



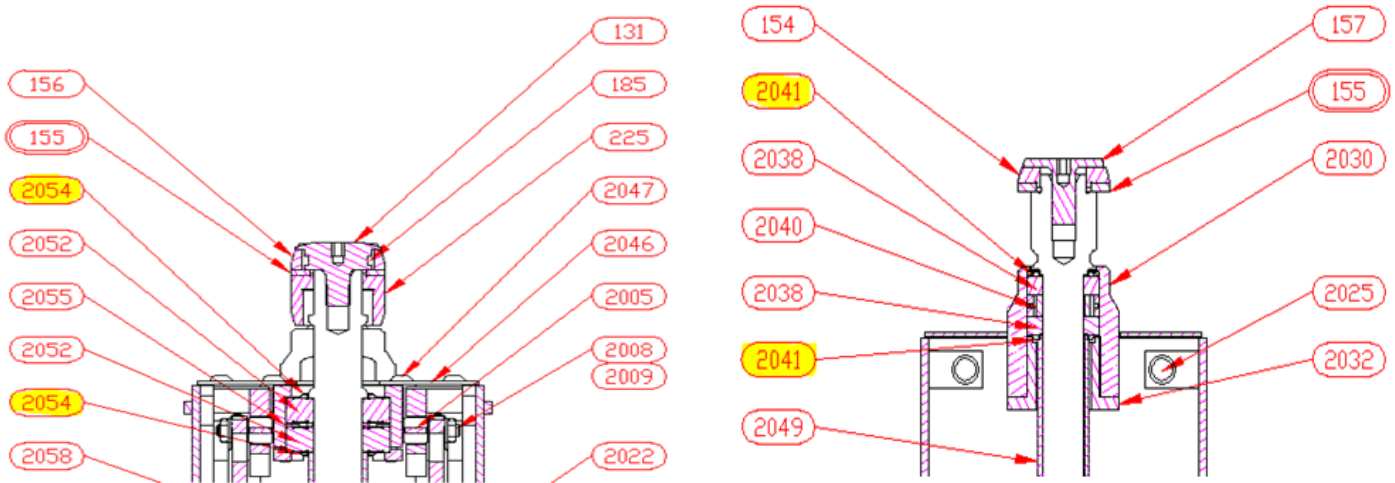
Belvac Production Machinery Technical Bulletin

Information for Customers Operating & Maintaining Belvac Machines

ISSUE 2, VOLUME 15, AUGUST 2012

EMC Cartridge Nilos Ring Preparation

Belvac's EMC Cartridge design utilizes Nilos® rings to seal the bearing from external contaminants, and retain grease integrity: reference Item #2041 & Item 2054 (Assemblies 9310000 & 9310099).



A Nilos ring is an external metal bearing seal that produces a small labyrinth like sealing surface on the inner or outer ring of a bearing. When mounted in pairs, the bearing is sealed for life.

The seal for a Nilos Ring is obtained when the leading edge of the seal, rotating under slight pressure, laps the surface of the inner or outer bearing ring. This lapping process creates the sealing surface which keeps grease in and contaminants out of the bearing.

It is critically important this type of seal be installed absolutely flat. The seal must be burr-free on the front and back face at the outside diameter. Some of these may from time to time have a burr that will need to be removed for proper bearing alignment and shaft location.

This should be done with a "fine" Indian stone. Care must be taken to only remove just the burr or "positive" material so as to maintain flatness and material thickness. Once this is completed, the O.D. of the seal should be very lightly touched with the same stone as to ensure that another burr was not created along with a sharp edge. Should too much material be removed or the seal damaged during this operation it should be discarded. After completion and before use, ensure the seal is cleaned and no dust or metal deposits remain.