

Tolerances

Our capabilities

Our ability to hold consistent tolerances with minimum variation makes our products ideal for CNC equipment. We are able to perform to this high standard by utilizing precision-machined in-house dies. Additional finishing allowance for tubes and rounds over 13 inches in length is .007 inches per linear inch due to curvature (TIR) inherent in longer lengths of material. This standard applies to both I.D. and O.D. Additional finishing allowance for rectangles over 13 inches in length is .0035 inches per linear inch due to curvature (TIR) in longer lengths of material. This standard applies to both thickness and width. These tolerances found in Wieland Concast products are significantly better than sand, centrifugal, and other types of casting methods.

Straightness tolerances are also critical due to the increased speed capabilities of new generation CNC equipment. All of our bars and tubes are Medart® straightened enabling them to exceed ASTM B505 straightness requirements. As a result, our customers are able to utilize the optimum performance of their equipment with the result of increasing their competitive advantage.

Wieland Concast products can be ordered to the cast size or "to finish to" condition. Our standard stock is produced oversized in the "to finish to" condition so the customer will be assured the size ordered will finish machine to that size with as little as .031 inches of material to be removed.

Our material tolerances allow for the optimum performance of modern machining equipment.

