



## URBAN TRANSPORT PNEUMATIC MOTOR



**F.lli BIGARAN**  
TECNOLOGIE MECCANICHE FERROVIARIE

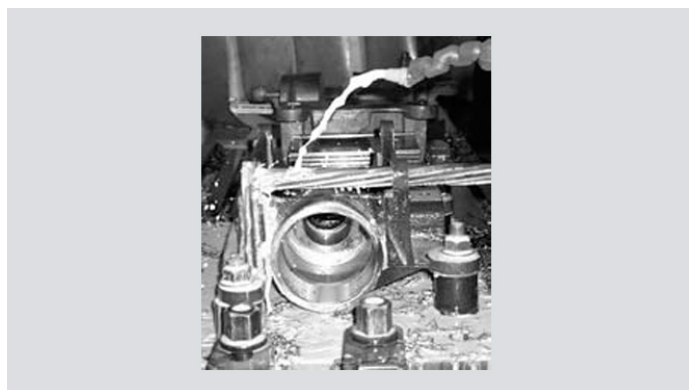
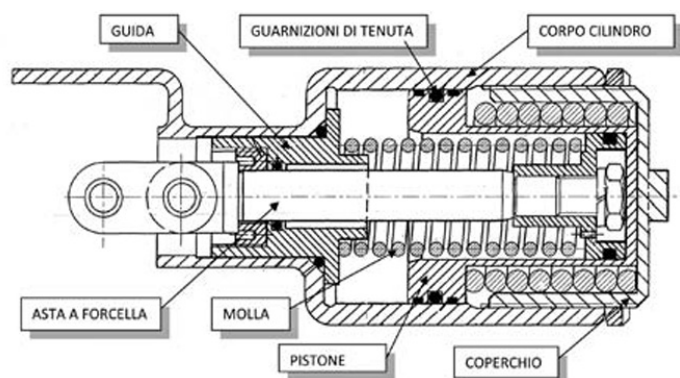


**CODICE: 140501440**

**COMPONENT FOR COMPRESSORS**

**IMPIEGO D'USO: CURRENT COLLECTOR SHOE - RAILCARS LINE 1**

The **pneumatic motor** is one of the main components of the current collector shoe. In case of air failure within the cylinder, the plug is in rest position; by entering air in the cylinder, the mobile piston moves and wins the antagonistic action of the back spring, up to getting in contact with the bottom cover. In these conditions, the shoe is in contact with the rail. The cylinder body is obtained by melting steel 520 UNI3158 EGF, processed by CNC machine tools and then ground and polished, to obtain the requested roughness  $Ra\ 0.4\ \mu m$ . The piston is obtained by turning and honing on sealing surfaces. The fork rod is obtained by machining, subject to case hardening and tempering, and subsequently ground. Pneumatic motors, assembled, are leak tested at 7 bar.



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