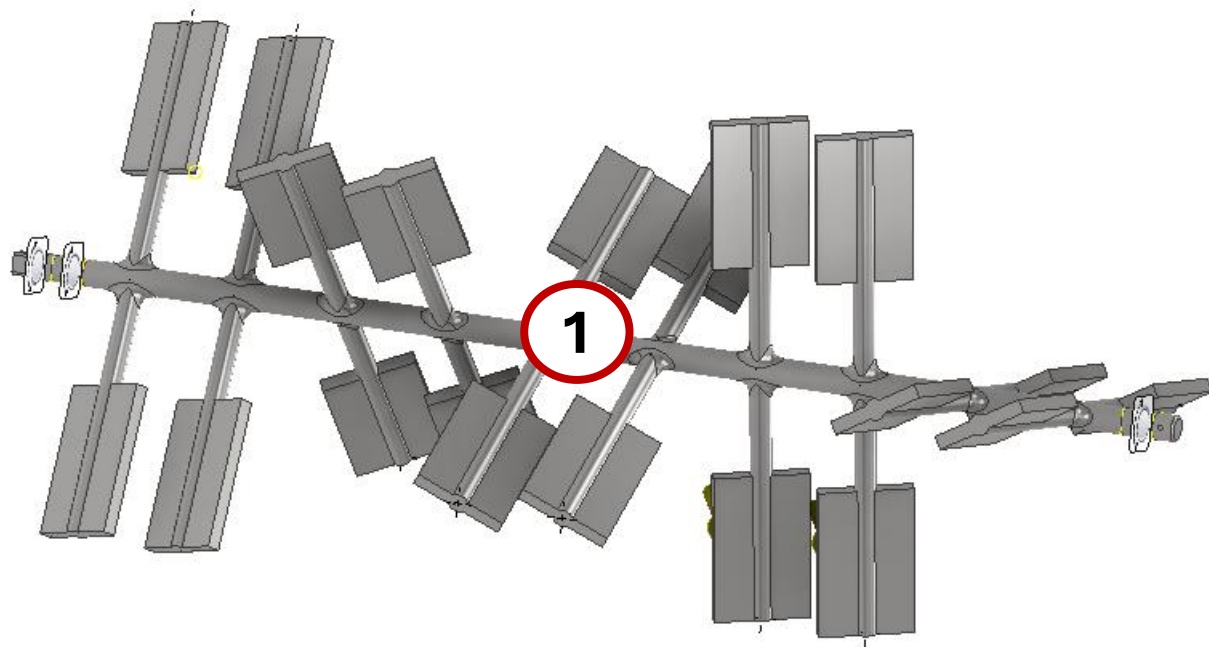
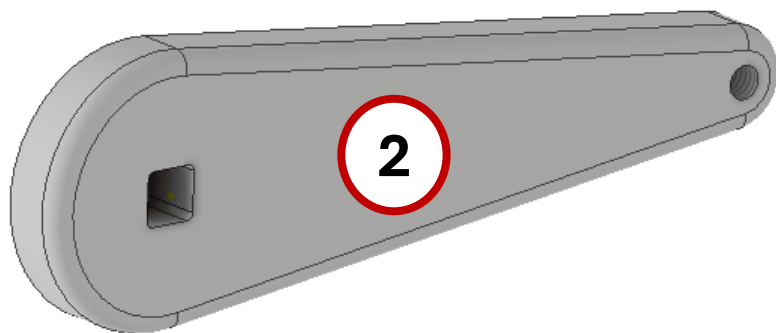


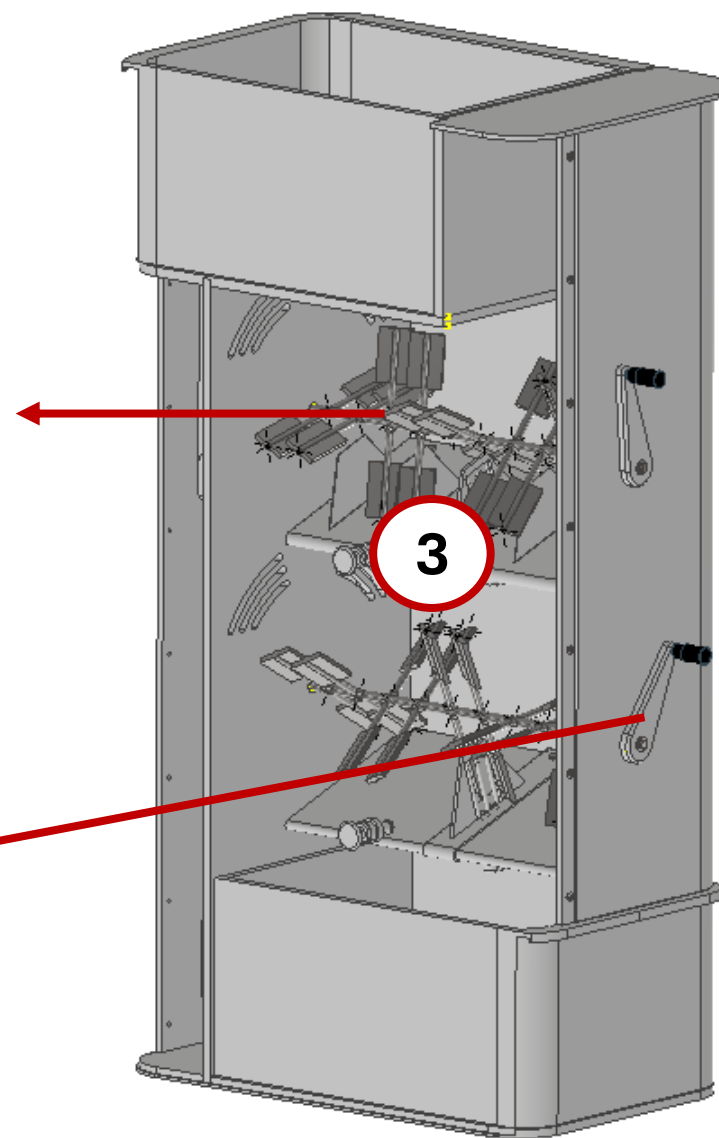
Mixer/ Shredder



Handle



Bin



Mixer / Shredder

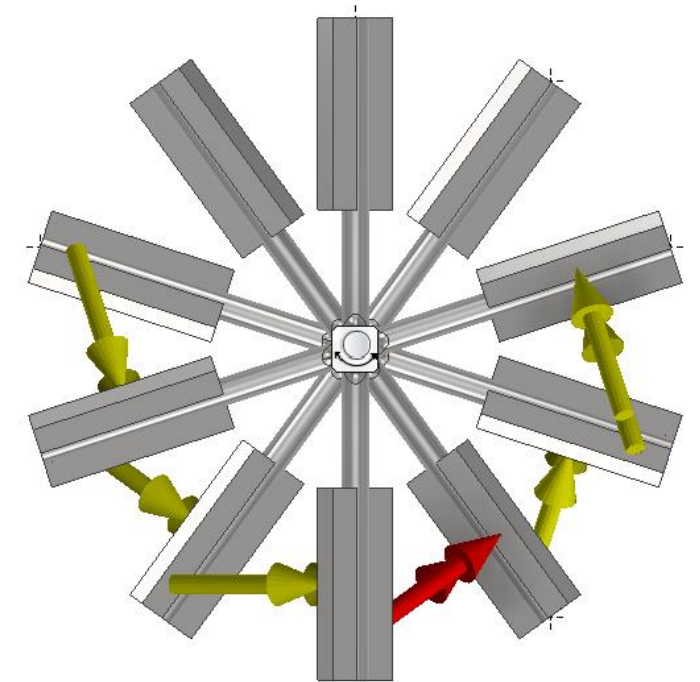
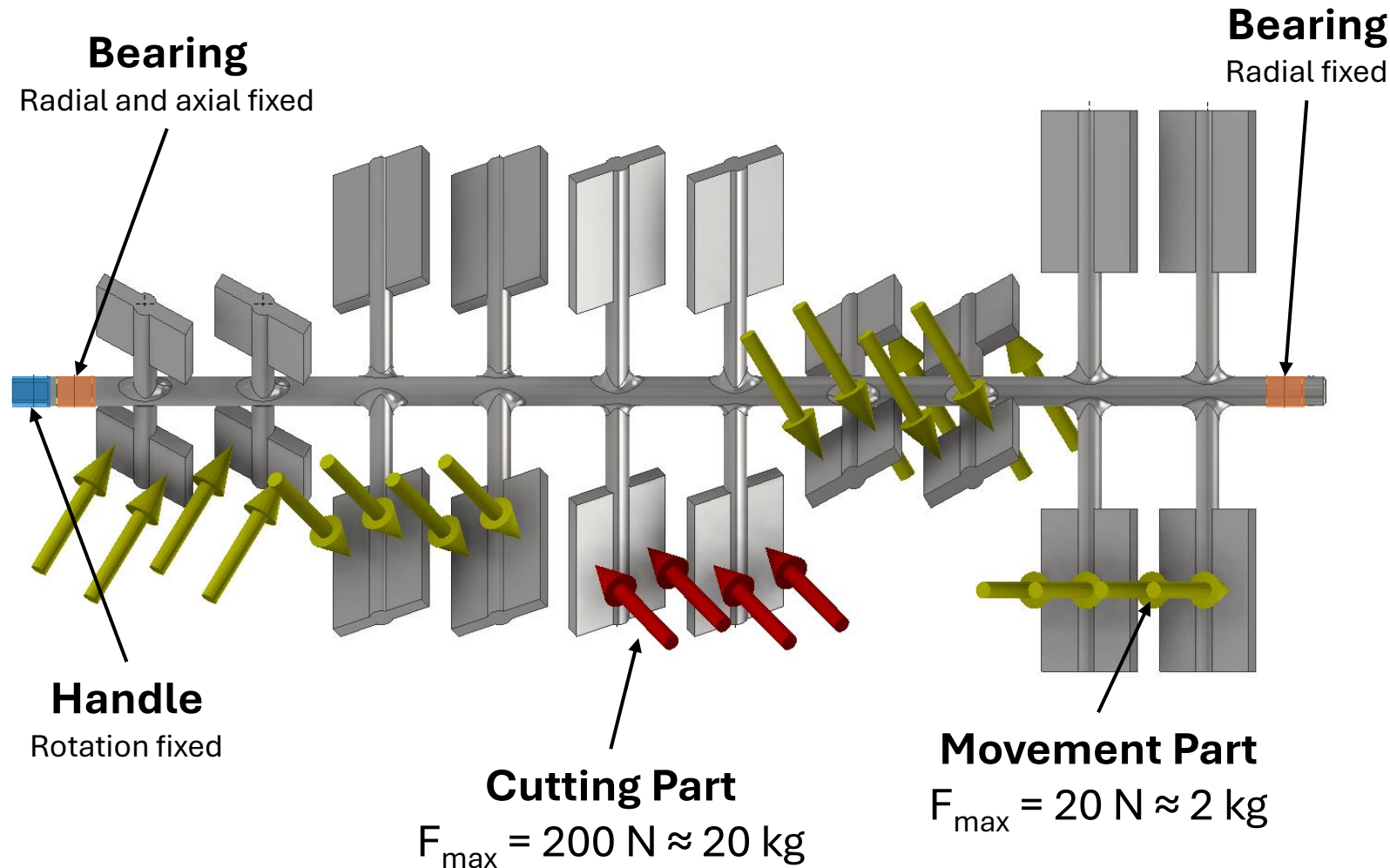
Definition of the boundary conditions

Material: X5CrNi18-10 (1.4301)

Module of elasticity: 193 MPa

Yield Strength: 225 MPa

(Source: Inventor)



Mixer / Shredder

Calculation

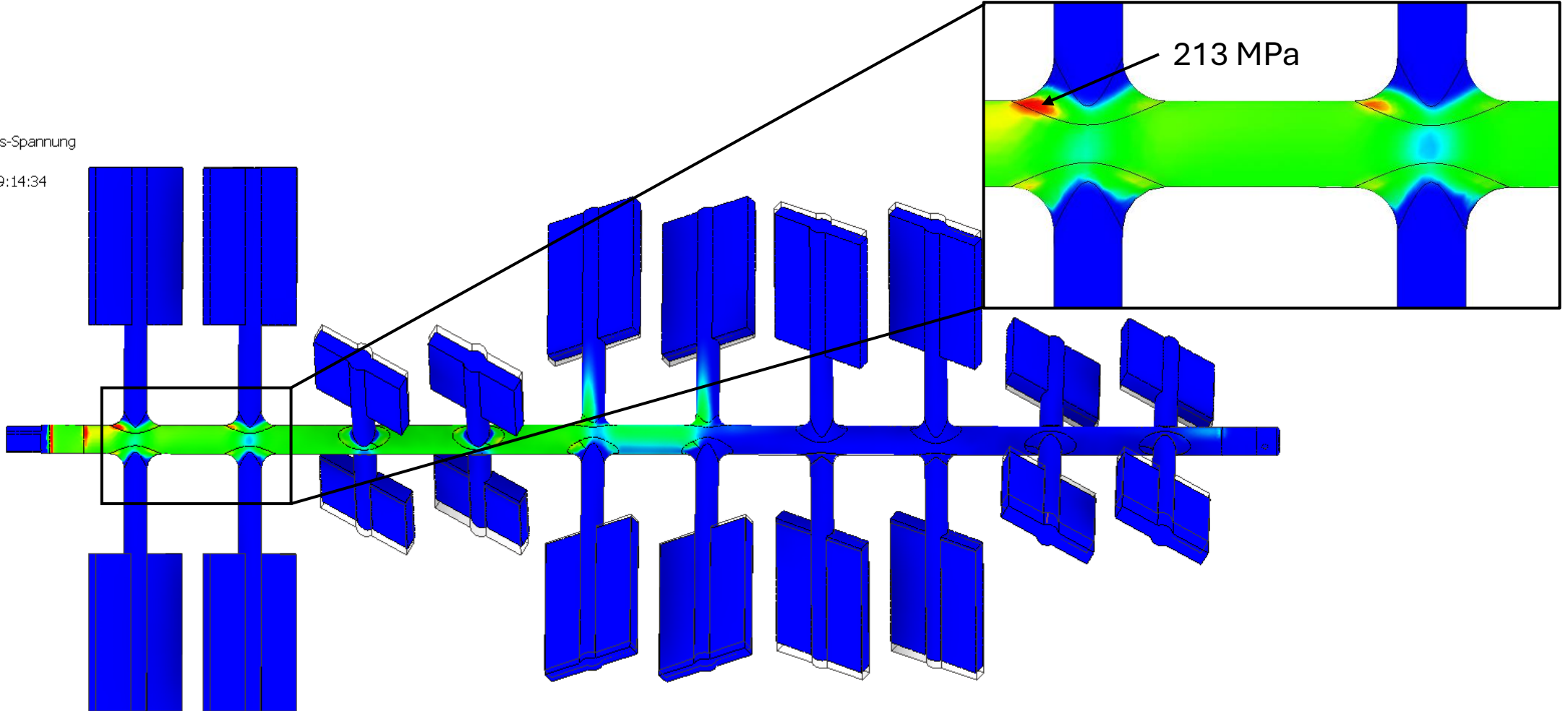
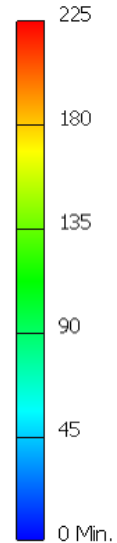
Material: X5CrNi18-10 (1.4301)

Module of elasticity: 193 MPa

Yield Strength: 225 MPa

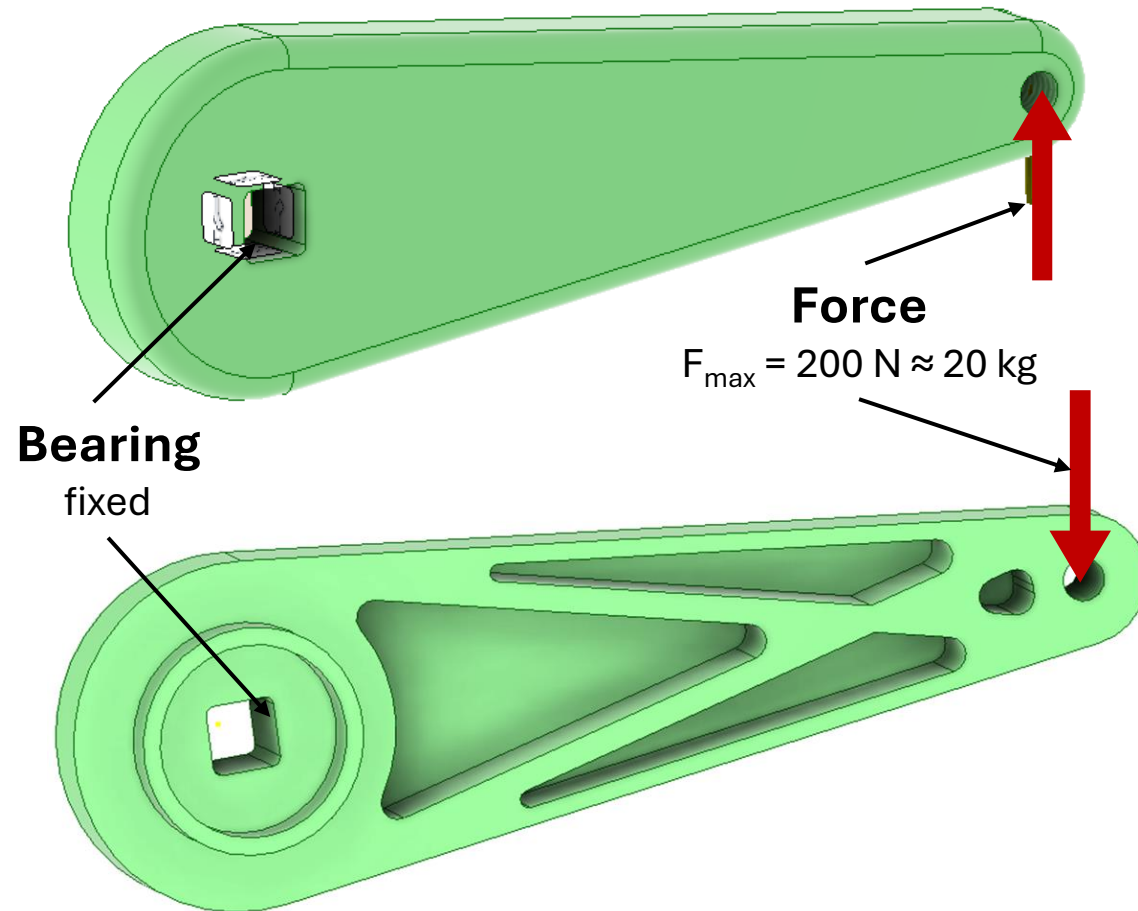
(Source: Inventor)

Typ: Von Mises-Spannung
Einheit: MPa
15.04.2025, 19:14:34



Handle

Boundary conditions & Calculation



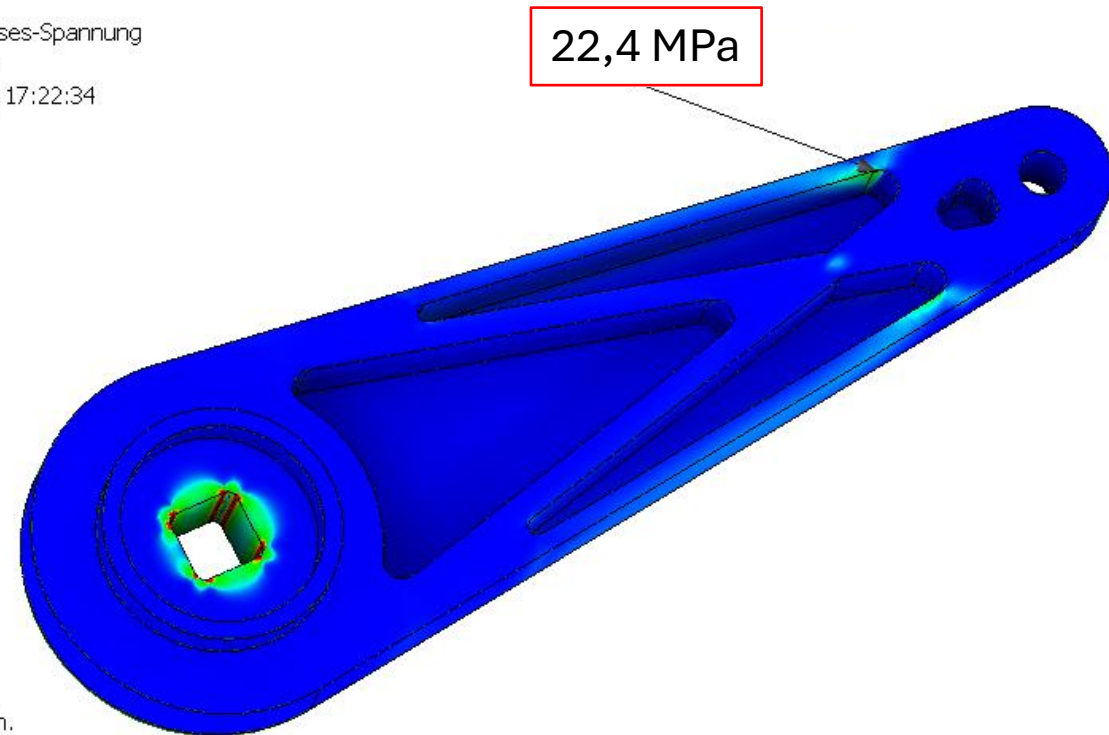
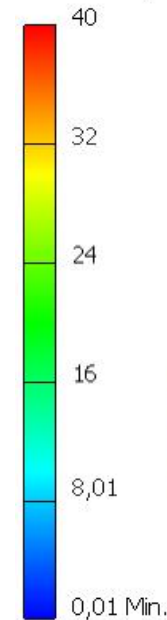
Material: PVC

Module of elasticity: 709 MPa

Yield Strength: 40 MPa

(Source: Inventor)

Typ: Von Mises-Spannung
Einheit: MPa
12.05.2025, 17:22:34



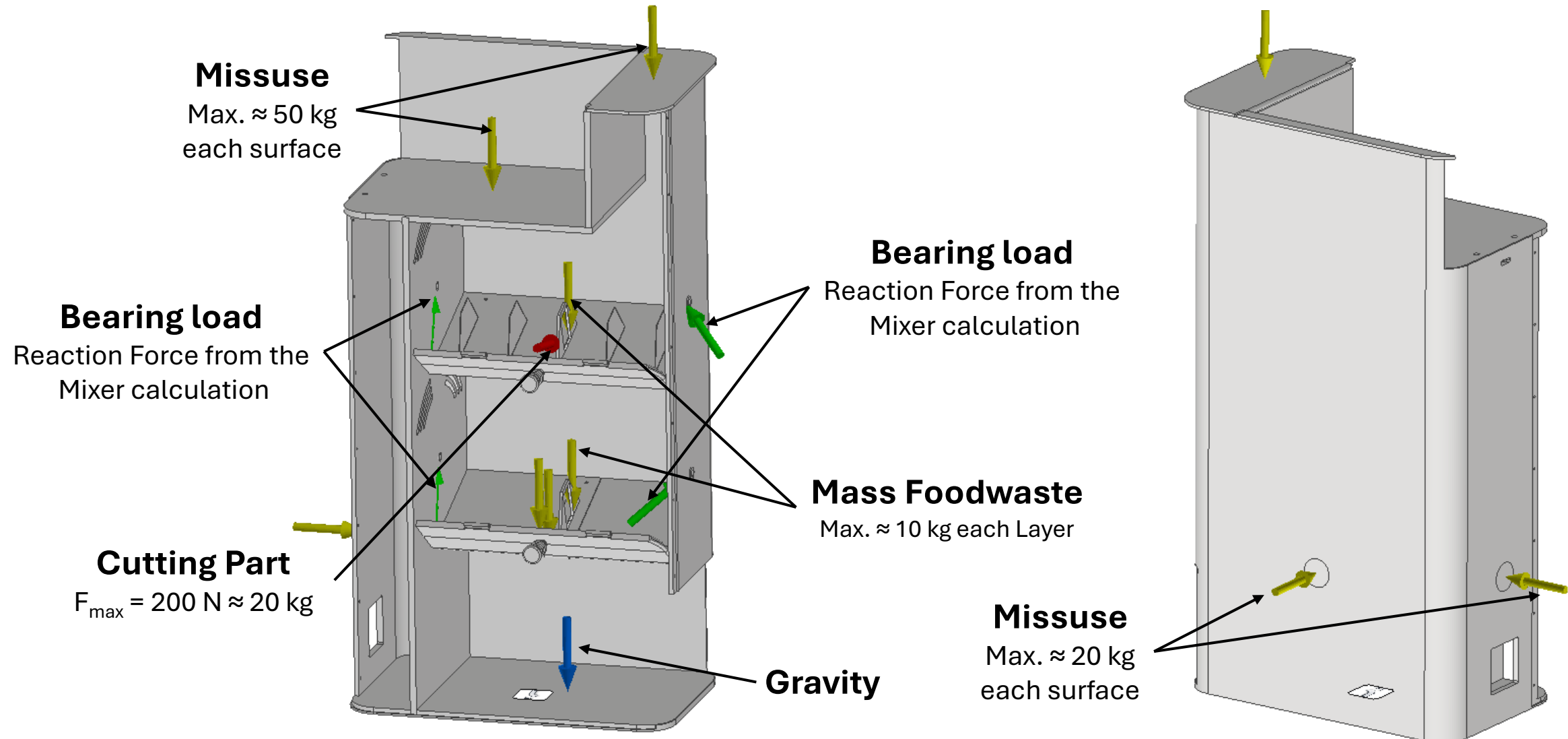
Bin

Definition of the boundary conditions

Materials

Blades: X5CrNi18-10 (1.4301)

Housing & Opener: PVC



Bin

Calculation Housing

Material: PVC

Module of elasticity: 709 MPa

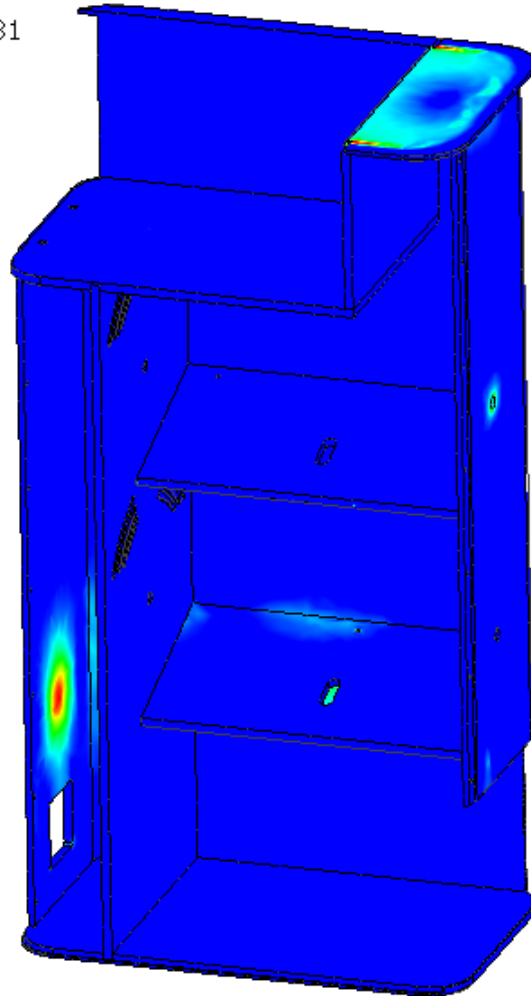
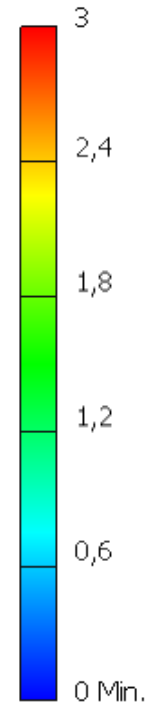
Yield Strength: 40 MPa

(Source: Inventor)

Typ: Von Mises-Spannung

Einheit: MPa

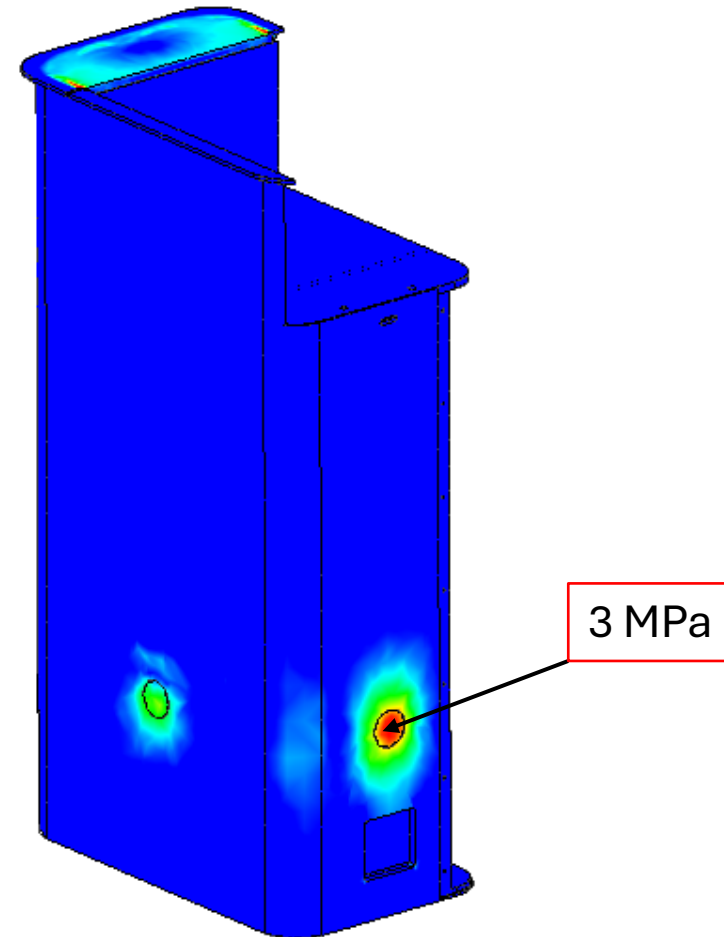
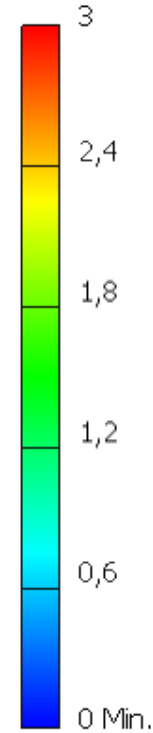
13.05.2025, 13:25:31



Typ: Von Mises-Spannung

Einheit: MPa

13.05.2025, 13:25:31

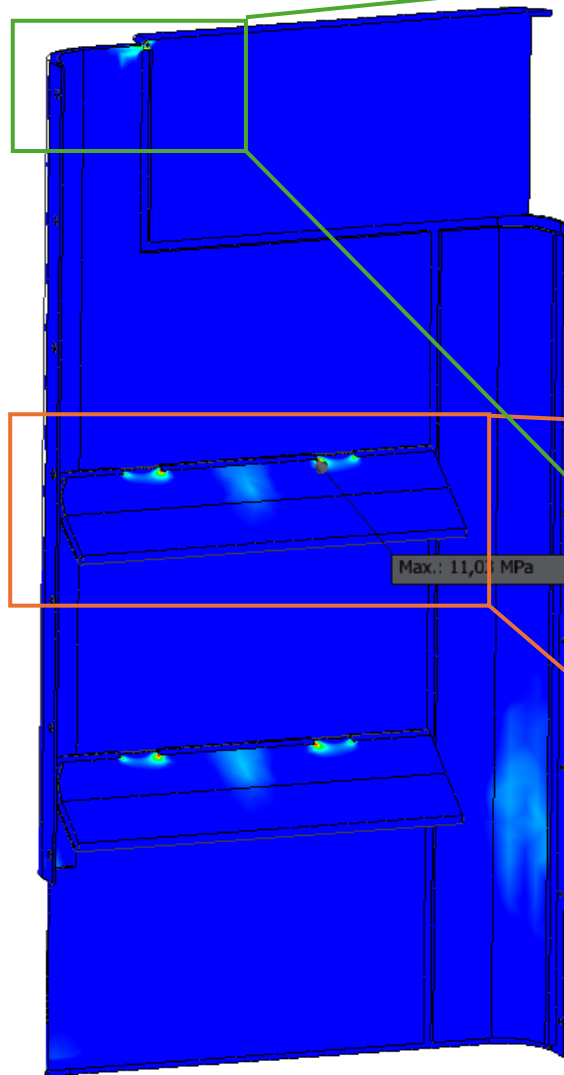
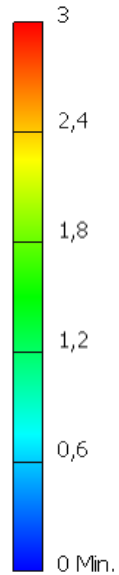


Bin

Calculation Housing

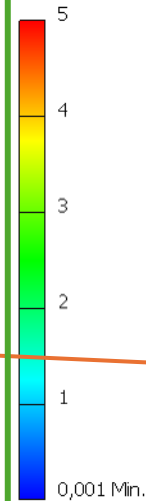
Material: PVC
Module of elasticity: 709 MPa
Yield Strength: 40 MPa
(Source: Inventor)

Typ: Von Mises-Spannung
Einheit: MPa
13.05.2025, 13:14:31

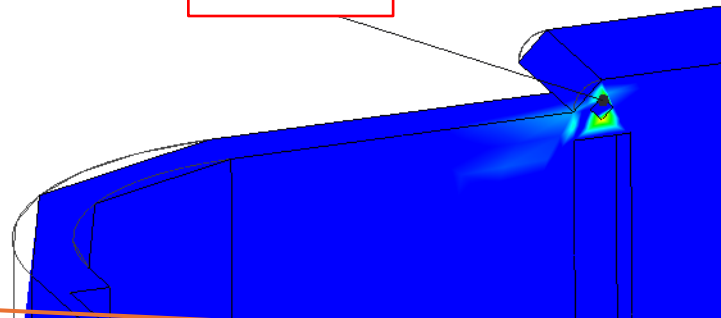


Max.: 11,0 MPa

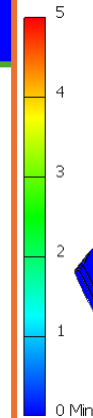
Typ: Von Mises-Spannung
Einheit: MPa
13.05.2025, 13:16:33



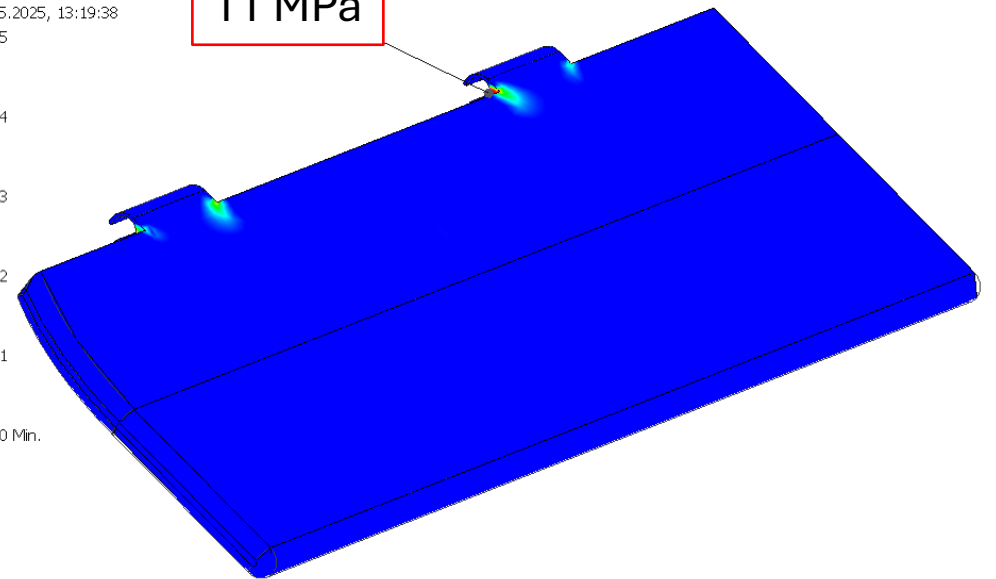
5,1 MPa



Typ: Von Mises-Spannung
Einheit: MPa
13.05.2025, 13:19:38



11 MPa



Bin

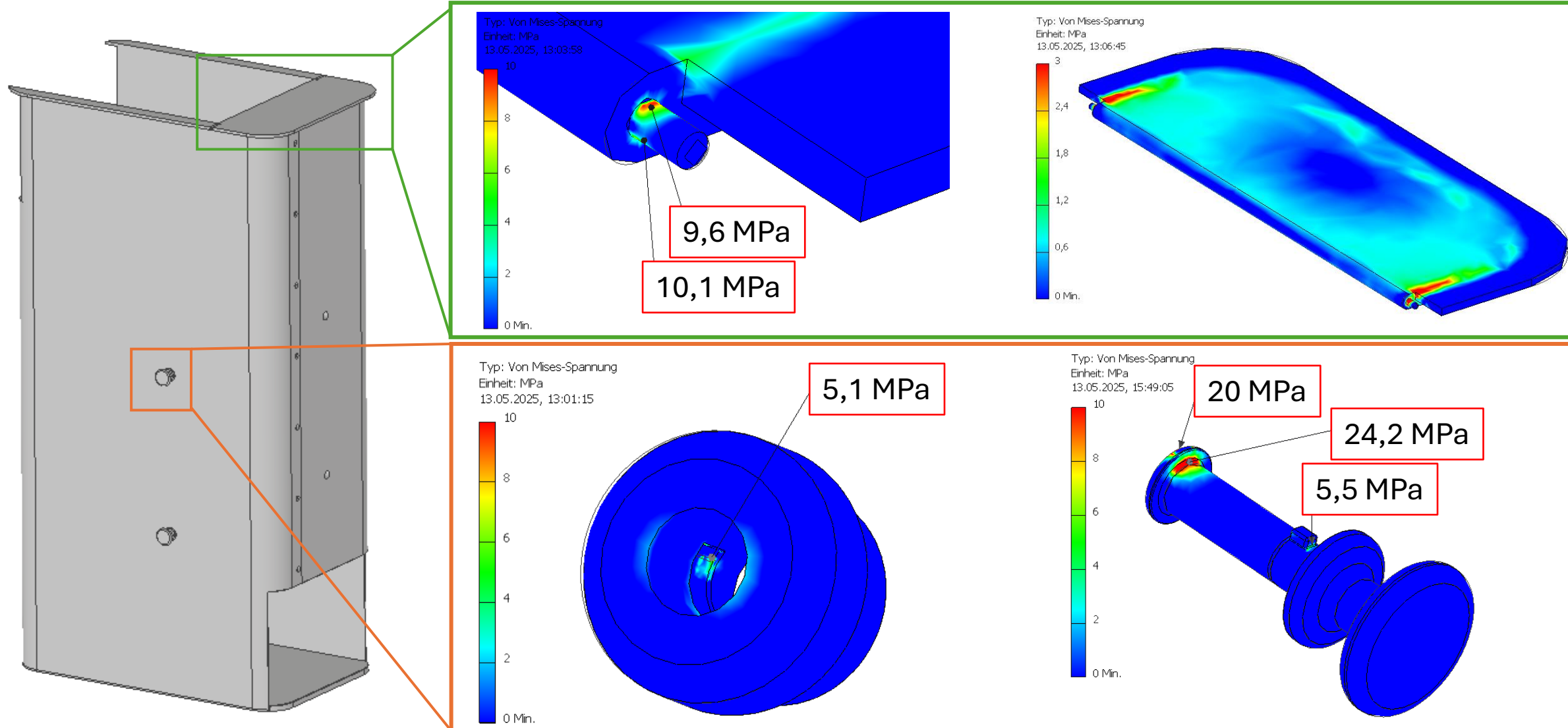
Calculation Lid & Opener

Material: PVC

Module of elasticity: 709 MPa

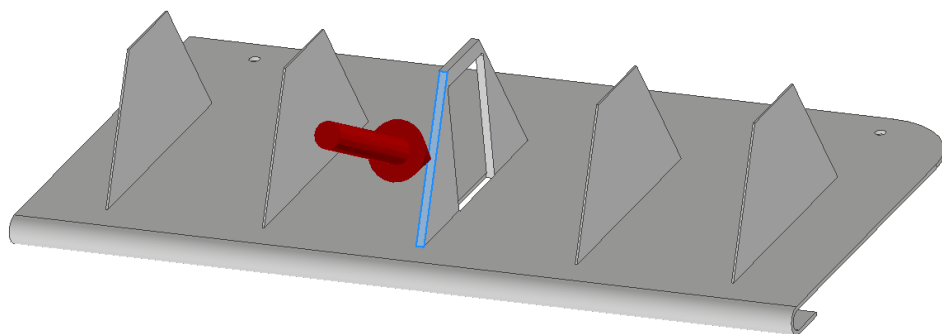
Yield Strength: 40 MPa

(Source: Inventor)

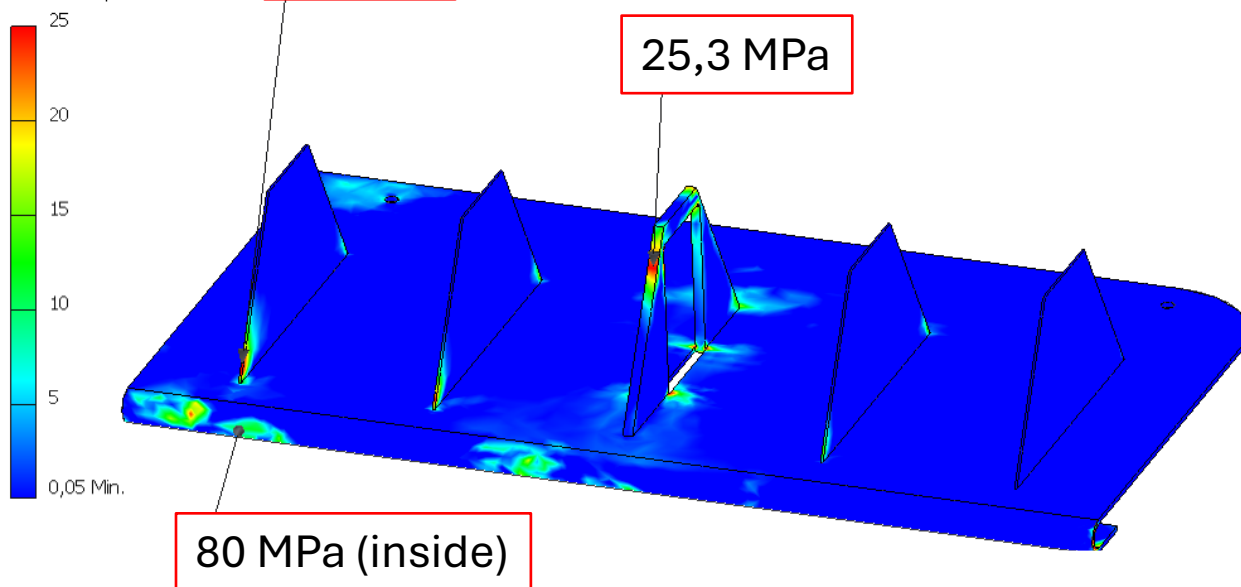


Bin

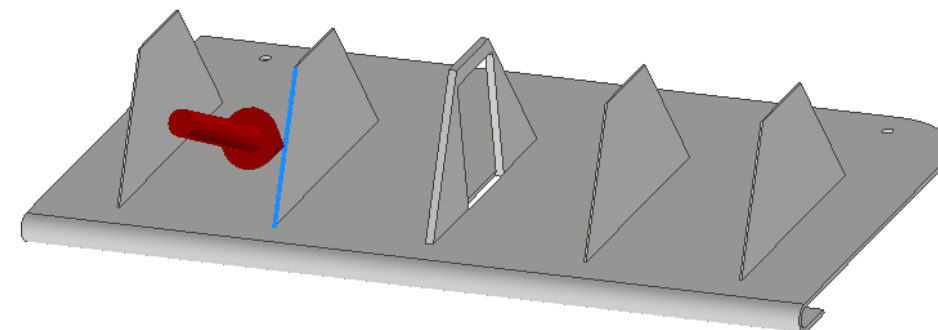
Calculation Knife



Typ: Von Mises-Spannung
Einheit: MPa
13.05.2025, 13:32:34



Material: X5CrNi18-10 (1.4301)
Module of elasticity: 193 MPa
Yield Strength: 225 MPa
(Source: Inventor)



Typ: Von Mises-Spannung
Einheit: MPa
13.05.2025, 16:24:46

