ESCOLA POLITÉCNICA DA UNIVERSIDADE DE SÃO PAULO

PMR 3203

Laboratório 3

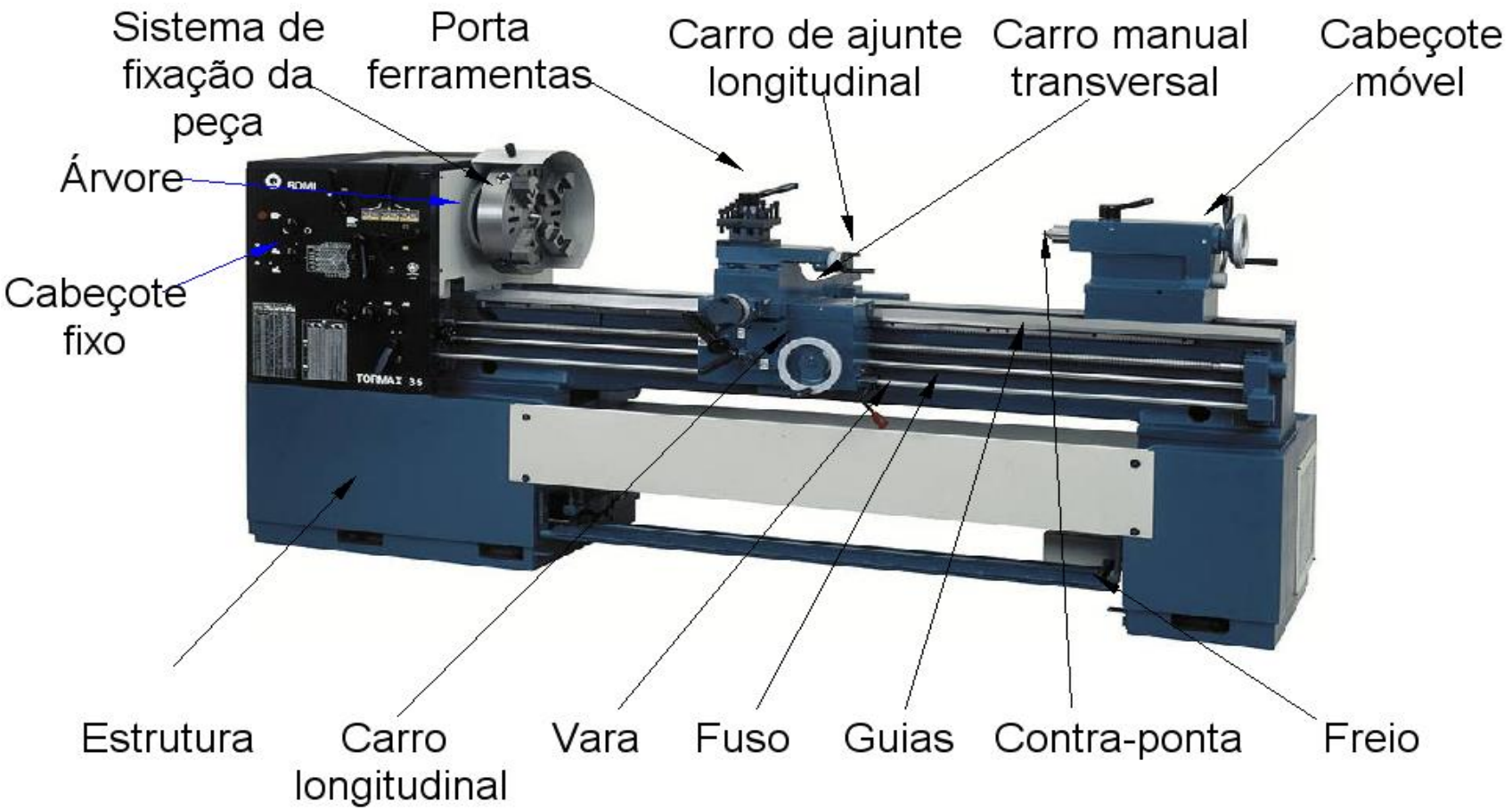
Ensaio de torneamento

Nome:

NUSP:

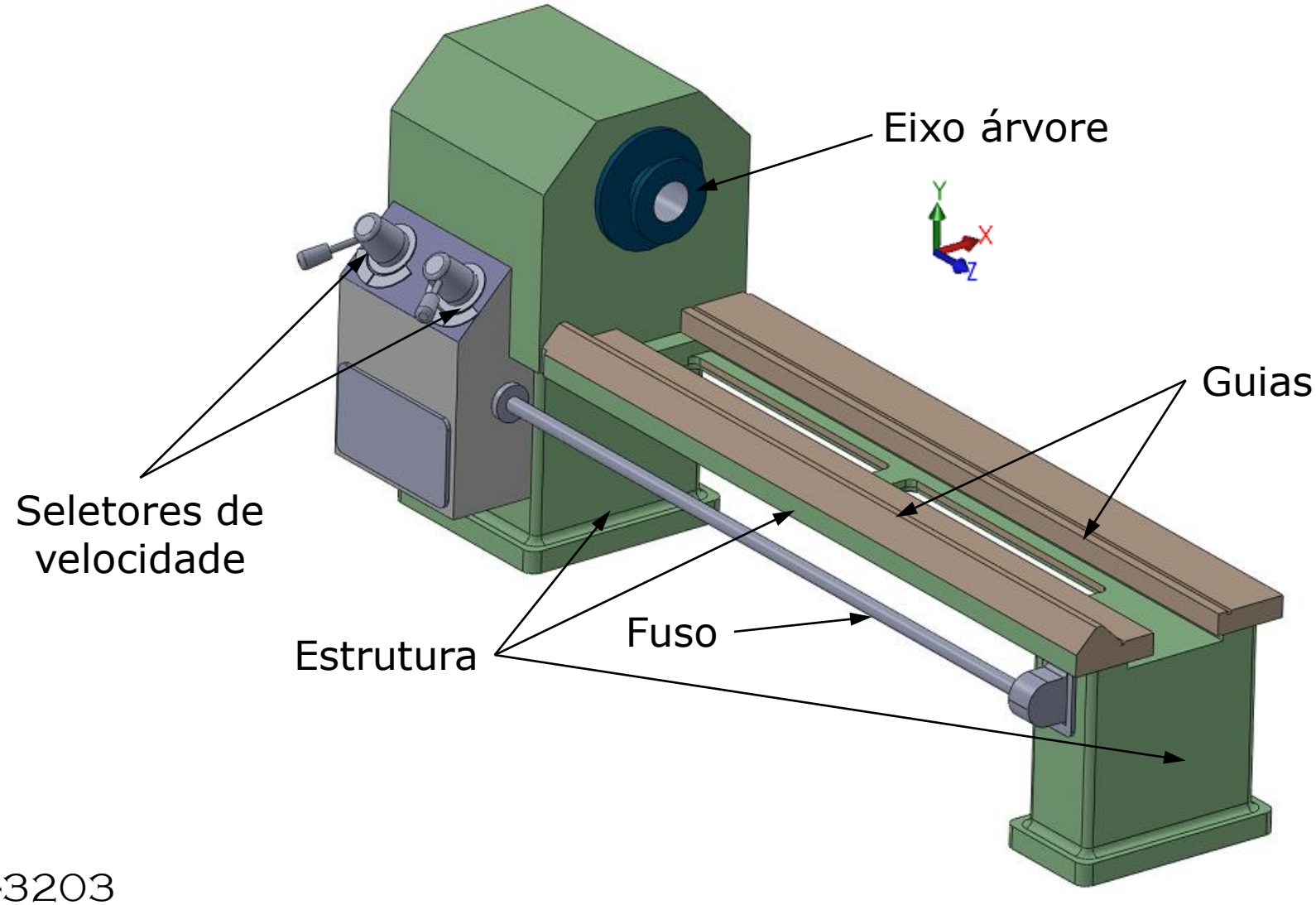
2020.1

Torno convencional



Torno de bancada

Constituintes



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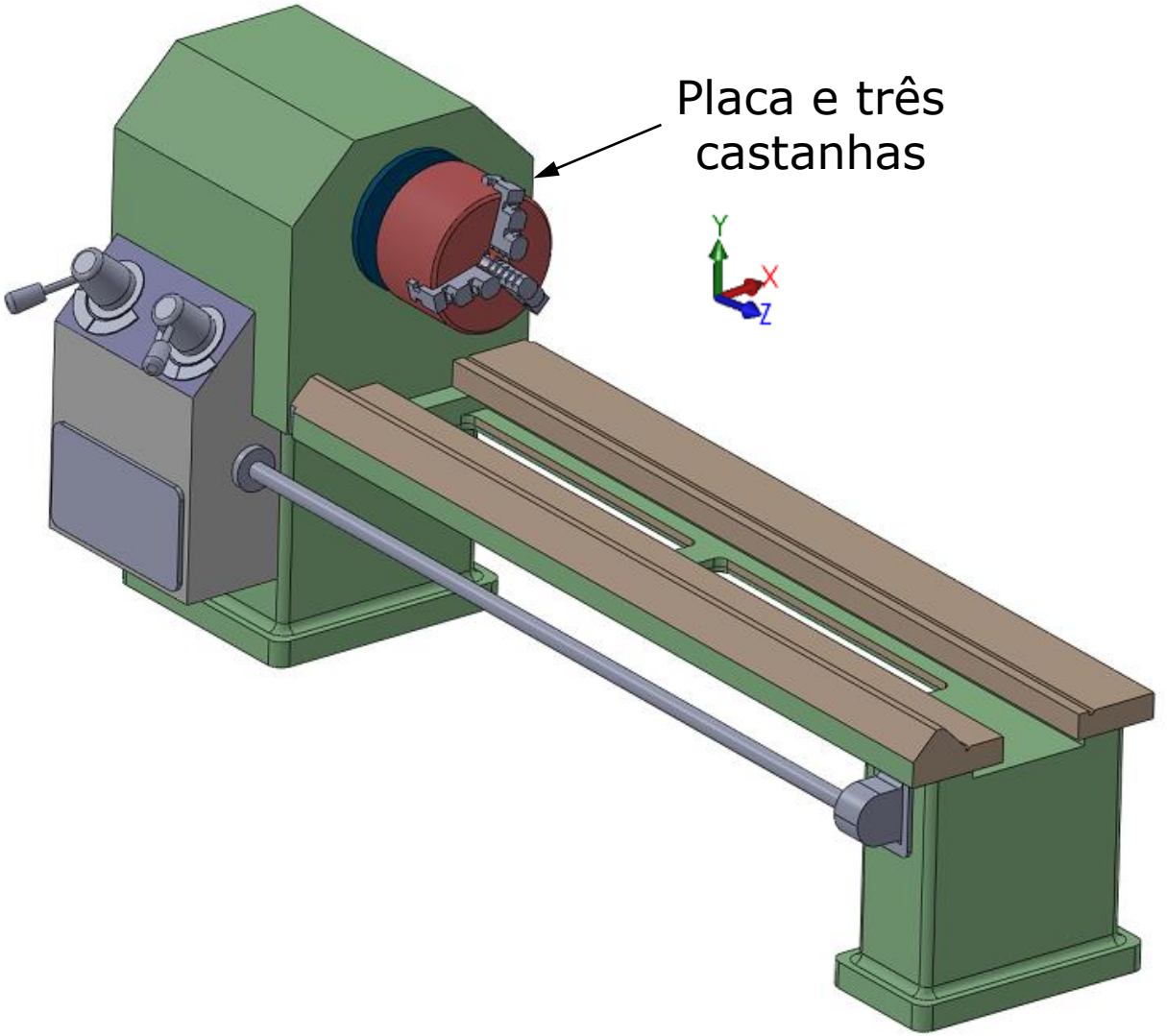

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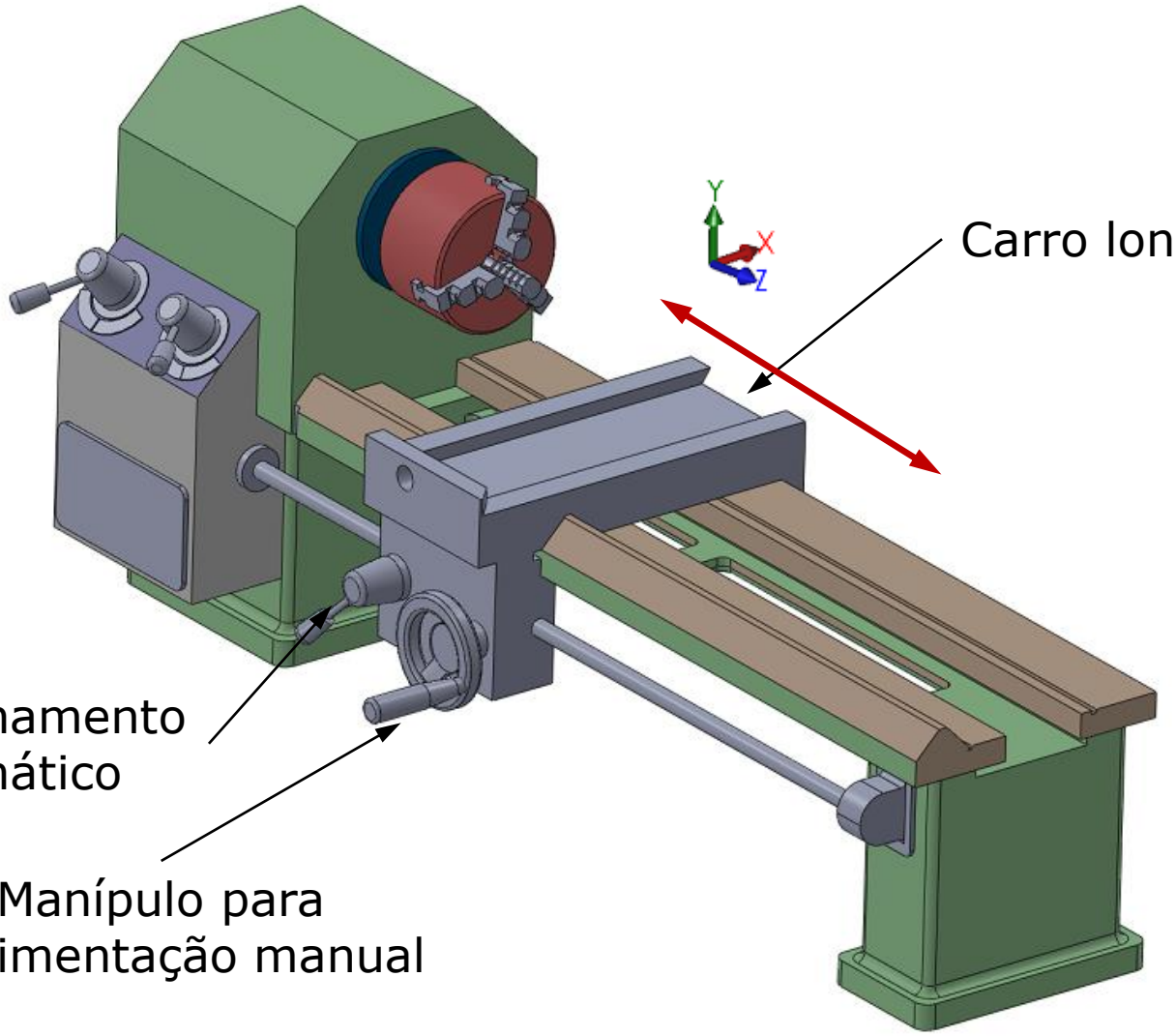

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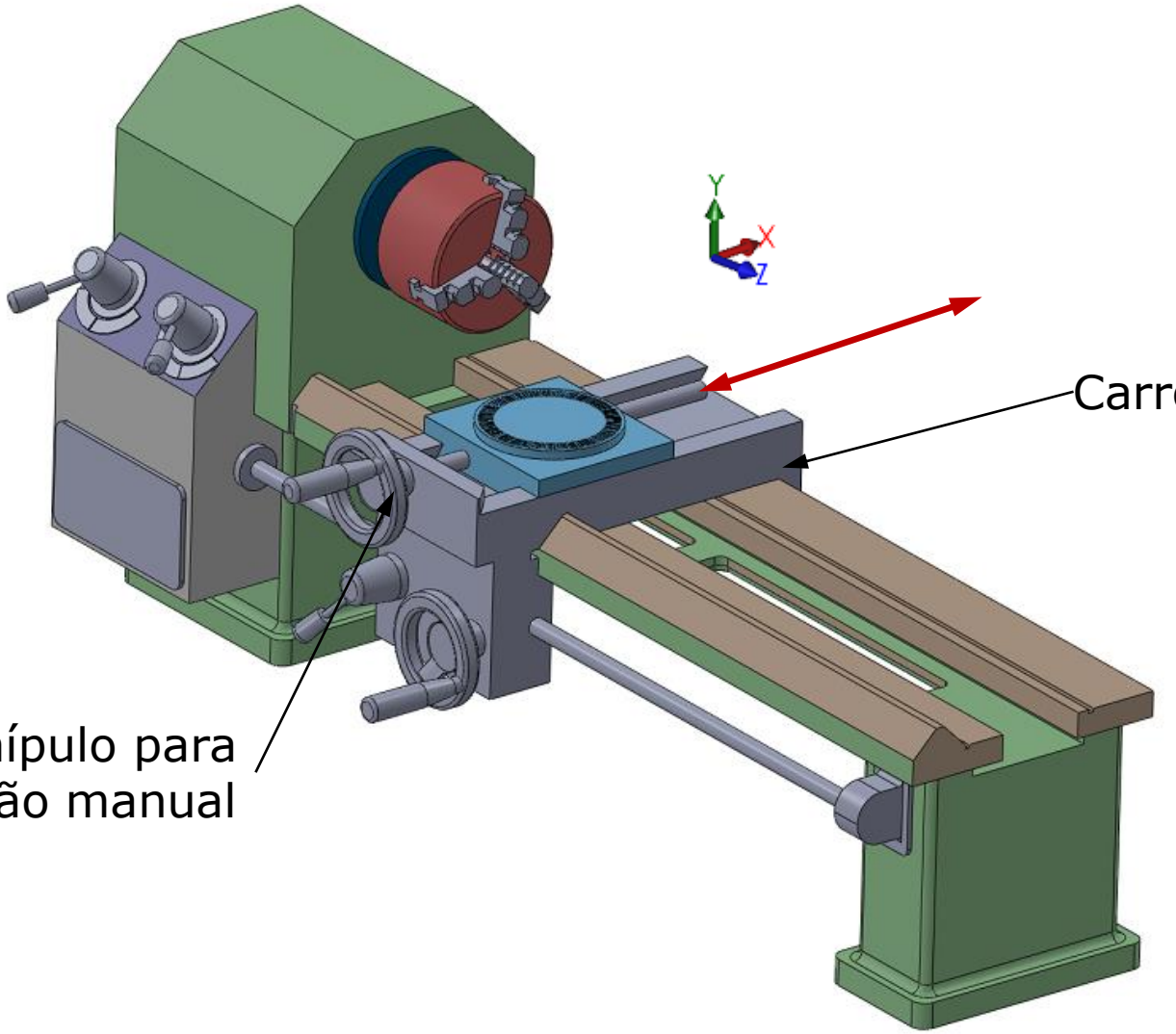

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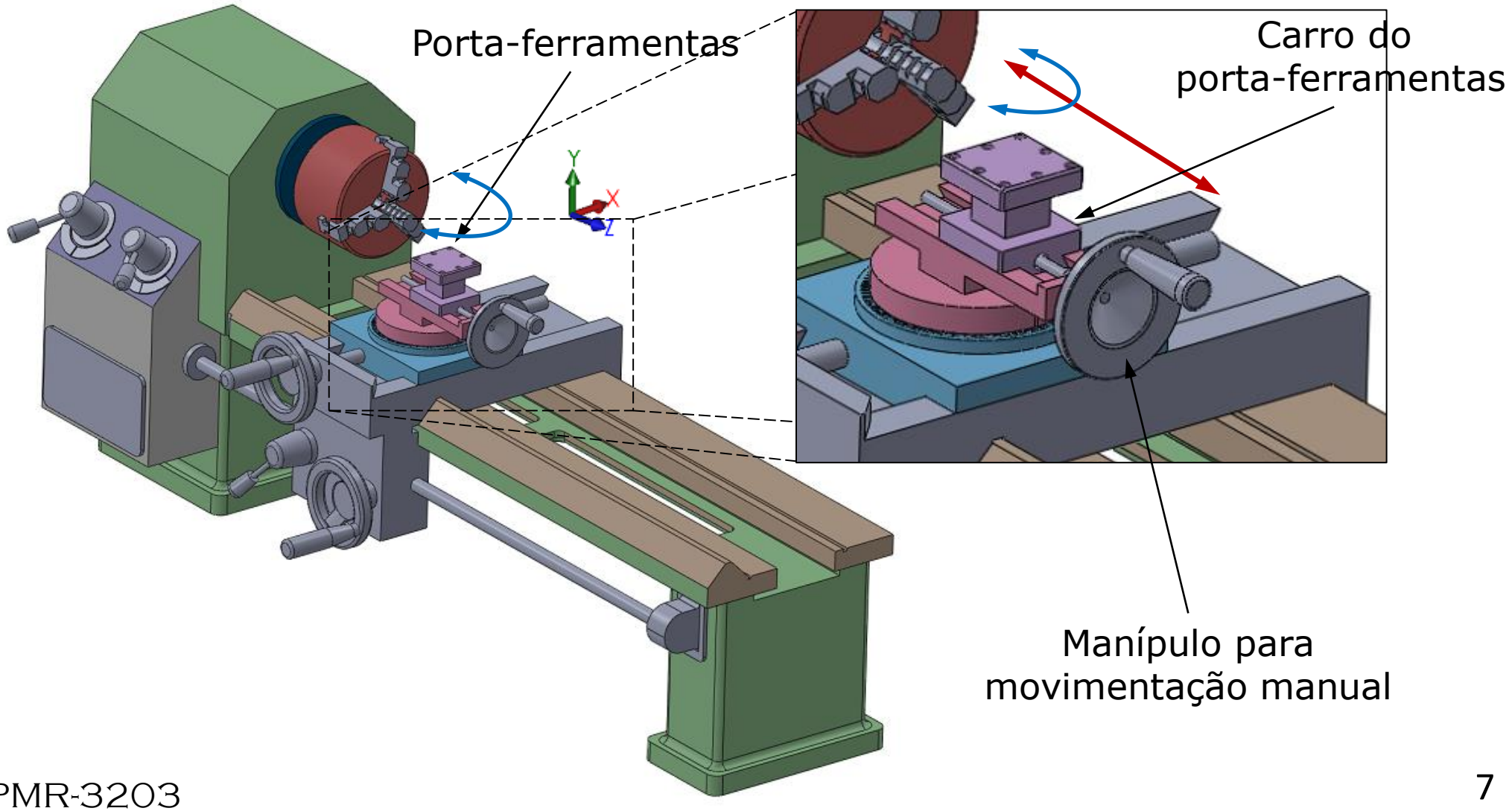

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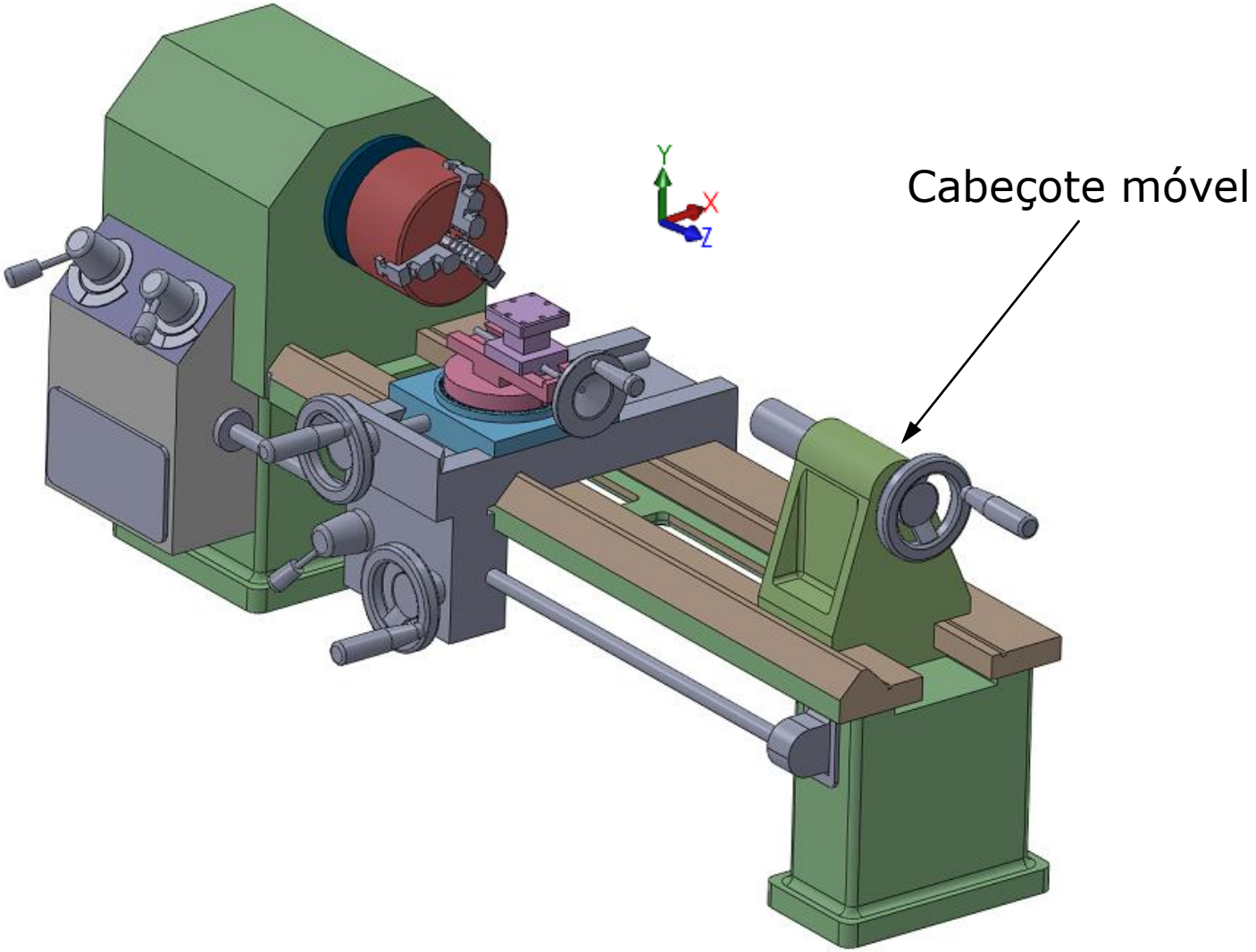

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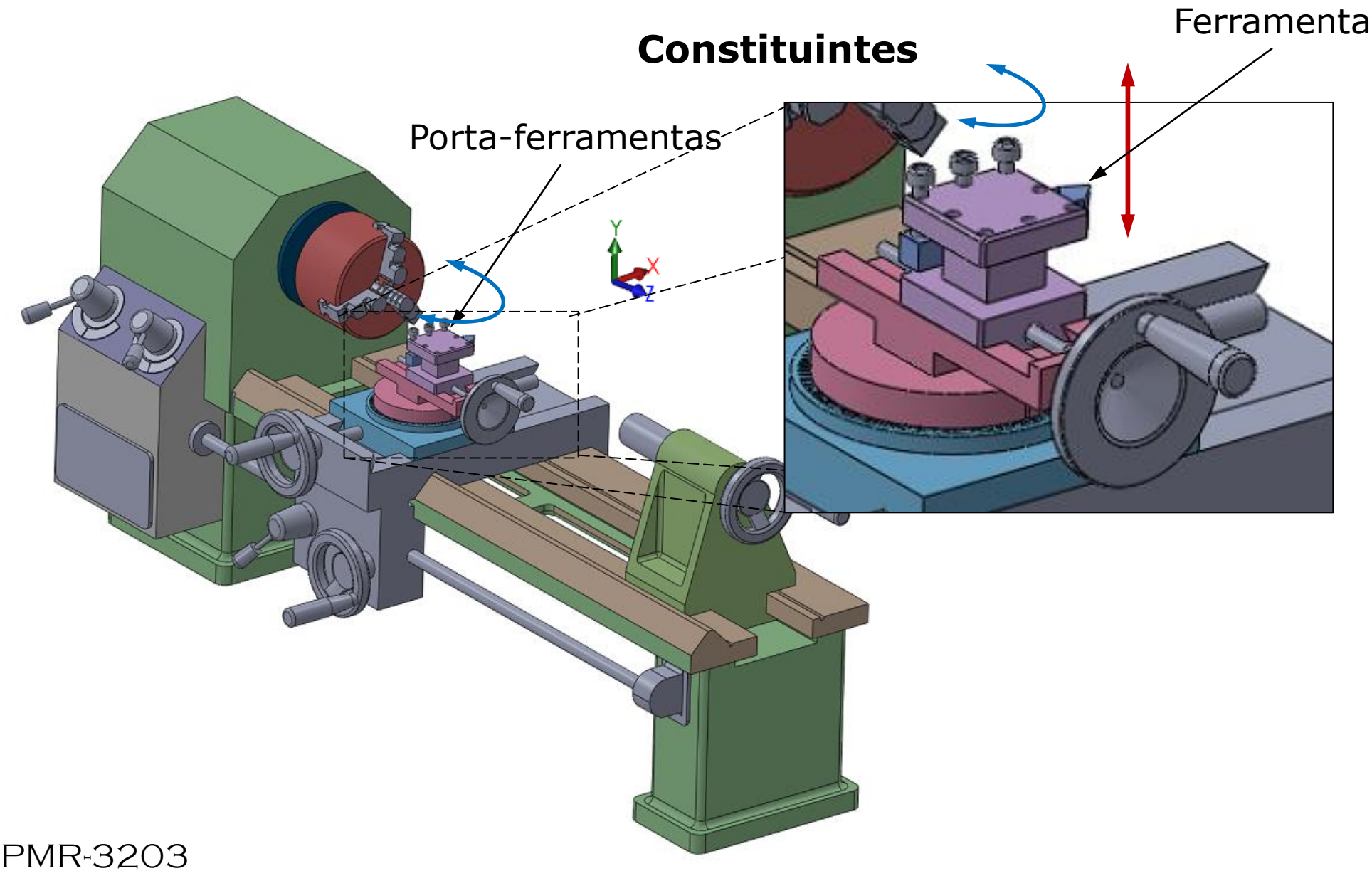
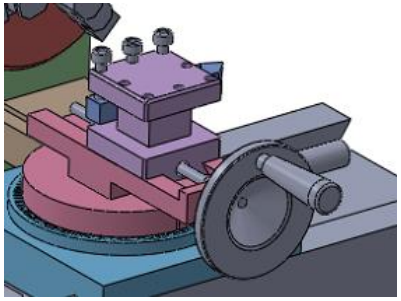
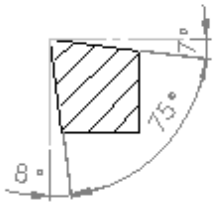


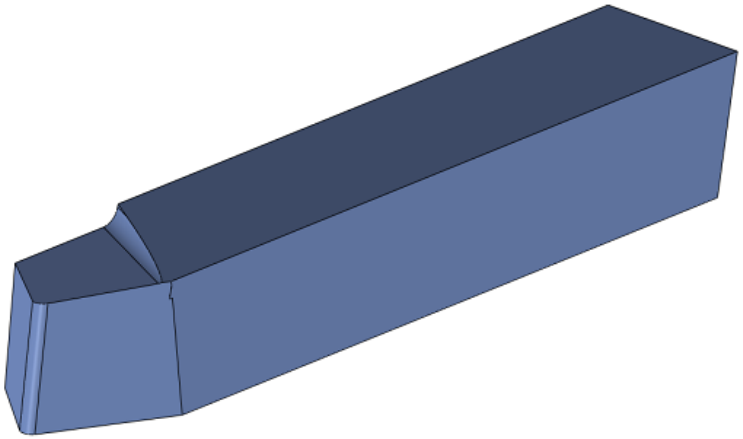
Ferramenta

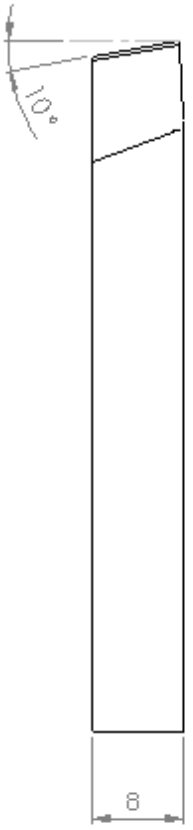


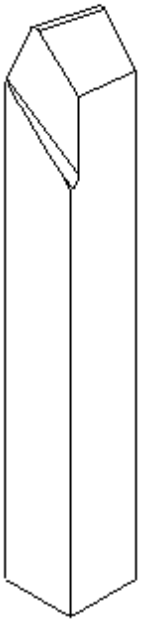


SEÇÃO B-B

DETALHE D
ESCALA 4 : 1

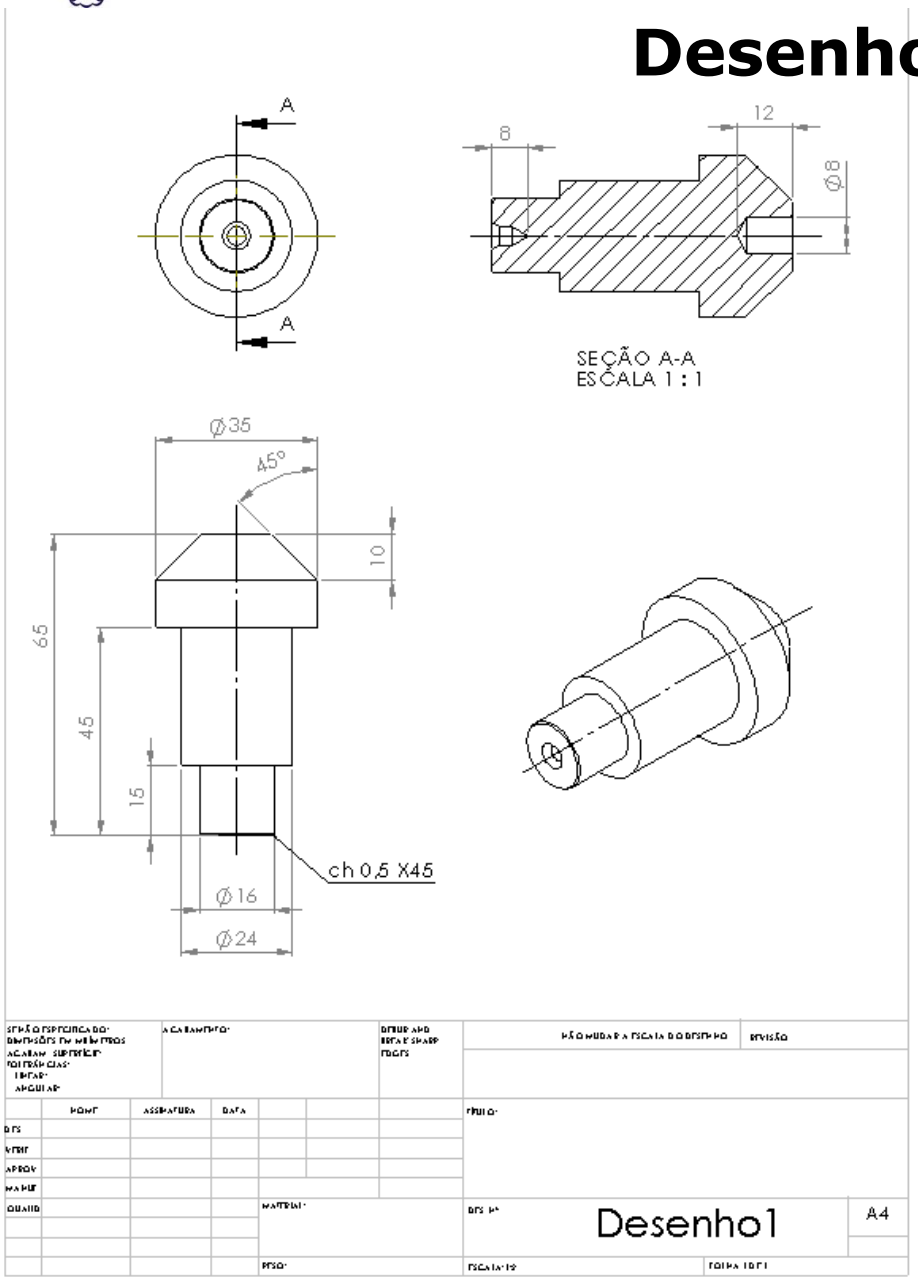


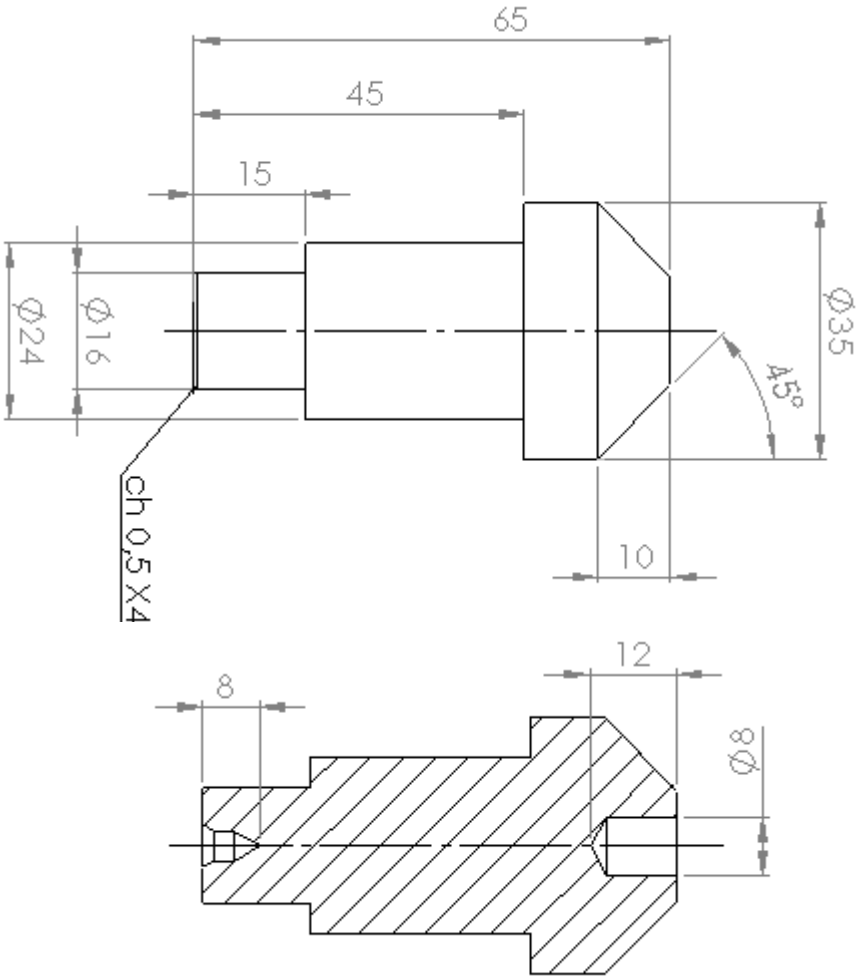




Ferramenta: Aço rápido 1841 (HSS)

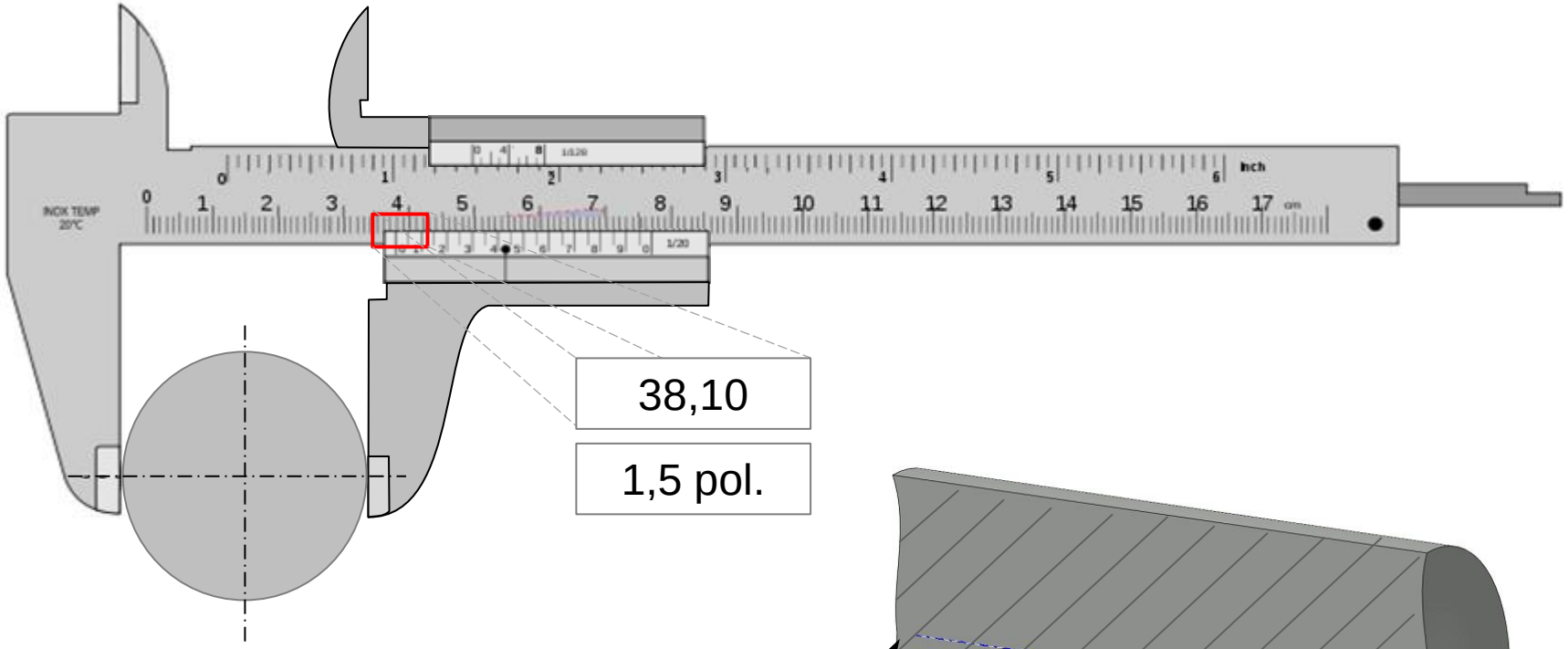
Desenho da Peça#1



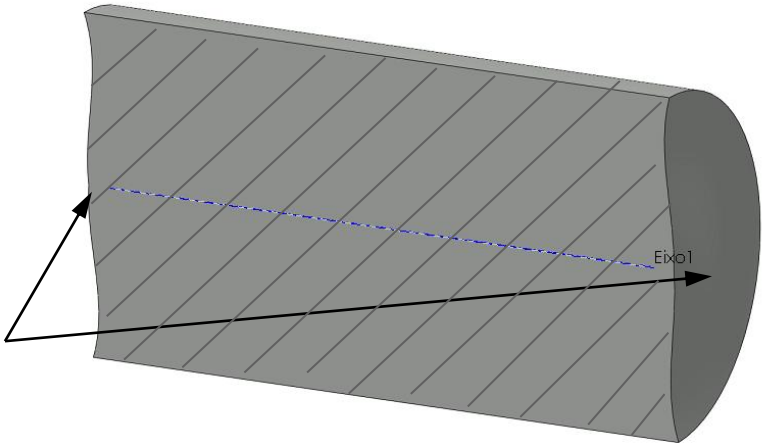


Material: Nylon

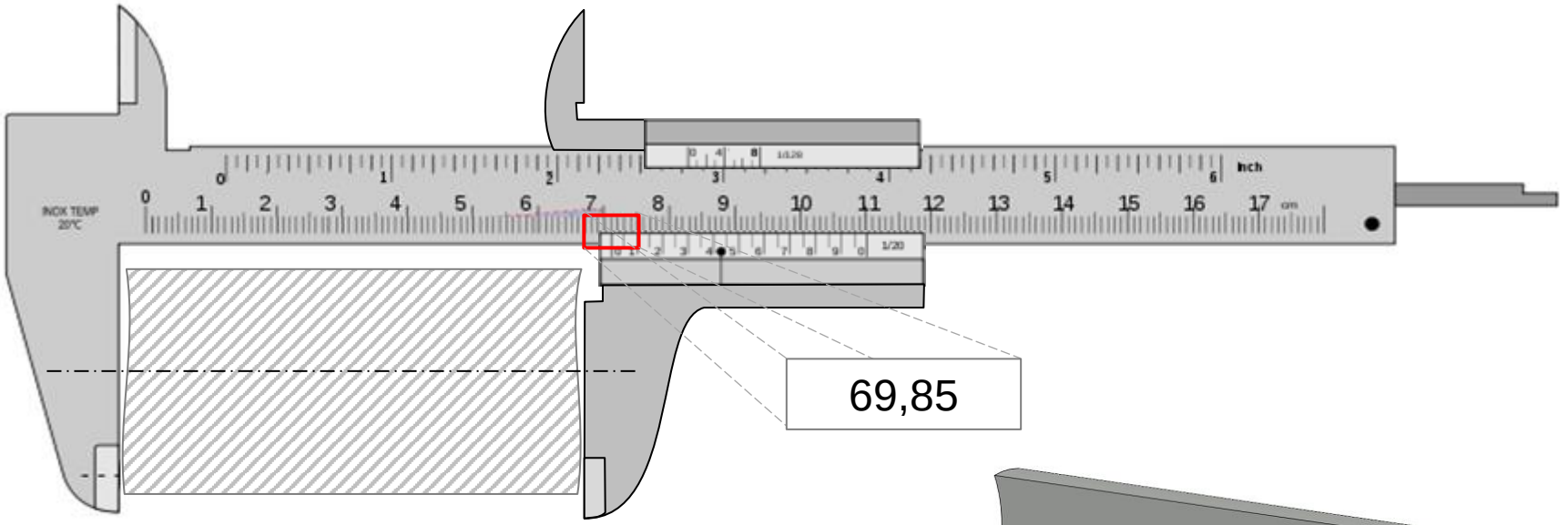
Dimensões da matéria prima

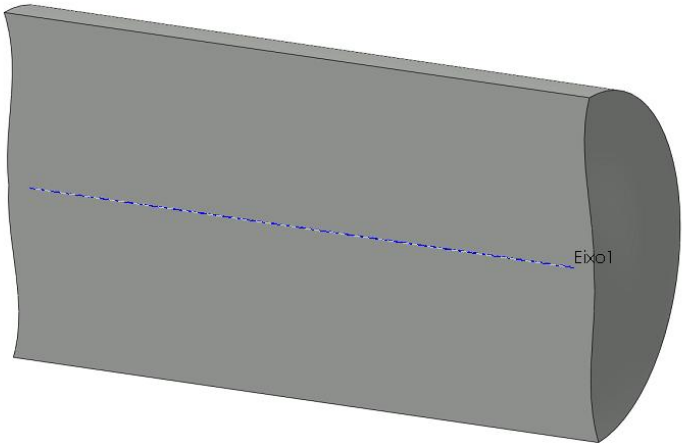


Faces irregulares

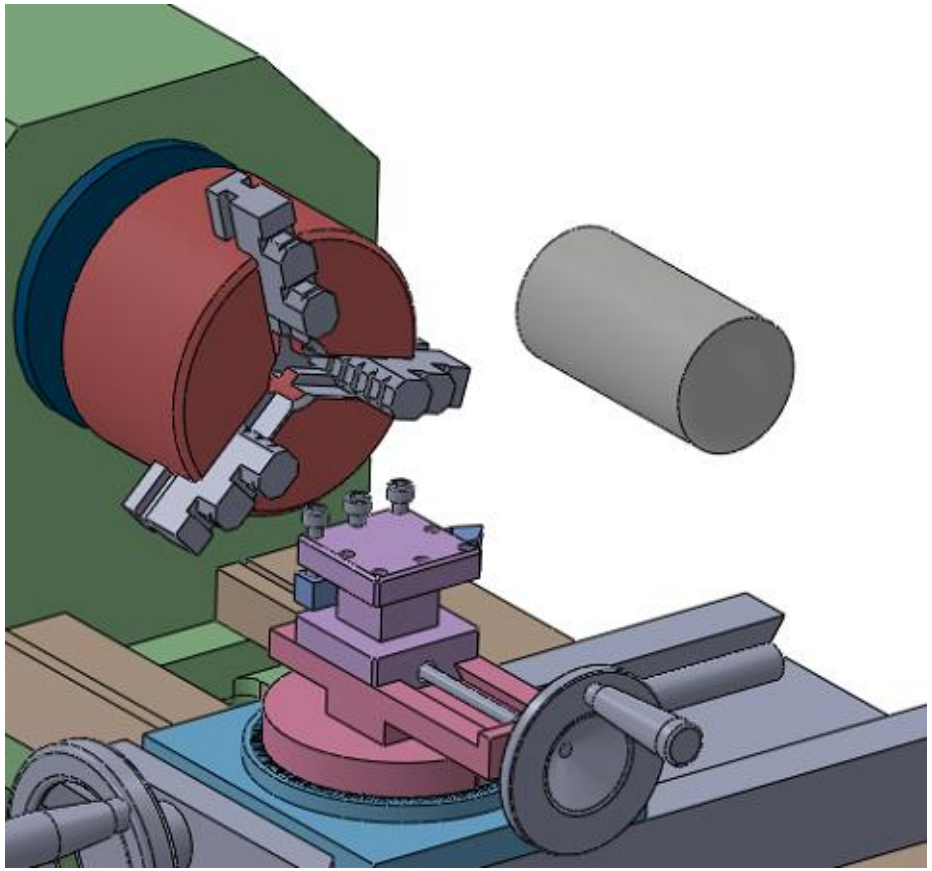


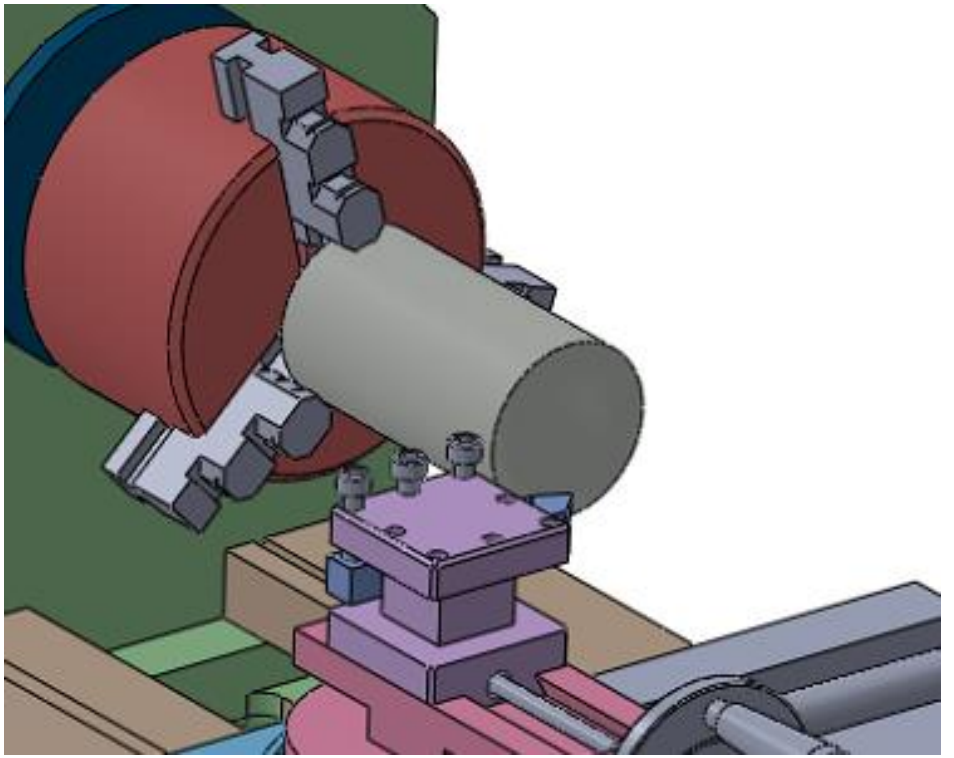
Dimensões da matéria prima





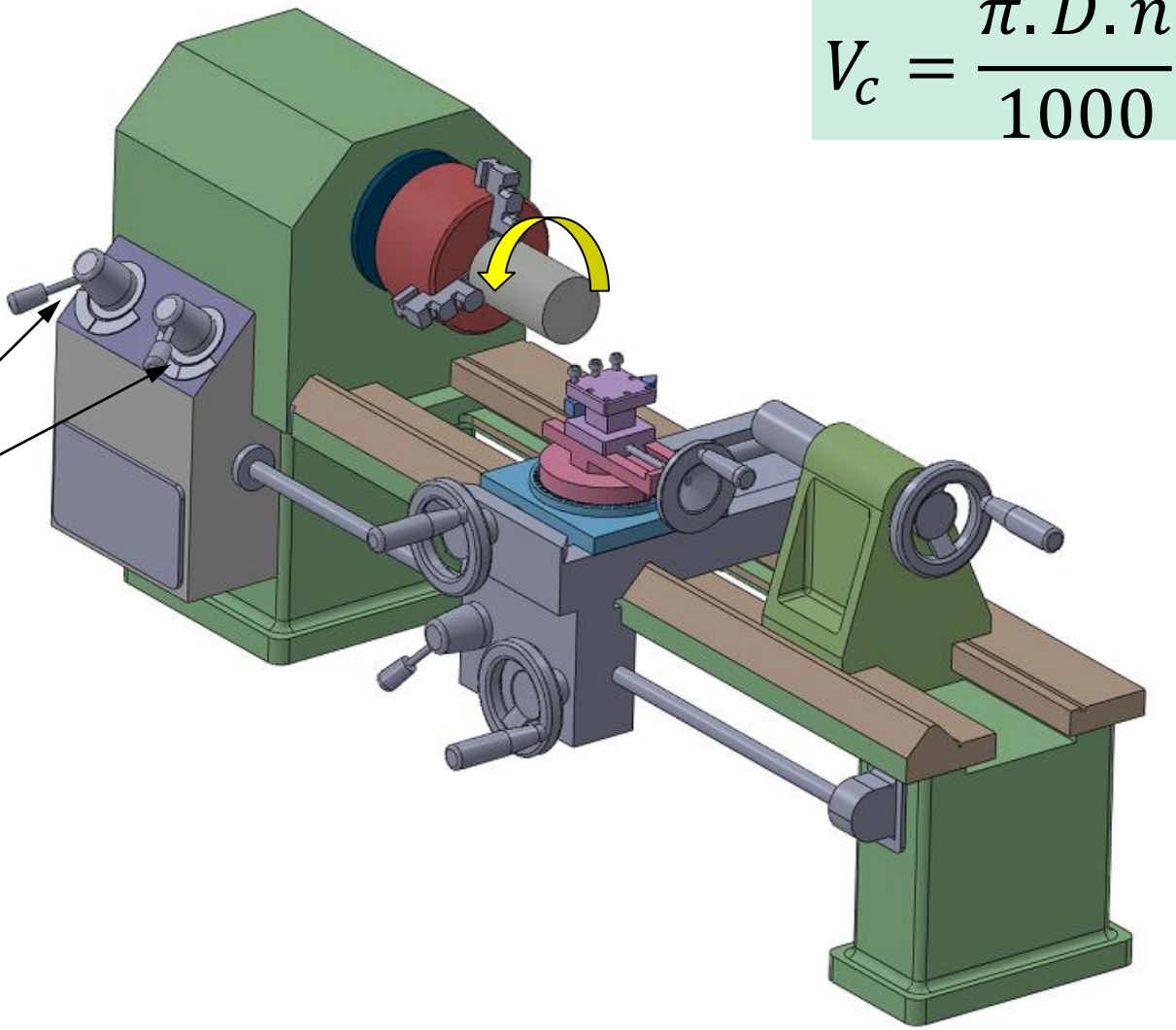
Fixar a matéria prima





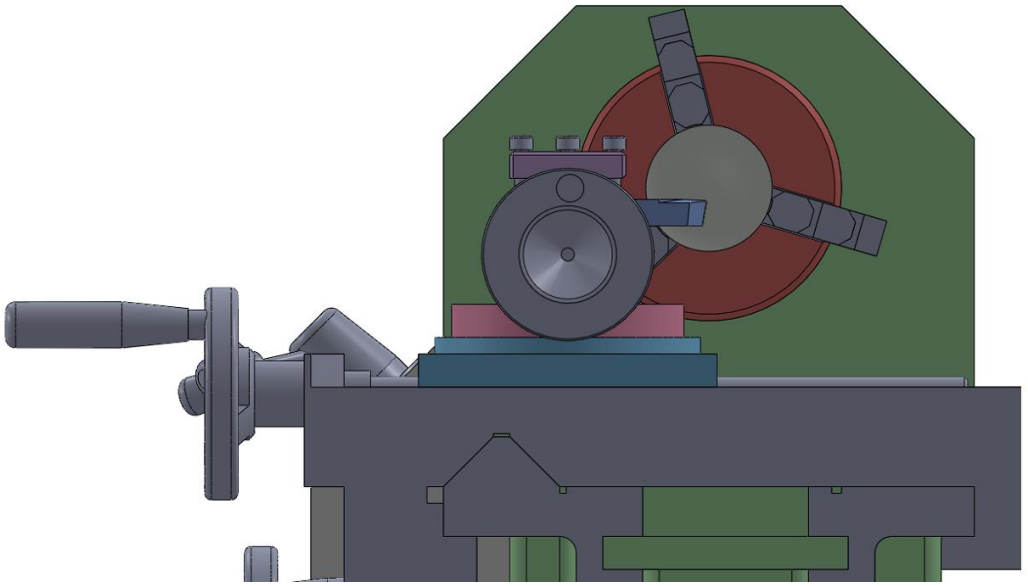
Ajuste da velocidade da árvore (rpm)

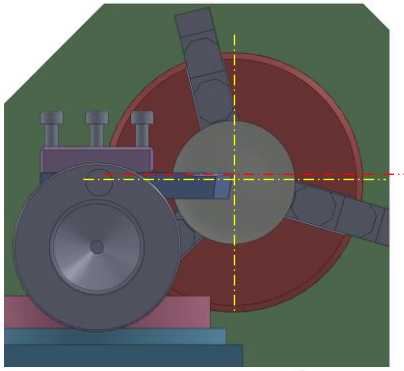
$$V_c = \frac{\pi . D . n}{1000}$$

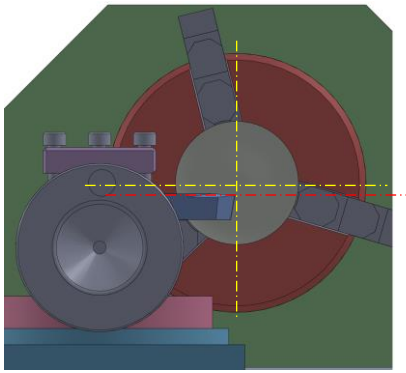


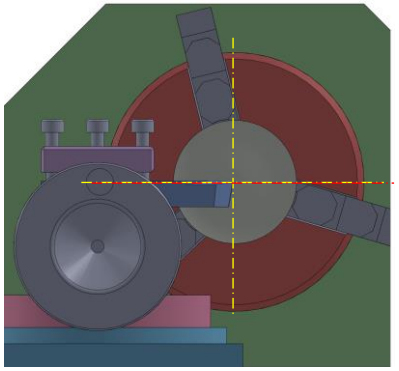
Seletores de velocidade

Ajuste do centro da ferramenta

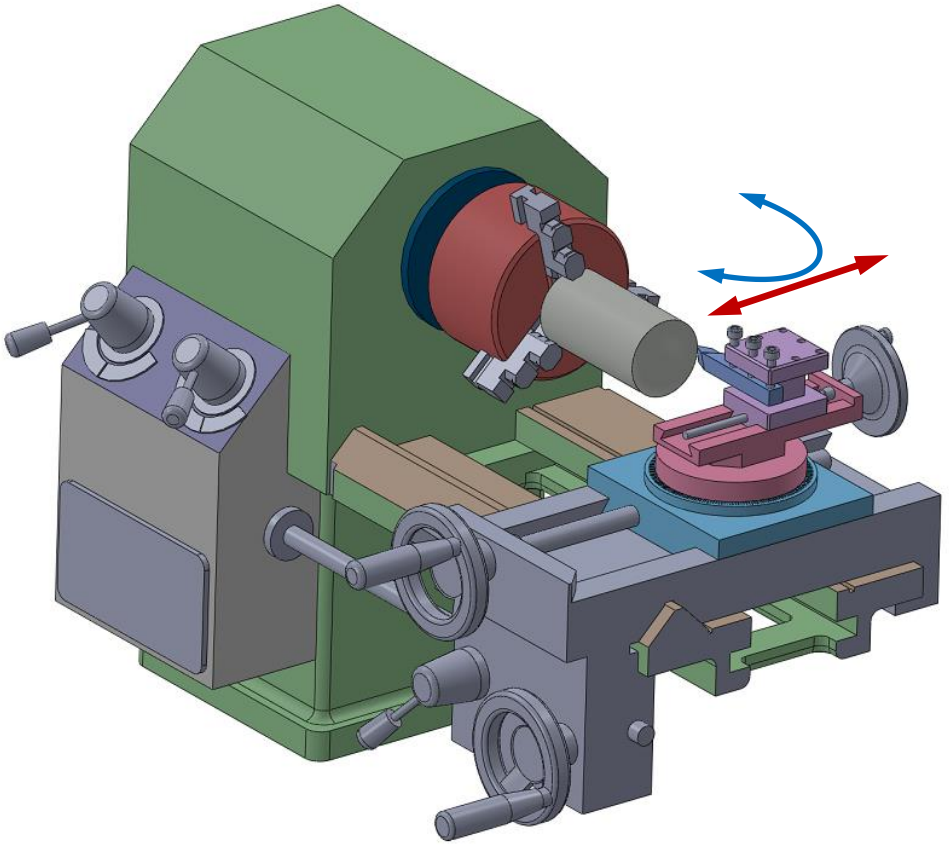


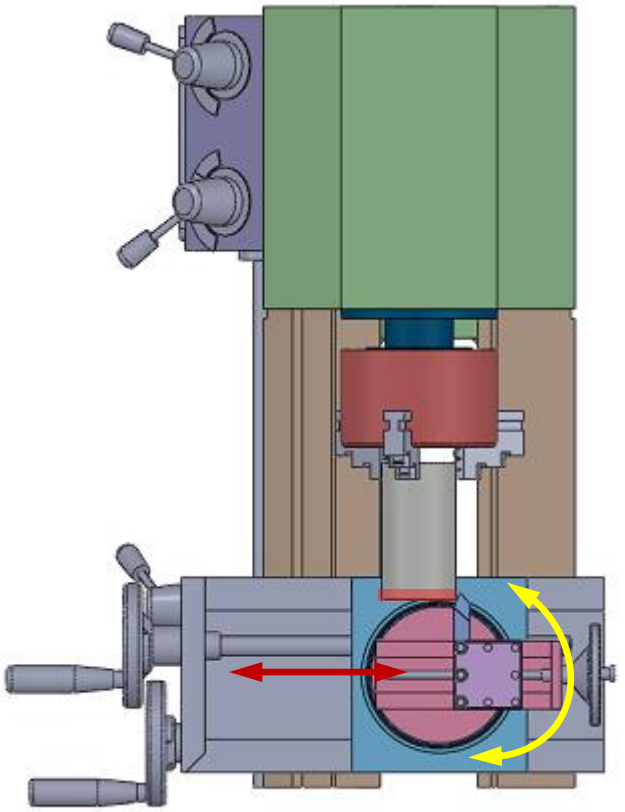






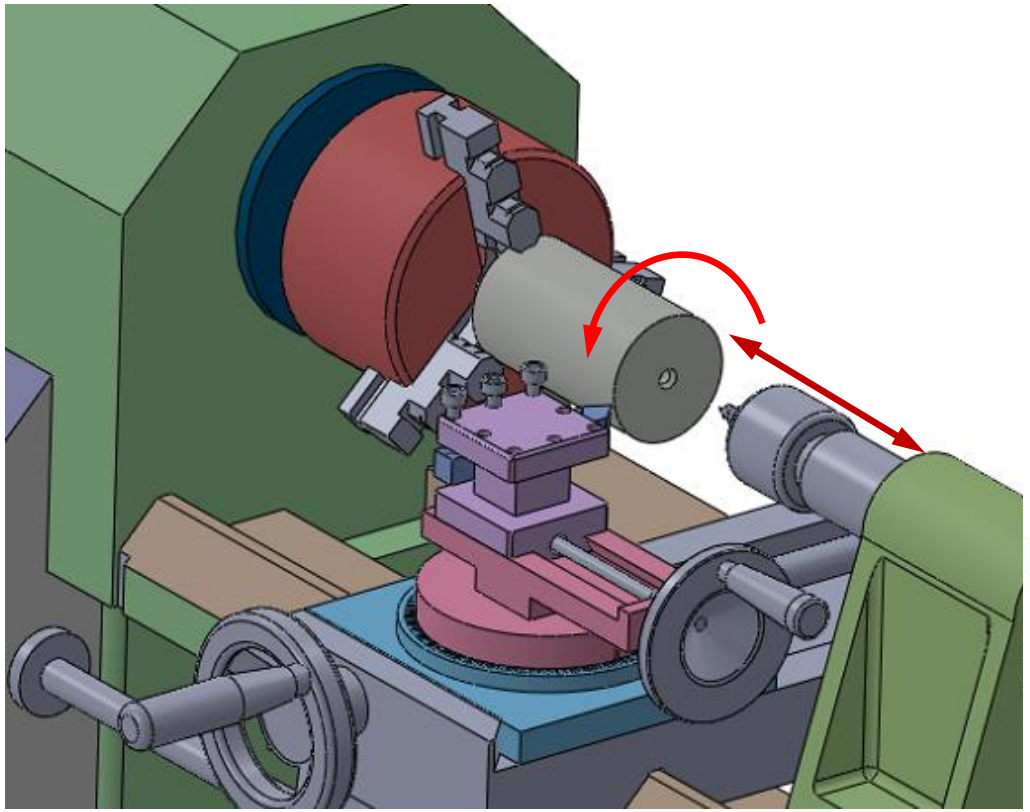
Faceamento
Acerto da dimensão longitudinal L=65mm

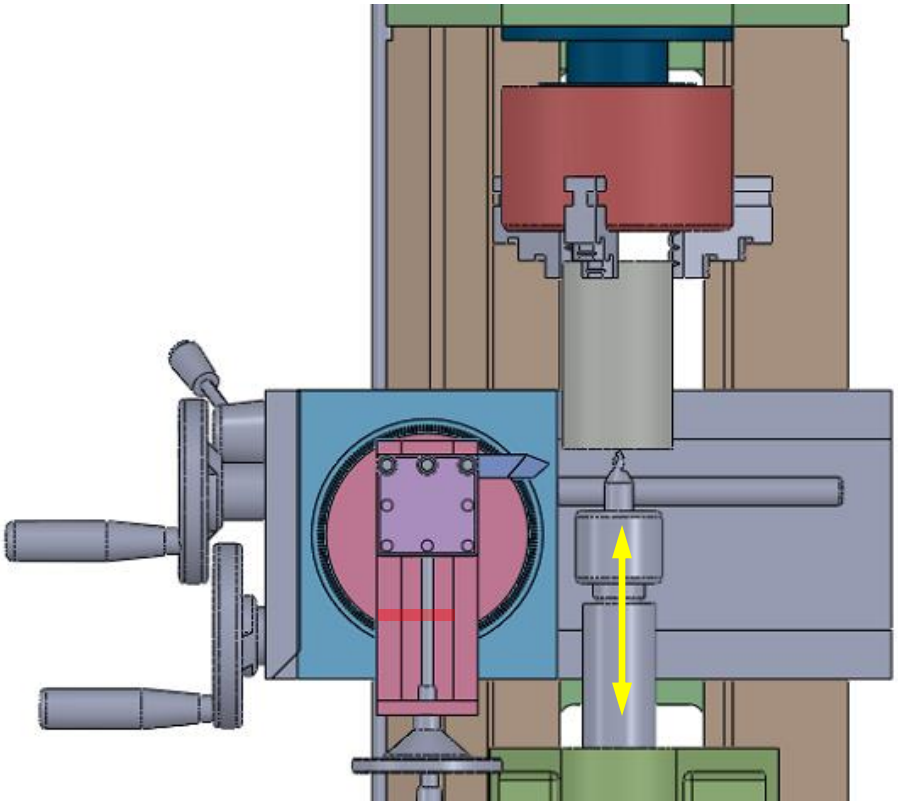




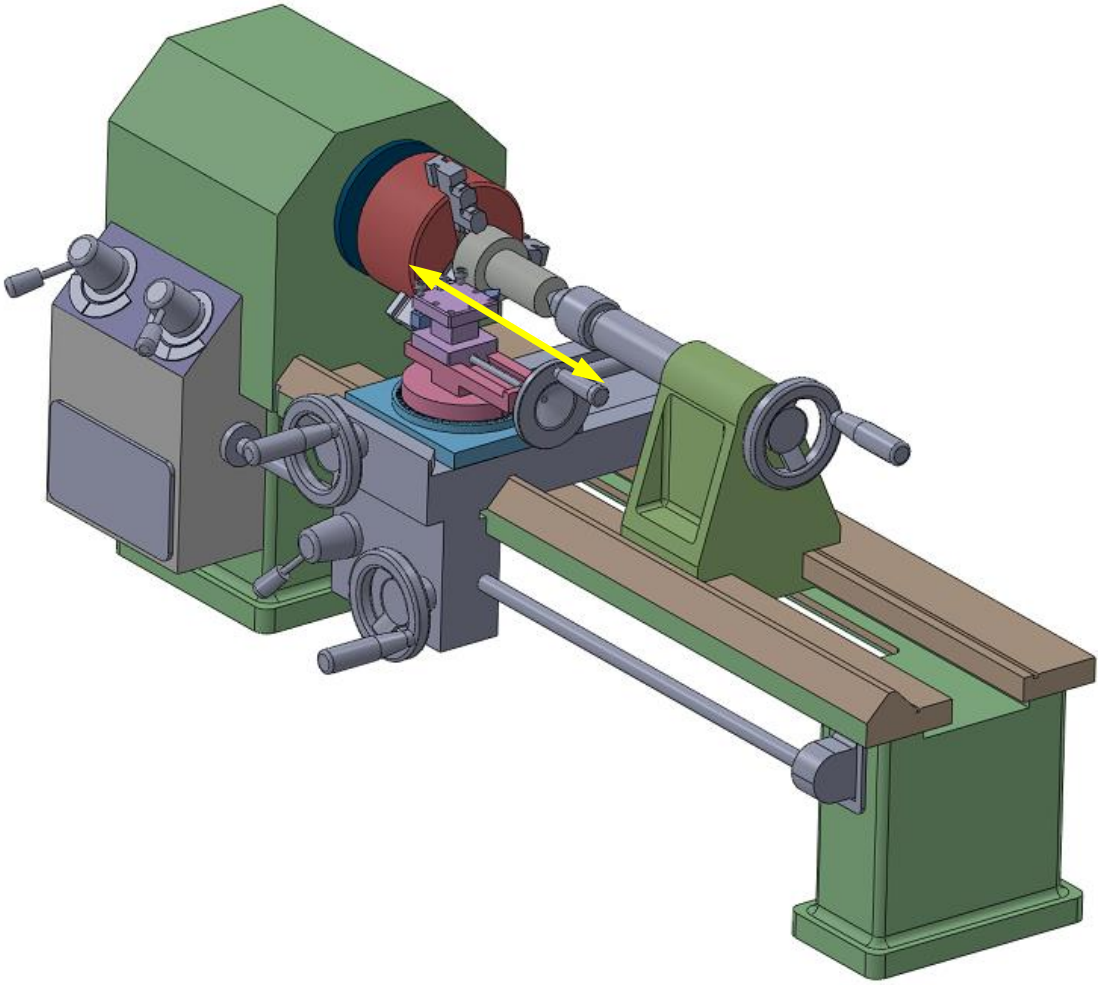
Execução do furo de centro

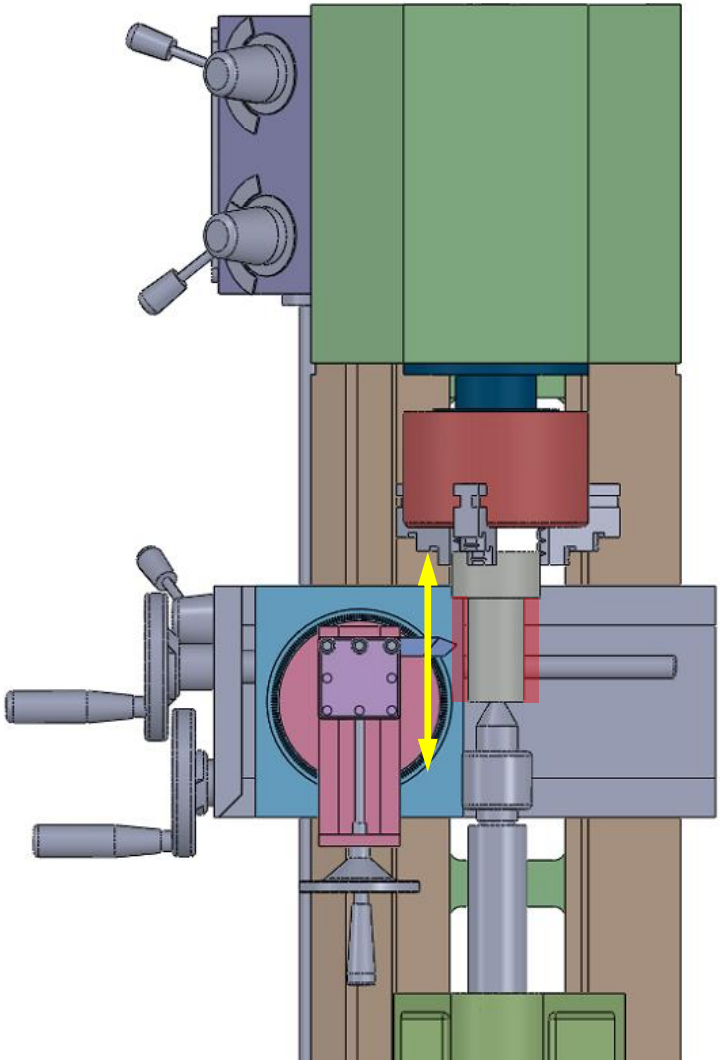
L/D > 1,5



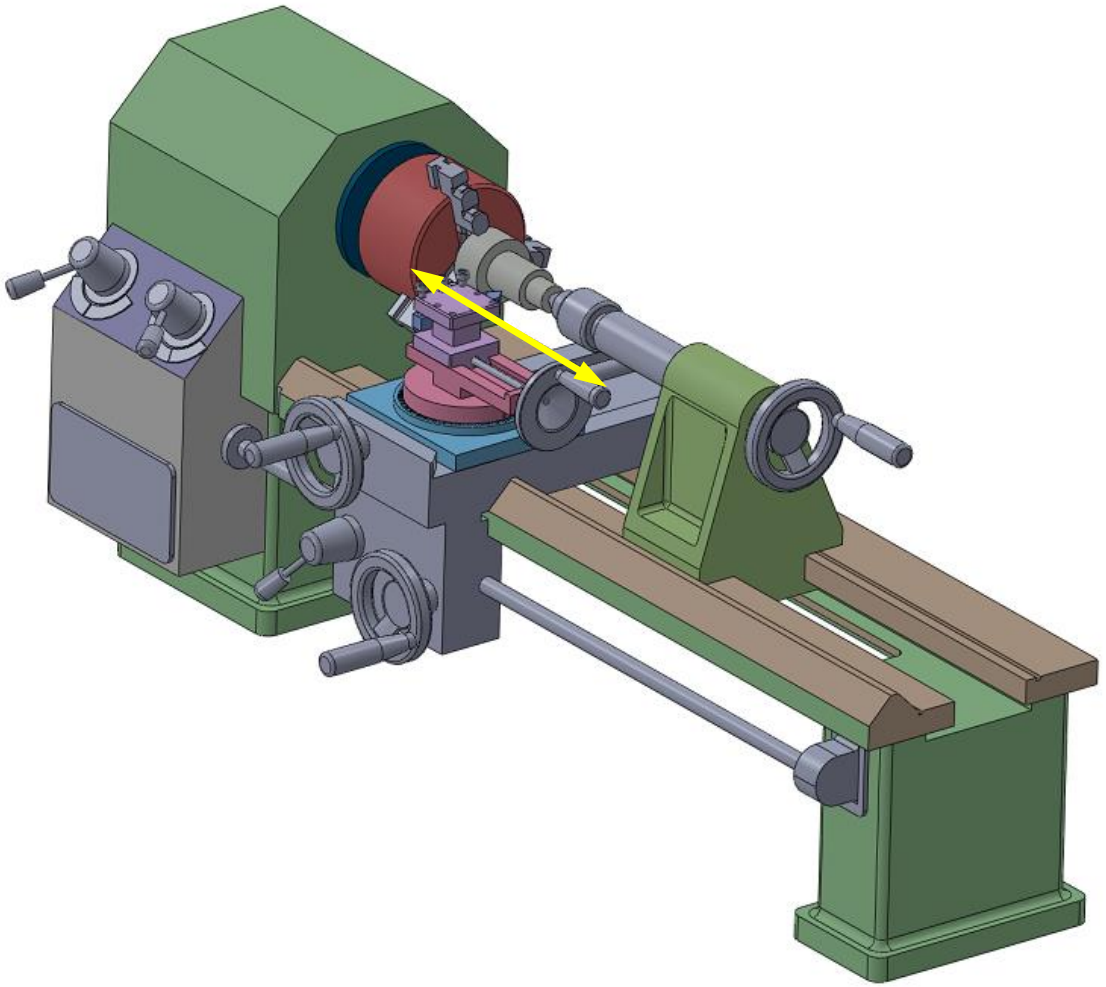


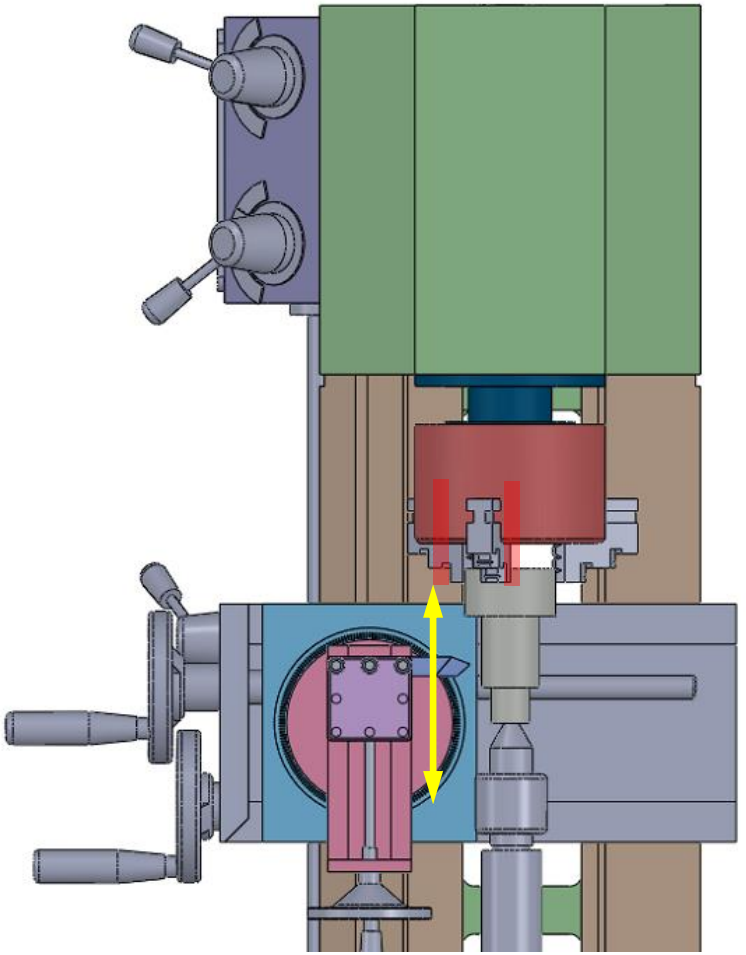
Torneamento diâmetro 24mm



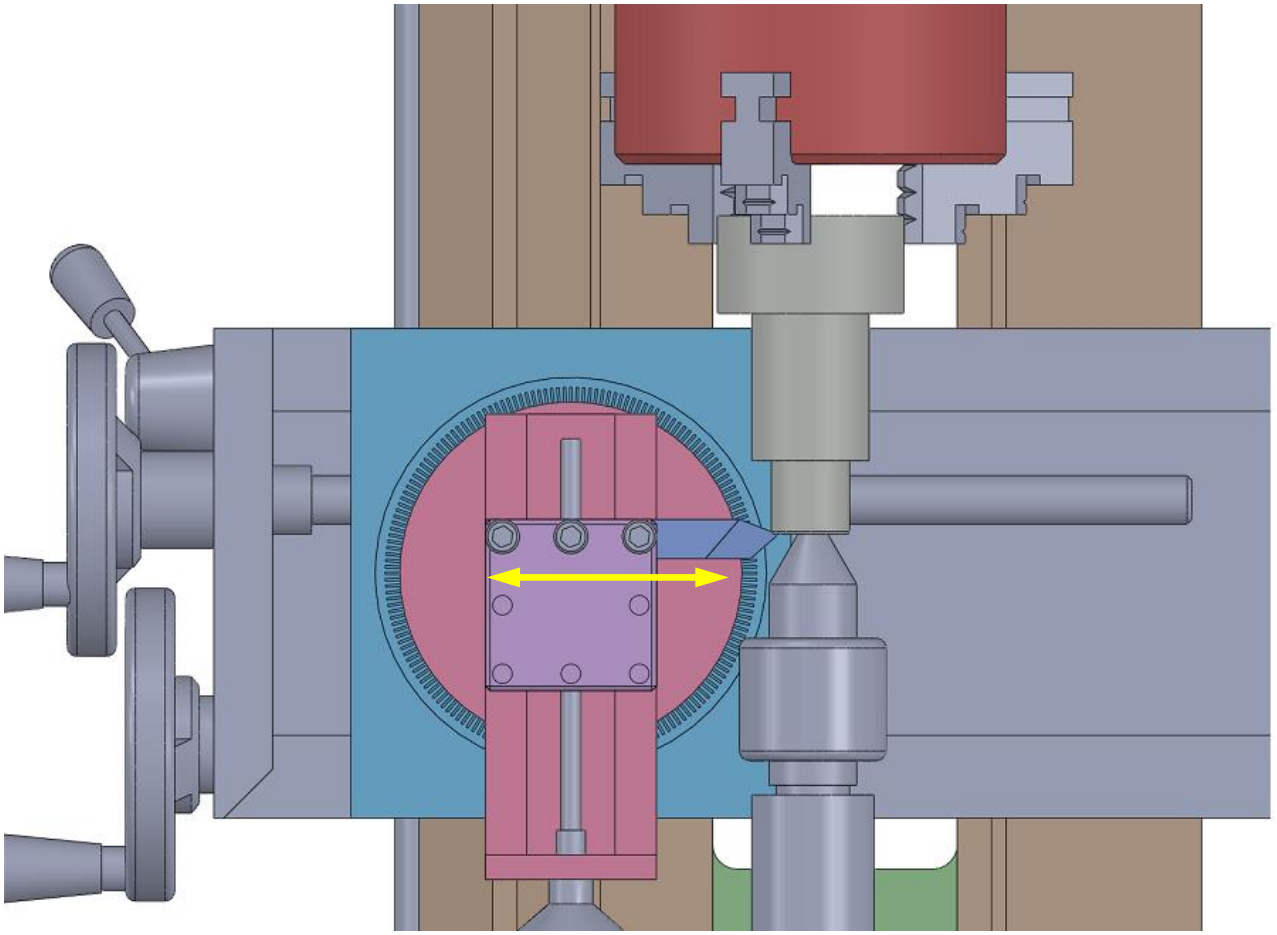


Torneamento diâmetro 16mm

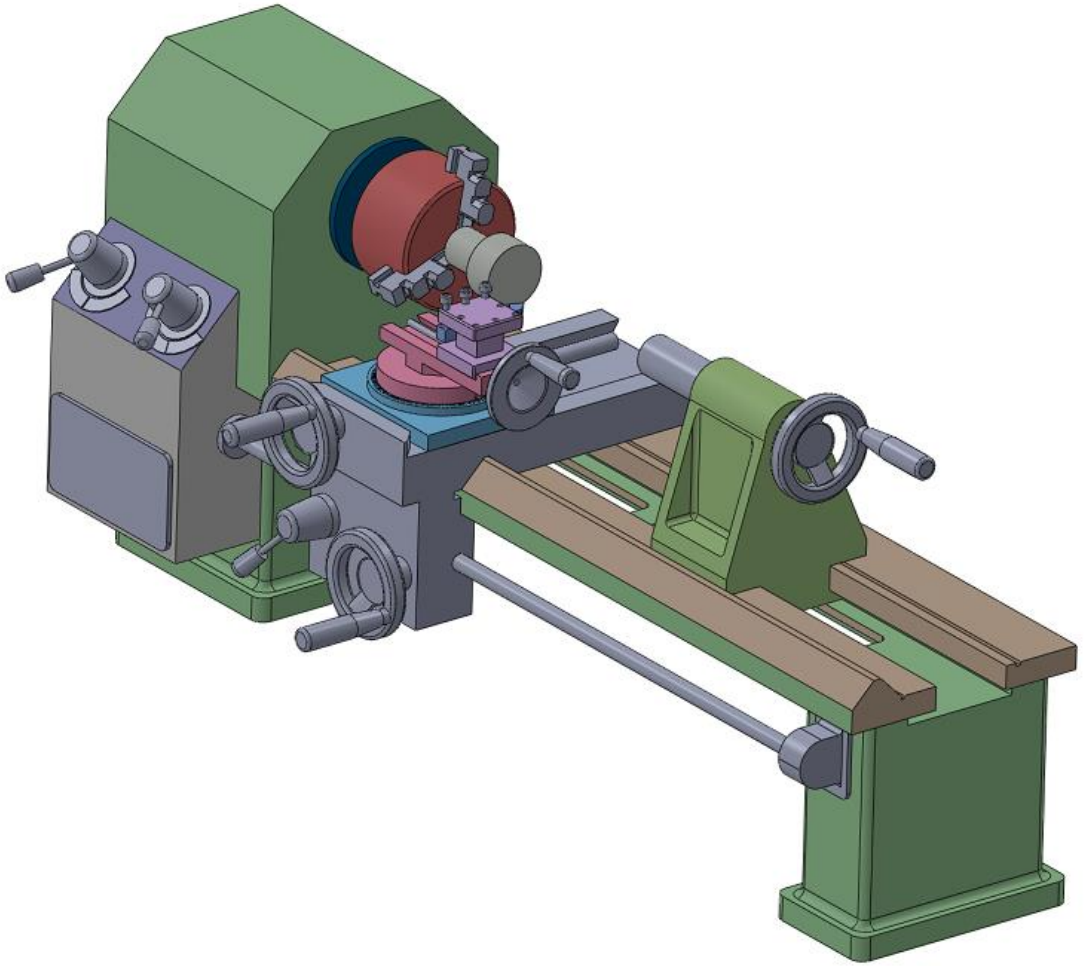




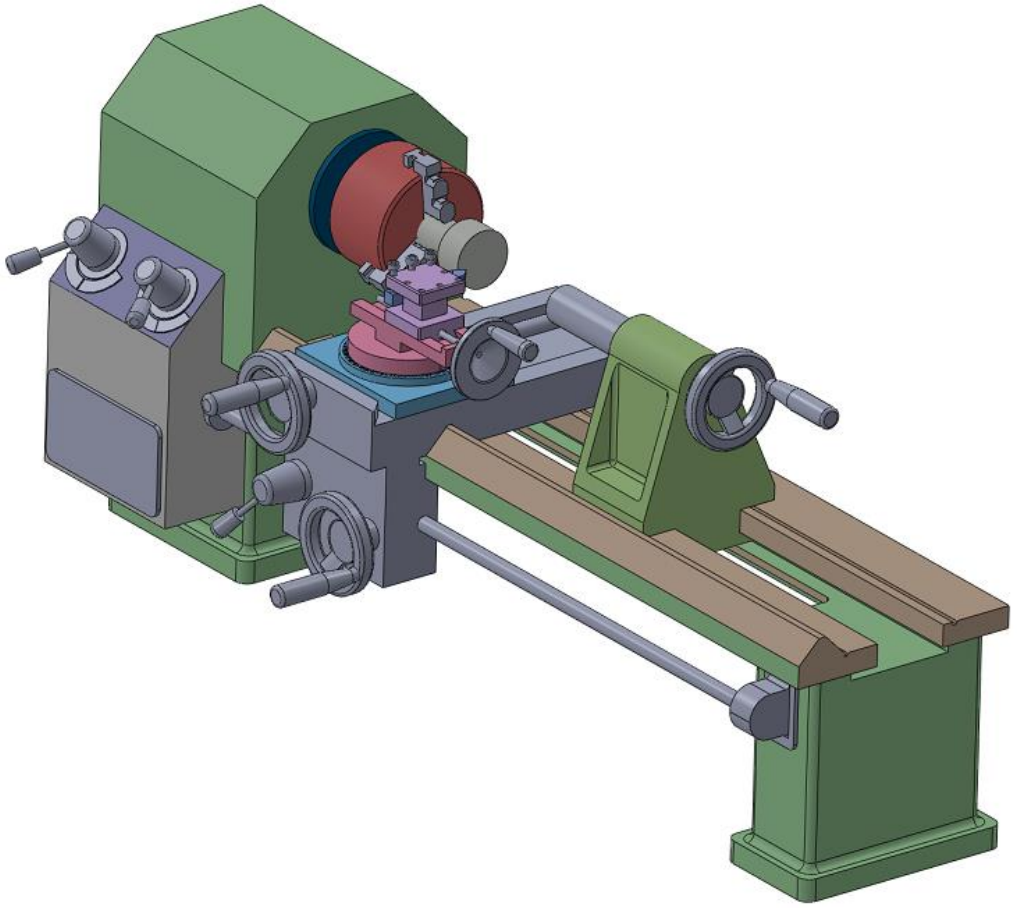
Chanfro 0,5X45°

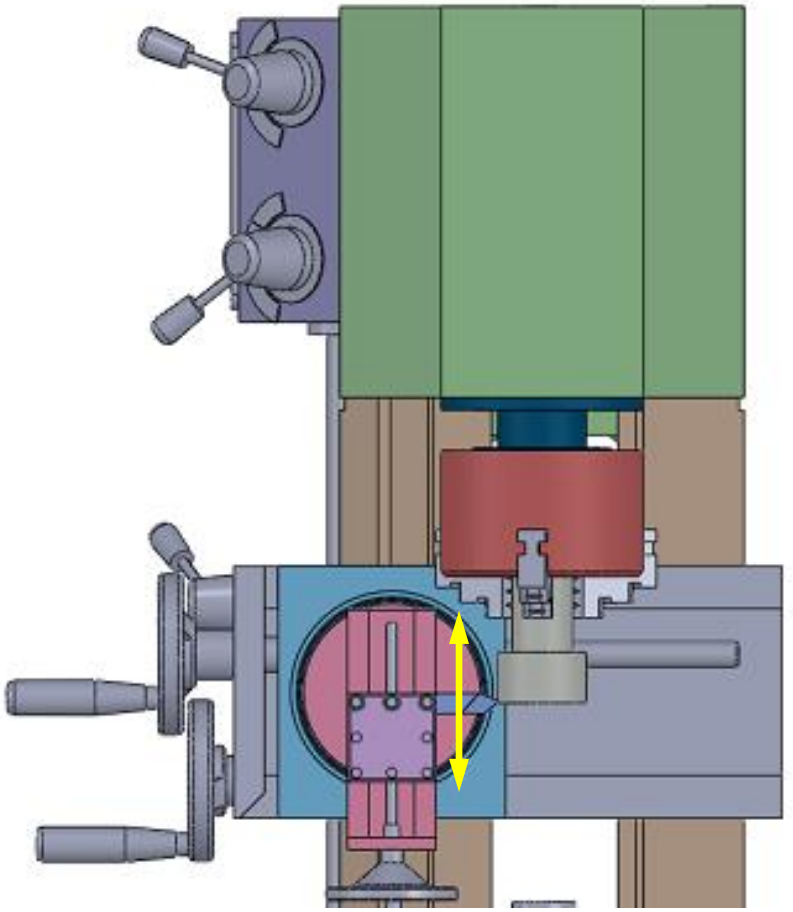


Reposicionar a peça para usinar o outro lado

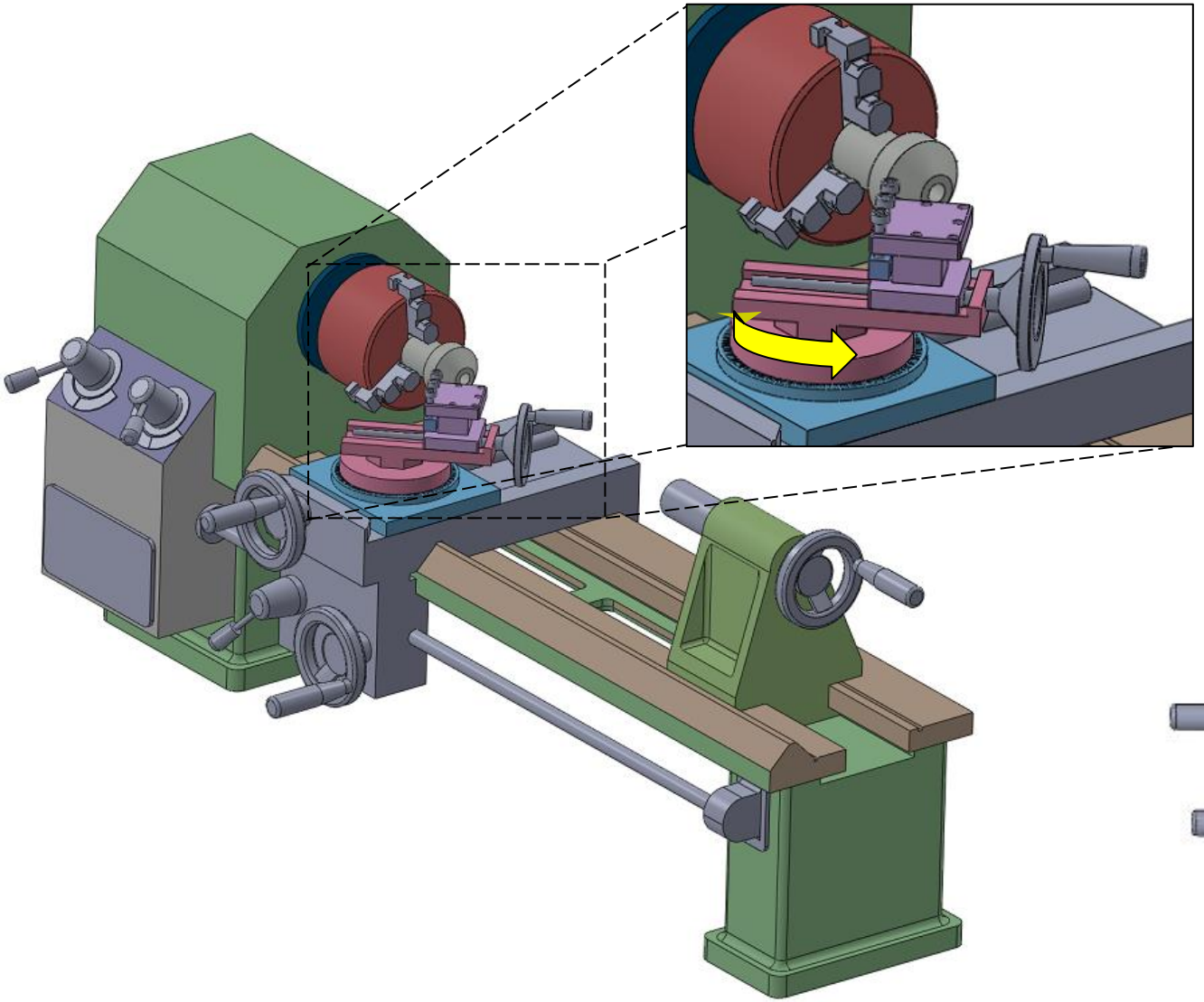


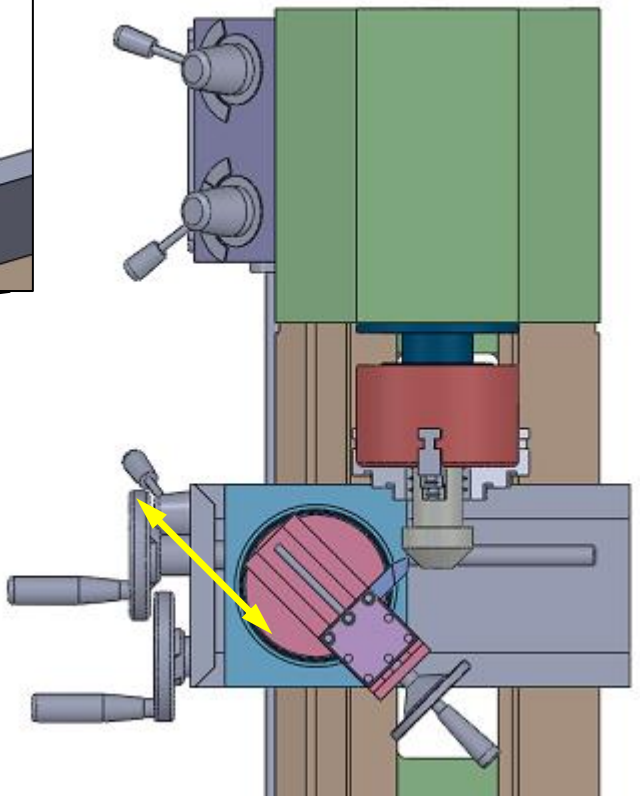
Torneamento diâmetro 35mm



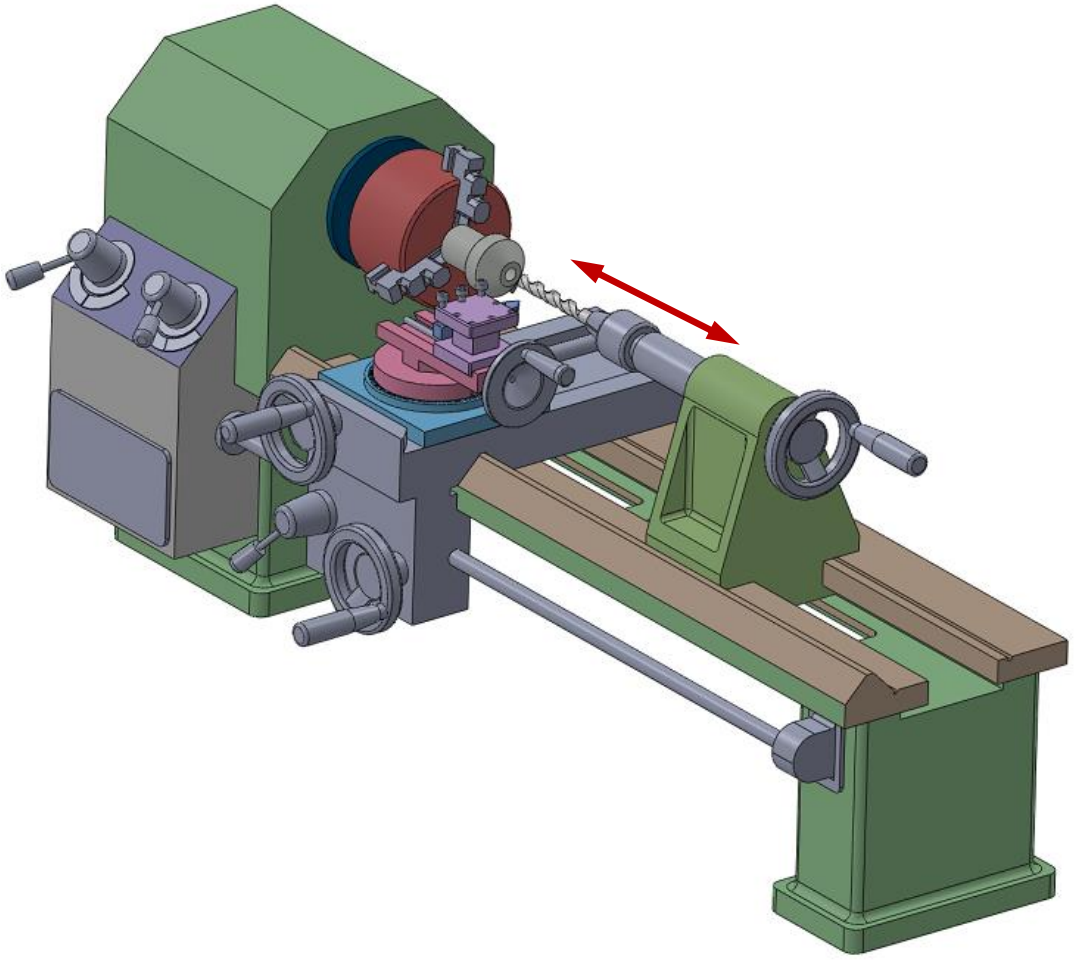


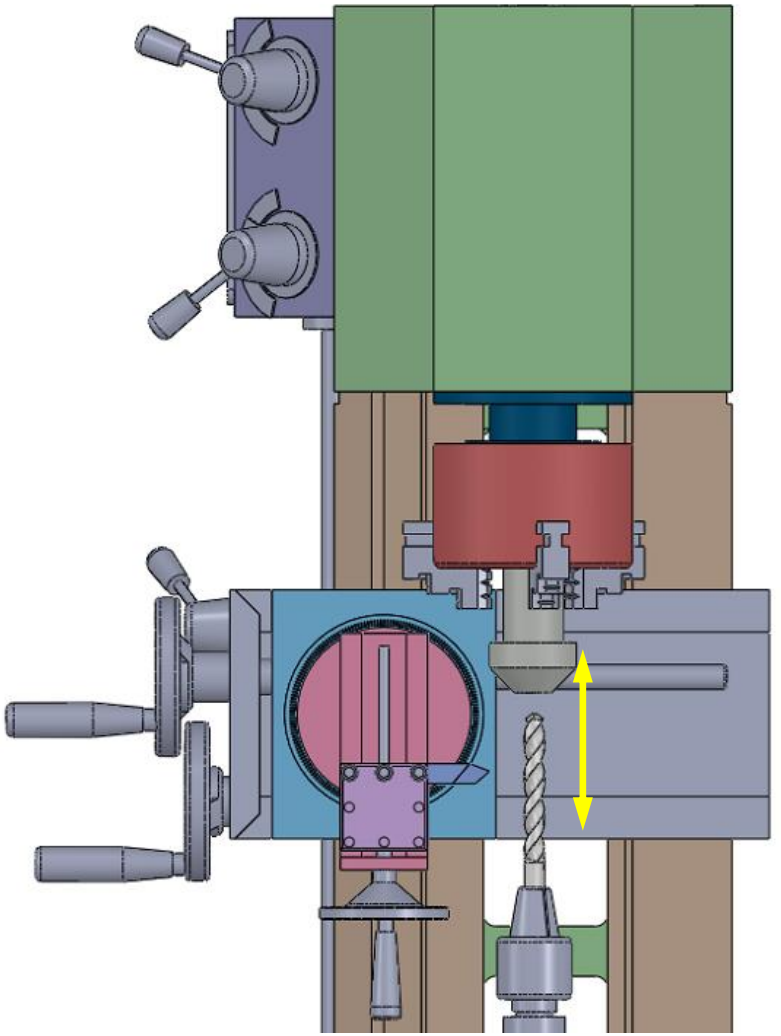
Chanfro 10X45°



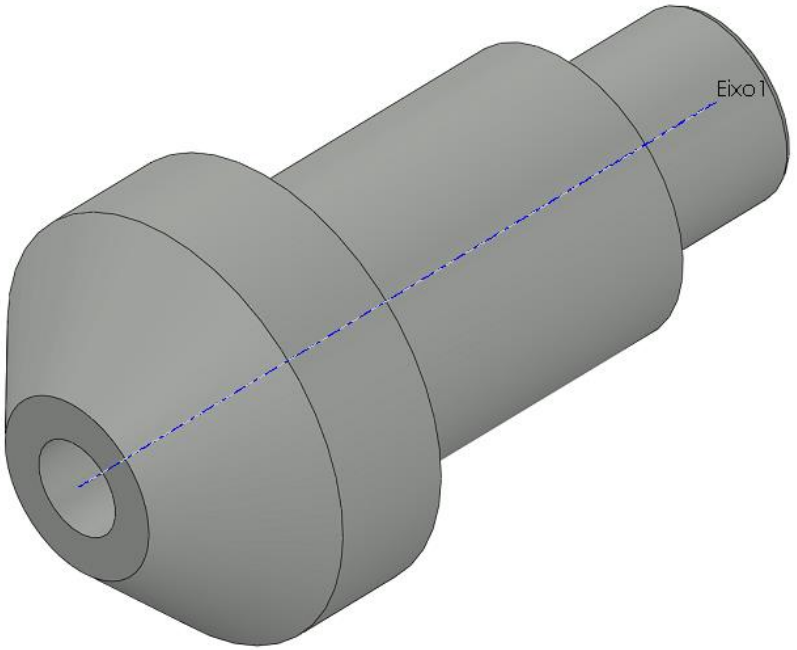


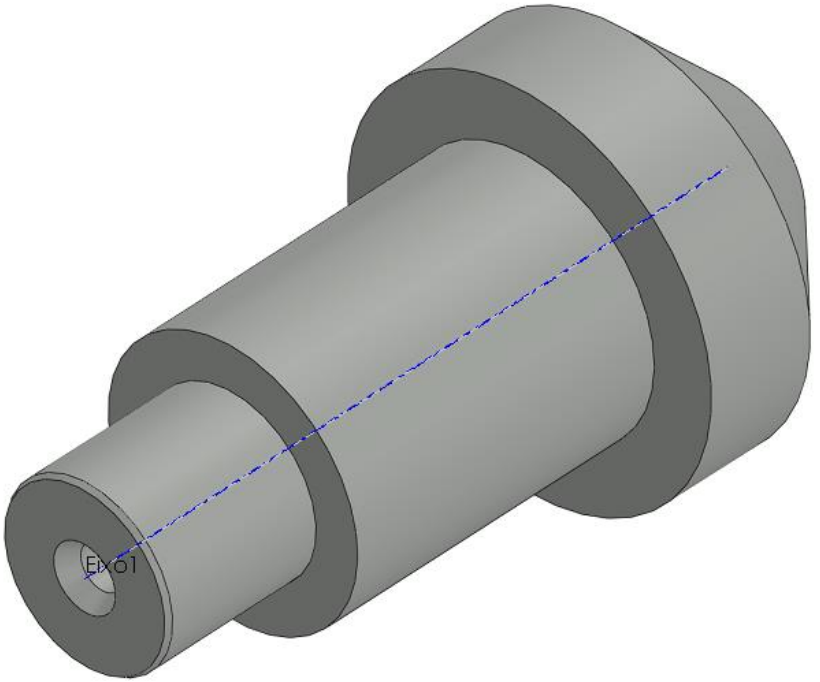
Furação diâmetro 8mm





Peça pronta





- Fim -