

Compacting based on the electric system. For simple or first workpieces in production, where the accuracy of the part densification is not a criteria.

The right construction of the press which is designed with minimum deflection, with the die motion required in the state of a part of the finished part and the

A MODERN POWDER METAL PRESS FOR UNIVERSAL APPLICATIONS

Winfried Beisel, general manager
GRAEBENER PRESS SYSTEMS, INC.

Abstract

When powder metal parts are produced in higher quantities to a greater accuracy and to a higher surface quality finish, then there are more stringent requirements on the powder metal presses. They are even more exacting when the density throughout the section of the material must be completely uniform. This is of prime importance for precision parts in the automobile industry, gear technology industry, the electronics industry, and for office machinery.

The powder metal press model GPS which is here described is a universal powder metal press which is utilized for all of the following modern press manufacturing methods.

1. Compacting based on the dual motion system,
This type of compacting is ideal for a completely uniform densification through the entire cross section of the part.
2. Compacting based on the die withdrawal system,
With this type of compacting the conventional tools and adaptors can be utilized.
3. Compacting based on the 2-die system with split dies,
This type of manufacturing extremely well suited for difficult and complex P/M parts, workpieces with undercuts, overlaps, or parts with transverse boreholes.