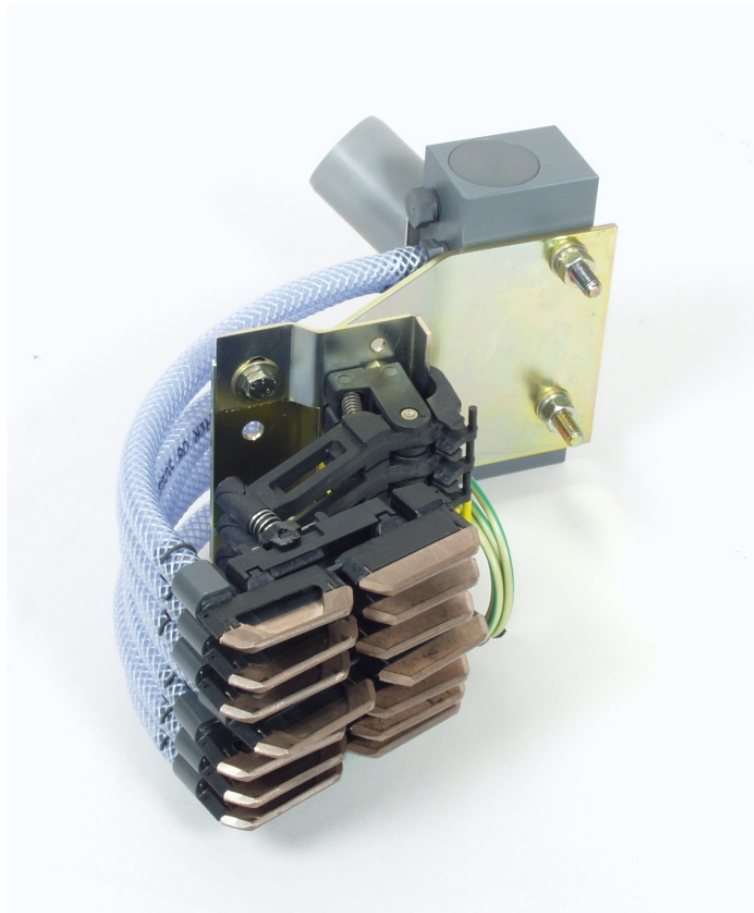


# TECHNICAL DOCUMENTATION

## Vacuum System ARG 14 DS for Automated Monorails



**1. General Information**

The vacuum system automatically removes loose dust particles and carbon brush residue on 6, 7, or 8 phase U 10 conductor system with 14mm conductor spacing bu using the respective vacuum heads.

**2. Vacuum System Technical Data:**

Type	Conductor	Conductor Spacing	#-conductors	Catalog #
ARG 14-6 DS	U10	14mm	6-conductors	142 546
ARG 14-7 DS			7-conductors	142 603
ARG 14-8 DS			8-conductors	142 539

Cleaning Collector head life expectancy: 2,000 km (1,250 miles)

**3. Compact Cleaning Collector Set**

The compact cleaning collector set is similar to the standard compact current collector set.

The cleaning collector ARDS 2/40 differs from the standard collector DS 2/40 in that it has a cleaning head with integrated suction nozzle in place of the carbon contact brush.

Because of safety reasons the cleaning collectors cannot conduct electrical current. The #4 cleaning collector (PE conductor) has a ground wire included.

#### 4. Precautionary Requirements when Performing Maintenance on Electrical Equipment

Always make certain that the electrical current has been switched off and that the switch has been locked out and secured.

The absence of current must be verified by a licensed electrician. All conductors must be first grounded and then a short-circuiting device must be installed. Signs must be posted to indicate that work is being performed at this location. Adjacent systems must be covered, or if deemed necessary, switched off.

##### The following task should be performed regularly:

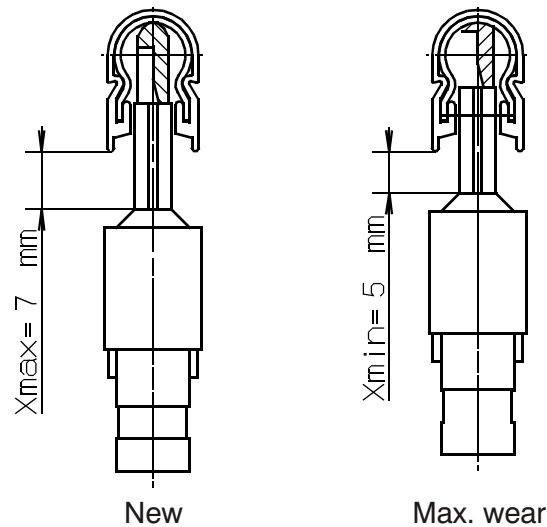
Check the vacuum cleaner every two months, or every month if used heavily.

Specifically check linkages and pivot pins.

Look for mechanical damage.

If there is damage to the cleaning collector head also check the respective conductor for damage or loose splices/splice caps/isolating sections etc.

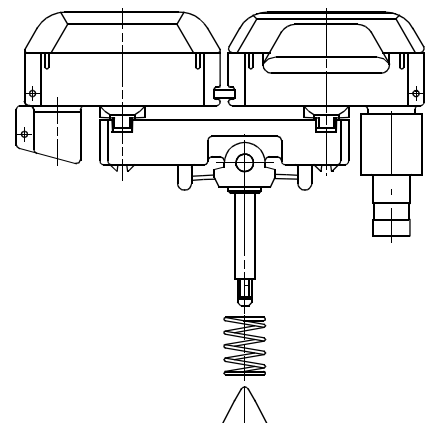
Dimension  $X_{min}$  must not be below 5mm, see drawing below.



The collector cleaning head must be replaced once the max. wear limit has been reached.

##### Replacement of cleaning collector head ARDSW 2/40

Remove suction hose. Remove locking wedge and pressure spring, remove collector cleaning head and replace with new component. Reinstall pressure spring, locking wedge and connect suction tube.

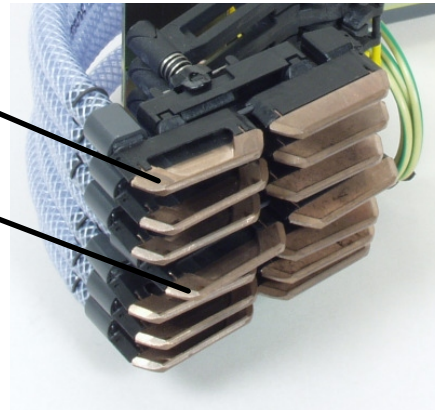


## 5. Spare Parts

### Conductor Cleaning Collectors for ARG 14 DS:

Conductor cleaning collector ARDS 2/40 Cat# 142541

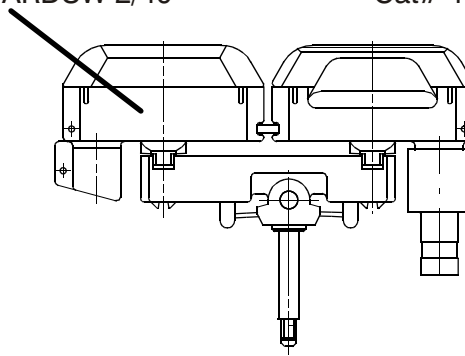
Conductor cleaning collector ARDS 2/40 Cat# 142542  
with PE ground cable



### Collector Cleaning Heads for ARG 14 DS:

Collector cleaning head ARDSW 2/40

Cat# 142620



Replacement filter bags

Cat# 166429

Replacement suction tube (Ø 12, 235mm long)

Cat# 142582

Replacement suction tube (Ø 12, 250mm long)

Cat# 142583

Replacement tube to blower (Ø 40, 2m long)

Cat# 142626

Side channel blower

Cat# 142624

Filter housing

Cat# 142635

## 6. Drawing Index

Drawing #	Description
231-88-093214	Conductor Cleaning System ARG 14 DS for U 10 Conductors installed in automated monorails
231-88-093215	Vacuum Head for ARG 14 DS
331-88-093216	Compact Conductor Cleaning Collectors ARDS 2/40-1...12-14
331-88-093217	Conductor Cleaning Collector ARDS 2/40
431-88-093288	Collector Cleaning Head ARDSW 2/40

## 7. Safety Considerations

- Always exercise caution when working with electrical components!
- Collector brush residue conducts electricity and may cause short circuiting!
- Replace filter bags more frequently if the conductors are highly contaminated with brush residue!
- Do not inhale brush residue!
- Do not reuse filter bags; dispose bags as per local regulations.