Steel bonding cylinder (earth bus) for metal structures

EBOS 5050 · EBOS 5040 · EBOS 5030 · EBOS 4040 · EBOS 4030



The KALOT Group steel bonding cylinder (earth bus) creates a permanent earth connection point on steel structures. The solid steel cylinder is welded to a column, beam, tank shell or equipment chassis, and the earth conductor is fixed with a cable lug on its M10 stud. This connects the metal structure to the earthing and bonding system without any drilling.

- A welded earth connection point on steel structures
- Carbon steel body, stainless steel accessories
- M10 stud for the conductor cable lug
- Five EBOS sizes and custom sizes

Technical specifications

Type	A welded earth connection point for steel structures
Body	Solid carbon steel cylinder
Accessories	Stainless steel: stud M10, two nuts, two flat washers and one spring washer
Thread	M10
Sizes	Diameter 40 or 50 and length 30 to 50 mm (five EBOS codes)
Installation method	Flat face of the cylinder welded to the structure, with a fillet weld all the way round
Conductor connection	Conductor cable lug on the stud, between two flat washers
Installation location	Steel columns and beams, tank shells, equipment chassis, steel frames
Special orders	Cylinder size and accessory size and material to order

Earth bus sizes (EBOS)

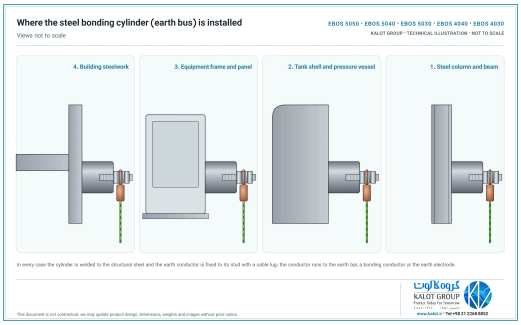
Code	Diameter D (mm)	Length L (mm)	Thread
EBOS 5050	50	50	M10
EBOS 5040	50	40	M10
EBOS 5030	50	30	M10
EBOS 4040	40	40	M10
EBOS 4030	40	30	M10

Diameter and length are in millimetres; the first number of each code is the diameter and the second the length of the cylinder. Other sizes, and studs to match the cable lug, are made to order. We continually improve our products and some dimensions may be updated, so please confirm the final dimensions with our experts before you buy.

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Dimensional drawing

Connection modes



Installation

1. Choose the earth bus size to suit the structure and the conductor's cable lug, and mark the position on the structure at an accessible height, away from existing welds. 2. Grind the position and a ring around it down to clean metal, removing paint, mill scale, rust and grease. 3. Set the cylinder square to the surface, tack weld it, then run a fillet weld all round to the project welding procedure; remove the slag. 4. Cover the cylinder body, the weld and the ground area with anti-corrosion paint or tape; keep the front face and the thread clean. 5. Screw the stud into the cylinder and tighten the lock nut against the cylinder face; then fit a flat washer, the cable lug, a flat washer, the spring washer and the nut, and tighten the nut to the manufacturer's instructions. 6. Measure the electrical continuity between the cable lug and the structure and record the result.

Selection and enquiries

To request an earth bus price, send our experts the type of structure (column, tank, chassis), the conductor cross-section and cable lug type, and the number of connection points. If you need another size or thread, tell us that too.

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