CABLE CARRIERS FOR ◇-TRACKS
INSTALLATION INFORMATION FOR CATALOG 8c/E

1. Installation tools

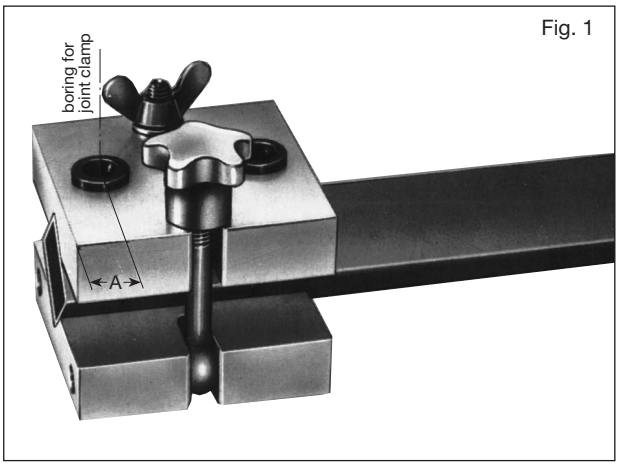
Standard tools,
Drill-jig BV 3-50/15,
Drill Ø 8.5 x 90°

2. Installation Procedure

2.1 Plan to install diamond track parallel with runway of equipment; the side clearance to be sufficient to avoid interference with swinging cables.

2.2 Prepare to connect track sections with joint clamps. Use drill-jig BV 3-50/15 and drill Ø 8.5 x 90° (see photo 1). Torque moment for hex. screws M 8 – 10 Nm.

Fig. 1

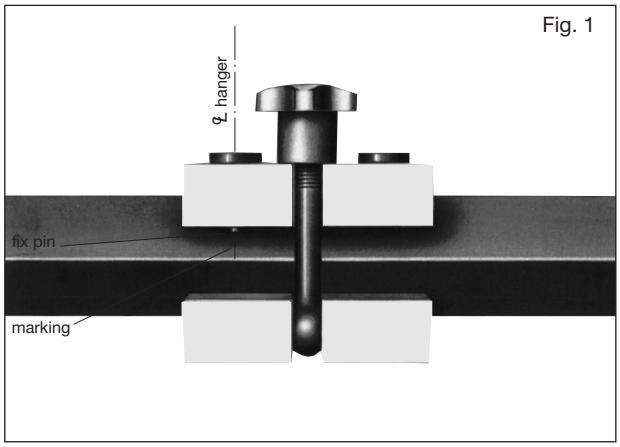


Set drill-jig exactly at Dim. A = 15 mm from the track ends.

2.3 Install the track sections into the prepared hangers, considering a support spacing in accordance to the anticipated load (see table below):

Support spacing	1 m	1.5 m	2 m	2.5 m	3 m	3.5 m
permissible area load	111 kg	74 kg	47 kg	30 kg	21 kg	15 kg

Fig. 1



Each hanger requires 1 hole 8.5 mm Ø in the track. Mark the exact center position of the hanger and drill accordingly.

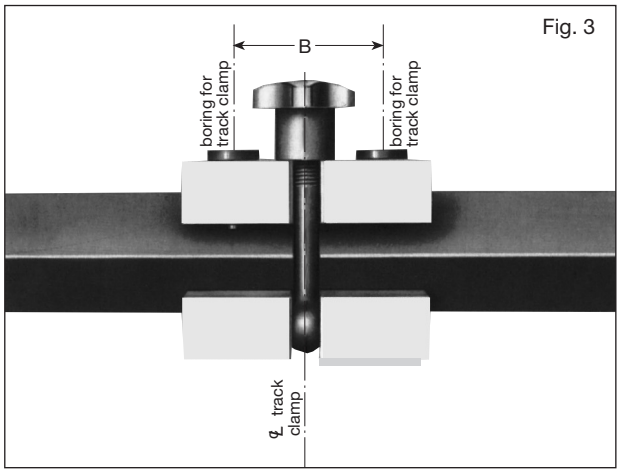
Drill holes for the hangers per photo 2.
Torque moment for hex. screws M 8 – 10 Nm.

2.4 The ends of the diamond track are closed by end caps.

2.5 The system components must be installed in the following order:
Lead carrier, cable carriers, track clamp with bumper.

2.6 The track clamp to be bolted to the square bar track. Drill 2 holes per photo no. 3. Torque moment for M 8 hex. screw = 10 Nm.

Fig. 3



Mark center position of end clamp on the track and drill 2 holes 8.5 mm Ø, Dim. B = 50 mm.

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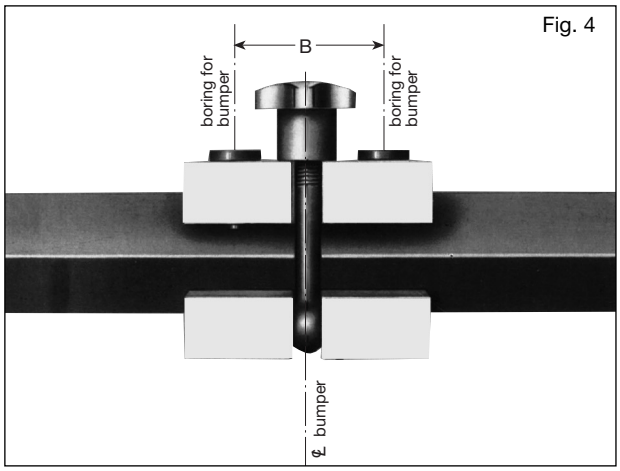
2.7. Connect lead carrier to equipment with an outriggertube 25 – 30 mm ø (by others). This towing arm should fit centrally into the rectangular box of the lead carrier. Make sure that there is sufficient storage space for all carriers between lead carrier and track clamp.

2.8. A bumper at the free track end will be required when using a control carrier instead of a lead carrier. Bumper installation requires 2 holes 8.5 mm ø, Dim. B = 50 mm (see photo 4). Torque moment for hex. screws M 8 – 10 Nm.

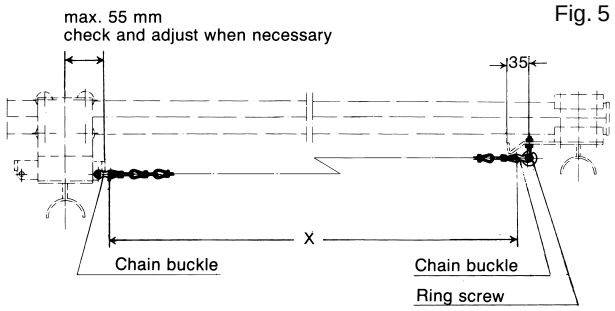
Fig. 4



Mark center position of bumper on the track and drill 2 holes 8.5 mm ø, Dim. B = 50 mm.

2.9 The strain relief chain to be cut into pieces of Dim. X and installed between all carriers and track clamp (see fig. 5).

Fig. 5



$$X = \frac{(F \times 1.05) + Z}{n + 1}$$

X = Chain length in mm
F = Travel distance of lead carrier in mm
n = Number of cable carriers (w/o lead carrier and end clamp)
1.05 = Safety length factor
Z = Open space in storage section

Attachment of the strain relief chains is achieved via chain buckles. Use the ring screw for connection to the track clamp.

2.10. Finally secure cables on carriers and make sure the cable length (L) is equally distributed between the track clamp and the lead carrier/control carrier forming the same loop between all carriers. L = (Storage distance incl. open space + active travel) x 1.2.

The cable to be securely clamped between cable saddles and neoprene clamp pad. The nuts to be locked.

3. Make test runs.