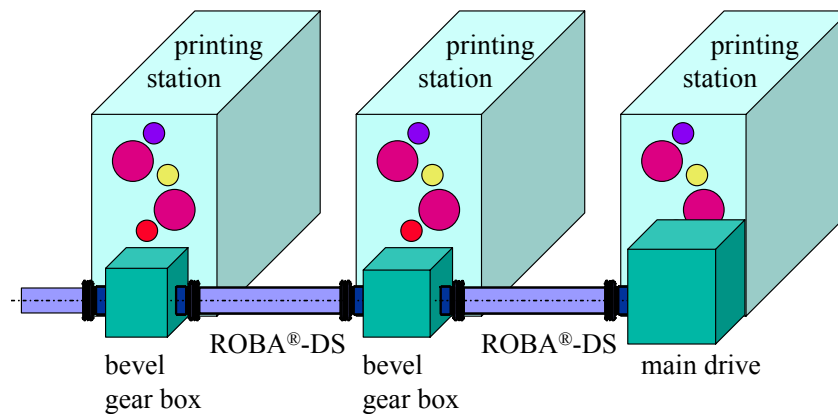
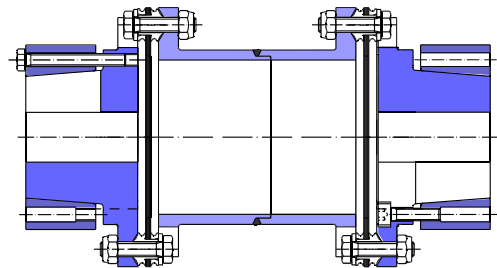


ROBA[®]-DS coupling in Printing Presses

Problem: The main drive of the printing station of the various colors is located at the input of the paper. From this motor the torque has to be transmitted over wide distances to bevel gear boxes and the different printing units. In order to keep a good accuracy of the print torsional rigid and backlash free couplings have to be used. The torsional rigidity is a special concern of all the printing press manufacturers. Axial thermal extensions and shaft misalignments have to be accepted by the coupling even though the shafts alignment is done pretty accurate.



Solution: The **mayr[®]** ROBA[®]-DS coupling type 951.233 has been used. This coupling provides extremely high torsional rigidity, but low restoring radial and axial forces caused by the shaft displacements. The optimized disk packs together with the shrink disk hubs provide an absolutely backlash free torque transmission. The sleeve with its big diameter but thin wall thickness provides low inertia, but high rigidity and therefore best running quality even at high speeds. They have been adapted to the necessary length required to connect the several printing station.



Benefit: Because of the excellent properties of the ROBA[®]-DS coupling the drive has become a high rigid, backlash free unit which performs accurate prints even at high speeds. Misprints have been reduced and therefore the throughput increased. Premature bearing failures caused by high restoring forces are prevented. Therefore expensive maintenance and repair time have been limited. The estimated cost of repair and production loss when exchanging only one bearing are above € 10,000.-, where the price for a ROBA[®]-DS to transmit 200 Nm over 2000 mm distance is below € 1,000.-

- Summary:**
- ✓ The **mayr[®]** ROBA[®]-DS saves costs
 - ✓ The **mayr[®]** ROBA[®]-DS increases productivity