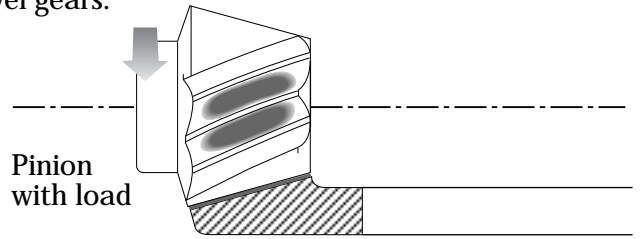
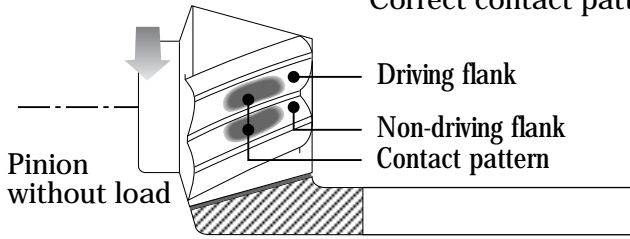


Mounting instructions for ATA spiral bevel gears

Correct contact pattern for bevel gears:



Figures A and B show an incorrect contact pattern on the left. The arrows in the centre indicate the direction of movement needed to the pinion and wheel to achieve a correct contact pattern, shown on the right.

Note! A pair of gears with no load applied should have a contact pattern length of at least 30-50% of the whole length of tooth, when the contact pattern is in the correct position.

Guidelines for backlash relative to normal module

Module mn backlash	0,3 - 1,0 0,03 - 0,06	1,0 0,06 - 0,08	2,0 0,08 - 0,11	3,0 0,10 - 0,13	4,0 0,12 - 0,14
Module mn backlash	5 0,14 - 0,17	6 0,15 - 0,18	7 0,16 - 0,19	8 0,18 - 0,20	8 - 10 0,20 - 0,25
Module mn backlash	10 - 12 0,25 - 0,30	12 - 14 0,30 - 0,35	14 - 16 0,35 - 0,40	16 - 18 0,40 - 0,45	18 - 21 0,45 - 0,50
Module mn backlash	21 - 24 0,5 - 0,6	24 - 27 0,6 - 0,7	27 - 30 0,7 - 0,8	30 - 33 0,8 - 0,9	33 - 35 0,9 - 1,0

It is advised to use 30-50% larger backlash for gears fully submerged into oil.

