DEMAG
Cranes & Components

DFW-L-L end carriages

with DRS 112

1 Product description

1.1 Application

DFW-L-L carriages are used for steel structures in the crane and lifting equipment industry and also for applications in related mechanical engineering.

1.2 Modular carriage system

DFW-L-L carriages are compact, driven, rail-mounted carriages for direct connection to load-bearing structures. In addition to the steel structure part, the end carriage includes a driven wheel block for fitting the gearbox and the motor as well as a non-driven wheel block.

The following equipment can be combined to form a complete carriage:

Connection

- Carriages with one crane girder connection on the top (welded)
- Carriages with one crane girder connection on the top (bolted)

Travel unit/travel wheel

- DRS wheel blocks 112 mm
- Max. wheel loads up to 3500 kg
- Wheel base 1750 mm

Travel drive (drive units fitted either on right-hand or left-hand side)

- AME 10 DD offset gearboxes
- ZBF 63, 71 or 80 A 8/2 travel motors
- MA 112 torque brackets

Buffers

- DPZ 70 cellular plastic buffers

1.3 Protection against corrosion Paint finish

Protection against corrosion

- Structural steel shot-blasted (Sa2 rust removal factor, as in DIN 55 928).
- Rust protection with primer paint in RAL 1004 golden yellow (thickness 60 μm)
- Galvanized finish can also be provided on request
- Other provisions for corrosion protection available on request.

Paint finish

- A final coat in RAL 1007 daffodil yellow or other colours can be provided on request.

1.4 Documentation

End carriages

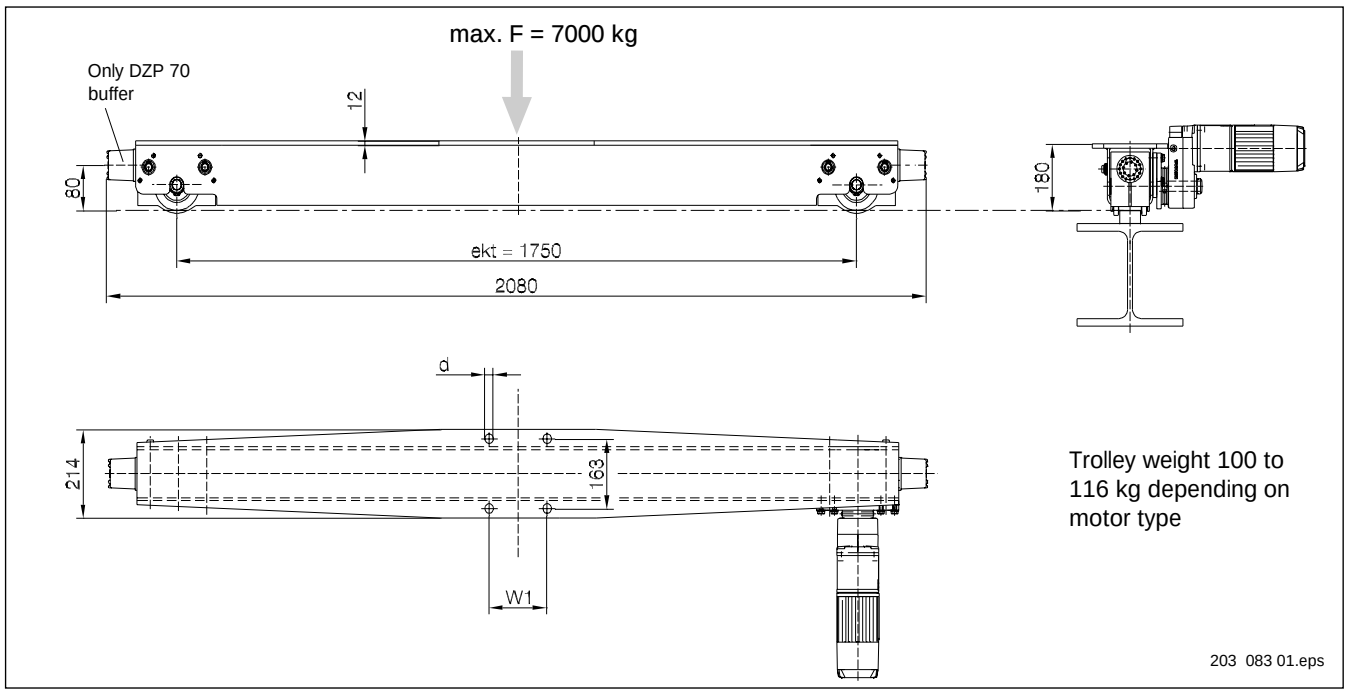
• Operating instructions	214 331 44
• Component parts list	222 685 44

DRS wheel blocks, gearboxes, travel motors and buffers

• Demag DRS wheel block system Volume 1 [1)]	203 352 44
• Geared motors for travel applications Volume 2	203 355 44

[1)] required for rating the end carriages

2 Design and mounting information



2.1 Steel structure

The steel structure is designed in accordance with DIN 15018, classification H2 B3.

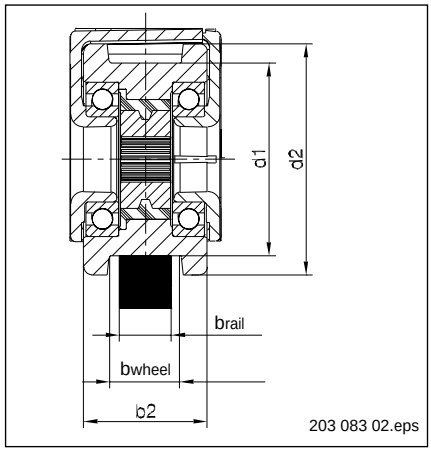
2.2 Types of connection

The carriage can be connected to the structure in the following ways:

- top connection (top connection of main girder-welded),
- top connection (top connection of main girder-bolted)

Crane girder (HE-A)	180	200	220	240	260	280	300-550
W1 (mm)	100	110	120	94	100	110	120
d (mm)	17 (for M16 high-tensile bolts)						

2.3 DRS wheel blocks



Wheel blocks feature:

- Positive travel wheel/shaft connection resulting from the splined shaft section.
- Simple, fast assembly and replacement with commercially available tools.
- High wheel loads, long service life due to dust-proof anti-friction bearings lubricated for life.
- Greatly reduced wear on travel wheels (wear indicator) and track rails as a result of the self-lubricating effect of spheroidal graphite cast iron compared with steel.
- Silent running due to self-damping properties of the travel wheel material.

Dimensions in mm					max wheel loads 2)
d1	d2	b2	max b_{wheel}	Standard b_{wheel}	(kg)
112	132	80	60	47, 60	3500

2) max. wheel loads for linear contact (flat rail to DIN 1014 or A rail to DIN 536) depending on FEM group, useful rail width and long travel speed, see catalogue 203 352 44, section 2.6.5 and 2.6.6.

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