	SZ 1-18-1	565 703 44	8.16 (3.7)	
	7.09–8.07 (180–205)					SZ 1-20-1	565 603 44		
SZ 1	2.36–3.15 (60–80)					SZ 1-08-2	565 704 44		
	3.15–4.13 (80–105)	7.87 (200)	14.57 (370)	7.48 (190)	10.43 (265)	SZ 1-10-2	565 604 44	9.48 (4.3)	
	4.13–5.12 (105–130)					SZ 1-13-2	565 705 44		
	5.12-6.10 (130-155)						SZ 1-15-2	565 605 44	
	6.10-7.09 (155-180)	7.87 (200)	14.57 (370)	7.48 (190)	10.43 (265)	SZ 1-18-2	565 706 44	9.92 (4.5)	
	7.09–8.07 (180–205)					SZ 1-20-2	565 606 44		
	1.57–5.91 (40–150)	4.72 (120)	14.57 (370)	8.86 (225)	16.54 (420)	SZ 1-R-15	565 608 44	8.82 (4.0)	
	5.51-8.27 (140-210)					SZ 2-21-1	565 712 44		
	8.27-10.83 (210-275)	2.36 (60)	20.47 (520)	7.48 (190)	16.34 (415)	SZ 2-27-1	565 612 44	10.36 (4.7)	
	10.83–13.39 (275–340)					SZ 2-34-1	565 613 44		
SZ 2	5.51-8.27 (140-210)	7.87 (200)	20.47 (520)	7.48 (190)	16.34 (415)	SZ 2-21-2	565 715 44	11.91 (5.0)	
	8.27–10.83 (210–275)	7.07 (200)	20.47 (320)	7.40 (190)	10.54 (415)	SZ 2-27-2	565 615 44	11.91 (5.0)	
	10.83–13.39 (275–340)	7.87 (200)	20.47 (520)	7.48 (190)	16.34 (415)	SZ 2-34-2	565 616 44	12.57 (5.7)	
	3.94–11.81 (100–300)	6.30 (160)	20.47 (520)	2.80 (325)	24.41 (620)	SZ 2-R-30	565 618 44	11.69 (5.3)	

# Find your hoist

**DEMAG** 

**www.demag-hoistdesigner.com** is the website address where all important data and facts on the new Demag DC-Pro chain hoist and Manulift DCM-Pro can be found.

This information and planning platform provides you with a comprehensive product overview and contains all the data you need for project engineering. You can also download the CAD drawings of the entire Demag chain hoist range and integrate them into your design drawings.

Suitable hoists and accessories can be selected in this way.
A practical and intuitive user interface ensures that you find the right solution to meet your needs quickly and easily.

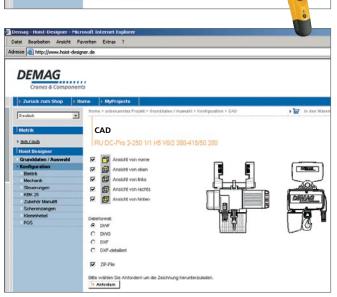
The Demag Internet order system at **www.demag-shop.com** also makes it possible

to order chain hoists and components immediately.

Datei Bearbeiten Ansicht i dresse http://www.hoist-des	3.000					
	igner.de					
DEMAG						
Cranes & Compone						
Cranes & Compone	nts					
Zurück zum Shop	Home   MyProjects					
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Deutsch	Home > unbenanntes Projekt > Oru	n-ddaten / Ausen	ahl > Auswah	I technischer Para	meter	
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Metrik						
A STATE OF THE STA	Ble.					
» mm./.insh	Results					
Hoist Designer	The state of the s					
Grunddaten / Auswahl	Тур		Hubhohe			Flanschbreite
Auswahl nach	DC-Pro 1-80 1/1 H5 V8/2	80 kg	5m	8/2 m/min	4m	
technischen Daten	DC-Pro 1-80 1/1 H8 V8/2	80 kg	8 m	8/2 m/min	4m	
Auswahl nach	CF DC-Pro 1-80 1/1 H5 V8/2	80 kg	5 m	8/2 m/min	4n	50 - 91 mm
Bauformschlüssel	RU DC-Pro 1-80 1/1 HS V8/2	80 kg	5 m	8/2 m/min	46	58 - 200 mm
Auswahl nach	CF DC-Pro 1-80 1/1 H8 V8/2	80 kg	0 m	8/2 m/min	4m	50 - 91 mm
Bauformschlüssel	DC-Pro 1-80 1/1 H9 V8/2	80 kg	9 m	8/2 m/min	4m	
(Schnelleinstieg)	RU DC-Pro 1-80 1/1 H5 V8/2	80 kg	5 m	8/2 m/min	4n	201 - 310 mm
Auswehl nach	DC-Pro 2-80 1/1 H5 V16/4	80 kg	5 m	16/4 m/min	46	
Bestelnummer	DC-Pro 1-80 1/1 H10 V8/2	80 kg	10 m	0/2 m/min	4m	
	RU DC-Pro 1-80.1/1 H8 V8/2	80 kg	8 m	8/2 m/min	4m	58 - 200 mm
	DC-Pro 1-80 1/1 H11 V8/2	80 kg	11 m	8/2 m/min	4m	
		80 kg	12 m	8/2 in/min	40	
	DC-Pro 1-80 1/1 H12 V8/2	00 kg		8/2 m/min	4m	201 + 310 mm
		80 kg	8 m	0/2 minin		
	DC-Pro 1-80 1/1 H12 V8/2		8 m 13 m	8/2 m/min	4m	
	DC-Pro 1-80 1/1 H12 V8/2 RU DC-Pro 1-80 1/1 H6 V8/2	60 kg				50 - 91 mm
	DC-Pro 1-80 1/I H12 V8/2 RU DC-Pro 1-80 1/I H6 V6/2 DC-Pro 1-80 1/I H13 V8/2	80 kg 80 kg	13 m	8/2 m/min	4m	50 - 91 mm
	0C-Pro 1-80 1/II H12 V8/2 8U DC-Pro 1-80 1/II H6 V8/2 0C-Pro 1-80 1/II H13 V8/2 CF DC-Pro 1-80 1/II H9 V8/2	80 kg 80 kg	13 m 9 m	8/2 m/min 8/2 m/min	4n 4n	50 - 91 mm
	0C-Pro 1-80 1/1 H12 V8/2 8U 0C-Pro 1-80 1/1 H0 V8/2 0C-Pro 1-80 1/1 H13 V8/2 0C-Pro 1-80 1/1 H3 V8/2 0C-Pro 2-80 1/1 H3 V16/4	80 kg 80 kg 80 kg 80 kg	13 m 9 m 8 m	8/2 m/min 8/2 m/min 16/4 m/min	4n 4n 4n	
	DC-Pro 1-80 1/I H12 V8/2 BU DC-Pro 1-80 1/I H9 V8/2 DC-Pro 1-80 1/I H3 V8/2 CF DC-Pro 1-80 1/I H9 V8/2 DC-Pro 2-80 1/I H9 V8/4 CF DC-Pro 2-80 1/I H5 V16/4	80 kg 80 kg 80 kg 80 kg 80 kg	13 m 9 m 8 m 5 m	8/2 m/min 8/2 m/min 16/4 m/min 16/4 m/min	4n 4n 4n 4n	

1001/g 4 m hodoverstand 128 kg 4,3 m 1001/g 5 m EU11-200 2001/g 6 m EU22-200 1315 kg 6001/g 11 m EU22-310 141-

► Kettenzüge anzeigen



33

# Demag DC-Pro chain hoist A New Industrial Standard

### All inclusive: popular options are standard

Many of the most popular features are integrated into the Demag DC-Pro chain hoist as standard; where as in other hoists they are optional. The DC-Pro chain hoist is a fully featured, highly versatile chain hoist, which can be installed and put into service in a minimal amount of time.



That is "Standard – Made by Demag", an investment with added value.

- The Demag **2**m<sup>®</sup> provides 20% longer service life and greater efficiency
- 24 V contactor control and operating limit switches improve safety and reliability
- Height-adjustable control cable allows for 10' of adjustment without the need to rewire
- Two suspension bracket sizes allows for the flexibility of mounting to a variety of trolleys
- Plug & Lift and Plug & Drive quick disconnects make installation and commissioning simple
- Gearbox, brake and slip clutch are maintenance-free for up to 10 years
- Smooth and fast load handling of loads with two hoist speeds
- Elapsed operating time counter and diagnostics interface provide information on the operating status – for scheduling planned maintenance
- The chain drive assembly can be replaced quickly and easily

### **Standard Features**

#### Certified

DC-Pro chain hoists are tested and approved by several standards authorities and also meet the demanding requirements of the CSA specifications. Electromagnetic compatibility is rated according to EN 61000-6-2 to 4 for interference immunity in industrial environments and for interference emissions in commercial and industrial environments.

The hoist motor, chain hoist and travel drive with IP55 enclosure and control pendants withIP65 enclosure to EN 60529 ensure high protection against moisture and dust penetration.



**(1**)

**Gearbox** – maintenance-free for up to 10 years. With an FEM Group of Mechanisms classification of 2m+, the DC-Pro sets a new standard with a rated service life of 1900 full load hours. In practical terms, this means the service life is extended by approx. 20%. The helical gearing inside the gearbox also reduces operating noise and provides smooth operation.



**Brake** – maintenance-free for up to 10 years (sizes DC 10–25 up to 5 years). Thanks to minimum wear, adjustment is not necessary; short and gentle run-on path. The brake is enclosed in the electrical panel and provides double protection from the elements.



Slip clutch – maintenance-free for up to 10 years. Integrated behind the brake in the power drive, it provides reliable protection against overload. Intergrated slip clutch monitoring prevents permanent damage to the slip clutch.



**Height adjustable control pendant cable** – The length of the control cable and, therefore, the suspension height of the control pendant can be infinitely varied for a hook path range of 6.56–16ft (2–5m) and 16–26 ft (5–8m). The excess control cable not required is accommodated behind the service cover. The control cable is rated for electric travel applications in 3 axes.





Control – 24 V contactor control, operating limit switches (upper/ lower) and elapsed operating time counter are standard on DCI-10. A geared limit switch with four contacts for fast-to-slow and limit cut-off is used as the operating limit switch on sizes DC 16 and 25.



Round steel chain – a special Demag chain of high-strength, hardened age-resistant material surface. Galvanized and other surface-treatment are available to protect against specific hostile environments.



**Suspension bracket** – DC-Pro chain hoists are suspended in pendulum fashion and make optimum use of the available height thanks to their low headroom dimension. DC-Pro units are supplied with short and long suspension brackets as standard and can always be attached to the superstructure with the optimal connection.





**Housing** – robust and weight-saving die-cast aluminium housing of compact and modern industrial design. UV-resistant powder-coated finish is resistant to nicks and scratches.



**Hoist motor** – high-performance motor with large safety reserves even at high ambient temperatures and in prolonged operation. 2 hoist speeds with F4 ratio as standard. (Insulation class F, 360 s/h and 60 % CDF)



Chain drive – The unit is a complete assembly consisting of the chain and chain guide which facilitates quick and easy replacement of the entire chain drive without having to remove the motor or gear parts. Downtimes can therefore be reduced significantly. The chain drive consists of highly wear-resistant materials for a long service life.





Chain collector box – suspended from a pivoting connection, is made of tough, flexible and particularly impact-resistant plastic; capacity for up to 26ft (8m) hook path. A flexible chain container for chain lengths up to 131ft (40m) as well as special lengths up to 393ft (120m).



**Bottom block** – hoist up to 2200 lb (1000 kg) are supplied with single chain fall for improved ergonomic handling of the hook. Chain wear is simultaneously reduced, since no chain return arrangement is required. The new, compact and particularly ergonomic DC bottom block is used for 2/1 reeving arrangements. The cut-off springs required for the limit switches are integrated inside the bottom block and therefore save 2.36in (60mm) of the valuable headroom dimension.

## Increased performance, more speed



Increased performance, improved ergonomics, safety, and reliability for greater productivity. The performance features of the new DC-Pro chain hoist provide for optimum efficiency.

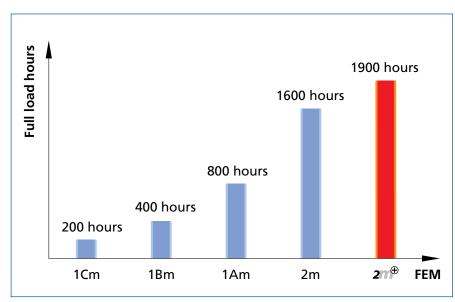
### Sensitive and fast

DC-Pro units can be integrated into your work and production processes flexibly and precisely. While the high lifting speed guarantees fast and effective operation at a minimum of 6 ft/min, the slow lifting speed ensures that loads are placed gently and precisely.

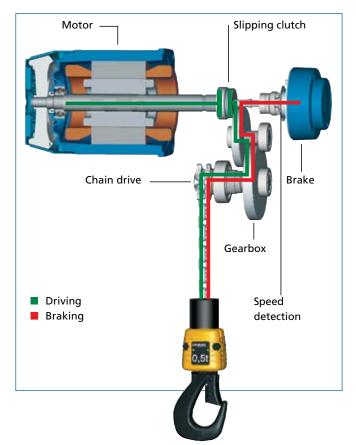
# 277 – an even longer service life for greater efficiency.

In practical terms, Demag **2**n<sup>®</sup> means the service life is extended by approx. 20 % in comparison with the conventional 2m classification for chain hoists FEM rating. This results in significantly prolonged time between service intervals and general overhauls. This extra operating life is only offered by the new Demag DC-Pro chain hoist.

#### **Duration of service in full load hours**



# Improved safety and reliability





Thanks to the completely new safety concept developed for the Demag DC-Pro chain hoist, the gearbox, brake and coupling operate maintenance free for up to ten years (brake for sizes DC 10–25 up to 5 years). The brake-coupling system ensures that the load is held securely in any operating situation. The load cannot drop. This is achieved by arrangement of the brake direct in the power drive chain (red line). Thanks to regenerative braking which minimizes wear, the brake never requires adjustment. Operating safety is generally improved by the single-fall design up to a load capacity of 2200 lb (1000 kg).

The combination of electronic control system and integrated speed sensors continuously monitor the hoist motor, clutch and brake, thus ensuring operator safety. The compact and light 24 V contactor control system also ensures that the system is subject to only minimum wear.

The standard control system includes

- 24 V contactor control
- Operating limit switches (upper/lower) to switch the hoist motion off in the highest and lowest hook positions – sizes DC 16 and 25 with geared limit switch with four contacts for fast-to-slow and limit cut-off
- Elapsed operating time counter can be read from the outside via the 7 segment display
- Speed detection
- Infrared diagnostics interface

# Control pendant: Always at the right operating height





Height adjustment of the control cable

The most favorable operating height for the control pendant can be easily adjusted on the Demag DC-Pro chain hoist. The adjusting mechanism integrated in the chain hoist housing enables the operator to change the suspension height of the control pendant easily and without the need for any tools or rewiring. The control cable is designed for an adjustment range of 10 ft. (3 m). The length of control cable that is not required stores behind the DC-Pro service cover. This innovation has been implemented for the first time in a chain hoist.

The adjusting mechanism also contains the strain relief arrangement for the control cable and can resist extreme tensile loads. The same applies to the control cable, which is made of a proven and particularly tough material. At the same time, the control cable is flexible and therefore easy to handle.

# Ergonomics: All in good hand

The DSC control pendant precisely interprets control commands in any situation. It facilitates fatigue-free operation for right and left-handed operators both with and without gloves. Furthermore, electrical interlocks prevent simultaneous initiation of motions in both directions.

Demag control pendants feature an optimized ergonomic sloping design for convenient operation. They are made of high-quality plastic which is highly resistant to impacts and are therefore extremely durable. With bending and impact protection as well as an IP 65 enclosure that protects against dust and moisture, DSC units are ideally suited for the demanding requirements of industrial applications. The DSC control pendant is specially developed for push-travel DC-Pro chain hoists and fitted with two-stage buttons. The DSE 10-C control pendant is used for electric travel applications with E 11/E 22 or E34 drives.



### The control pendant can be changed quickly and easily



Slide the protective sleeve upwards over the control cable



Fit the plug with its bayonet connector into the control pendant and turn until it locks



Push protective sleeve downwards

# Commissioning: Plug & Lift and Plug & Drive

A great benefit offered by the new Demag DC-Pro chain hoist is simple commissioning. The pivoting suspension bracket and infinitely adjustable flange width of the U 11, U 22 and U34 trolleys make the mechanical parts easy to install.

The plug-in connections beneath the service cover and the power plugs, included in the scope of delivery, make the electrical parts simple to connect. This enables the DC-Pro to be ready for operation in a minimum of time.



Pivoting service cover

### Integrated beneath the cover

You have quick access to all important components for service and commissioning beneath the service cover.

- Storage for 10 ft. (3 m) of control cable
- Plug-in electrical connections for power cable, control cable, limit switches and trolley
- Strain relief for power supply and trolley supply cables
- Chain guide
- Chain lubrication

# Maintenance: Fast and simple

All main drive components of the Demag DC-Pro chain hoist, such as the gearbox, brake and coupling, operate without the need for any maintenance for up to ten years (maintenance-free brake for up to 5 years for sizes 10–25). The outstanding Demag quality of all components provides for a long service life even under heavy use. The few preventative maintenance measures can be carried out quickly and easily thanks to the service-friendly design of the DC-Pro.

The chain drive of the DC-Pro, for example, is designed as a compact unit which is slid into place and can be replaced in a minimum of time without the need to disassemble motor or gearbox parts. Long downtimes as a result of maintenance work are now a thing of the past.



### Chain drive

# Diagnosis – wireless via display or via infrared

Service technicians can read the standard operating time counter or call up the relevant information on the operating status – from the outside via the display on the base of the chain hoist housing or by means of the diagnosis interface via infrared data transfer.



Diagnosis interface

# **Demag DCM-Pro Manulift:**

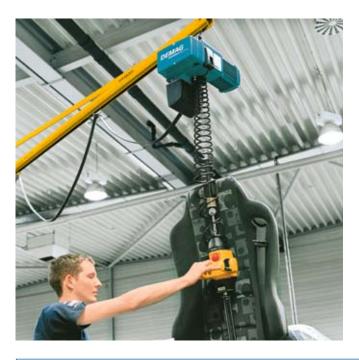
Safe, fast and ergonomic single-handed load handling at the workplace

The DCM-Pro Manulift was developed for handling loads quickly and safely with only one hand. The new DCM-Pro is based on the DC-Pro chain hoist and the DSM-C control unit which is connected to it by a helical cable. The control unit is rigidly connected to the load handling attachment for right and left-handed operation, the operator only needs one hand to operate the chain hoist and guide the load.

The quick-disconnect coupling enables a wide variety of load handling attachments to be changed with ease. All Manulift load handling attachments are fitted with a connecting pin with a swivel lock, which snaps into the quick-disconnect coupling. It can be easily removed by lifting the unlocking sleeve.

Manulift units can travel on Demag KBK profile sections and I-beams (see pages 16 - 23), which enables them to be flexibly integrated into work and production processes.





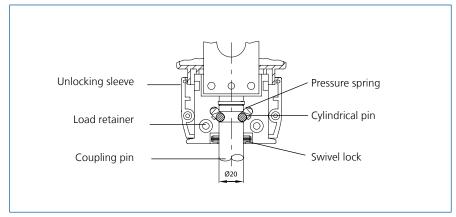


### Versatile adaptability to any task

A variety of proven load handling attachments facilitate optimum and flexible adaptation of the "Manulift" chain hoist to meet your needs. They range from normal load hooks and various pantograph-type tongs to parallel gripper systems. The DCM-Pro Manulift can be used with specially developed load handling attachments.

The universal coupling pin is used to connect customerdesigned attachments. It is provided with an M12 internal thread for connecting special load handling attachments. Manulift load handling attachments can also be connected to the DC-Pro chain hoist load hook by means of an adapter. The versatility and flexibility of the new Demag chain hoist provide for improved load handling efficiency at the workplace.





The guick-change coupling on the DSM-C control unit



PGS-parallel gripper 125 kg



Pantograph tongs for gripping square goods



Pantograph tongs for gripping round goods 125 kg



Load hook adapter up to 250 kg



Load hook adapter with connected PGS shaft gripper

# PGS parallel gripper system: Firm hold on loads up to 125 kg

### **PGS** box grippers

The narrow design and short opening path of the grippers make it possible to pick up and deposit goods safely and easily, even in restricted spaces, and place them direct into cartons. The 4"(100 mm) wide gripping range makes it possible to transport both the actual goods as well as a packed unit using the same gripper.

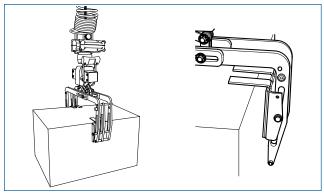
### **PGS** shaft grippers

Various shaft grippers are available which can be adapted to different shaft types and applications by changing the gripper jaws.

When fitted with a shaft support, they can be used to pick up shafts with various diameters or an unknown centre of gravity. This significantly improves the safety of handling tasks that, until now, have always involved a certain risk.







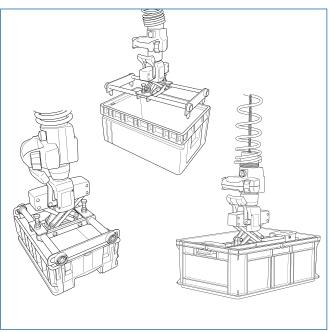
### **PGS** container grippers

The various container grippers can be supplied for fixed or adjustable container widths. They are easily adjusted to the relevant container size by lifting and turning the locking pins, and by pushing the grippers together or pulling them apart until the stops are reached..

Company and a second	Container size					
Container type	600 x 400	400 x 300				
Euro container	rigid	rigid				
KIT ( \/DNAA )	rigid	rigid				
KLT ( VDMA )	adjustable					
	rigid	rigid				
Various containers such as PDB, ARCA, MF, SSI Schäfer, Eurotec, Utz KLT, Bito	adjus	table				

Grippers for other container types on request





Grippers for various container types

# Slewing jibs facilitate load handling at the workplace

Pillar- and wall-mounted slewing jibs along with the DC-Pro chain hoist provides cost effective support at the workplace and facilitate space-saving load handling in production, storage and shipping. When used direct on

production machinery, they help to cut set-up and idle times. Wall- and pillar-mounted slewing jibs cranes are suitable for virtually any application as standard.





### Wall-mounted slewing jibs

These cranes, which take up no floor space, can be used wherever load-bearing concrete walls or pillars are available. The slewing rotation up to 270° and the possibility to fit them to machinery and installations makes them ideal for a wide range of applications.

### Pillar-mounted slewing jibs and cranes

The floor space serviced by these free-standing cranes is fully utilized thanks to their slewing range of up to 300°. They can be used for many applications. They can be erected indoors or outside and used for handling goods at loading ramps or for serving machinery. These cranes provide maximum hook paths even where only little headroom is available. The pillar has only a small footprint and is either anchored to the foundations using anchor rods or to an existing concrete floor using anchor bolts.

KBK slewing jibs feature struts and enclosed profile section of rail and offer a low deadweight for load capacities up to 2200 lb (1000 kg). Loads can be moved quite simply by hand.

See brochure 93007449 for further information on pillar and wall-mounted slewing jibs and cranes



### Efficient material flow with KBK monorail and crane installations

Interlinking production processes, serving machinery, moving materials – all handling and transport tasks have one thing in common: loads not only have to be lifted and lowered, but horizontal motions are also required.

The KBK crane construction kit is the ideal horizontal transport system for the DC-Pro and DCM-Pro Manulift. KBK installations are used for both linear and tow dimensional load movement.





### **Suspension cranes**

Single and double-girder suspension cranes are used for rectangular work area load handling. The low deadweight enables loads to be easily moved by hand. Travel drives are also available for precise positioning of larger loads.

### **Portal cranes**

Portal cranes from the KBK system are mounted on castors and can be easily moved. When fitted with the DC-Pro chain hoist, this makes them ideal and flexible lifting devices, above all for repair and assembly work.



KBK sections are available in various sizes for different load capacities

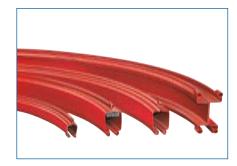
Many components are available to create efficient overhead materials handling solutions to meet specific application requirements.

The KBK crane construction kit is a suspension system which uses no valuable floor space and therefore leaves production area free. It is completely modular in design, all connections are bolted or fitted. This enablesinstallations to be modified or extended easily and cost-effectively.



### **Suspension monorails**

Suspension monorails are the preferred linear solution to connect pick-up and deposit loads. There are many possible designs from simple, manually controlled straight sections to complex, semi or fully automated closed-circuit monorail systems enable a wide variety of applications to be implemented. Straight and curved sections, track switches and turntables facilitates flexible costeffective solutions to the most diverse operating conditions.





See brochure 93007249 for further information on track and crane systems from the KBK crane construction kit

KBK Aluline – aluminium profile sections

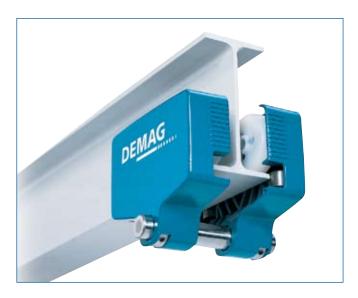
# Manual-travel trolleys for simple horizontal movement

### **U Style Manual Trolley**

The new U style manual trolley generation is available in two sizes for load capacities up to 2425 lb (1100 kg) (U 11), 4850 lb (2200 kg) (U 22) and 7500 lb (3400 kg) (U 34). The flange width can be infinitely adjusted by means of two adjusting rings and covers that range from 2.28" (58 mm) to 7.87" (200 mm), and 7.91" (201 mm) to 12.20" (310 mm). This facilitates fast and simple installation.

The travel rollers, which are made of high-strength and wear-resistant Polyamide, provides for smooth operating characteristics and low rolling resistance. Optional steel rollers are also available for special ambient conditions, e.g. high temperatures. The lateral steel guide rollers enable the curve-negotiating properties down to the





minimum radius of 3.28" (1000 mm) and minimize girder wear. Drop-stops are integrated into the side cheeks. Each side cheek consists of an aluminium diecasting with a powder-coated finish. The universal design of the travel rollers enables them to be used for operation on straight and sloping profile sections.

Manual-travel U style trolleys are designed for simple addition of the E electric travel drive at a later date.



### **CF 5 click-fit trolley**

Simply clicked onto the girder, curve-negotiating Click-fit trolleys are ready for operation with a load capacity of up to 1200 lb (550 kg).

The flange widths from 2.28" to 3.58" (58 to 91 mm), the minimum curve radius of 31.50" (800 mm) and easy adaptability to standard section or parallel flange girders make them suitable for universal applications. The integrated drop-stop and lift-off protection provides for safe operation.

# Plug & Drive with electric trolleys

### E trolley

The E 11, E 22 and E 34 electric travel drives were specially developed for operation with the new DC-Pro chain hoist. This significantly extends the range of applications of this state-of-the-art hoist.

The travel drives can be adapted to the U 11–U 34 trolleys. Particularly short approach dimensions can be achieved when the units are mounted in a vertical arrangement. Fast retro-fitting and commissioning offer further benefits as no changes need to be made to the manual-travel trolleys.



The drive is simply connected to the DC-Pro chain hoist using quick disconnect connectors and operated by means of the newly developed DSE 10-C control pendant. The control pendant for long and cross travel is simply fitted by means of a locking connector. The E 22 travel drive is used as standard for the KBK rail system with the new RF 125 friction wheel travel drive.

The E electric travel drive features a state-of-the-art, compact industrial design and offers outstanding travel characteristics. The control system integrated in the

travel unit provides for soft starting and braking for low-sway load handling. A convenient load-sway damping system can be activated for the cross-travel motion. The speeds and acceleration and braking rates can also be modified by means of the DSE-10 C control pendant, if required. All electrical connections are of plug-in design.

The trolleys can also be fitted with an optional cross-type limit switch, either with fast-to-slow and limit switch cut-off or only with limit switch cut-off.





# Clamp-fitted buffers to limit travel

KPA/KPT clamp-fitted buffers are the ideal solution to limit travel and are suitable for all DC-Pro trolleys. They can be fitted to sloping and parallel I-beam girders quickly and easily. The travel range is shortened or extended by simply relocating the buffers.

They can be adapted to flange widths from 1.97" to 11.81" (50 to 300 mm) for universal applications.

They are suitable temperature ranges from -4°F to +158°F (-20°C to + 70°C) as well as for operation outdoors thanks to adequate resistance to ageing, ozone and weather conditions. Furthermore, they offer good resistance to acids and lyes. The tightening torque details are cast into the buffer to ease assembly.



# Service – ready to help around the clock

### All over the world

We offer you service around the clock with our worldwide network of Demag expert service teams and Demag partners. This ensures the highest availability and safety in your installation.



### Efficiency

Maintenance work carried out during scheduled shutdowns to ensure your installation operates at optimumal efficiency.

Demag IDAPSY enables service work to be carried out quickly. This means the diagnosis of the problem can be quickly indentified and the hoist can be serviced and quickly put back in operation.

### Your individual service package

Demag Service and our Demag partners offer a comprehensive portfolio of services to ensure the reliability of your installation throughout its entire lifecycle:

- Routine inspections according to relevant accident prevention regulations
- Inspection and maintenance
- Fault diagnosis
- Service training for operators and maintenance engineers

### Service systems: Demag IDAPSY

We have developed a new integrated service system for the new Demag DC-Pro chain hoist: Demag IDAPSY. IDAPSY stands for Inspection **D**iagnosis **A**pplication **S**ystem. And these are your benefits:

#### Service Recording

By recording utilization of the installation, Demag IDAPSY facilitates preventative maintenance. This assures a high level of reliability.

#### Analysis

Recorded data provides an excellent basis for analysis. The load spectrum recorder can be read out or error messages can be called up for maintenance or repair purposes.

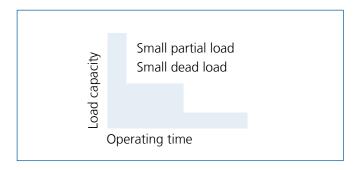


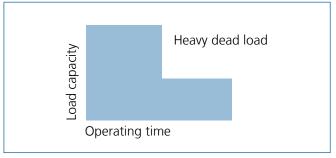
### Selection criteria

The size of the hoist is determined by the load spectrum, average operating time per working day, capacity and reeving.

- 1. What are the operating conditions?
- 2. What is the specified safe working load?
- 3. To what height must the load be lifted?
- 4. What is the required lifting speed?
- 5. Do the loads need to be lifted and lowered with high precision?
- 6. Is horizontal load travel necessary?
- 7. How is the hoist to be controlled?

### The load spectrum



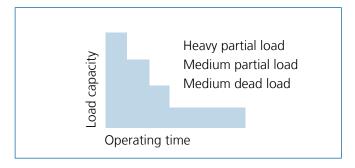


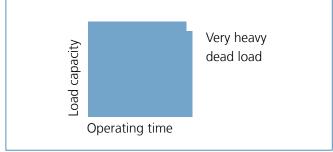
### 1 Light

Hoist units which are usually subject to very small loads and only in exceptional cases to maximum loads.

### 3 Heavy

Hoist units which are usually subject to medium loads but frequently to maximum loads.





#### 2 Medium

Hoist units which are usually subject to small loads but rather often to maximum loads.

### 4 Very heavy

Hoist units which are usually subject to maximum and almost maximum loads.

The group is determined by the load spectrum and operating time.

	Load spectru	ım			erating time in hours	
L1	Light		2-4	4-8	8-16	over 16
L2	Medium		1-2	2-4	4-8	8-16
L3	Heavy		0.5-1	1-2	2-4	4-8
L4	,	Very heavy	0.25-0.5	0.5-1	1-2	2-4
	Group	of mechanisms to FEM	1Am	2m+	3m	4m
	0.04p	or medianisms to rem	17 411	2	5	
Ree	ving	Range		Si	ze	
Capacity	in lb (kg)					
1/1	2/1					
		Demag DC ch	ain hoist			
175 (80)		DC-Pro 1 / DC-Pro 2				175 (80)
220 (100)		DC-Pro 1 / DC-Pro 2				220 (100)
275 (125)		DC-Pro 1 / DC-Pro 2				275 (125)
350 (160)		DC-Pro 2				350 (160)
350 (160)		DC-Pro 5				350 (160)
440 (200)		DC-Pro 2			440 (200)	
440 (200)		DC-Pro 5				440 (200)
550 (250)		DC-Pro 2		550 (250)		
555 (252)		DC-Pro 5				550 (250)
695 (315)		DC-Pro 5				695 (315)
695 (315)		DC-Pro 10				695 (315)
880 (400)		DC-Pro 5			880 (400)	
880 (400)		DC-Pro 10				880 (400)
1100 (500)		DC-Pro 5		1100 (500)		
1100 (500)		DC-Pro 10				1100 (500)
1390 (630)		DC-Pro 10				1390 (630)
1760 (800)		DC-Pro 10			1760 (800)	
2200 (1000)		DC-Pro 10		2200 (1000)		
2750 (1250)		DC-Pro 10	2750 (1250)			
2750 (1250)		DC-Pro 16			2750 (1250)	
	2750 (1250)	DC-Pro 10				2750 (1250)
3500 (1600)		DC-Pro 16		3500 (1600)		
	3500 (1600)	DC-Pro 10			3500 (1600)	
4400 (2000)		DC-Pro 25		4400 (2000)		
FF00 (2500)	4400 (2000)	DC-Pro 10	FF00 (0F05)	4400 (2000)		
5500 (2500)	FF00 (2F00)	DC-Pro 25	5500 (2500)			
	5500 (2500)	DC-Pro 10	5500 (2500)	7000 (2200)		
	7000 (3200) 8800 (4000)	DC-Pro 16 DC-Pro 25		7000 (3200)		
	, ,	DC-Pro 25 DC-Pro 25	11000 (E000)	8800 (4000)		
	11000 (5000)	DC-Pro 25	11000 (5000)			

### **Example:**

**—** 

Capacity 250 kg

Load spectrum "medium" from table Lifting speed 8 m/min;

1/1 reeving

average hook path 4 m;

Number of cycles/hour 20

Working time/day 8 hours

# The average operating time per working day is estimated or calculated as follows:

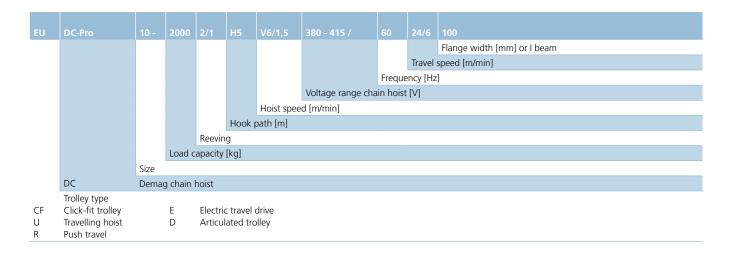
Operating time/day =  $2 \cdot \text{average hook path} \cdot \text{no. of cycles/h} \cdot \text{working time/day}$ 

$$= \frac{2 \cdot 4 \cdot 20 \cdot 8}{60 \cdot 8} = 2.66 \text{ hours}$$

For the medium load spectrum and an average daily operating time of 2.66 hours, the table shows group 2m+. For a load capacity of 250 kg, the diagram shows size DC-Pro 2-250.

# Technical data

### Model code

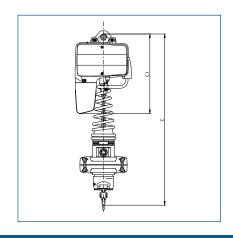


## Demag DCM-Pro Manulift selection table

Capacity	Manulift	Hoist	speed	Motor size	Lift	Group of mechanisms	Reeving	Max. weight for 2,8 and 4,3 hook path
lb [kg]	Туре	ft/min at 60 Hz m/min at 60 Hz			ft [m]	FEM		lb [kg]
275 (125)	DCM-Pro 1	32/8	(9.6/2.4)		9 (2.8)	4m		
275 (125)	DCM-Pro 2	64/16	(19.2/4.8)	ZNK 71 B 8/2	9 (2.8) and	4111	1 /1	49/51 (22 / 23)
FF0 (2F0)	DCM-Pro 2	32/8	(9.6/2.4)			2m+ 1)	1/1	
550 (250)	DCM-Pro 5	64/16	(19.2/4.8)	ZNK 80 B 8/2	14 (4.3)	4m		62/64 (28/29)

1) 2m+ corresponds to 1900 hours at full load

### Demag DCM-Pro Manulift dimension table



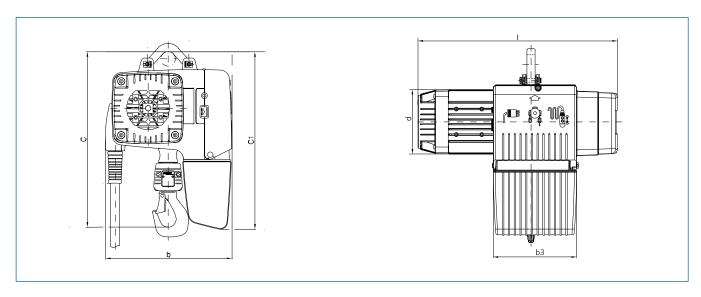
	Sho	rt suspensio	n bracket	Long suspension bracket				
c:	C in(		C1 in(mm)	C in(		C1 in(mm)		
Size	for hoo	ok path	Chain collector box	for hook path		Chain collector box		
		14 ft (4.3m)				H5		
DCM-Pro 1	25.60 (635)	27.76 (705)	13.19 (335)	26.50 (673)	29.25 (743)	14.69 (373)		
DCM-Pro 2	25.60 (635)	27.76 (705)	13.19 (335)	26.50 (673)	29.25 (743)	14.69 (373)		
DCM-Pro 5	26.77 (680)	29.53 (750)	15.55 (395)	28.27 (718)	31.02 (788)	17.13 (435)		

## DC-Pro chain hoist selection table

Capacity	Chain hoist		Motor size	Hook path <sup>2)</sup>	Group of mechanisms	Reeving	Max. weight at H5/H8 respect. H4
lb [kg]	Type ft/min at 60 Hz [m/min at 60 Hz			ft [m]	FEM		lb [kg]
275 (125)	DC-Pro 1	32/8 (9.6/2.4)	ZNK 71 B 8/2		4m		49/53 (22/24)
275 (125)	DC-Pro 2	64/16 (19.2/4.8)	ZINK / I D 0/2		4111		49/33 (22/24)
550 (250)	DC-Pro 2	32/8 (9.6/2.4)	ZNK 71 B 8/2		2m+ 1)		49/53 (22/24)
550 (250)	DC-Pro 5	64/16 (19.2/4.8)	ZNK 80 A 8/2	16 & 26	4m		62/66 (28/30)
1100 (500)	DC-Pro 5	32/8 (9.6/2.4)	ZNK 80 A 8/2	(5 & 8)	2m+ 1)	1/1	62/66 (28/30)
1100 (500)	DC-Pro 10	48/12 (14.4/3.6)	ZNK 100 A 8/2		4m		106/115 (48/52)
2222 (4222)	DC D:- 10	24/6 (7.2/1.8)	ZNK 100 A 8/2		2m+ 1)		106/115 (48/52)
2200 (1000)	DC-Pro 10	48/12 (14.4/3.6)	ZNK 100 B 8/2		2m+ "		124/133 (56/60)
4400 (2000)	DC-Pro 10	24/6 (7.2/1.8)	ZNK 100 B 8/2	16 & 26 (5 & 8)	2m+ 1)	2/1	144/161 (65/73)
4400 (2000)	DC-Pro 25	32/8 (9.6/2.4)	ZNK 100 C 8/2	13 (4)	Zm+ *	1/1	250 (113)
5500 (2500)	DC-Pro 10	16/4 (4.8/1.2)	ZNK 100 B 8/2	16 & 26 (5 & 8)	1Am	2/1	144/161 (65/73)
5500 (2500)	DC-Pro 25	32/8 (9.6/2.4)	ZNK 100 C 8/2	13 (4)	IAIII	1/1	250 (113)
7000 (2200)	DC-Pro 16	16/4 (4.8/1.2)	ZNK 100 B 8/2	12 (4)	2m+ 1)	2/1	242 (110)
7000 (3200)	DC-P10 16	24/6 (7.2/1.8)	ZNK 100 C 8/2	13 (4)	ZIIIT	2/1	243 (110)
8800 (4000)	DC-Pro 25	16/4 (4.8/1.2)		13 (4)	2m+ 1)	2/1	276 (125)
11000 (5000)	DC-FIU 25	10/4 (4.8/1.2)		13 (4)	1Am	2/1	270 (125)

<sup>1) 2</sup>m+ corresponds to 1900 hours at full load 2) Longer hook paths possible, please consult Demag

# Demag DC-Pro chain hoist dimension tables



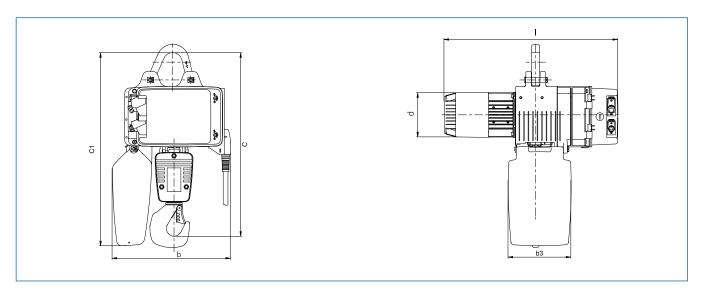
DC-Pro 1-10, up to 2200 lb (1000 kg) 1/1 reeving

Size	Motor		Suspension Bracket								
		short	short long		ort						
					Chain collector box size						
					Н8	Н5	Н8			b3	
		C in						in(mm)		in(mm)	d in(mm)
DC-Pro 1		12.83	14.33	13.19	14.37	14.69	15.87	10.55	16.61	7.20	4.88
DC-Pro 2	ZNK 71 B 8/2	(326)	(364)	(335)	(365)	(373)	(403)	(268)	(422)	(183)	(124)
DC-Pro 5	ZNK 80 B 8/2	14.88	12.44	15.55	16.73	17.13	18.31	11.02	18.43	7.68	5.94
		(378)	(316)	(395)	(425)	(435)	(465)	(280)	(468)	(195)	(151)
DC-Pro 10	ZNK 100 A 8/2	18.58	19.88	19.41	22.91	20.71	24.21	13.74	20.79	8.94	7.36
DC-PIO IO	ZINK 100 A 6/2	(472)	(505)	(493)	(582)	(526)	(615)	(349)	(528)	(227)	(187)
DC-Pro 10	ZNK 100 B 8/2	18.58	19.88	22.91	22.91	24.21	24.21	13.74	22.76	8.94	7.36
DC-P10 10	ZINK 100 B 8/Z	(472)	(505)	(582)	(582)	(615)	(615)	(349)	(578)	(227)	(187)

# DC-Pro 10, 2750 to 5500 lb (1250 to 2500 kg) 2/1 reeving

Size	Motor			Suspensio	on bracke	t							
		short	long	sh	ort	lo	ng						
				Cł	nain collec	tor box si							
				Н5	Н8	Н5	Н8	Н5	Н8	Н5	Н8		
						b in(		b3 in	(mm)	l in(mm)	d in(mm)		
DC D::- 10	7NIZ 100 D 9/2	21.30	22.60	22.91	22.91	24.21	24.21	134.74	16.10	8.94	12.99	22.76	7.36
DC-Pro 10	ZNK 100 B 8/2	(541)	(574)	(582)	(582)	(615)	(615)	(349)	(409)	(227)	(330)	(578)	(187)

# Demag DC-Pro chain hoist dimension tables



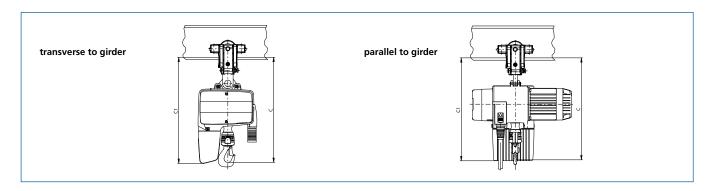
DC-Pro 16-25, 2750 to 5500 lb (1250 to 2500 kg) Reeving 1/1

Size	Motor				Chain collec		Chain collec	tor box size				
			Size 1	Hook path	Size 2	Hook path	Size 1	Size 2		Size 1	Size 2	
			C 1 in(mm)							b3 in		in(mm)
DC-Pro 16	ZNK 100 B 8/2	25.20	32.01	H14	35.16	H30	19.29	19.72	26.73	10.43	12.80	7.36
DC 110 10	ZIVIC 100 D 0/2	(640)	(813)	111-4	(893)	1150	(490)	(501)	(679)	(265)	(325)	(187)
DC-Pro 25	ZNK 100 C 8/2	25.20	32.01	H10	35.16	H20	19.29	19.72	28.82	10.43	12.80	7.36
DC-F10 23	ZINK 100 C 8/2	(640)	(813)	1110	(893)	1120	(490)	(501)	(732)	(265)	(325)	(187)

## DC-Pro 16-25, 5500 to 11000 lb (2500 to 5000 kg) Reeving 2/1

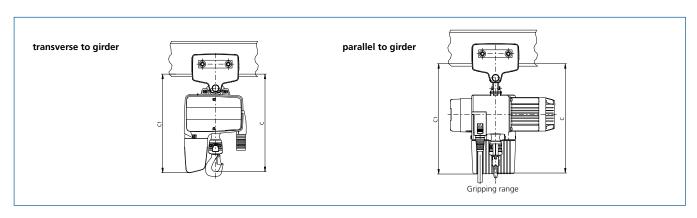
Size	Motor		Chain collector box size							Chain collec	tor box size	
			Size 1	Hook path	Size 2	Hook path	Size 1	Size 2		H5	Н8	
		in(mm)				b in(			b3 in		d in(mm)	
DC Do- 16	ZNK 100 B 8/2	28.94	32.01	117	35.16	1115	19.29	19.72	26.73 (679)	10.43	12.80	7.36
DC-Pro 16	ZNK 100 C 8/2	(735)	(813)	H7	(893)	H15	(490)	(501)	28.82 (732)	(265)	(325)	(187)
DC-Pro 25	ZNK 100 C 8/2	30.31	32.01	H5	35.16	H10	19.29	19.72	28.82	10.43	12.80	7.36
		(770)	(813)		(893)		(490)	(501)	(732)	(265)	(325)	(187)

## DC-Pro chain hoist with CF 5 trolley dimension table



		transverse to girder		parallel to girder					
Ci		C1 in	C1 in(mm)		C1 in(mm) C		C1 in(mm)		
Size		Chain coll	ector box		Chain col	lector box			
		H5			H5	Н8			
DC-Pro 1	15.16 (385)	16.34 (415)	17.51 (445)	14.96 (380)	16.14 (410)	17.32 (440)			
DC-Pro 2	15.16 (385)	16.34 (415)	17.51 (445)	14.96 (380)	16.14 (410)	17.32 (440)			
DC-Pro 5	16.93 (430)	18.78 (477)	19.96 (507)	16.73 (425)	18.58 (472)	19.16 (502)			

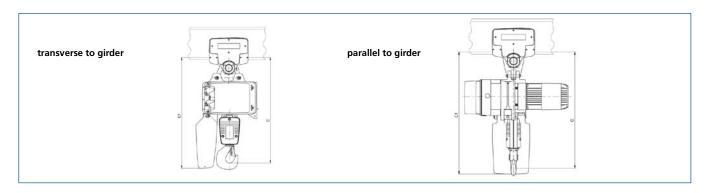
## Dimension table for DC-Pro 1–10 chain hoists with U 11, U 22 or U 34 trolleys



			tı	ransverse to gird	er	parallel to girder			
Sizo	Booving		С	C C1 in(mm)		С	C1 in(mm)		
Size Reeving		Trolley	Chain collector box			Chain collector box			
				Н5			Н5		
DC-Pro 1	1/1	U 11	14.88 (378)	15.35 (390)	16.54 (420)	16.38 (416)	16.34 (415)	17.52 (445)	
DC-Pro 2	1/1	U 11	14.88 (378)	15.35 (390)	16.54 (420)	16.38 (416)	16.34 (415)	17.52 (445)	
DC-Pro 5	1/1	U 11	16.93 (430)	17.80 (452)	18.98 (482)	18.43 (468)	18.78 (477)	19.96 (507)	
DC Pro 10	1/1	U 11	20.63 (524)	22.76 (578)	26.26 (667)	21.93 (557)	23.70 (602)	27.20 (691)	
DC-Pro 10	1/2	U 22 / 34	23.82 (605)	26.73 (679)	30.67 (779)	25.12 (638)	27.68 (703)	31.61 (803)	

For further information, see U 11/U 22/U 34 technical data 203 570 44.

## Dimension table for DC-Pro 16 and 25 chain hoists with U 22, U 34, RU 56 trolleys



Size	Reeving	Trolley	transverse to girder			parallel to girder			
			С	C1 in(mm)		С	C1 in	(mm)	
				Chain collector box			Chain col	lector box	
				Н5			Н5	Н8	
DC-Pro 16	1/1	U 22	27.72 (704)	34.53 (877)	37.68 (957)	28.98 (736)	35.79 (909)	38.94 (989)	
DC-P10 10	2/1	U 34	31.46 (799)	34.53 (877)	37.68 (957)	32.72 (831)	35.79 (909)	38.94 (989)	
DC-Pro 25	1/1	U 34	27.72 (704)	34.53 (877)	37.68 (957)	28.98 (736)	35.79 (909)	38.94 (989)	
	2/1	RU 56	33.46 (850)	35.16 (893)	38.31 (973)	34.72 (882)	36.42 (925)	39.57 (1005)	

# Trolley curve radii

Trolley size		Capacity	Runway girder						
			Push tr		Electric travel				
			Flange width	Rmin	Flange width	Rmin			
		lb[kg]							
CF 5		1200 (550)	1.97-3.58 (50-91)	2.62 (800)	-	-			
U 11 DC	EU 11 DC	2425 (1100)	2.28-12.20 (58-310)	3.28 (1000)	2.28-12.20 (58-310)	6.56 (2000)			
U 22 DC	EU 22 DC	4850 (2200)	3.23-12.20 (82-310)	6.56 (2000)	3.23-12.20 (82-310)	9.84 (3000)			
U 34 DC	EU 34 DC	7500 (3400)	3.23-12.20 (82-310)	6.56 (2000)	3.23-12.20 (82-310)	9.84 (3000)			
RU 56 DC	EU 56 DC	12350 (5600)	3.05-12.20 (98-310)	6.56 (2000) <sup>1)</sup>	3.05-12.20 (98-310)	8.20 (2500) 1)			

<sup>1)</sup> From flange width 4.17 (106 mm)

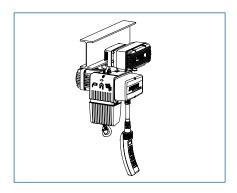
The specified curve radii apply for normal applications.

Please consult Demag for frequent curve travel (e.g. in automatic installations).

## Travel speeds

Capacity	Chain hoist	Reeving	Possible cross-travel speeds in approx m/min									
			V	14/3	V12/4		V24/6		V40/10			
lb[kg]	Тур		Trolley	Travel drive	Trolley	Travel drive	Trolley	Travel drive	Trolley	Travel drive		
175 (80)	DC-Pro 1											
to	to	1/1					U 11 DC	E 11 DC				
2200 (1000)	DC-Pro 10				-	-			-	-		
	DC-Pro 10	2/1					U 22 DC	E 22 DC				
2750 (1250)	DC-110 10						0 22 00					
2730 (1230)	DC-Pro 16 -	DC-Pro 16	-	-	RU 56 DC	ZBF 80 A 12/4	U 22 DC	E 22 DC	RU 56 DC	ZBF 80 A 8/2		
	DC 110 10				NO 30 DC		RU 56 DC	ZBF 71 A 8/2	110 30 DC	55 / . 5/2		
	DC-Pro 10	2/1			-	-	U 22 DC	E 22 DC	-	-		
3500 (1600)	DC D 16	1/1			RU 56 DC ZBF 80 A 12/4	U 22 DC	E 22 DC	RU 56 DC	ZBF 80 A 8/2			
	DC-Pro 16					ZBF 80 A 12/4	RU 56 DC	ZBF 71 A 8/2	NO 36 DC	ZBF 80 A 8/2		
4400 (2000)	DC-Pro 10	2/1	-	-	-	-	U 22 DC	E 22 DC	-	-		
4400 (2000)	DC-Pro 25	1/1	U 34 DC	E 34 DC	RU 56 DC	ZBF 80 A 12/4	RU 56 DC	ZBF 71 A 8/2	RU 56 DC	ZBF 80 A 8/2		
5500 (2500)	DC-Pro 10	2/1	U 34 DC	F 34 DC	-	-	-	-	-	-		
5500 (2500)	DC-Pro 25	1/1	U 34 DC	E 34 DC	RU 56 DC	ZBF 80 A 12/4	RU 56 DC	ZBF 71 A 8/2	RU 56 DC	ZBF 80 A 8/2		
7000 (3200)	DC-Pro 16		U 34 DC	E 34 DC	RU 56 DC	ZBF 80 A 12/4	RU 56 DC	ZBF 71 A 8/2	RU 56 DC	ZBF 80 A 8/2		
8800 (4000)	DC D 25	2/1			DIL EC DC	7DE 00 A 12/4	DILEC DO	7DE 00 A 0/2	DILLEC DC	7DE 00 D 0/2		
11000 (5000)	DC-Pro 25		-	-	RU 56 DC	ZBF 80 A 12/4	RU 56 DC	ZBF 80 A 8/2	RU 56 DC	ZBF 90 B 8/2		

# E 11/E 22/E34 travel drive selection table, 220–480 V, 50/60 Hz, 3 $\sim$



max. displaceable	Travel drive	Spe	ed at	Possible trolleys	Max. weight
weight incl. dead weight <sup>2)</sup>		full load 3)	partial load <sup>1)</sup>		
lb[kg]	Тур	ft/min [m/min]	ft/min [m/min]		lb[kg]
2425 (1100)	E 11	80/20	100	U 11	9 (4)
4850 (2200)	E 22	(24/6)	(30)	U 22, RF 125	12 (5)
7500 (3400)	E 34	48/12 (14/3.5)	-	U 34	12 (5)

1) Possible by programming other parameters 2) Max. 1% climbing ability 3) infinitely variable up to 80 ft/min (24m/min) See operating instructions 214 810 44 for further information.

# E 22 trolley on KBK RF 125 dimensions

