

Title (en)

METHOD FOR MANUFACTURING CYLINDER BODY OF ACTUATING CYLINDER AND CONCRETE PUMPING APPARATUS

Title (de)

VERFAHREN ZUR HERSTELLUNG DES ZYLINDERKÖRPERS EINES BETÄTIGUNG SZYLINDERS UND BETONPUMPE

Title (fr)

PROCÉDÉ DE FABRICATION D'UN CORPS DE CYLINDRE D'UN VÉRIN DE COMMANDE ET APPAREIL DE POMPAGE DE BÉTON

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Abstract (en)

The present invention discloses a cylinder body of an actuating cylinder, comprising an inner lining layer (1) and a first fibrous composite layer (2) bonded on the outside of the inner lining layer (1), wherein, the first fibrous composite layer is composited from a first fibrous material and a substrate resin material. The present invention further discloses a concrete pumping apparatus having the cylinder body. Accordingly, the present invention further discloses a method of manufacturing a cylinder body of cylinder body, comprising: an inner lining layer forming step: forming an inner lining layer; and, a bonding step: forming a first fibrous composite layer composited from a first fibrous material and a substrate resin material, and bonding the first fibrous composite layer on the outside of the inner lining layer. With the above technical scheme, the cylinder body of an actuating cylinder has high strength, light weight, high fatigue resistance, high corrosion resistance and low thermal expansibility. In addition, since the inner lining layer of the cylinder body can meet the requirements for leak tightness of the inner wall of cylinder body and wear resistance when contacts with the piston, the service performance of the cylinder body will not be degraded.

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