

Overview standard collector trolleys, towing arms and transition boxes

In the chart below you can view the most common standard collector trolleys of the series CL7. The AKAPP reference numbers and some details are listed for each type.

This overview however does not show all possibilities. For further information on this (see also page 11), we recommend you to contact your AKAPP-STEMMANN supplier.

The other charts show all towing arms and transition boxes including their reference numbers.

Selection chart standard collector trolleys

AKAPP NO.	DESCRIPTION	max In (A) (D.C.=100%)	number of poles	max. speed m/min.	APPLICABLE FOR					
					expansion joint (KEV)	transfer guides ITN7	transfer guides ITKN7	HS, hand safe	silvered	vertical
1088470	Collector trolley + cable CL4-35	27,11	4	80	-	-	-	-	-	-
1089360	Collector trolley + cable CL4-70	54,22	4	80	-	-	-	-	-	-
1089750	Collector trolley + cable CL4-100	77,46	4	80	-	-	-	-	-	-
1093440	Collector trolley + cable CL7-4-35	27,11	4	100	-	-	-	-	-	-
1093510	Collector trolley + cable CL7-5-35	27,11	5	100	-	-	-	-	-	-
1093580.B0000	Collector trolley + cable CL7-6-35	27,11	6	100	-	-	-	-	-	-
1093650	Collector trolley + cable CL7-7-35	27,11	7	100	-	-	-	-	-	-
1093860	Collector trolley + cable CL7-4-70	54,22	4	100	-	-	-	-	-	-
1093930.B0000	Collector trolley + cable CL7-5-70	54,22	5	100	-	-	-	-	-	-
1094000.B0000	Collector trolley + cable CL7-6-70	54,22	6	100	-	-	-	-	-	-
1094070	Collector trolley + cable CL7-7-70	54,22	7	100	-	-	-	-	-	-
1094280	Collector trolley + cable CL7-4-100	77,46	4	100	x	-	-	-	-	-
1094350.B0000	Collector trolley + cable CL7-5-100	77,46	5	100	x	-	-	-	-	-
1094420.B0000	Collector trolley + cable CL7-6-100	77,46	6	100	x	-	-	-	-	-
1094490	Collector trolley + cable CL7-7-100	77,46	7	100	x	-	-	-	-	-
1094720	Collector trolley + cable CLTG7-4-35	27,11	4	100	-	x	-	-	-	-
1094780.B0000	Collector trolley + cable CLTG7-5-35	27,11	5	100	-	x	-	-	-	-
1094840.B0000	Collector trolley + cable CLTG7-6-35	27,11	6	100	-	x	-	-	-	-
1094900	Collector trolley + cable CLTG7-7-35	27,11	7	100	-	x	-	-	-	-
1093440.B0026	Collector trolley + cable CL7-4-35/E/T/Z	27,11	4	100	x	-	-	-	-	x
1093480.B0002	Collector trolley + cable CL7-4-35/S/E/T/Z	27,11	4	100	x	-	-	-	-	x
1093550.B0002	Collector trolley + cable CL7-5-35/S/E/T/Z	27,11	5	100	x	-	-	-	-	x
1095410	Collector trolley + cable CLITK7-6-35/S/E/T/Z	27,11	6	100	x	-	x	-	-	x
1095510	Collector trolley + cable CLITK7-7-35/S/E/T/Z	27,11	7	100	x	-	x	-	-	x

Selection chart towing arms

AKAPP NO.	DESCRIPTION	COLLECTOR TROLLEY
1019050	Towing arm BMV35	...35/...40
1019130	Towing arm BMV70	...70
1019210	Towing arm BMV100	...100
1018940	Towing arm, stainl.st. BMV35-R	...35
1019830	Towing arm, stainl.st. BMV70-R	...70
1019910	Towing arm, stainl.st. BMV100-R	...100

Selection chart transition boxes

AKAPP NO.	DESCRIPTION
1020000	Transition box for collector trolleys TTB35-4
1020010	Transition box for collector trolleys TTB35-7
1020020	Transition box for collector trolleys TTB70-4
1020030	Transition box for collector trolleys TTB70-7
1020040	Transition box for collector trolleys TTB100-4
1020050	Transition box for collector trolleys TTB100-7
1020060	Transition box for collector trolleys TTB140-4-2
1010430	Transition box for collector trolleys OG300-7

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.

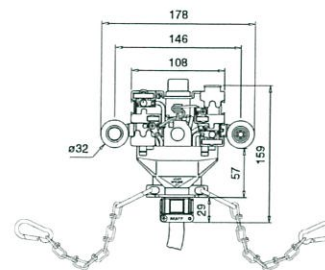
These collector trolleys are fitted as standard with a supply cable. The connection with the apparatus/machine to be fed is via a transition box (ordered separately) which can be located adjacent to the collector trolley towing arm position (see page 14).

Selection chart of standard collector trolleys + transition boxes

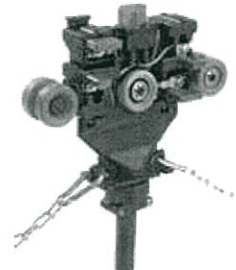
A max.	35		70		100	
number of poles	type trolley	type trans. box	type trolley	type trans. box	type trolley	type trans. box
2	CL7-2-35		CL7-2-70		CL7-2-100	
3	CL7-3-35	TTB35-4	CL7-3-70	TTB70-4	CL7-3-100	TTB100-4
4	CL7-4-35		CL7-4-70		CL7-4-100	
5	CL7-5-35		CL7-5-70		CL7-5-100	
6	CL7-6-35	TTB35-7	CL7-6-70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

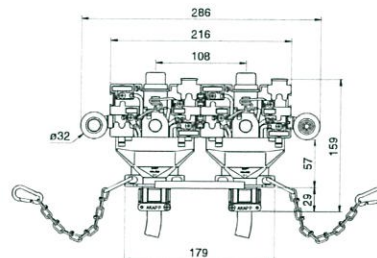
number of trolleys	type trolleys	type transition box
2 collector trolleys	CL7-2 t/m 4-35	TTB70-4
2 collector trolleys	CL7-5 t/m 7-35	TTB70-7
2 collector trolleys	CL7-2 t/m 5-70	OG300-7
2 collector trolleys	CL7-6 t/m 7-70	OG300-7
2 collector trolleys	CL7-2 t/m 4-100	OG300-7
2 collector trolleys	CL7-5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



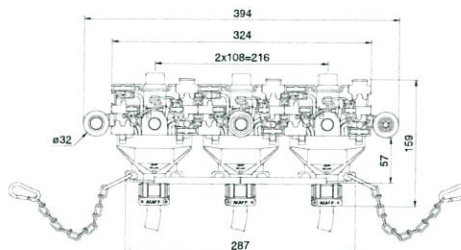
CL7-7-35



CL7-7-35/E



CL7-7-70



CL7-7-100

Carbon brushes

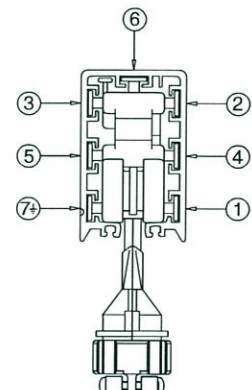
The collector trolleys are supplied as standard with carbon brushes for 35A, positioned according to the table below.

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 en 6	1411021	K91P	1412221	KZ91P
Phase brush** twin	4 en 5	1410601	C91D	1410621	CZ91D
Ground brush	7	1410521	C91A	1410531	CZ91A

* Silvergraphite brushes are softer than the conductors

** Also suitable for DC



Schedule brush positions in CL7