





Technical Bulletin

Neck-ring Mechanism with bearings



Advantages

-  Extended operating lifetime
-  Allows lubricant savings
-  More sustainable: better lubricant containment
-  Simplified maintenance

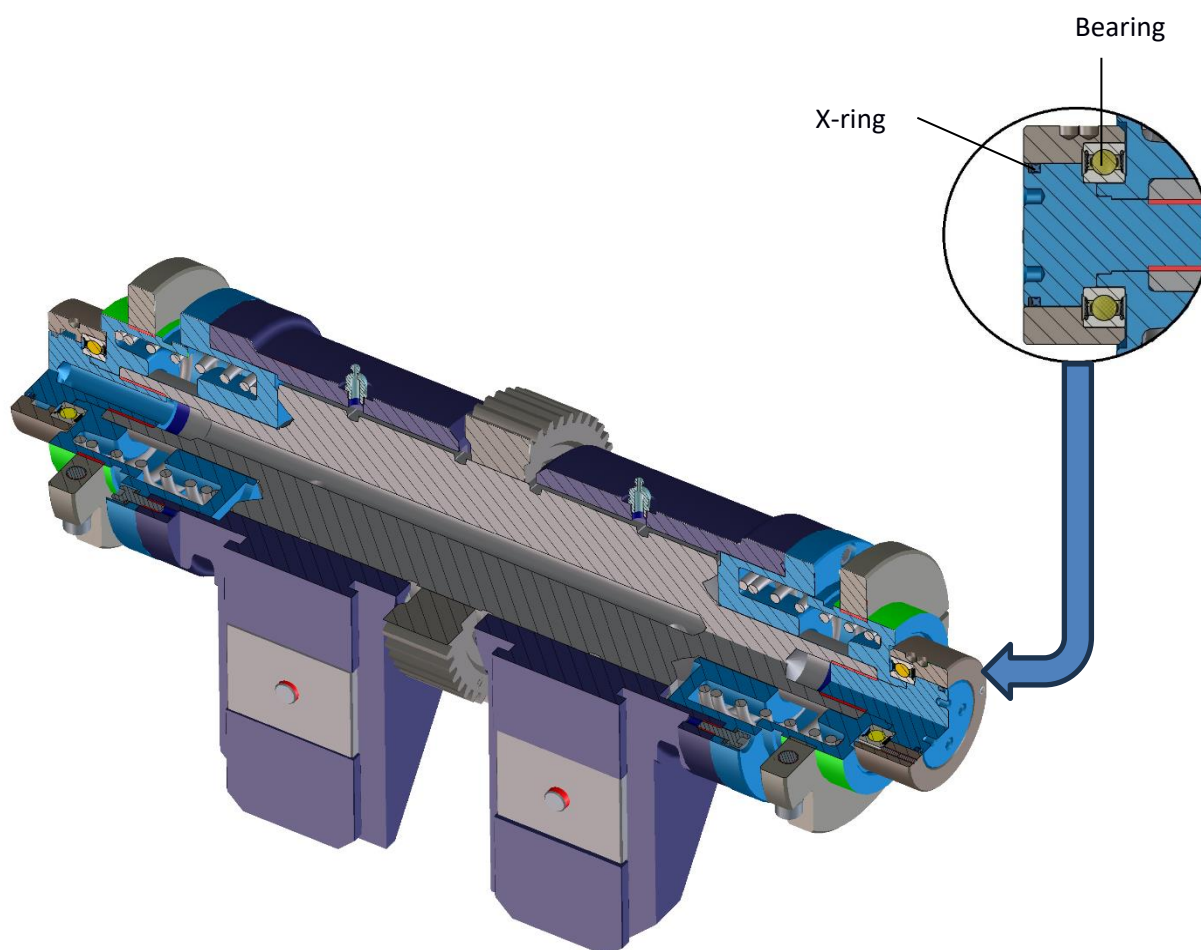
Introduction

The design of the new BDF neck-ring with bearings meets the requirements of greater ease of maintenance, reduced replacement times and improved flexibility in controlling the opening and closing of the arms during rotation, especially at high speeds and high rotation frequencies.

The new mechanism with bearings is designed to be interchangeable with the existing one with bushings and it's also an alternative for existing IS machines.

Description

The tight precision of the manufacturing tolerances and the rationalization of the construction methods of the BDF Neck-ring have increased the production quality of the whole device.



December 2024

The introduction of ball bearings instead of bushings has reduced friction values between static and moving parts, improving the fluidity of movement and the efficiency among all the range of speed.

As part of BDF's ongoing focus on sustainability, gaskets have been introduced on the new system, both inside the device and on the bearings, to reduce air and lubricant losses to the environment. Furthermore, by introducing a more rational use of lubricant, the required quantity has also been reduced.

The neck-ring is actuated by the opening and closing of a supply valve, ensuring maximum flexibility in controlling of the arms during rotation; the movement is not mechanically tied to the degrees of rotation, that could represent a critical limit in the definition of the working cycle.

Specifications

The total length of the new Neck-ring is 20.96" (532.5 mm).

The stroke can be adjusted within the range: 3/8" to 1"1/4 (9.5 mm to 31.75 mm).














The mechanism part number is P-B9191-5149-5M5A.

Installation

The BDF neck-ring with bearings is interchangeable with the bushing version on existing IS machines and must be installed on the finisher support by removing the respective bushings.

Features

Benefits

 Radial ball bearing with permanent lubrication	 Reduction of friction  Smoother movement at high speeds  Lubricant confined to sliding areas  Reduction of friction  Smoother movement at high speeds
 Use of gaskets	 Reduction of air losses  Reduction of lubricant losses
 Rationalization of lubricant use	 Reduced quantity of lubricant used
 Independent air opening and closing control	 Control flexibility even at high speeds