

## Hybrid Bearings

Hybrid means that the bearing is a combination of two different types or various compounds, in our case our Hybrid Bearings contain Stainless Steel (S440) races and ceramic balls / rollers, most commonly ZrO<sub>2</sub> (Zirconium Oxide - White) or Si<sub>3</sub>N<sub>4</sub> (Silicon Nitride - Black) This type of bearing can be used in cases where exceptional circumstances are needed for example if a bearing is required to be non magnetic or in cases where the bearing is required to be non reactive with another substance such as water or temperature – hot or cold.

## Ceramic Bearings

**Full Ceramic bearings** are made entirely of ceramic material and are superior to common steel bearings in many ways. Ceramic is the perfect material for any application seeking to achieve higher RPM's, reduce overall weight or for extremely harsh environments where high temperatures and corrosive substances are present. Applications such as medical devices, semiconductors, machine tools, turbine flow meters, food processing equipment, robotics and optics. Ceramic materials commonly used for bearings are Silicon Nitride (Si<sub>3</sub>N<sub>4</sub>), Zirconia Oxide (ZrO<sub>2</sub>) Full Ceramic Bearings are only recommended for use in applications where there is no vibration or shock loads (ie: only suitable for smooth running applications)

## EEC Super Ceramic Product Range

Here is a current list of our Product Range, which is growing every month, if we do not have the item you require in stock we have a very quick turnaround from the factory, approximately 2-3 weeks Delivery from factory subject to material availability

608 2RS-CH-SS-SI3N4	61904 2RS-CH-SS-ZRO2	6202 2RS-CH-SS-ZRO2
608 2RS-FC-ZRO2	61905 2RS-CH-SS-ZRO2	6202-FC-ZRO2
61801 2RS-CH-SS-ZRO2	61906 2RS-CH-SS-ZRO2	6203 2RS-CH-SS-ZRO2
61802 2RS-CH-SS-ZRO2	6000-FC-ZRO2	6204 2RS-CH-SS-ZRO2
61803 2RS-CH-SS-ZRO2	6001 2RS-CH-SS-ZRO2	6204-CH-SS-SI3N4
61804 2RS-CH-SS-ZRO2	6001 2RS-FC-ZRO2	6205 2RS-CH-SS-ZRO2
61805 2RS-CH-SS-ZRO2	6002 2RS-CH-SS-ZRO2	6206 2RS-CH-SS-ZRO2
61806 2RS-CH-SS-ZRO2	6003 2RS-CH-SS-ZRO2	61811-FC-ZR02
61807 2RS-CH-SS-ZRO2	6004 2RS-CH-SS-ZRO2	6300 2RS-CH-SS-ZRO2
61900 2RS-CH-SS-ZRO2	6005 2RS-CH-SS-ZRO2	UC205-CH-SS-SI3N4
61901 2RS-CH-SS-ZRO2	6006 2RS-FC-ZRO2	UC206-FC-SI3N4
61902 2RS-CH-SS-ZRO2	6201 2RS-CH-SS-ZRO2	UC213-FC-SI3N4
61903 2RS-CH-SS-ZRO2	6201-FC-ZRO2	

Suffix Designation :

CH = Ceramic Hybrid

FC = Full Ceramic

SS = Stainless Steel Races

ZRO2 = Zirconium Oxide (White Ceramic)

SI3N4 = Silicon Nitride (Black Ceramic)



The New R&M Trade Webshop will be launched in March 2016, existing customers will be invited to the shop with a unique user name and password and we welcome you to our Webshop for an excellent customer experience.