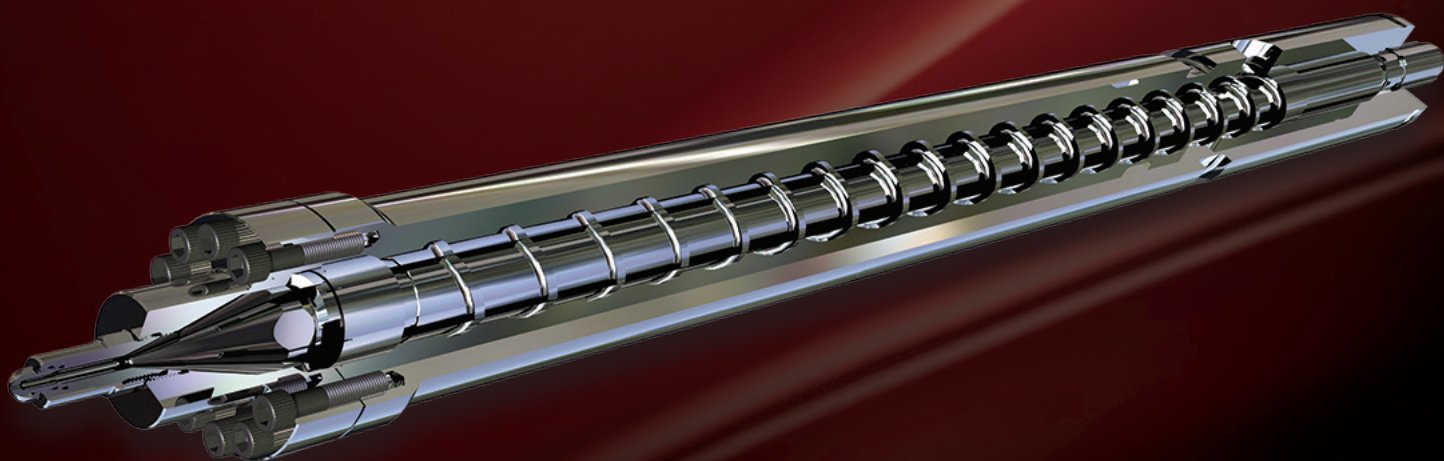
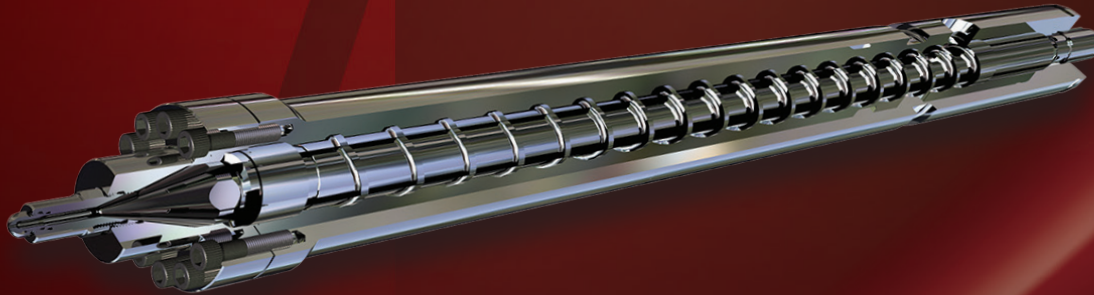


ZEIGER INDUSTRIES: THE PEOPLE WHO GAVE YOU THE MALLARD Z4 VALVE...

GIVES YOU THE  
**ULTIMATE**  
plasticizing technology  
for demanding applications.



**ZEIGER**  
Industries



## THE ULTIMATE IN INJECTION MOLDING PERFORMANCE.

### STANDARD Z4 SLIDING RING VALVES

The standard MALLARD® Z4 valve components are made of PM M4 high-speed, abrasion-resistant steel and has a tough reusable heat treated stainless steel retainer for maximum toughness & corrosion resistance.



### CARBIDE-FACED Z4 VALVES

For extreme processing conditions, we offer MALLARD® Z4 valves that are manufactured utilizing carbide-faced components. These tough Z4 valves carry the industry's only 2 Year Wear-Through Guarantee on all carbide-faced surfaces.

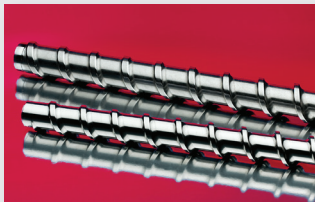
### STAINLESS STEEL Z4 VALVES

MALLARD® Z4 valves can be manufactured from corrosion and wear resistant CPM® 20CV tool steel for extra protection when processing PVC. When injection molding Polycarbonate, especially clear material, we recommend and supply Elmax PM stainless tool steel.

For maximum corrosion and wear resistance, our new Halogen Free Fire Retardant (HFFR) valve option handles even the most demanding resins such as glass-filled HFFR-based Polyamides.

### GENERAL PURPOSE (GP) TOOL STEEL SCREWS

Can be manufactured to any design and material specification.



### ZEIGER PERFORMANCE (ZP) SCREWS

Recommended for extreme processing conditions and designed to handle the toughest conditions with ease. ZP screws are highly effective for shear sensitive applications, or where better melt quality and/or color mixing is a concern.

Zeiger screws are made from both conventional and powder metallurgy steels produced by leading global suppliers.



MANUFACTURER OF  MALLARD® PRODUCTS

Performance Guaranteed to Customer's Satisfaction

4704 WISELAND AVENUE S.E. • CANTON, OHIO 44707 • USA  
Phone: 1-330-484-4413 • Fax: 1-330-484-0267  
E-mail: [sales@zeigerindustries.com](mailto:sales@zeigerindustries.com) • [www.zeigerindustries.com](http://www.zeigerindustries.com)

