THE ECONOMIC TECHNOLOGIES OF PRODUCTION OF HYDRAULIC CYLINDERS

Summary
Among all products manufactured in the metallurgical and the machine-building industries, seamless tubes and hollows make up a major part. Hollows can either constitute a semi-finished product intended for further plastic working or machining, or be sold as finished products. There are several methods of manufacturing hollows, and the choice of one of them depends on the purpose of the product and its dimensions.
Other methods of manufacturing deep hollows or cylinders for the purposes of the machine-building industry are also used in production practice, which consist in joining the hollow with the bottom by the pressure welding or fusion welding of a semi-finished product produced, e.g., on a press rolling mill. However, the cost of manufacture of 1 running metre of such a semi-finished product is by 30% higher than that of 1 running metre of a corresponding hollow produced by the extrusion method. Bottomed hollows are often used either as finished products or semi-finished products intended for the manufacture of hydraulic cylinders designed for operation under the conditions of extreme temperatures and pressures, and it is therefore required that their construction be uniform.