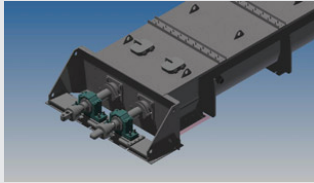


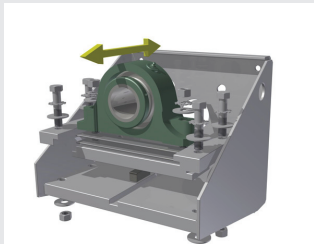


KWS Slider Base Trough End

The KWS slider base trough end allows for thermal expansion in high temperature applications. If not accounted for, thermal expansion causes excessive stress and fatigue loading, leading to premature failure.



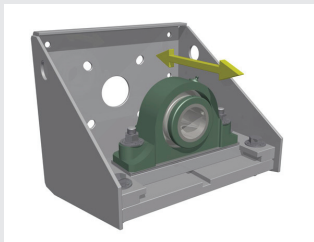
Expansion and contraction is common in every high temperature application. Expansion occurs axially along the length of the screw and trough in screw-type thermal processors. The KWS slider base trough end is designed for thermal expansion and can account for axial expansion up to 4-inches.



The KWS slider base trough end uses an innovative slider ridge to ensure precise alignment of the shaft and end bearings as thermal expansion occurs. Alignment is critical to proper operation of a thermal processor.

Features

Controlled Expansion – The KWS slider base trough end allows travel axially along the length of the thermal processor. Using our proprietary thermal expansion calculator, Engineers at KWS are able to accurately calculate the thermal expansion requirements of the application. If thermal expansion is not properly accounted for, the shaft and screw will be subjected to cyclical bending loads causing premature failure of the thermal processor.



Pedestal Design – The pillow block bearings on the KWS slider base trough end are located on a pedestal away from the heat source, allowing the bearings to stay cool under extreme conditions. KWS utilizes heavy-duty, spherical pillow block bearings for high radial load capabilities and long life. These bearings are readily available as replacements, if required. A variety of shaft seal options are available depending on process requirements such as split gland seals, flanged gland seals or mechanical seals.

Spherical Roller Bearing – Each KWS slider base trough end uses spherical roller bearings. Spherical roller bearings are heavy-duty pillow block bearings with spherical rollers for superior load capacity and durability. The spherical bearing design allows for shaft run-out while reducing eccentric loading on the bearings and shafts. The spherical bearing housing allows for thermal expansion in addition to the slider base.

Benefits

Compact Design – The compact design of the KWS slider base trough end creates a smaller overall footprint for the KWS Thermal Processor while still allowing for full functionality and ease of maintenance.

Versatile and Rugged – The KWS slider base trough end accounts for axial thermal expansion with a versatile and rugged design. Heavy-duty $\frac{3}{4}$ -inch thick bearing base plates and 1-inch thick pedestal slider plates ensure years of reliable service in even the harshest environments.

Ease of Maintenance – The removable slider base hold downs allow for smooth linear travel and ease of maintenance. The hold downs are simply removed by unbolting which allows full access to the bearings for maintenance.



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