

Demag DC^{PRO} chain hoist | The new industry standard
Demag DCM^{PRO} Manulift |



Demag hoist units: Perfect load handling



High productivity, efficiency and operating reliability are the most important requirements to be met by state-of-the-art material flow systems. Demag Cranes & Components develops and produces materials flow solutions for all industries and companies of all sizes, from small workshops to major industrial corporations.

Contents

Page

DC-Pro chain hoist

A new industry standard	3
Tailored solutions	4 – 5
Increased performance, more speed	6
Improved safety and reliability	7
Control pendant	8
Commissioning and maintenance	9

DCM-Pro Manulift

DCM-Pro Manulift	10 – 12
------------------	---------

Accessories

Pillar and wall-mounted slewing jibs	13
KBK track and crane installations	14 – 15
Trolleys and electric drives	16 – 17
Clamp-fitted buffers and magnets	18
Service	19

Technical data and selection tools

Selection criteria	20
Technical data, selection and dimension tables	21 – 25
Hoist Designer/e-tools	26
Fax service	27

Demag DC-Pro chain hoist

A new industrial standard – Made by Demag



All inclusive: fully featured instead of extras price list

Many features are already integrated into the Demag DC-Pro chain hoist as standard that have to be ordered and bought as extras elsewhere.

The DC-Pro chain hoist is a fully featured, highly versatile chain hoist, which can be installed and put into service in a minimum of time.

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

- 20 % longer service life and greater efficiency thanks to Demag **2m**[®]
- Improved safety and reliability thanks to 24 V contactor control and operating limit switches
- Fast and ergonomic height-adjustment of the control cable without the need for any wiring
- Flexibility as standard thanks to two sizes of suspension bracket
- Simple installation and commissioning thanks to plug connections – Plug & Lift und Plug & Drive
- Gearbox, brake and slipping clutch are maintenance-free for up to 10 years
- Smooth and fast load handling of loads with two hoist speeds up to 6 m/min for main lifting speed
- Elapsed operating time counter and diagnostics interface provide information on the operating status – maintenance breaks can be planned
- The plug-fitted chain drive can be replaced quickly and easily

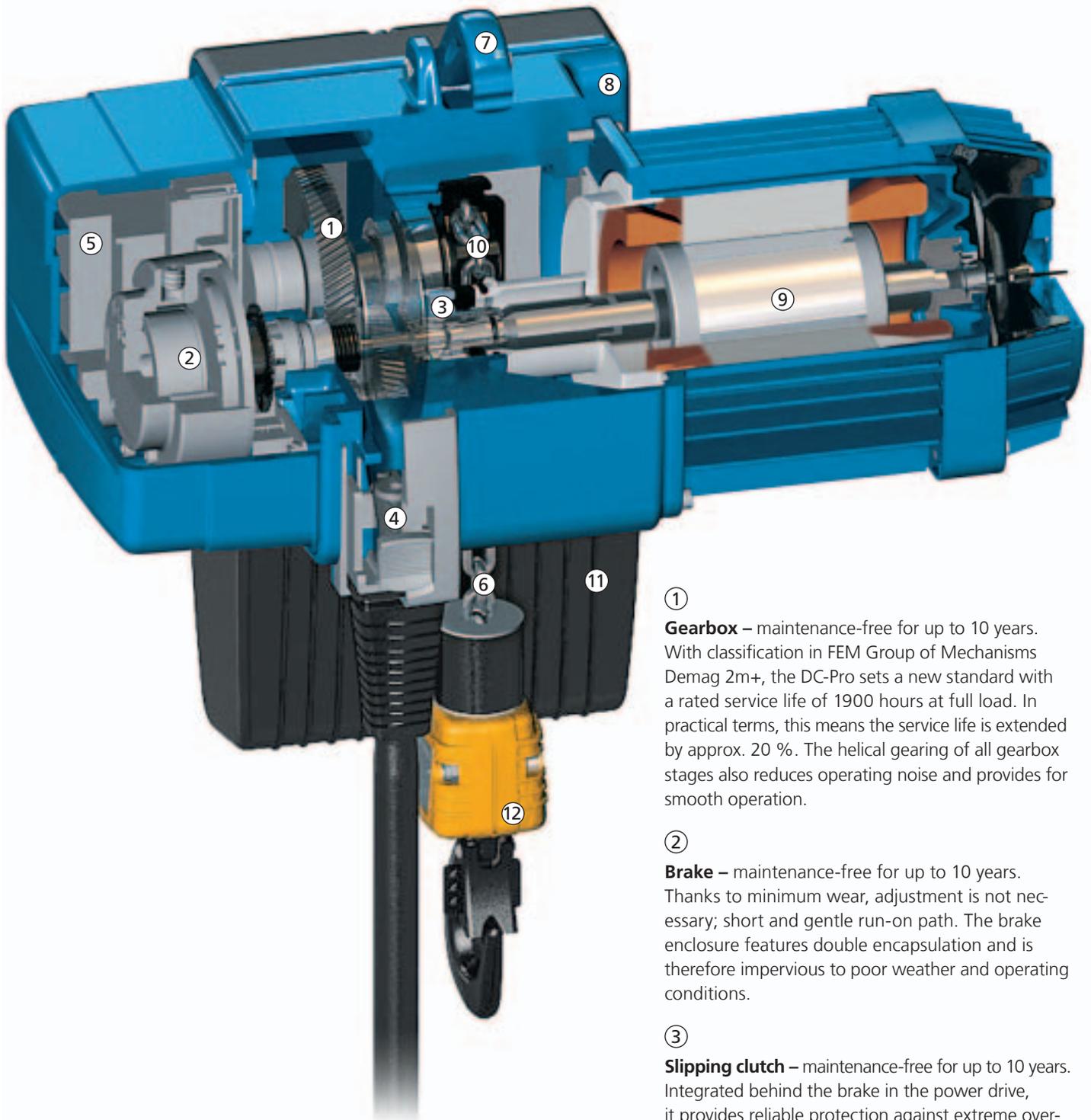


Tailored solutions

Certified

DC-Pro chain hoists are tested and approved by the relevant 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.

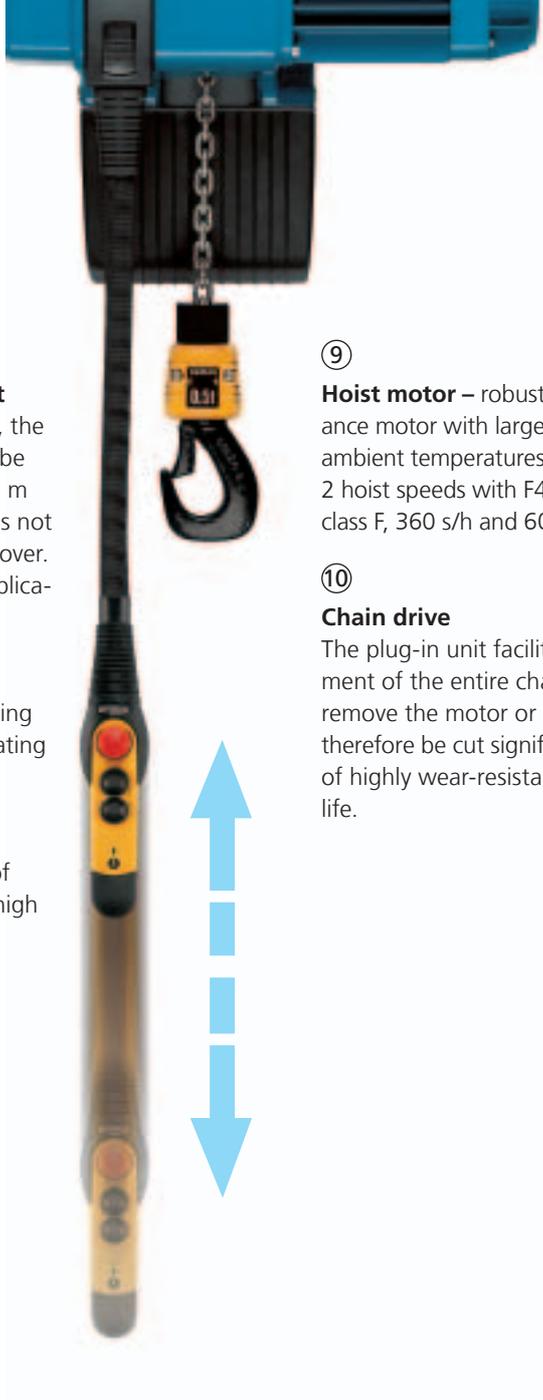
The hoist motor, chain hoist and travel drive with IP55 enclosure and control pendants with IP65 enclosure to EN 60529 ensure high protection against moisture and dust penetration.



① **Gearbox** – maintenance-free for up to 10 years. With classification in FEM Group of Mechanisms Demag 2m+, the DC-Pro sets a new standard with a rated service life of 1900 hours at full load. In practical terms, this means the service life is extended by approx. 20 %. The helical gearing of all gearbox stages also reduces operating noise and provides for smooth operation.

② **Brake** – maintenance-free for up to 10 years. Thanks to minimum wear, adjustment is not necessary; short and gentle run-on path. The brake enclosure features double encapsulation and is therefore impervious to poor weather and operating conditions.

③ **Slipping clutch** – maintenance-free for up to 10 years. Integrated behind the brake in the power drive, it provides reliable protection against extreme overload. Damaging permanent slipping is not possible thanks to integrated speed monitoring.



④

Height adjustment of the control pendant

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 2 – 5 m and 5 – 8 m. The length of control cable that is not required is accommodated under the service cover. The control cable is rated for electric travel applications in 3 axes.

⑤

Control – with 24 V contactor control, operating limit switches (upper/lower) and elapsed operating time counter as standard.

⑥

Round steel chain – a special Demag chain of high-strength, ageing-resistant material with high surface hardness. Galvanised and additionally surface-treated to protect against hostile environments.

⑨

Hoist motor – robust and enduring 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)

⑩

Chain drive

The plug-in unit facilitates quick and easy replacement of the entire chain drive without having to remove the motor or gear parts. Downtimes can therefore be cut significantly. The chain drive consists of highly wear-resistant materials for a long service life.



⑦

Suspension bracket – DC-Pro chain hoists are suspended in pendulum fashion and make optimum use of the available height thanks to their small C 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 optimum connection.

⑧

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



⑪

Chain collector box – attached in pendulum fashion, made of tough, flexible and particularly impact-resistant plastic; capacity for up to 8 m hook path. Chain collector bag for chain lengths up to 40 m as well as special lengths up to 120 m can be supplied.

⑫

Bottom block – up to 1000 kg with single chain fall for improved ergonomic handling of the hook with fittings. 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 60 mm of the valuable C 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 main lifting speed guarantees fast and effective operation at a minimum of 6 m/min, the creep lifting speed ensures that loads are handled gently and precisely.

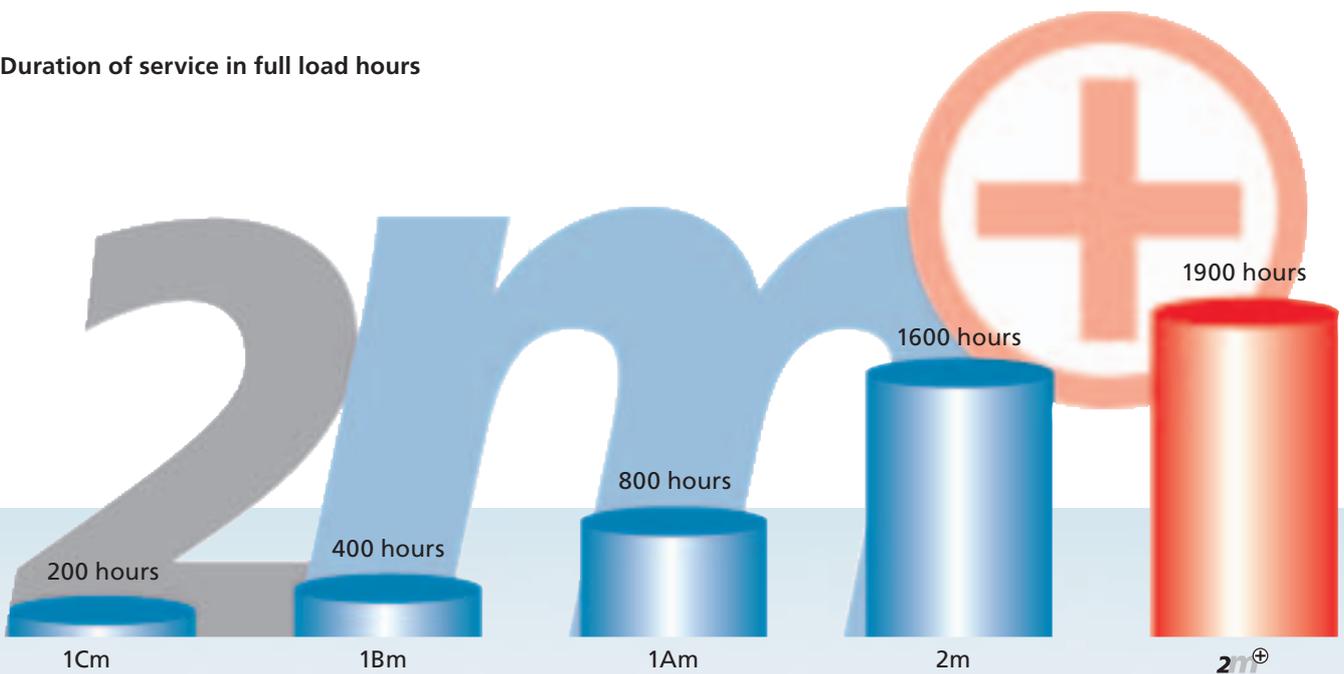
Demag 2m⁺ – an even longer service life for greater efficiency.

In practical terms, Demag 2m⁺ means the service life is extended by approx. 20 % in comparison with the conventional 2m classification for chain hoists according to the FEM Group of Mechanisms. This results in significantly extended intervals for service work and general overhauls. This extra amount of lasting efficiency is only offered by the new Demag DC-Pro chain hoist.



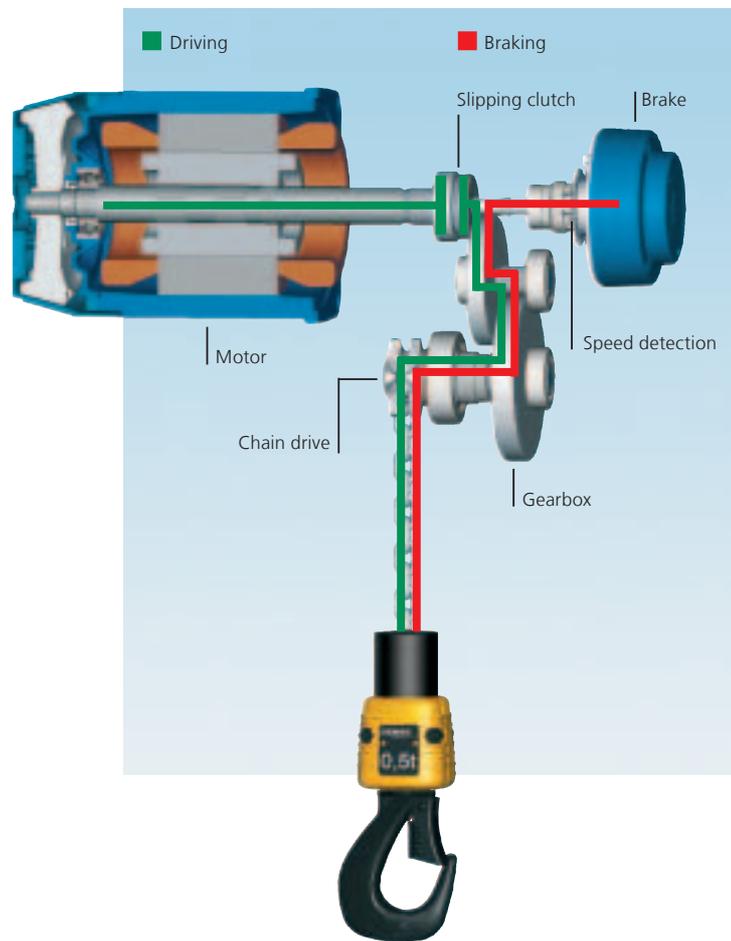
39146

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 without the need for any maintenance for up to ten 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 minimum wear, the brake does not need to be adjusted. Operating safety is generally improved by the single-fall design up to a load capacity of 1000 kg.



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

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
- Elapsed operating time counter can be read from the outside
- Speed detection
- Infrared diagnostics interface

39187-2

Control pendant: Always at the right operating height

The most favourable 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 wiring. The control cable is designed for an adjustment range of 3 m. The length of control cable that is not required disappears beneath 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.



Height adjustment of the control cable

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.

The control pendant can be changed quickly and easily



Slide the protection sleeve upwards over the control cable



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



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

Demag control pendants are characterised by their optimised ergonomic sloping design for convenient operation. They are made of high-quality plastic which is highly resistant to impacts and are therefore extremely robust. With bending and impact protection as well as IP 65 enclosure 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 switching elements. The DSE 8-C control pendant is used for electric travel applications with E 11/E 22 drives.

Commissioning: Plug & Lift and Plug & Drive



Pivoting service cover

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 and U 22 trolleys make the mechanical parts easy to install.

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

Integrated beneath the cover

You have rapid access to all important components for service and commissioning beneath the pivoting service cover

- Storage for 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. The outstanding Demag quality of all components provides for a long service life even under heavy use.

The few necessary maintenance measures can be carried out quickly and easily thanks to the service-friendly design of the DC-Pro.



Diagnosis interface

Chain drive



39241-22

The chain drive of the DC-Pro, for example, is designed as a compact unit which is plugged 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.

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.

Demag DCM-Pro Manulift

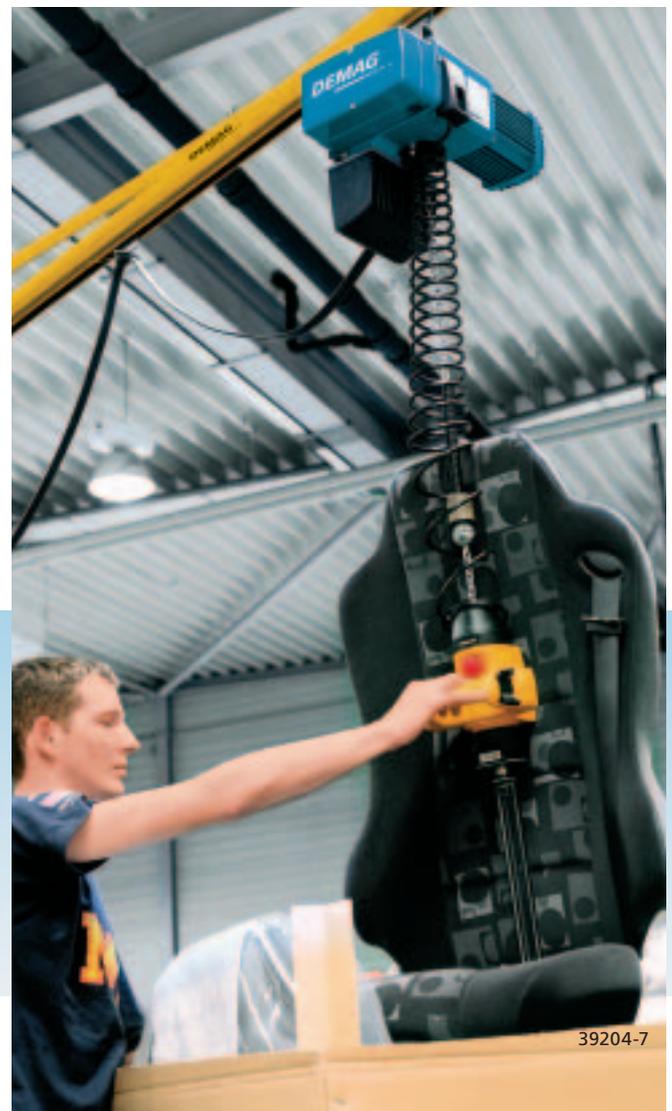
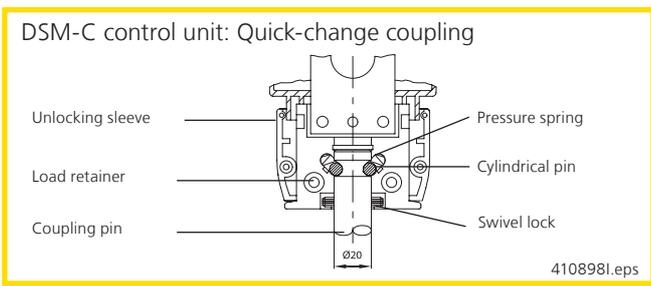
Safe, fast and ergonomic single-handed load handling at the workplace



The DCM-Pro Manulift was developed for handling loads quickly and safely with only one hand. The new DCM-Pro is based on the lifting unit of the DC-Pro chain hoist and the DSM-C control unit which is connected to it by a helical cable. Thanks to the control unit which 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-change 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-change coupling. It can be easily disconnected by lifting the unlocking sleeve.

Manulift units can travel on Demag KBK profile sections and I-beams (see pages 13 – 17), which enables them to be flexibly integrated into work and production processes.

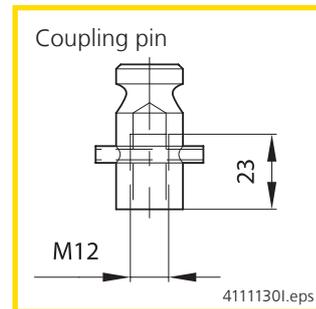




Versatile adaptability to any task

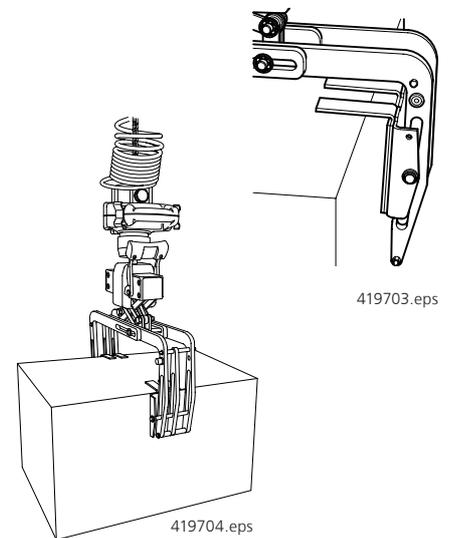
A variety of proven load handling attachments facilitate optimum and flexible adaptation of the chain hoist to meet your needs. They range from normal load hooks and various pantograph-type tongs to parallel gripper systems, e.g. for KLT containers used in the automotive industry. The DCM-Pro Manulift can be used with specially developed load handling attachments. The universal coupling pin is used to connect customer-designed 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.



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 to place them direct into cartons. The 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 parallel gripper
125 kg



36514

Pantograph tongs
for gripping square
goods
125 kg



20117



20118

Pantograph tongs for
gripping round goods
125 kg



38919-8

Load hook adapter
up to 250 kg



38919-7

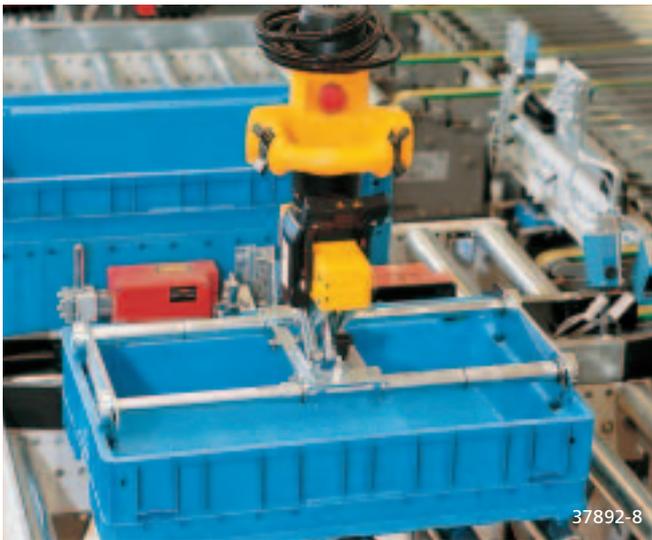
PGS shaft grippers

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.



39225-1



37892-8

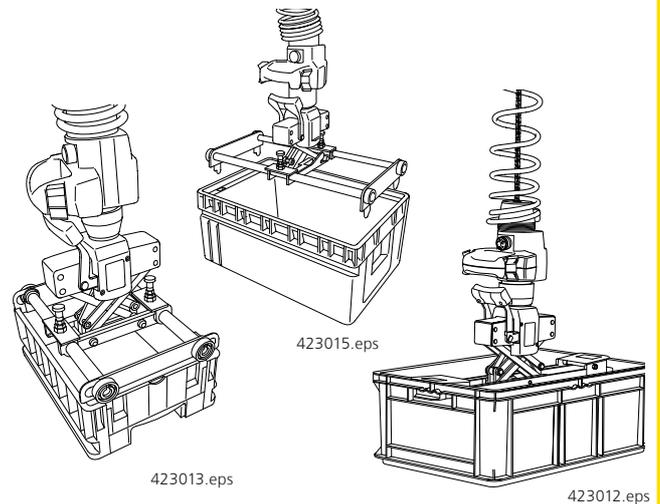
PGS container grippers

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..

Grippers for various container types

Container type	Container size	
	600 x 400	400 x 300
Euro container	rigid	rigid
KLT (VDMA)	rigid	rigid
	adjustable	
Various containers such as PDB, ARCA, MF, SSI Schäfer, Eurotec, Utz KLT, Bito	rigid	rigid
	adjustable	

Grippers for other container types on request

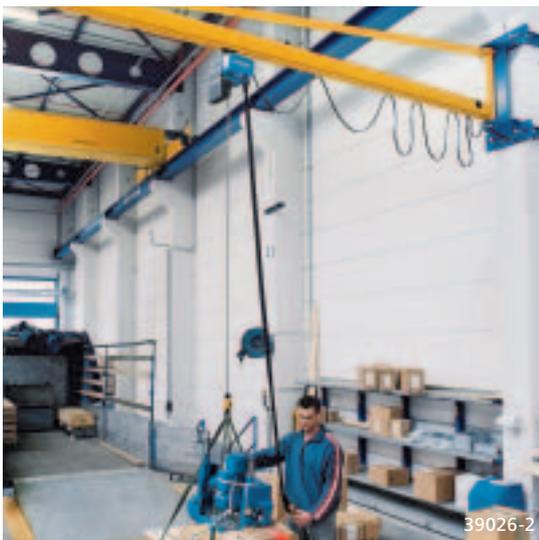


Slewing jibs facilitate load handling at the workplace

Pillar- and wall-mounted slewing jibs with the DC-Pro chain hoist provide inexpensive 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 setting-up and idle times. Wall- and pillar-mounted slewing jibs and pillar-mounted slewing cranes are suitable for virtually any application as standard.

KBK slewing jibs feature struts and hollow profile section rails and offer a low deadweight for load capacities up to 1000 kg. Loads can be moved quite simply by hand.

The product range of the I-beam slewing jibs covers a load range up to 10000 kg 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 range of 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 locations served by these free-standing cranes are utilised to the full thanks to their slewing range of up to $n \times 360^\circ$. 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.



Efficient material flow with KBK track 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, 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 area-serving load transport.

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 enables installations to be modified or extended easily and cost-effectively. These are Demag system solutions for practical material flow requirements.



Sections in various profile sizes for curved tracks

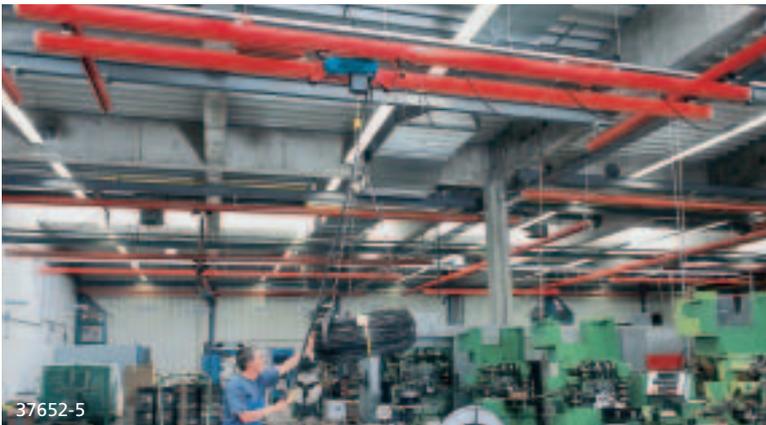


Suspension monorails

Suspension monorails are the preferred linear solution to connect pick-up and deposit positions. The 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. Flexible routing by means of straight and curved sections, track switches and turntables facilitates cost-effective adaptation to the most diverse operating conditions.

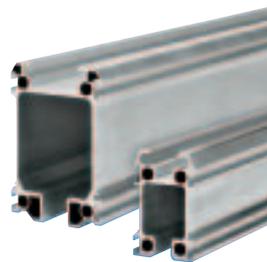
Suspension cranes

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



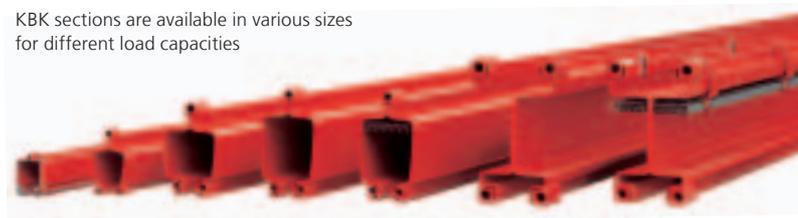
Portal cranes

Portal cranes from the KBK system are not mounted on rails 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 Aluline – aluminium profile sections

KBK sections are available in various sizes for different load capacities



Push-travel trolleys for simple horizontal movement

U trolley

The new U trolley generation is available in two sizes for load capacities up to 1100 kg (U 11) and 2200 kg (U 22). The flange width can be infinitely adjusted by means of two adjusting rings and covers the ranges from 58 mm to 200 mm, and 201 mm to 310 mm. This facilitates fast and simple installation.

The travel rollers, which are made of high-strength and wear-resistant Polyamide, provide for smooth operating characteristics and low travel resistance. Optional steel rollers can also be used for special ambient conditions, e.g. high temperatures. The universal design of the travel rollers enables them to be used for operation on straight and sloping profile sections. The lateral steel guide rollers support their curve-negotiating properties down to the minimum radius of 1000 mm and minimise girder wear. A drop-stop arrangement is integrated into the side cheeks, which consist of aluminium die-castings with a powder-coated finish.

Push-travel U 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 550 kg.

The flange widths from 58 to 91 mm, the minimum curve radius of 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 and E 22 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.

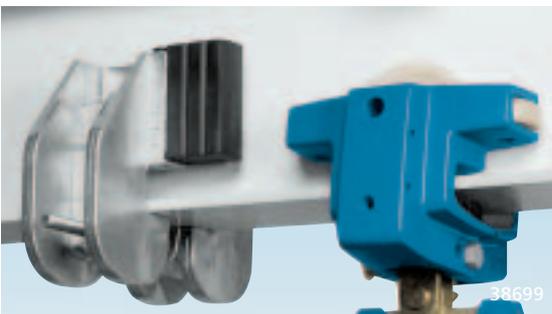
The travel drives can be adapted to the U 11/U 22 trolleys. Particularly short approach dimensions can be achieved when the units are mounted in a vertical arrangement. Fast retro-fitting and commissioning offer further benefits as no changes need to be made to the push-travel trolleys. The drive is simply connected to the DC-Pro chain hoist using plug connectors and operated by means of the newly developed DSE 8-C control pendant. The control pendant for long and cross travel is simply fitted by means of a 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 gentle 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-8 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 witch, 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 using screws. The travel range is shortened or extended by simply relocating the buffers.

They can be adapted to flange widths from 50 to 300 mm for universal applications.

They are suitable temperature ranges from -20°C to $+70^{\circ}\text{C}$ 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.

Magnets as versatile load handling attachments

DPMN permanent magnets

They offer low operating costs, constant availability and versatility and are suitable for operation both inside manufacturing facilities and outdoors. They function independently of a power supply and are safe, easy and reliable to operate. When switched to "magnetise", a magnetic field is created between two field poles; no magnetism remains when switched to "demagnetise". The outer surface of the magnet armature is always neutral and offers maximum protection against external influences.

DBM 34/68 battery magnets

The compact unit consists of an electro-magnet, battery and control unit with an integrated charging set. Battery magnets operate independently of a mains power supply and are used in stationary and travelling applications. They offer safe, reliable and easy operation in stores or production areas. The charging operation is controlled automatically and the charge level is indicated by the battery monitoring display.

R 26 round magnets

These single magnets offer enormous strength. The solid housing is made of highly permeable steel and the coil consists of fully encapsulated enamelled copper wire. They are fitted with integrated rectifiers and switches as standard.

DPMN permanent magnets



38476

DBM 34/68 battery magnets



36387

19763



R 26 round magnets

Service – ready to help around the clock

All over the world

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

Rapid and reliable spare part supply

Any spare parts needed can be shipped 24 hours a day, 7 days a week.

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 Diagnosis Application System.

And these are your benefits:

- **Transparency**
By recording utilisation of the installation, Demag IDAPSY facilitates predictive and plannable service. This enables a high level of availability to be ensured.
- **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, for example.
- **Efficiency**
Maintenance work carried out in good time to ensure your installation is in optimum condition increases overall efficiency.

Demag IDAPSY enables service work to be carried out more quickly. This means that your hoist is ready for operation again even more quickly if service work has to be carried out.

Your individual service package

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

- Recurring inspections according to relevant accident prevention regulations
- Inspection and maintenance
- Fault elimination both with and without on-call standby
- Service training for operators and maintenance engineers



39040



Selection criteria

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

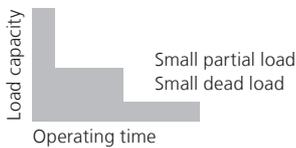
1. What are the operating conditions?
2. What is the specified safe working load?
3. To what height must the load be lifted?
4. What is the required lifting speed?
5. Do the loads need to be lifted and lowered with high precision?
6. Is horizontal load travel necessary?
7. How is the hoist to be controlled?

The load spectrum

(in most cases estimated) can be evaluated in accordance with the following definitions:

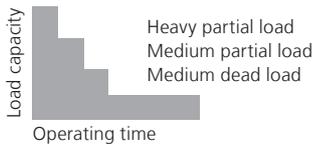
1 Light

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



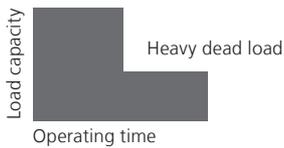
2 Medium

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



3 Heavy

Hoist units which are usually subject to medium loads but frequently 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 spectrum		Average operating time per day in hours		
1	Light	4-8	8-16	über 16
2	Medium	2-4	4-8	8-16
3	Heavy	1-2	2-4	4-8
4	Very heavy	0,5-1	1-2	2-4
Group of mechanisms to FEM		2m+	3m	4m

Reeving		Range	Size	
SWL in kg				
1/1	2/1			
80		DC-Pro 1-V1 / DC-Pro 2-V2		80
100		DC-Pro 1-V1 / DC-Pro 2-V2		100
125		DC-Pro 1-V1 / DC-Pro 2-V2		125
160		DC-Pro 2-V1 / DC-Pro 5-V2	160	160
200		DC-Pro 2-V1 / DC-Pro 5-V2	200	200
250		DC-Pro 2-V1 / DC-Pro 5-V2	250	250
315		DC-Pro 5-V1 / DC-Pro 10-V2	315	315
400		DC-Pro 5-V1 / DC-Pro 10-V2	400	400
500		DC-Pro 5-V1 / DC-Pro 10-V2	500	500
630		DC-Pro 10-V1 / DC-Pro 20-V2		630
800		DC-Pro 10-V1 / DC-Pro 20-V2	800	
1000		DC-Pro 10-V1 / DC-Pro 20-V2	1000	
	1250	DC-Pro 20-V1	1250	
	1600	DC-Pro 20-V1	1600	
	2000	DC-Pro 20-V1	2000	

Example:

SWL 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

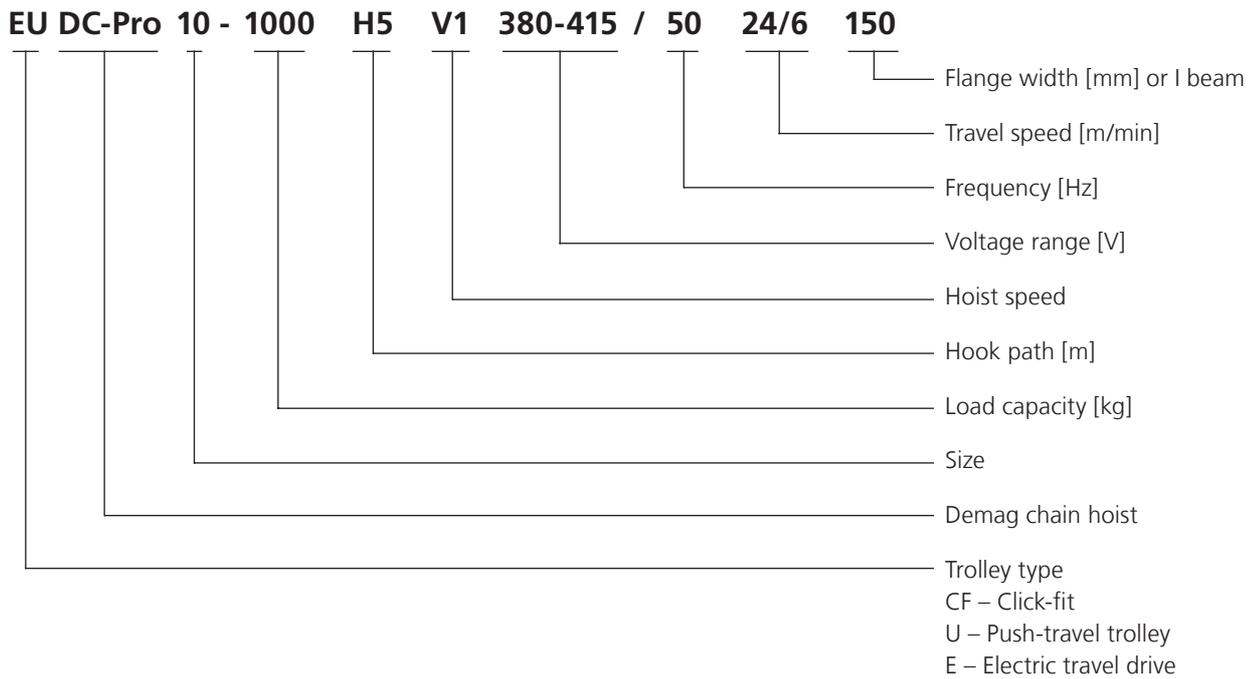
The average operating time per working day is estimated or calculated as follows:

$$\begin{aligned} \text{Operating time/day} &= \frac{2 \cdot \text{average hook path} \cdot \text{no. of cycles/h} \cdot \text{working time/day}}{60 \cdot \text{hoist speed}} \\ &= \frac{2 \cdot 4 \cdot 20 \cdot 8}{60 \cdot 8} = 2,66 \text{ hours} \end{aligned}$$

For the medium load spectrum and an average daily operating time of 2,66 hours, the table shows group 2 m+. For a load capacity of 250 kg, the diagram shows size DC-Pro 2-250.

Technical data

Model code



DC-Pro chain hoist selection table

SWL [kg]	Chain hoist Type	Hoist speed		Motor size	Hook path ³⁾ [m]	Group of mechanisms FEM	Reeving	Max. weight at H5/H8 [kg]	
		[m/min at 50 Hz]	[m/min at 60 Hz]						
80	DC-Pro 1 -...V1	8,0/2,0	9,6/2,4	ZNK 71 B 8/2	5 and 8	4m	1/1	22 / 24	
	DC-Pro 2 -...V2	16/4	19,2/4,8						
100	DC-Pro 1 -...V1	8,0/2,0	9,6/2,4						
	DC-Pro 2 -...V2	16/4	19,2/4,8						
125	DC-Pro 1 -...V1	8,0/2,0	9,6/2,4						
	DC-Pro 2 -...V2	16/4	19,2/4,8						
160	DC-Pro 2 -...V1	8,0/2,0	9,6/2,4			ZNK 80 A 8/2		2m+ ¹⁾	28 / 30
	DC-Pro 5 -...V2	12,0/3,0	14,4/3,6					4m	
200	DC-Pro 2 -...V1	8,0/2,0	9,6/2,4			ZNK 80 A 8/2		2m+ ¹⁾	22 / 24
	DC-Pro 5 -...V2	12,0/3,0	14,4/3,6					4m	
250	DC-Pro 2 -...V1	8,0/2,0	9,6/2,4			ZNK 80 A 8/2		2m+ ¹⁾	22 / 24
	DC-Pro 5 -...V2	12,0/3,0	14,4/3,6					4m	
315	DC-Pro 5 -...V1	6,0/1,5	7,2/1,8	ZNK 80 A 8/2	2m+ ¹⁾	22 / 24			
	DC-Pro 10 -...V2	12,0/3,0	14,4/3,6	ZNK 100 A 8/2	4m				
400	DC-Pro 5 -...V1	6,0/1,5	7,2/1,8	ZNK 80 A 8/2	2m+ ¹⁾	22 / 24			
	DC-Pro 10 -...V2	12,0/3,0	14,4/3,6	ZNK 100 A 8/2	4m				
500	DC-Pro 5 -...V1	6,0/1,5	7,2/1,8	ZNK 80 A 8/2	2m+ ¹⁾	22 / 24			
	DC-Pro 10 -...V2	12,0/3,0	14,4/3,6	ZNK 100 A 8/2	4m				
630	DC-Pro 10 -...V1	6,0/1,5	7,2/1,8	ZNK 100 A 8/2	3m	51 / 55			
	DC-Pro 20 -...V2	12,0/3,0	14,4/3,6	ZNK 100 B 8/2					
800	DC-Pro 10 -...V1	6,0/1,5	7,2/1,8	ZNK 100 A 8/2	2m+ ¹⁾	48 / 52			
	DC-Pro 20 -...V2	12,0/3,0	14,4/3,6	ZNK 100 B 8/2					
1000	DC-Pro 10 -...V1	6,0/1,5	7,2/1,8	ZNK 100 A 8/2	2m+ ¹⁾²⁾	48 / 52			
	DC-Pro 20 -...V2	12,0/3,0	14,4/3,6	ZNK 100 B 8/2					
1250	DC-Pro 20 -...V1	6,0/1,5	7,2/1,8	ZNK 100 B 8/2	2m+ ¹⁾	2/1	65 / 73		
1600									
2000									

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

2) 1Am chain drive

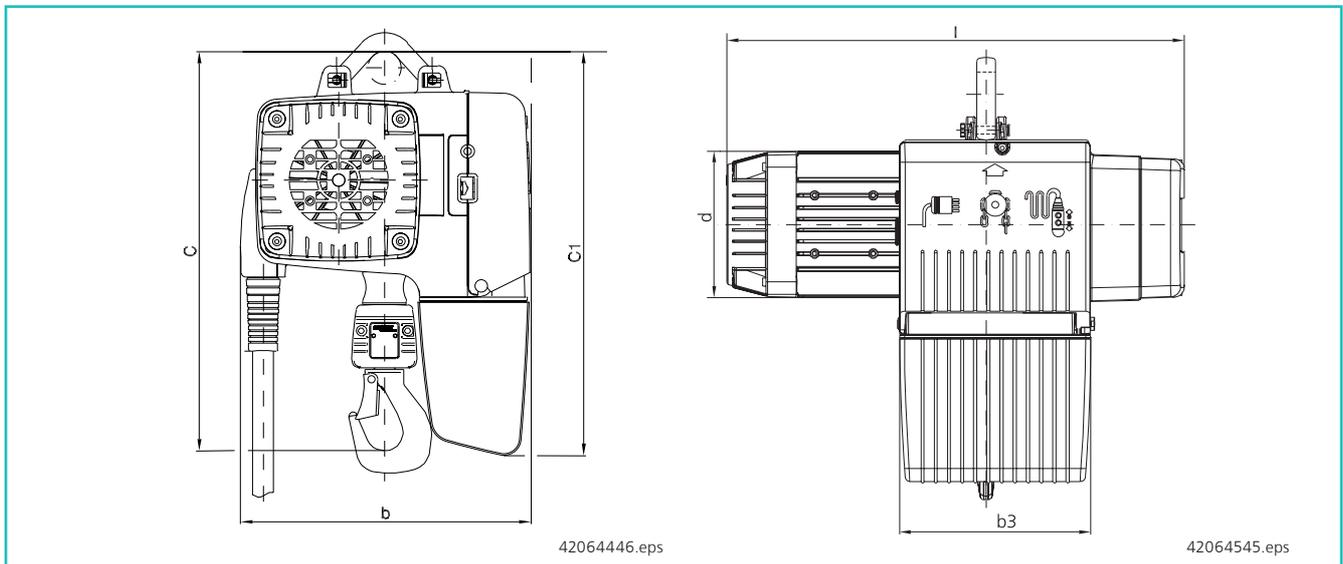
3) Longer hook paths on request

Demag DCM-Pro Manulift selection table

Load capacity [kg]	Manulift Type	Hoist speed		Motor size	Hook path ³⁾ [m]	Group of mechanisms FEM	Reeving	Max. weight for 2,8 and 4,3 hook path [kg]
		[m/min at 50 Hz]	[m/min at 60 Hz]					
80	DCM-Pro 1 - ... V1	8,0/2,0	9,6/2,4	ZNK 71 B 8/2	2,8	4m	1/1	22/23
	DCM-Pro 2 - ... V2	16/4	19,2/4,8					
125	DCM-Pro 1 - ... V1	8,0/2,0	9,6/2,4		4,3	2m+ ¹⁾		
	DCM-Pro 2 - ... V2	16/4	19,2/4,8					
250	DCM-Pro 2 - ... V1	8,0/2,0	9,6/2,4	ZNK 80 A 8/2	4m	28/29		
	DCM-Pro 5 - ... V2	12,0/3,0	14,4/3,6					

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

Demag DC-Pro chain hoist dimension tables



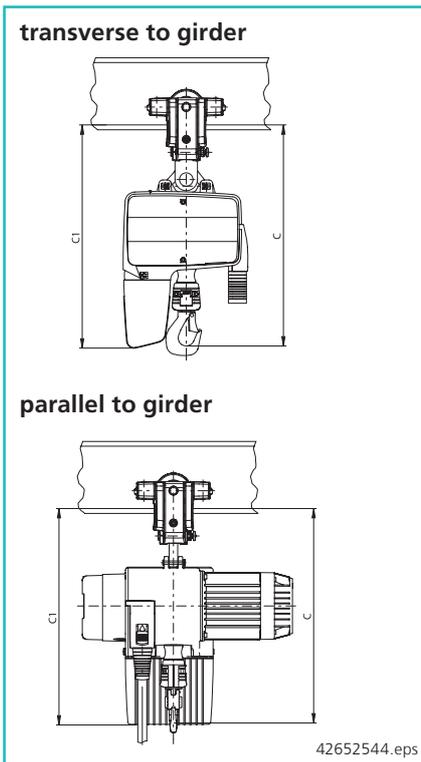
DC-Pro 1, DC-Pro 2, DC-Pro 5, DC-Pro 10, DC-Pro 20 ≤ 1000 kg 1/1 reeving

Size	Motor	Suspension bracket						b	l	b3	d
		short	long	Chain collector box size							
				H5	H8	H5	H8				
		C		C 1							
DC-Pro 1	ZNK 71 B 8/2	305	343	335	365	373	403	268	422	183	124
DC-Pro 2											
DC-Pro 5	ZNK 80 A 8/2	350	388	395	425	435	465	280	468	195	151
DC-Pro 10	ZNK 100 A 8/2	460	493	493	582	526	615	349	528	227	187
DC-Pro 20	ZNK 100 B 8/2	460	493	582	682	615	715	349	578	227	187

DC-Pro 20 > 1000 kg 2/1 reeving

Size	Motor	Suspension bracket						b	b3	l	d		
		short	long	Chain collector box size									
				H5	H8	H5	H8						
		C		C 1									
DC-Pro 20	ZNK 100 B 8/2	547	580	582	682	615	715	349	409	227	330	578	187

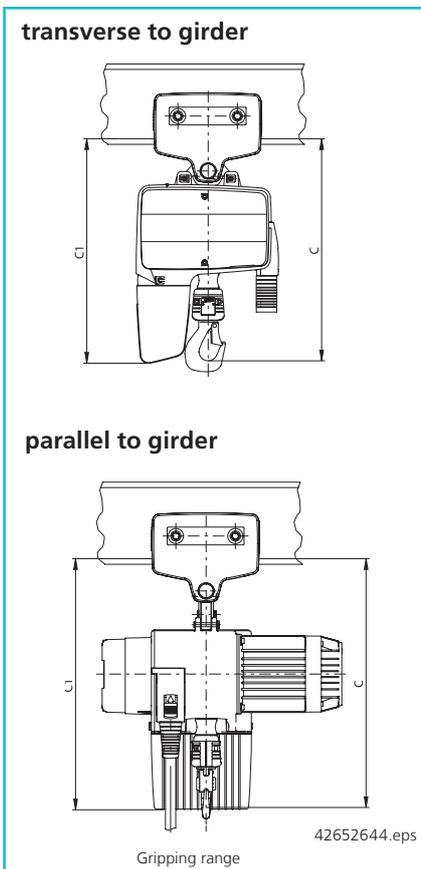
DC-Pro chain hoist with CF 5 trolley dimension table



Size	transverse to girder			parallel to girder		
	C	C1		C	C1	
		Chain collector box			Chain collector box	
		H5	H8		H5	H8
DC-Pro 1	385	415	445	380	410	440
DC-Pro 2	385	415	445	380	410	440
DC-Pro 5	430	477	507	425	472	502

Minimum curve radius 800 mm

DC-Pro chain hoist with U 11 or U 22 trolley dimension table



Size	Fahrwerk	transverse to girder			parallel to girder		
		C	C1		C	C1	
			Chain collector box			Chain collector box	
		H5	H8		H5	H8	
DC-Pro 1	U 11	360	390	420	385	415	445
DC-Pro 2	U 11	360	390	420	385	415	445
DC-Pro 5	U 11	405	452	482	430	477	507
DC-Pro 10 ¹⁾	U 11	545	578	667	569	611	691
	U 11	557	590	679	581	614	703
DC-Pro 20 ¹⁾	U 11 ²⁾	545	578	667	569	611	691
	U 22 ²⁾	557	590	679	581	614	703
	U 22 ³⁾	644	679	779	668	703	803

1) Dimensions C and C1 decrease by 33 mm when the short suspension bracket is used.

2) 1/1 reeving

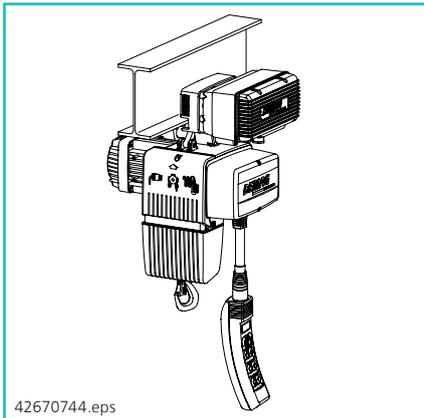
3) 2/1 reeving

Minimum curve radius		
	Push travel [mm]	Electric travel [mm]
U 11	1000	2000
U 22	2000	3000

For further information, see U 11/U 22 technical data 203 570 44.44.

E 11/E 22 travel drive selection table

220-480 V, 50/60 Hz, 3 ~



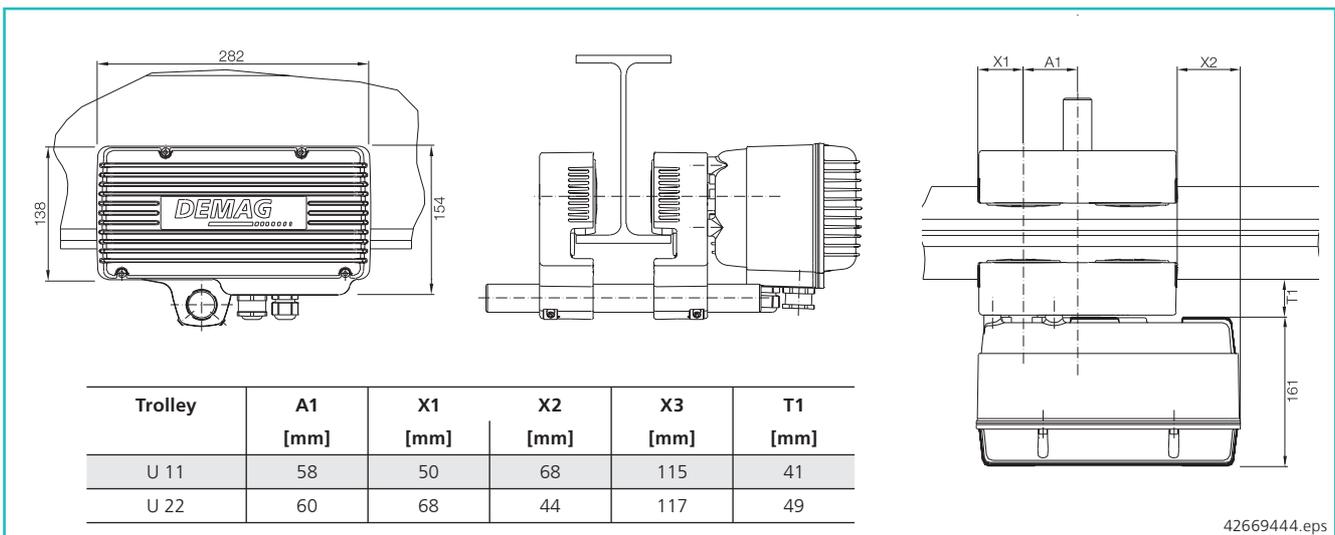
max. displaceable weight incl. dead weight ²⁾ [kg]	Travel drive Type	Speed at		Possible trolleys	Max. weight [kg]
		full load [m/min]	partial load ¹⁾ [m/min]		
1100	E 11	24/6	30	U 11	4
2200	E 22			U 22, RF 125	5

1) Possible by programming other parameters

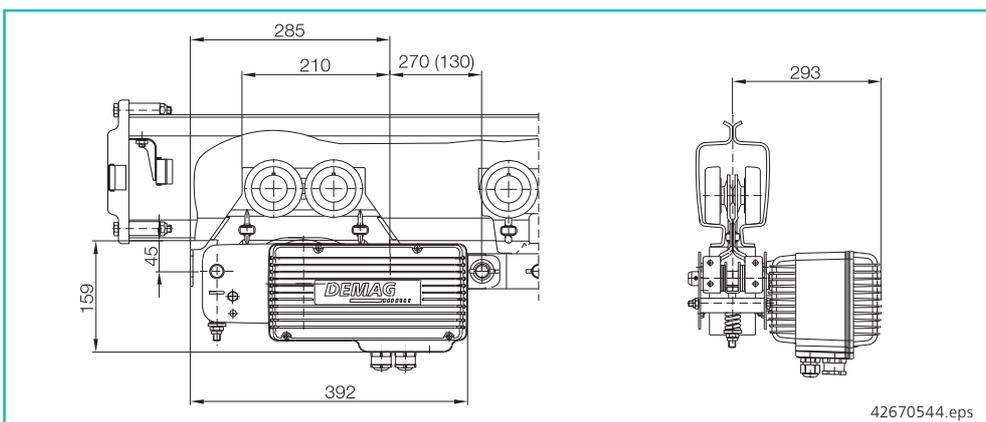
2) Max. 1% climbing ability

See operating instructions 214 810 44 for further information.

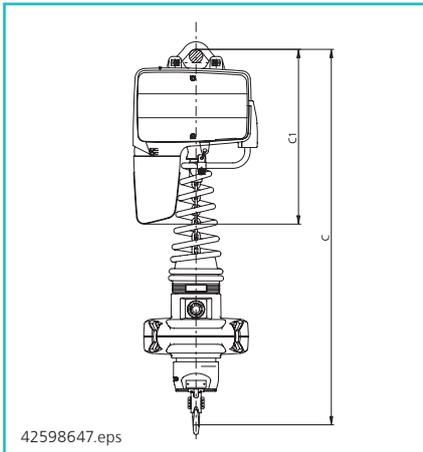
E 11/E 22 travel drive on U 11/U 22 trolley dimensions



E 22 trolley on KBK RF 125 dimensions

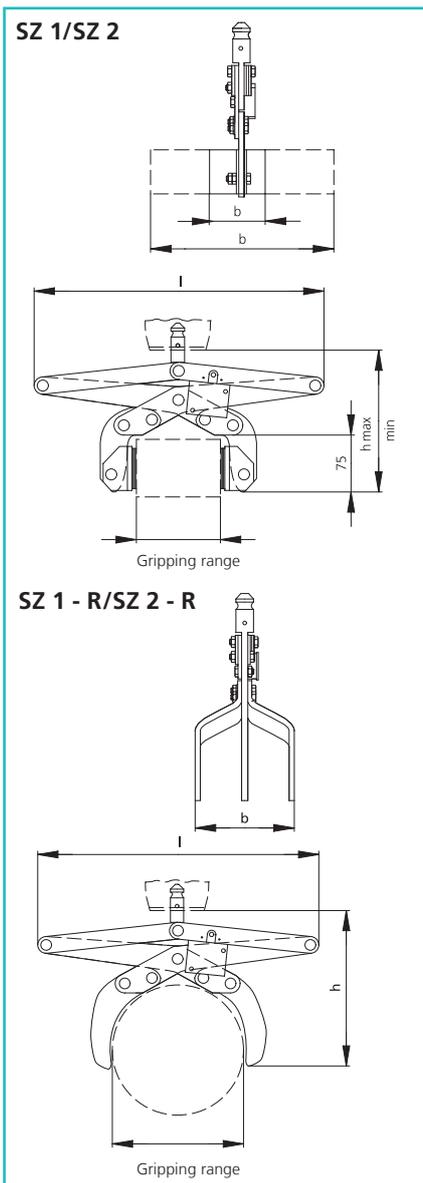


Demag DCM-Pro Manulift dimension table



Size	Short suspension bracket			Long suspension bracket		
	C for hook path		C1 Chain collector box H5	C for hook path		C1 Chain collector box H5
	2,8 m	4,3 m		2,8 m	4,3 m	
DCM-Pro 1	635	705	335	673	743	373
DCM-Pro 2	635	705	335	673	743	373
DCM-Pro 5	680	750	395	718	788	435

Pantograph tongs for load capacity up to 125 kg dimension table



Range	Gripping range	b	l	h min	h max	Size	Part no.:	Weight in kg						
SZ 1	60 – 80	60	370	190	265	SZ 1-08-1	265 701 44	3,5						
	80 – 105					SZ 1-10-1	565 601 44							
	105 – 130					SZ 1-13-1	565 702 44							
	SZ 1	130 – 155	60	370	190	265	SZ 1-15-1	565 602 44	3,7					
		155 – 180					SZ 1-18-1	565 703 44						
		180 – 205					SZ 1-20-1	565 603 44						
		60 – 80					200	370		190	265	SZ 1-08-2	565 704 44	4,3
		80 – 105										SZ 1-10-2	565 604 44	
		105 – 130										SZ 1-13-2	565 705 44	
	SZ 1	130 – 155	200	370	190	265	SZ 1-15-2	565 605 44	4,5					
		155 – 180					SZ 1-18-2	565 706 44						
		180 – 205					SZ 1-20-2	565 606 44						
SZ 2	Ø 40 – 150	120	370	225	420	SZ 1-R-15	565 608 44	4,0						
	140 – 210	60	520	190	415	SZ 2-21-1	565 712 44	4,7						
						SZ 2-27-1	565 612 44							
						SZ 2-34-1	565 613 44							
	140 – 210	200	520	190	415	SZ 2-21-2	565 715 44	5,4						
						SZ 2-27-2	565 615 44							
	275 – 340	200	520	190	415	SZ 2-34-2	565 616 44	5,7						
	Ø 100 – 300	160	520	325	620	SZ 2-R-30	565 618 44	5,3						

Find your hoist

www.demag-hoistdesigner.com is the 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.



39041



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.

Fax-Service

+49 (0) 23 35 92 24 06

Demag Cranes & Components GmbH

Abt. 1302

Handling Technology Product Promotion
Postfach 67

58286 Wetter/Germany

Please send the quote to

Company _____

Attention of _____

Department _____

Road _____

Town/post code _____

Telephone _____

Telefax _____

E-mail _____

DC-Pro chain hoist

DCM-Pro Manulift

Load capacity _____ kg

Operating time per day _____ approx. hours

Lifting height _____ approx. m

Hoist speed _____ m/min

Trolley Push-travel trolley

Electric-travel trolley

Travel speed
(for electric trolley) _____ m/min

Pillar/wall-mounted slewing jib

KBK crane construction kit
(suspension monorail/crane installation)

Girder profile dimensions _____

Operating voltage _____

Demag – Ideas to take your load.

Demag Cranes & Components GmbH

Handling Technology

P.O. Box 67 · 58286 Wetter/Germany

Telephone +49(0)2335 92-0

Telefax +49(0)2335 92-2406

E-mail handling@demagcranes.com

www.demagcranes.com