

**STOKMAN-SCW ROLLERS, IDLERS AND
GARLANDS**

**MAINTENANCE AND OPERATION
MANUAL**



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Please read all instructions thoroughly.

GENERAL INSTRUCTIONS

1. Transportation and storage

- . Rollers can be delivered packed in wooden pallets, wooden boxes or crates. All in securely strapped form.
- . Offloading shall be by means of a forklift with suitable arrangements and be operated by experienced personnel.
- . There must be no direct contact between the lifting forks and the rollers.
- . Rollers should be stored under cover in a well ventilated area and protected against environmental effects.
- . In all circumstances avoid knocking, scraping and falling.
- . Storage shall not exceed more than 6 months.
- . All rollers must be stored on a secure, flood-free surface with a minimum separation of 100mm above the ground.
- . Avoid moisture condensation on packages.

2. Installation

- . Make sure all safety standards or requirements are met. Use proper lockout procedures.
- . We recommend using safety gloves, boots and gear during installation.
- . Make sure to remove all debris from the frame area where the roller is to be installed.
- . The endcaps of the rollers should not be damaged during assembly.
- . If there are ATEX requirements, rollers must be integrated in conveyors where the static electricity is to be grounded in accordance to the ATEX directive.
- . The conveyor belt installation must meet DIN 22.101 specifications and in accordance with EN-13463 standards.



3. Maintenance

- . Avoid accumulating of materials in the operating area.
- . Ensure that rolls do not run in jammed conditions.
- . Always wash down with conveyor running
- . Never aim cleaning jet into sealing/roll end cap.
- . Replace damaged rolls immediately.
- . Immediate replacement is also required in the following conditions:
 - When an unusual noise is heard (could indicate bearing failure)
 - Excessive wear on the roller's shell
 - Excessive wear or tears of the rubber rings or lagging.
 - Damaged bearing cover/labyrinth.
 - Any other suspicious situation.
- . To ensure proper performance be sure to inspect the rollers monthly.
- . When welding in the proximity of the rollers ensure grounding does not go through the rolls.



4. Technical data

Standard conveyor belt roller specifications in accordance with DIN 22.107

- Shaft diameter Ø20 up to Ø60
- Roller diameter Ø89 up to Ø159
- Bearings with extended lifespan with anti-locking feature
- Cast steel bearing housing, fully in line, machine processed
- Quadruple sealing to offer optimum resistance against extreme external influences
- Running resistance and imbalance in accordance with eccentricity standards
- Lifespan lubrication
- The rollers are built in such a way therefore so as to operate within an ATEX accredited machine and/or environment
- Suitable for belt speeds up to 6 m/s and product flows up to 6000 tonnes/hour
- Produced in accordance with DIN
- With or without lagging
- Deviational dimensions possible upon request

Stokman SCW is European manufacturer of conveyor belt components.



5. Material datasheet

Material used for end cap bearing cover: Polyoxymethylene (POM).

<u>Electrical properties</u>	<u>Value</u>	<u>Unit</u>	<u>Test standard</u>
Relative permittivity-100Hz	4	-	IEC 60250
Relative permittivity-1 MHz	4	-	IEC 60250
Dissipation factor-100Hz	20	E-4	IEC 60250
Dissipation factor-1MHz	50	E-4	IEC 60250
Volume resistivity	1E12	Ohm*m	IEC 60093
Surface resistivity	1E14	Ohm	IEC 60093
Electric strength	35	kV/mm	IEC 60243-1
Comparative tracking index CTI	600	-	IEC 60112



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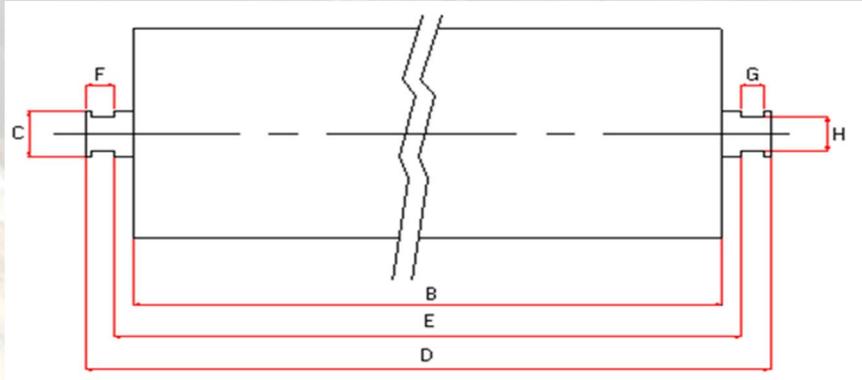
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APPENDIX

Measurement fill in form.



Part no.		
Amount		
Diameter of tube	A	Ø
Diameter of ring	Ar	
Roll length	B	
Diameter of shaft	C	Ø
Shaft length	D	
Fixation length	E	
Key length	F	
Enclosed length	G	
Key width	H	

Shaft end:

double flat	
single flat	
Hole	
Outside thread	
Inside thread	
plain size	



How to identify our conveyorbeltrollers in your installation:



Stokman-SCW rollers are easy to identify;

Our typical specially designed labyrinth in the colours blue, white or black, according to the bearing specifications, should give you the first indication.

Also, our brandname SCW is followed by two pairs of digits, together they form the date of production.

SCW 2-16

The first digit indicates the quarter, the last set indicates the year of manufacturing.

