APPENDIX 8

CONTACT STRESS PLOTS

A8.1 STRESS CONTOUR FOR DIFFERENT RADIAL CLEARANCES

Figure A8.1 Contact stress contour in the contact region for the zero radial clearance

Figure A8.2 Contact stress contour in the contact region for the radial clearance of -0.02 mm
Figure A8.3 Contact stress contour in the contact region for the radial clearance of -0.03 mm

Figure A8.4 Contact stress contour in the contact region for the radial clearance of -0.05 mm
Figure A8.5 Contact stress contour in the contact region for the radial clearance of 0.01 mm

Figure A8.6 Contact stress contour in the contact region for the radial clearance of 0.03 mm
Figure A8.7 Contact stress contour in the contact region for the radial clearance of 0.05 mm

A8.2 MESH INDEPENDENCE STUDY - CONTACT STRESS CONTOUR

Figure A8.8 Contact stress contour –Iteration 1 (331153 nodes)
Figure A8.9 Contact stress contour – Iteration 2 (549088 nodes)

Figure A8.10 Contact stress contour – Iteration 3 (763870 nodes)