



Compressed Air Systems



How to replace bearings

Encapsulated Airends

073 252 6224 / 020 524 0656

Replacement of the bearing system

(for compact units and airends, example NK 100)

ALWAYS MAKE SURE POWER IS OFF TO COMPRESSOR AND CONTACT FACTORY
AUTHORIZED SERVICE CENTER OR FACTORY FOR ADVICE



Remove the feather key, unscrew and remove the front cover



Unscrew and remove the front cover





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Drain the oil, remove oil filter and separator cartridge



Detach the pilot air tube and the oil return tube





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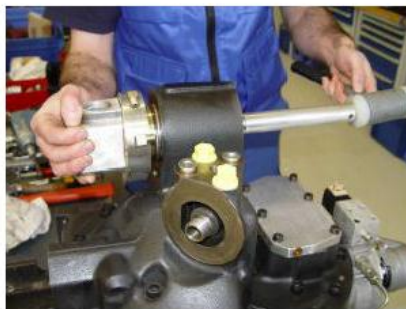
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➤ Unscrew and remove the separator head



➤ Unscrew the bearing cover and main cover





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Lift the main cover with the rotors carefully out of the housing with a crane



Open the nut locks and unscrew the nuts of the rotors. Retain the rotors with the pictured device





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Press out first the male rotor, then the female rotor. Take care not to damage the rotors. Protect it with cloth.



Draw out the shells of the taper roller bearings with an extractor. Coat Loctite 648 on the new shells and press it in the bearing seats to the bedstop.





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Draw out the smaller roller bearing of the housing, knock out the roller bearing of the male rotor with a bolt in the shown directions.



Coat Loctite 648 on the bearings. Knock in the roller bearing of the female rotor to the bedstop





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Press in the bearing of the male rotor by using the front cover.



Insert the rotors carefully in the housing.





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Put on the cover



Sledge the taper roller bearings on the shafts





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Pull out the cover with the rotors. Put Loctite 648 on the thread of the nuts.



Shove 2 thickness gauges with $t=0,05\text{mm}$ between the rotors and the cover. Each gauge must be covered by 2 rotor shoulders. Start with the male rotor.



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We must achieve a play of exactly 0,05mm for the NK100. Tighten the nuts until the gauges can be moved with almost no force. Joggle the rotors in order to get out the play between bearings and shells. You can also knock the rotors downwards with a plastic hammer.



Before locking the nuts measure again the 0,05 mm play. It is imperative to get the gauges easily between rotors and cover in order to avoid a locking up of the rotors.





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Gap measures:

NK 30	0,04-0,05
NK 40	0,04-0,05
B 40	0,04-0,05
NK60	0,04-0,05
B 60	0,04-0,05
NK100	0,04-0,05
B 101	0,04-0,05
NK 160	0,04-0,06
B 160	0,04-0,06
B 170	0,04-0,06
NK 200	0,08-0,10
B 201	0,08-0,10
B 260	0,08-0,10