

Machinery for Ceramic Injection Molding Process.

Y. Arakida

R&D Division, The Japan Steel Works, Ltd.

Abstract

Injection molding has been and is now the most popular process for shaping of mass production plastics. Recently, powder injection molding process is attracting attention for another application of the injection molding. Materials to be shaped by the injection molding are not only plastics but also ceramics, metals and cermets powders. In the process, the process flow shown in Fig.1 is typical. In this report, machinery and its operations for the ceramic injection molding process are described. Fig.2 shows an inline screw type of ceramic injection molding machine.

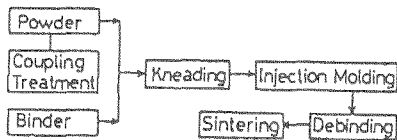


Fig.1 Typical process flow for powder injection molding.

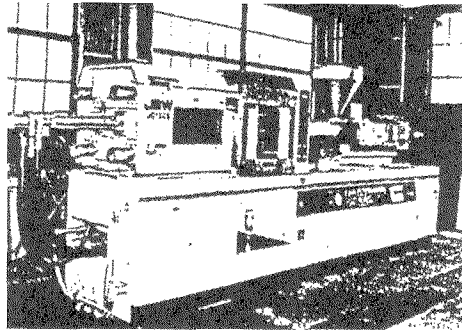


Fig.2 An inline screw type of ceramic injection molding machine