

Collector trolleys:

Standard series for high performance

The current conduction of the Multiconductor to the device to be fed is effected through the collector trolley. The contact with the flat copper conductors is maintained uninterruptedly by means of flexible, extreme wear-resistant carbon brushes manufactured from a specific bronze-coal alloy. The collector trolley is pulled into the Multiconductor by the moving machine to be fed and by means of a trolley towing arm mounted onto this machine. The uninterrupted copper conductors of the Multiconductor system ensure **extreme high traverse speeds**.

The standard collector trolleys, supplied with low wear Nylon wheels, are suitable for **traverse speeds** up to **100 m/min**. For **higher traverse speeds**, for **heavy duty** and/or for **dusty environments** the collector trolleys are fitted with **dust proof, ball bearing wheels** (type "S"). See also special current collectors, page 11. For **traverse speeds > 250 m/min**, special instructions with regard to the Multiconductor installation are applied.

On page 22 you'll find more information on all collector trolley series concerning maintenance and spare parts.

Standard collector trolleys

Multiconductor collector trolleys are available for range 2 to 7 conductors with current carrying capacities of **35A**, **70A** and **100A** (D.C. 60%) or **27,11A**, **54,22A** and **77,46A** (D.C. 100%). Applicable from -20°C (types .../LT from -30°C) up to +80°C.

These collector trolleys are fitted as standard with a supply cable. The connection with the apparatus/machine to be fed is via a transition box (ordered separately) which can be located adjacent to the collector trolley towing arm position (see page 14).

Selection chart of standard collector trolleys + transition boxes

A max.	35		70		100	
number of poles	type trolley	type trans. box	type trolley	type trans. box	type trolley	type trans. box
2	CL7-2-35	TTB35-4	CL7-2-70	TTB70-4	CL7-2-100	TTB100-4
3	CL7-3-35		CL7-3-70		CL7-3-100	
4	CL7-4-35		CL7-4-70		CL7-4-100	
5	CL7-5-35	TTB35-7	CL7-5-70	TTB70-7	CL7-5-100	TTB100-7
6	CL7-6-35		CL7-6-70		CL7-6-100	
7	CL7-7-35		CL7-7-70		CL7-7-100	

When application of **2 or 3 separate collector trolleys per apparatus to be fed** (e.g. for transfer installations), the following transition boxes are used:

number of trolleys	type trolleys	type transition box
2 collector trolleys	CL7-2 t/m 4-35	TTB70-4
2 collector trolleys	CL7-5 t/m 7-35	TTB70-7
2 collector trolleys	CL7-2 t/m 5-70	OG200-5
2 collector trolleys	CL7-6 t/m 7-70	OG200-7
2 collector trolleys	CL7-2 t/m 4-100	OG300-4
2 collector trolleys	CL7-5 t/m 7-100	OG300-7
3 collector trolleys	CL7-2 t/m 4-35	TTB100-4
3 collector trolleys	CL7-5 t/m 7-35	TTB100-7
3 collector trolleys	CL7-2 t/m 4-70	OG300-4
3 collector trolleys	CL7-5 t/m 7-70	OG300-7

Carbon brushes

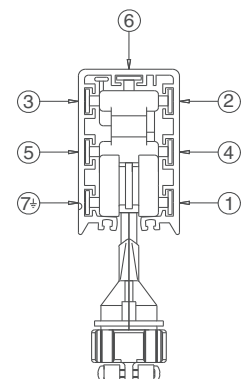
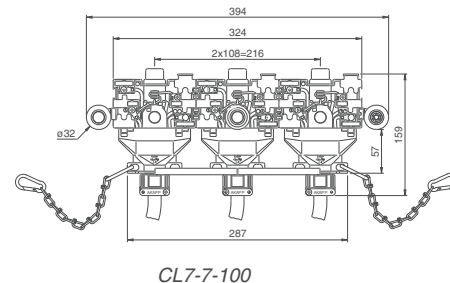
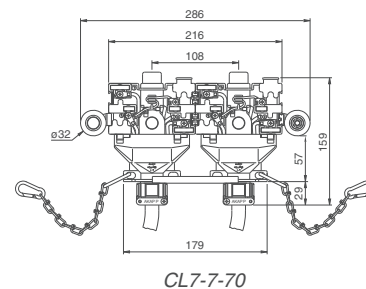
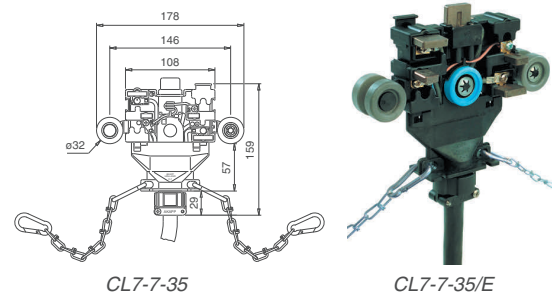
The collector trolleys are supplied as standard with carbon brushes for 35A, positioned according to the table below.

The brushes in positions 4 and 5 are both fitted as double brushes ("twin brushes"). Twin brushes are smaller than the others and their capacity is 35A per set. Advantages of this construction are a **perfect balanced** collector trolley and an **improved transmission of control signals**.

CARBON BRUSH TYPES		Standard carbon brushes		Silver graphite brushes*	
Application	Brush position in collector trolley	Art.no.	for normal conductors	Art.no.	for silvered conductors
Phase brush** norm.	1,2,3,6 & 7	A1411021	K91P	A1412221	KZ91P
Phase brush** twin	4 & 5	A1410601	C91D	A1410621	CZ91D
Ground brush	7	A1410521	K91P /C91A	A1410531	KZ91P/CZ91A

* Silvergraphite brushes are softer than the conductors

** Also suitable for DC



Schedule brush positions in CL7