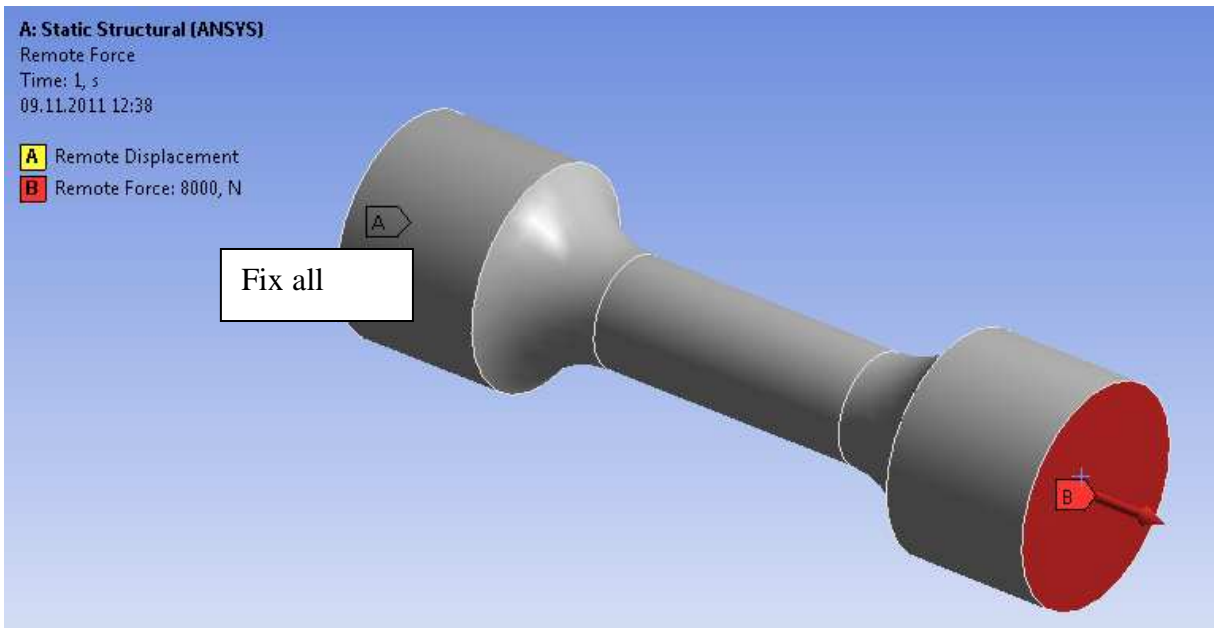
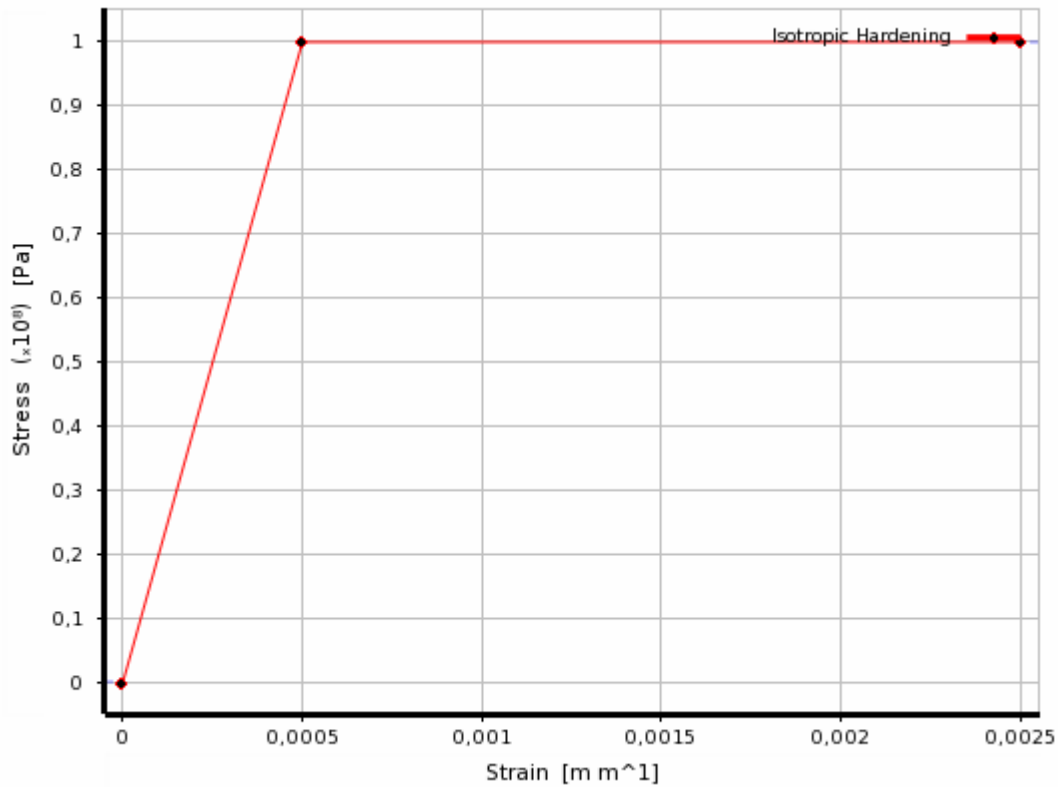


FEM-Modell; 8211 Knoten; 1782 Elemente; Solid 186 (20 Node Hexa)



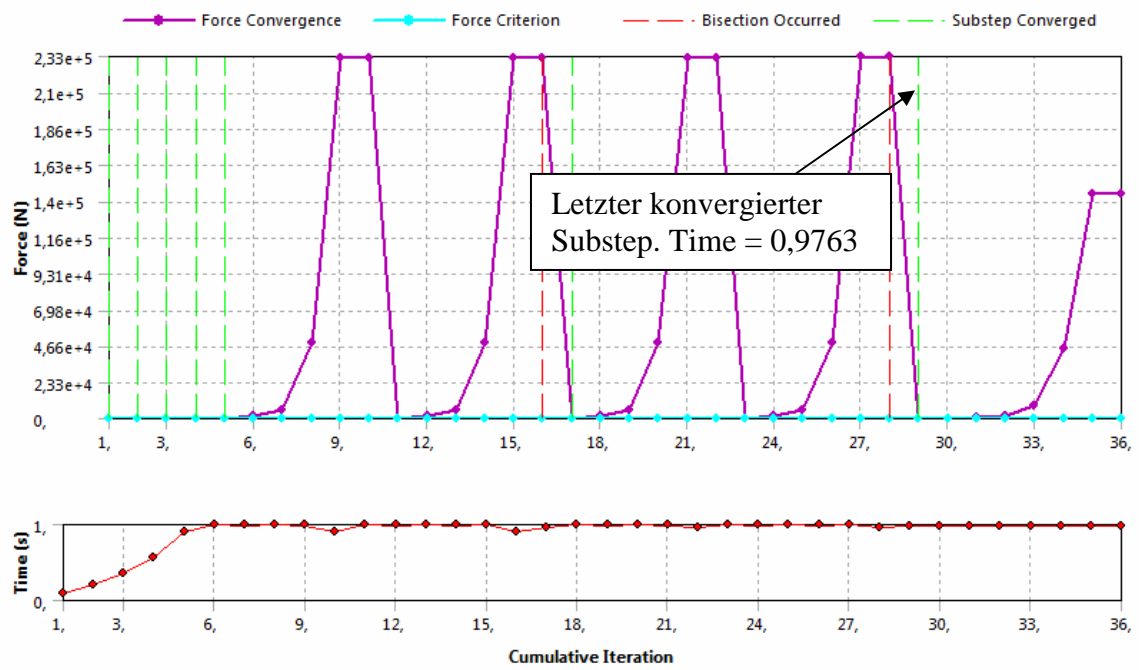
Randbedingungen: A= Einspannung; B= Axialkraft  $F_{max} = 8000\text{N}$



Materialgesetz; Linear elastisch, ideal Plastisch;  $R_p = 100\text{N/mm}^2$ ; Isotrope Verfestigung

[-] <b>Step Controls</b>	
Number Of Steps	1,
Current Step Number	1,
Step End Time	1, s
Auto Time Stepping	On
Define By	Substeps
Initial Substeps	10,
Minimum Substeps	1,
Maximum Substeps	50,
[-] <b>Solver Controls</b>	
Solver Type	Direct
Weak Springs	Off
Large Deflection	Off
Inertia Relief	Off
[+] <b>Nonlinear Controls</b>	
[+] <b>Output Controls</b>	
[+] <b>Analysis Data Management</b>	
[+] <b>Visibility</b>	

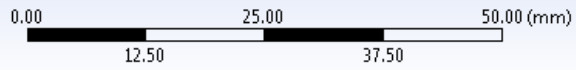
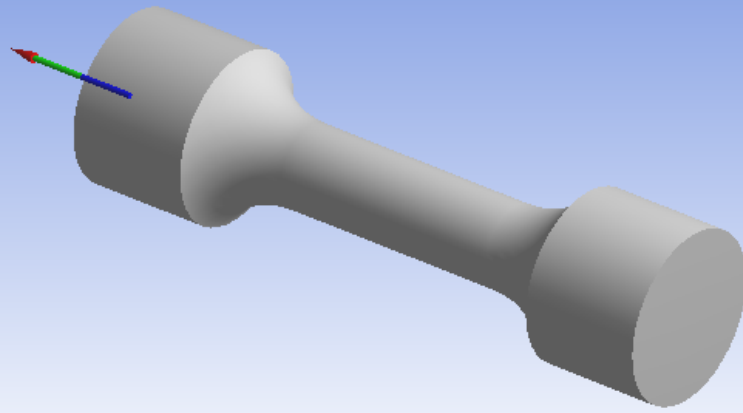
Solver Einstellungen



Konvergenzverlauf

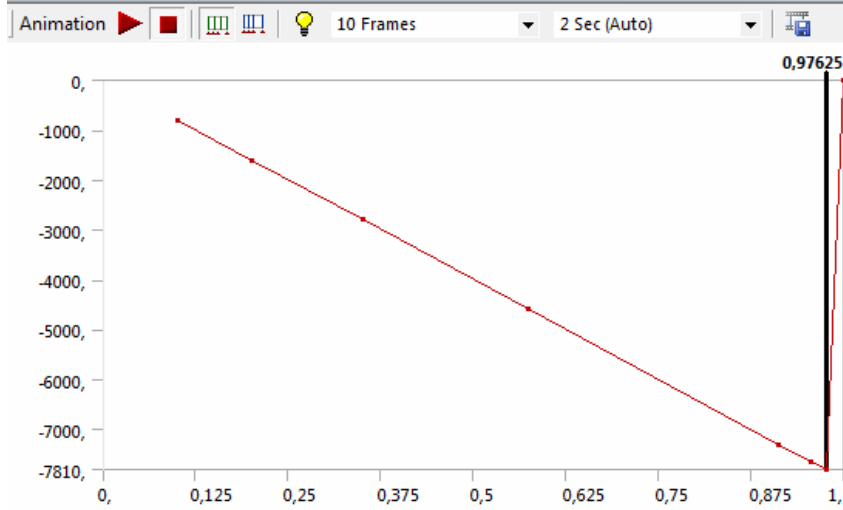
**A: Static Structural (ANSYS)**

Force Reaction  
09.11.2011 13:06



Geometry Worksheet Print Preview Report Preview

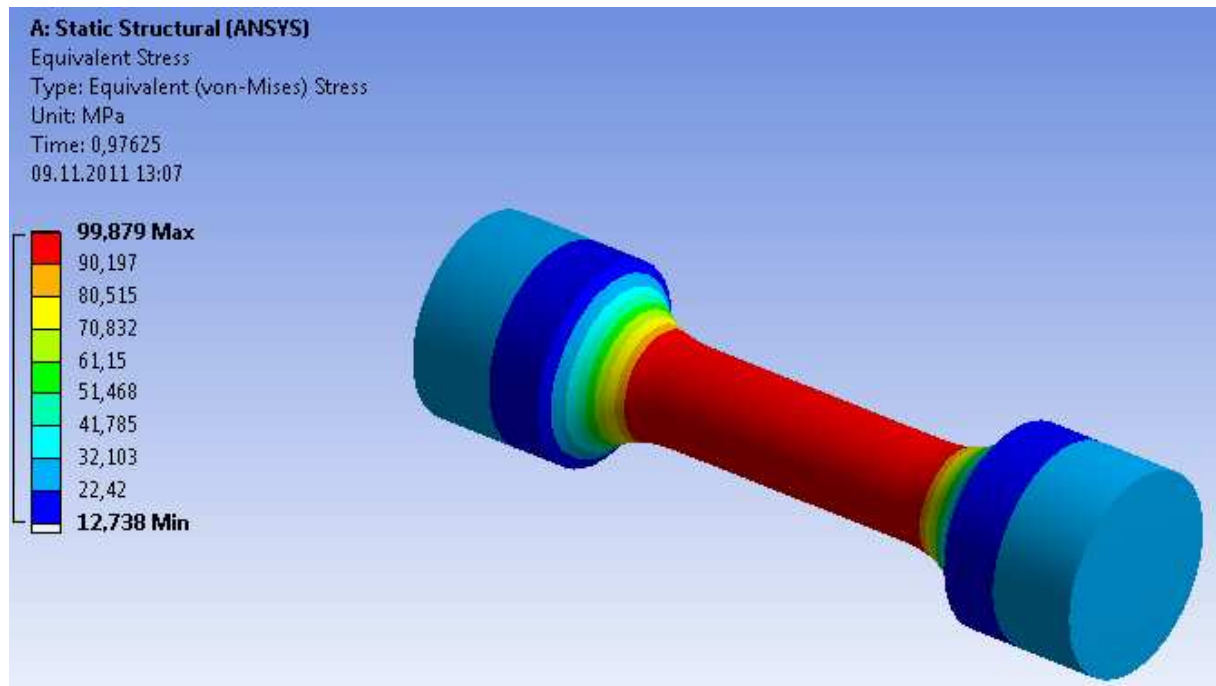
Graph



Tabular Data

Time [s]	Force Reaction (X) [N]
1	0,1 -800,
2	0,2 -1600,
3	0,35 -2800,
4	0,575 -4600,
5	0,9125 -7300,
6	0,95625 -7650,
7	0,97625 -7810,
8	1, 0,

Reaktionskraft



Mises-Vergleichsspannung;  $Seqv,max = 99,9N/mm^2 \approx 100N/mm^2$