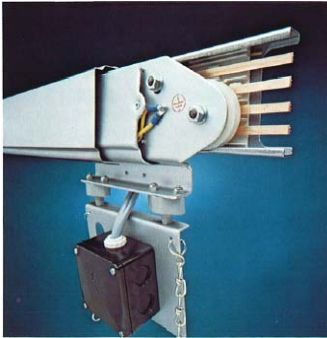


# The metal enclosed conductor system

**Neu im Programm – Nouveau dans notre programme – New to our program**



The sheet metal conductor system is a well proven product, it may be used in a large range of application, because of its mechanical strength and its thermal resistance to temperature change (min 40°C to plus 130°C).

The system can house up to 18 conductors in one plane and a capacity rating of 60, 100, 140, and 200 amps. Two types available one for indoor use and the other a weatherproofed system for outdoor use.

Both types are to VDE and SEV requirements.

## Applications for use

The number of pole and amperage ratings must first be determined. The standard size made is 3,4,5 and 6 poles with a capacity of 60,100,140 and 200 amps. You can combine several conductors in one hanger bracket. The system can house up to 18 conductors in one plane. The SG conductor track can be supplied either in straight, horizontal or vertical curved sections, in special application for transfer stations, switches and turntables.

## The Housing

This consists of a twin-shell sheet metal enclosure galvanized by the Sendzimir process, therefore giving a high mechanical strength, and having a mechanical load capacity of up to 50 Kgs per metre when support brackets are installed at 1Mtr intervals. This means in practice you can support power tools and small components from the collector trolley.

The SG conductor track may be installed at temperatures from minus 40°C to plus 130°C. Please state ambient temperature. When ordering conductor track to be installed in temperatures of plus 60°C up to plus 130°C a special insulation can be installed.

## The Cover

This is also made from sheet-metal galvanized by the Sendzimir process, thus being resistant to mechanical and temperature damage.

## The Insulating Shields & Blocks

These are made from Thermosetting glassreinforced synthetic material. These blocks hold the copper bars in place and at the required distance apart for both the air gap and the tracking minimum distance.

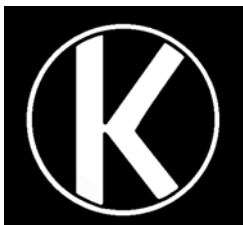
The copper bars are specially made to give a good electrical and mechanical connection. Amperage of copper bars is 60, 100, 140, & 200 amp.

## Length of SG Track

Standard lengths supplied are 4,5 Metres. Shorter lengths can be made as required.

## Track Installation

This is made by the use of hanger brackets fitted to superstructure. Brackets may be moved horizontal and vertical for final positioning. The track connections are made by a joint plate and connecting sleeves fastened by screws giving a good electrical and mechanical connection.



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## **Electrical Feed Connections.**

These may be made at any joint between two lengths of track by means of a line feed connection piece. Alternatively, you may also take power from the system for stationary equipment without interrupting the collector trolley movement. Therefore giving you a dual purpose system. The system may be extended or shortened as required using standard parts.

## **Inspection and Maintenance**

This is minimised because you can remove each individual screwed cover for inspection of conductor bars and trolley, but remember to isolate power before carrying out this operation.

## **The Collector Trolley**

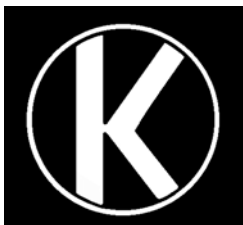
This is manufactured from sheet-metal with removable plastic wheels fitted with sealed bearings. The electrical collector housing is made from glass fibre reinforced material with spring loaded brushes. Depending upon the amperage required the collector is fitted with more brush holders, sizes available are 25,40,50 and 80 amp. in one collector trolley.

## **Inserting and removal of collector trolley**

The trolley wheels are set at the factory in the correct place for insertion into the end of a section of track. Alternatively the collector trolley may be installed or removed at any point in the system. The SG system has in its range of standard parts two components to facilitate to removal and insertion of the collector trolley. These parts are the AKLA and AUSV sections.

## **Collector Trolley Base Plate**

This base plate is used for the purpose of moving the trolley in either direction, it may also house different components such as terminal box, circuit breaker, fuse holders and plug an socket connector. The readjustment of the collector trolley and the brushes is very simple.



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