Prática de usinagem
Torneamento

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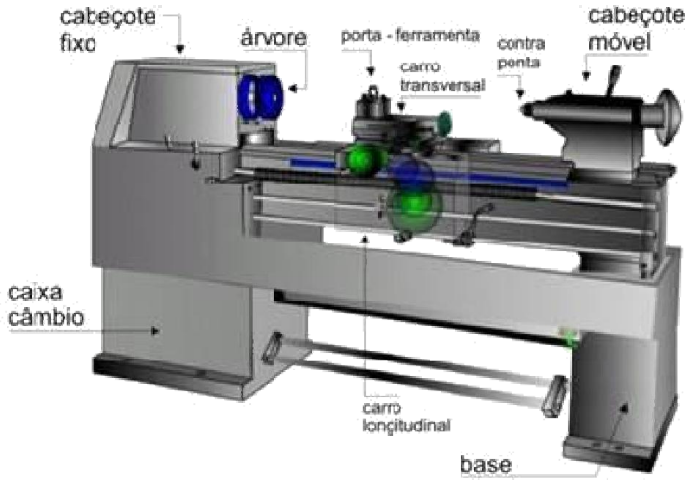
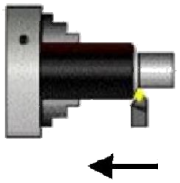
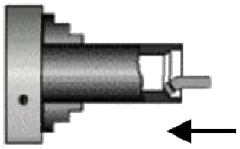
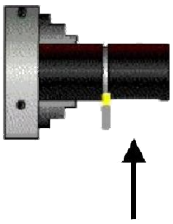
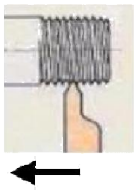

cabeçote fixo
árvore
porta - ferramenta
carro transversal
contra ponta
cabeçote móvel
caixa câmbio
carro longitudinal
base

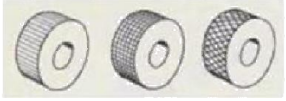
1.2 - Operações básicas de torneamento.



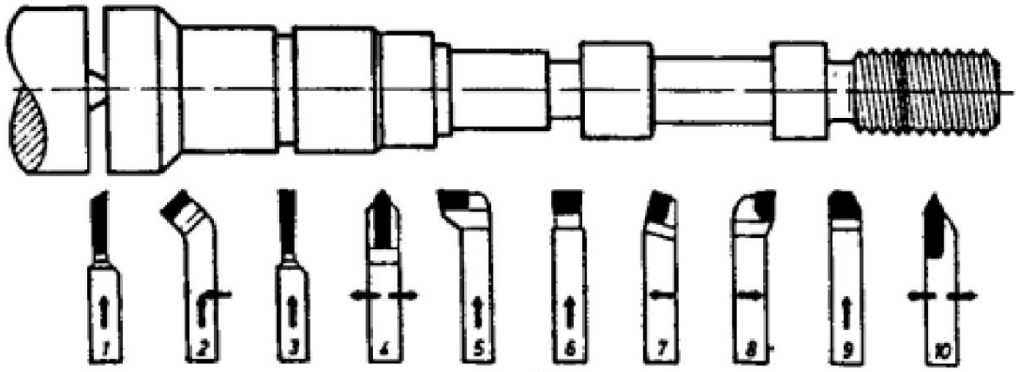








1.3 – As ferramentas de corte e suas respectivas operações.



1. Cortar
2. Cilindrar à direita
3. Sangrar
4. Alisar
5. Facear à direita
6. Sangrar com grande dimensão
7. Desbastar à direita
8. Cilindrar e facear à esquerda
9. Formar
10. Roscar

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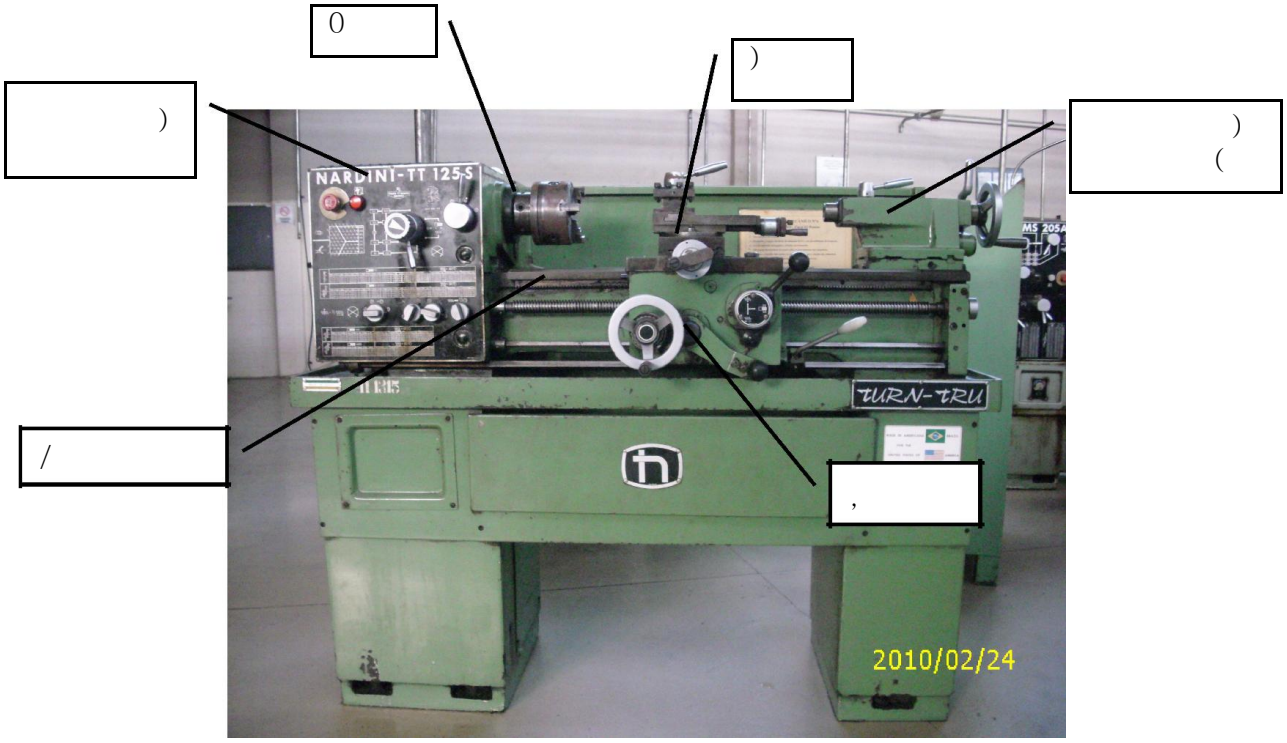

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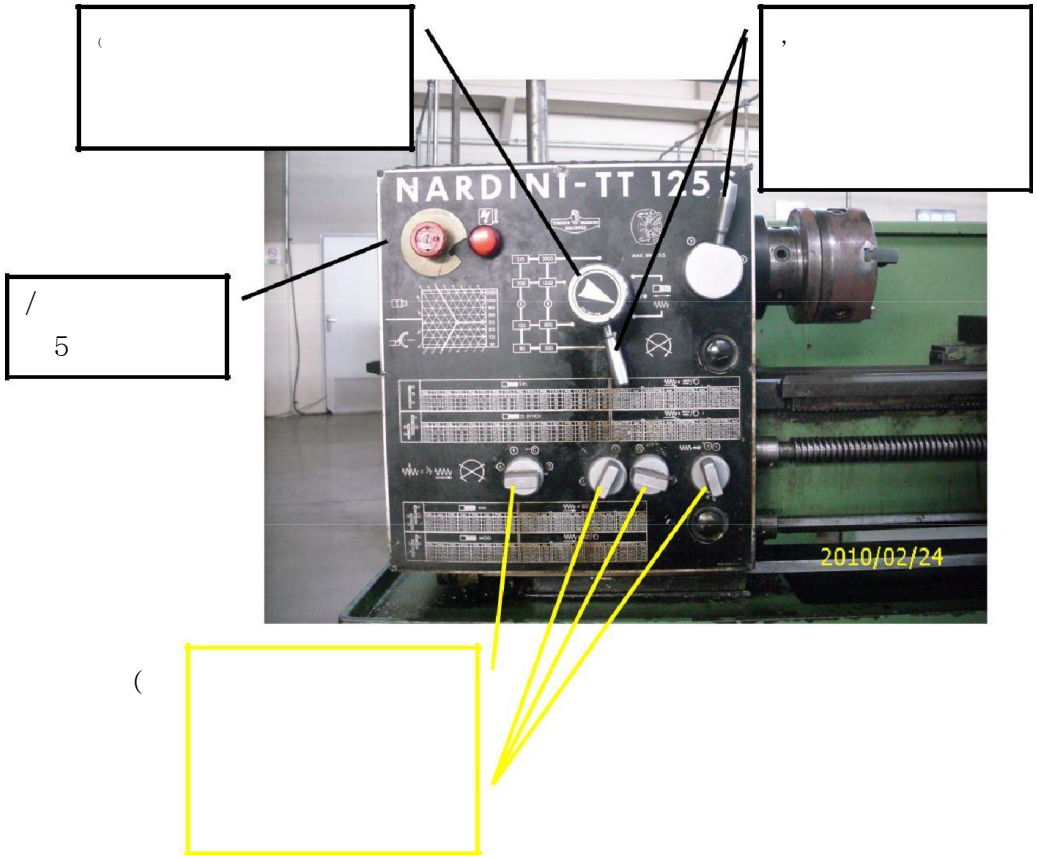

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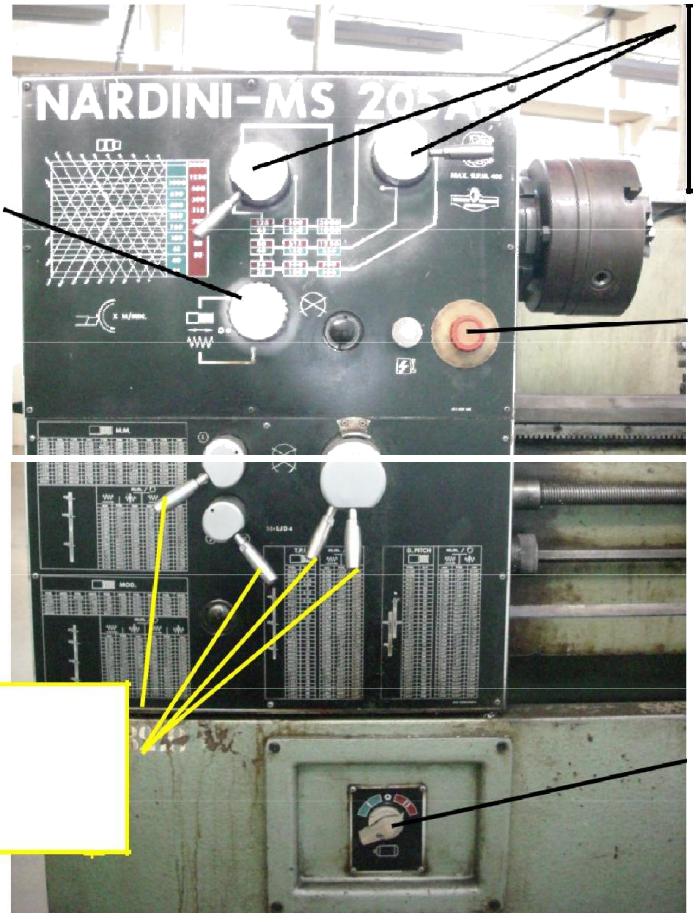

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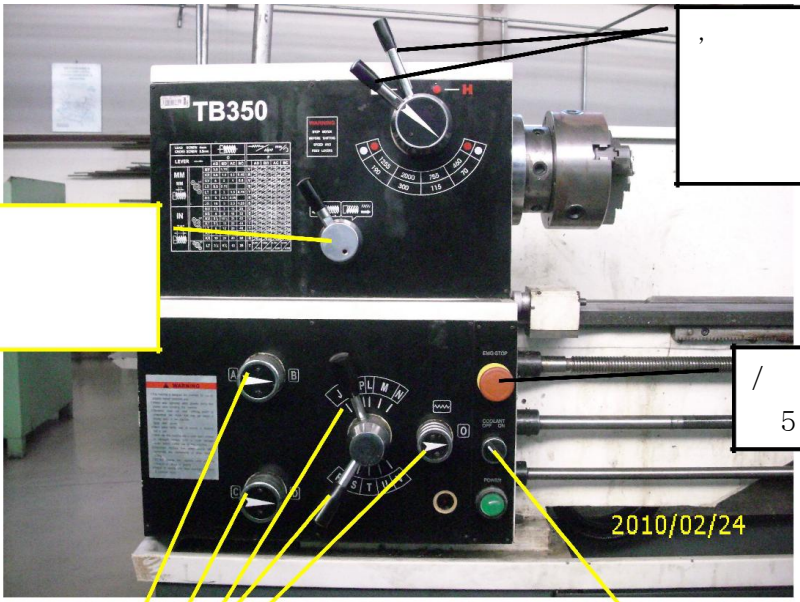

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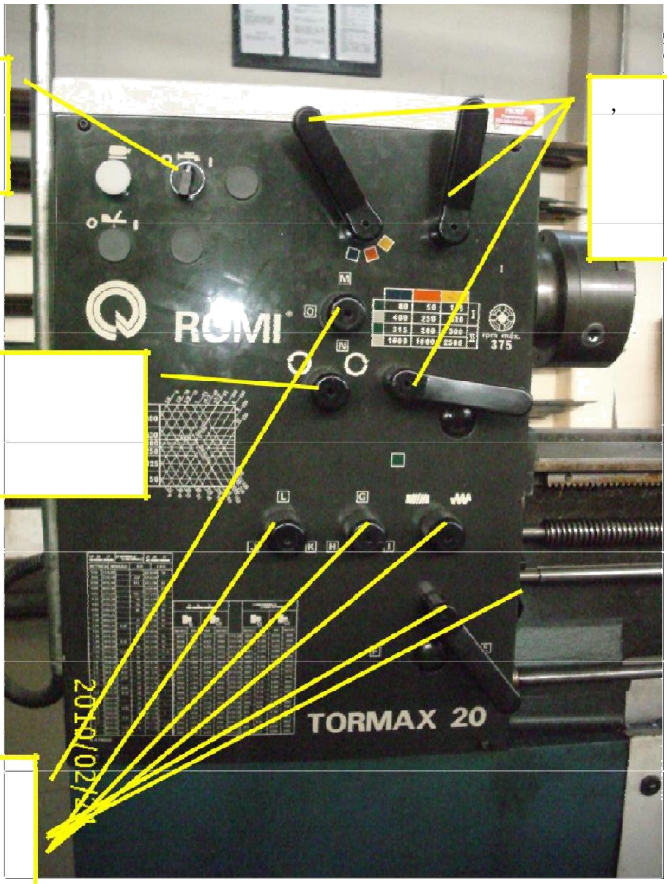

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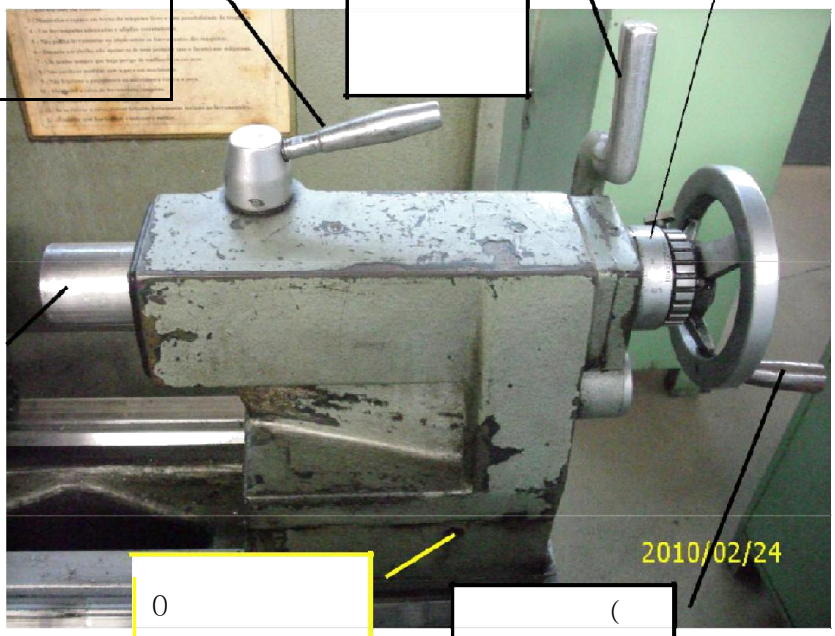

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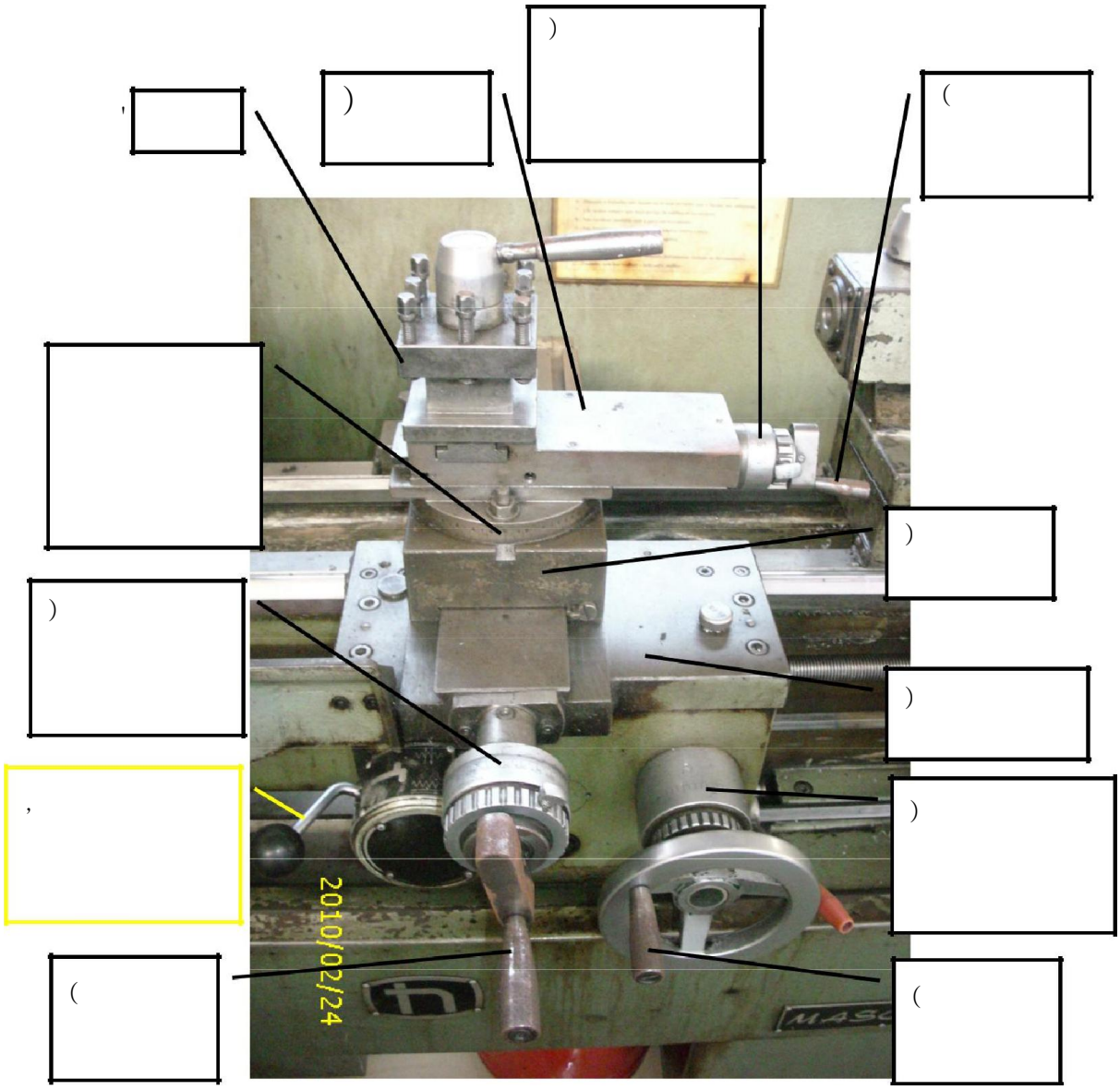

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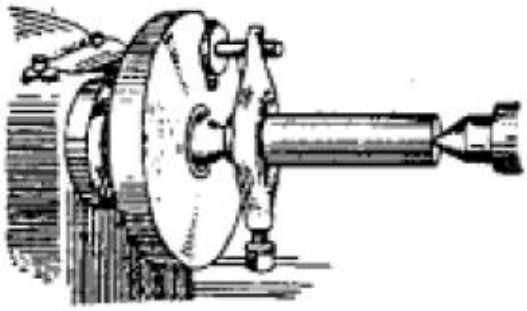

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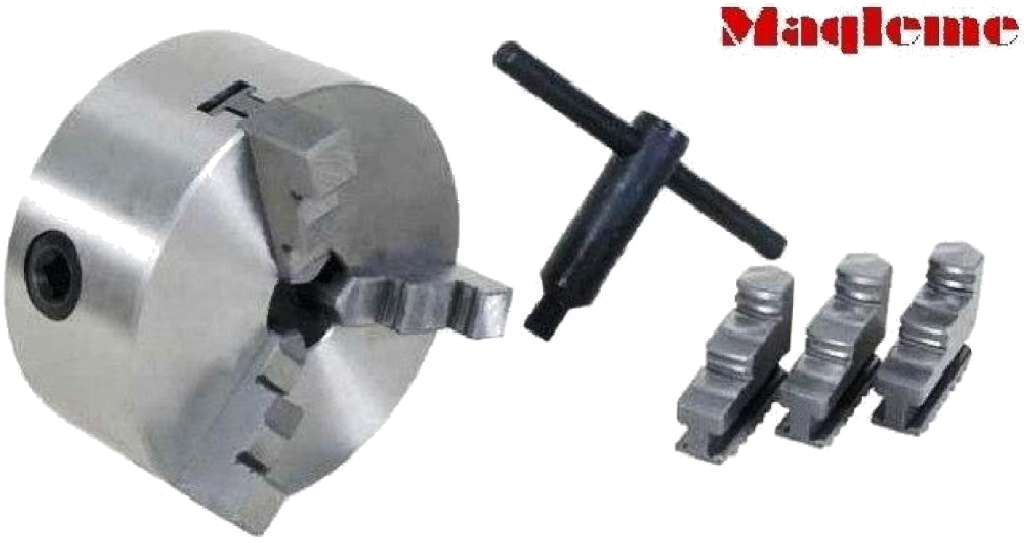

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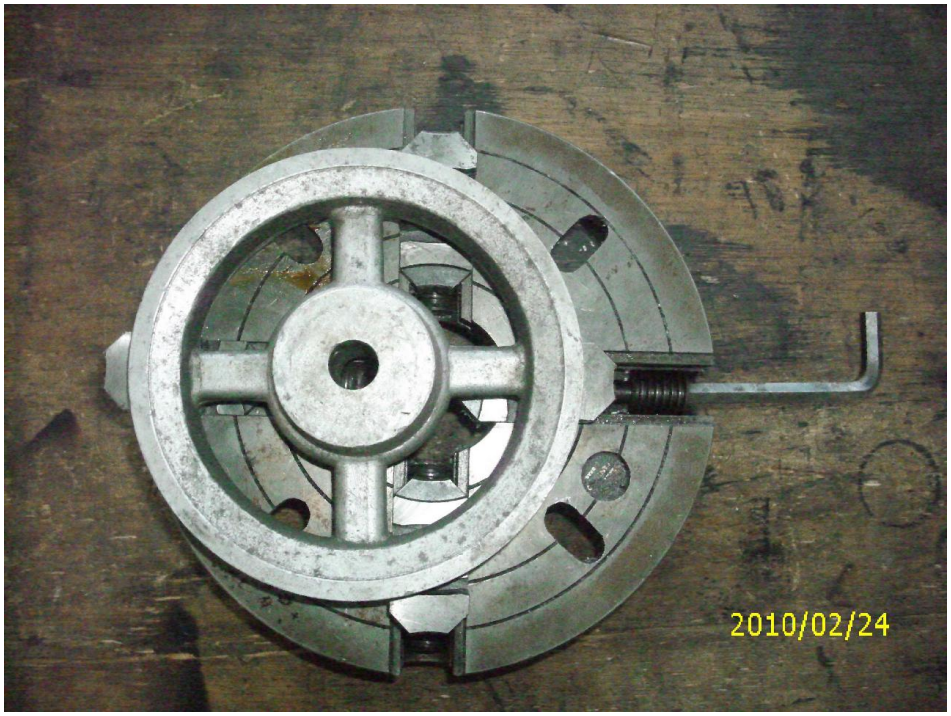

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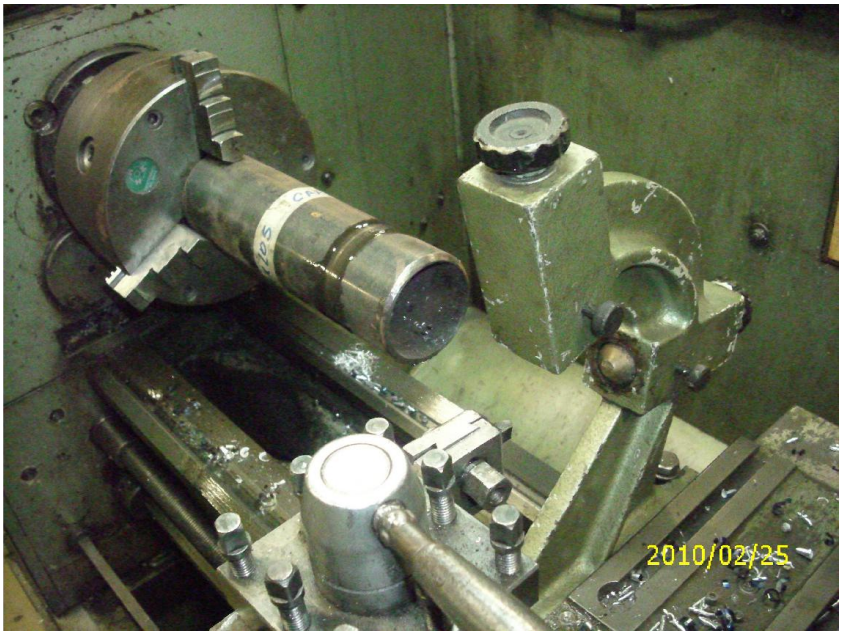

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TABELA DE VELOCIDADE DE CORTE (V) PARA O TORNO (EM METROS POR MINUTO)					
MATERIAIS	FERRAMENTAS DE AÇO RÁPIDO			FERRAMENTAS DE CARBONETO-METÁLICO	
	DESBASTE	ACABAMENTO	ROSCAR RECARTILHAR	DESBASTE	ACABAMENTO
AÇO 1020	25	30	10	200	300
AÇO 1045	20	25	8	120	160
AÇO EXTRADURO 1060	15	20	6	40	60
FERRO FUNDIDO MALEÁVEL	20	25	8	70	85
FERRO FUNDIDO GRIS	15	20	8	65	95
FERRO FUNDIDO DURO	10	15	6	30	50
BRONZE	30	40	10-25	300	380
LATÃO E COBRE	40	50	10-25	350	400
ALUMÍNIO	60	90	15-35	500	700
FIBRA E EBONITE	25	40	10-20	120	150

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$$Vc = \frac{\pi \cdot d \cdot n}{1000} \ (m / \min)$$

$$d = diametro \quad em \quad mm$$

$$n = rotação \quad em \quad rpm$$

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$$n = \frac{1000 \cdot Vc}{\pi \cdot d} \ (rpm)$$

$$Vc = Velocidade \ de \ Corte \ (m / \min)$$

$$d = diametro \ em \ mm$$

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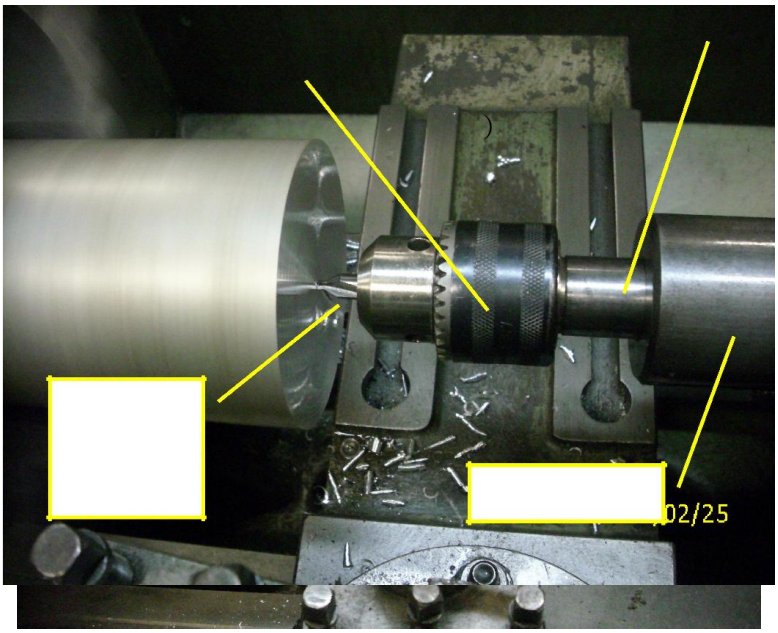

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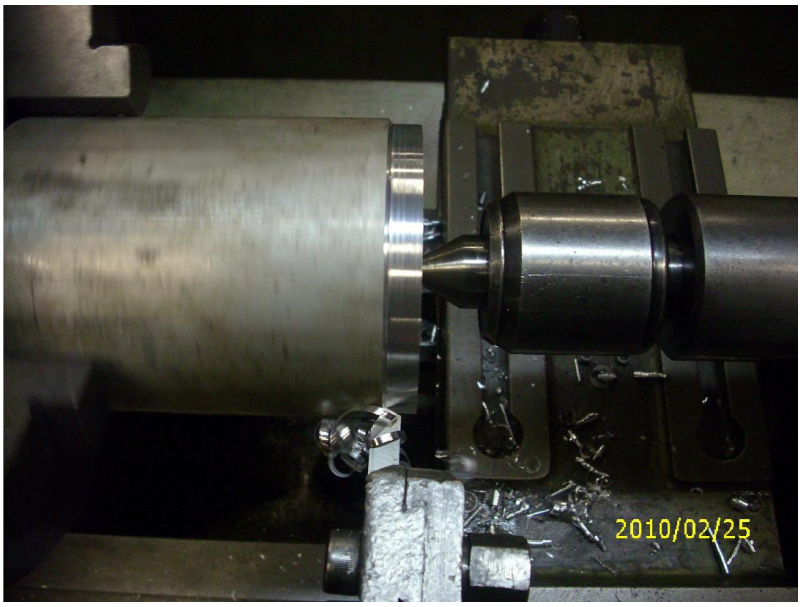

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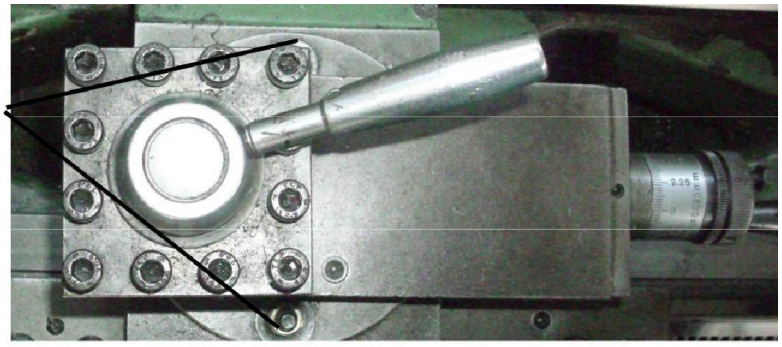

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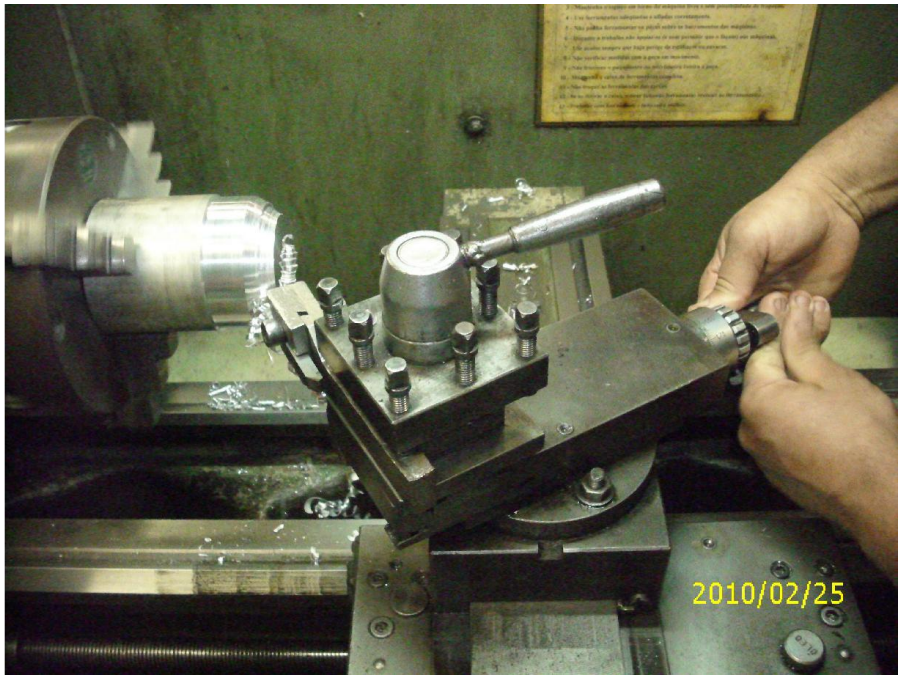

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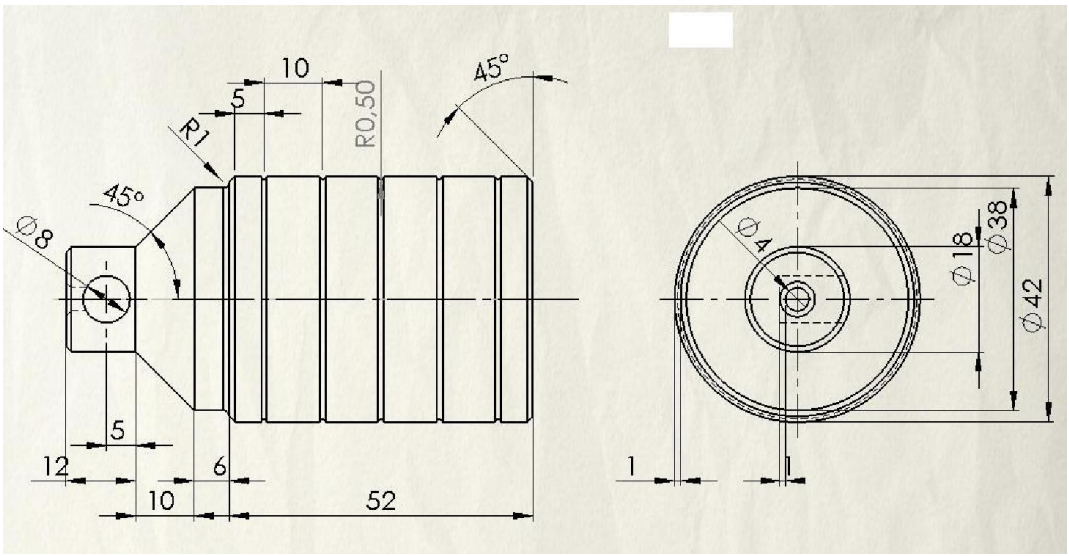

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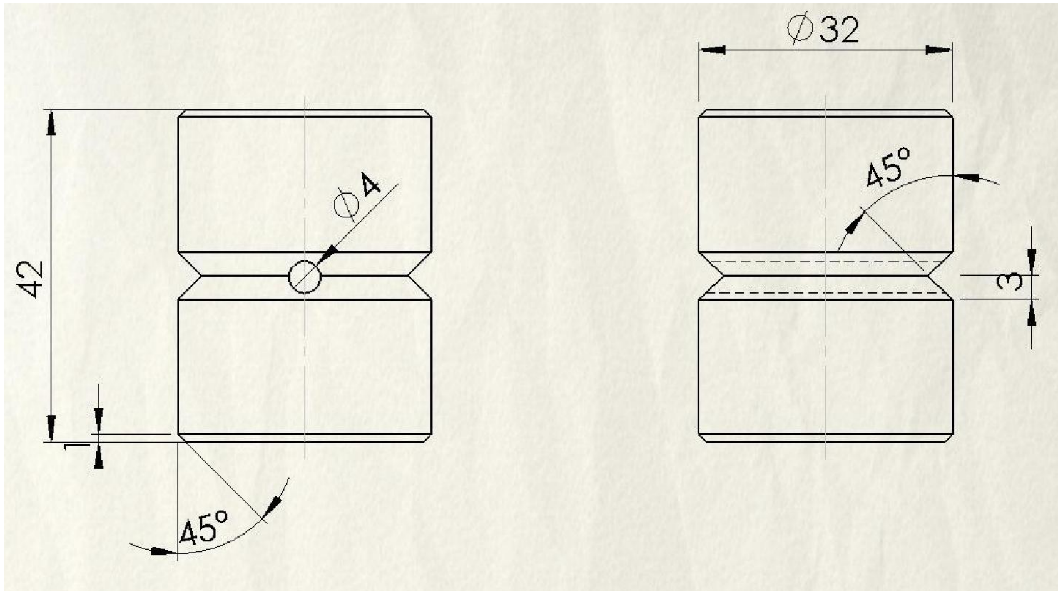

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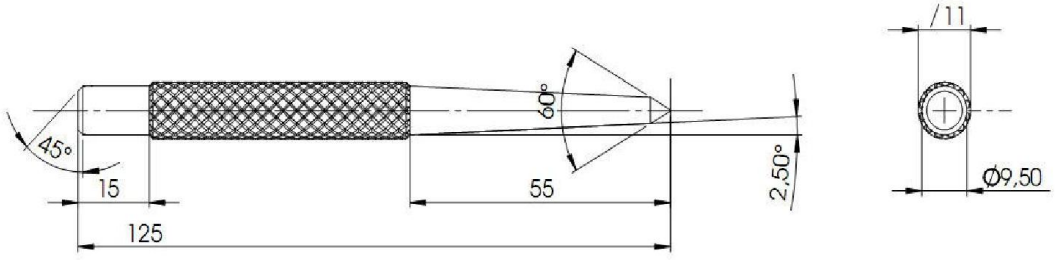

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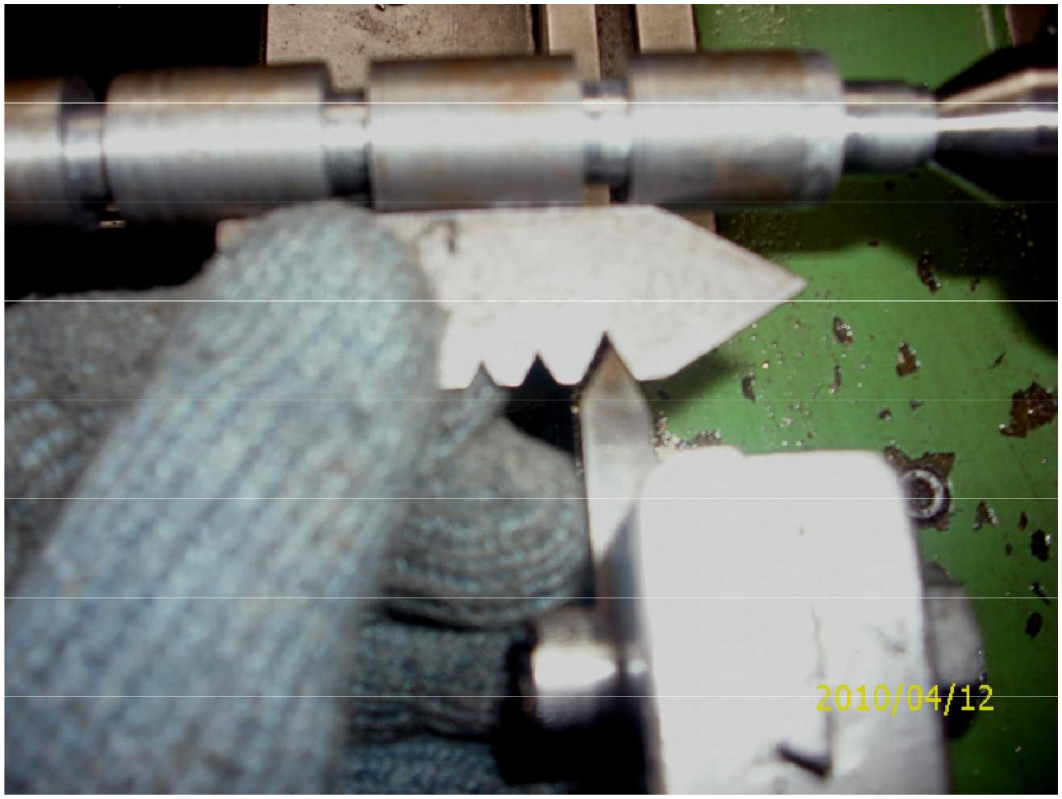

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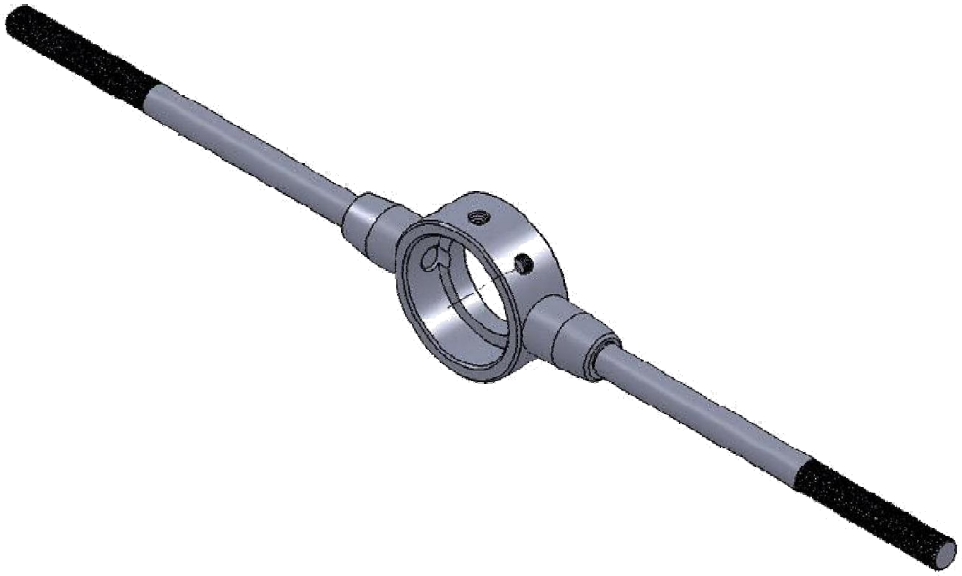

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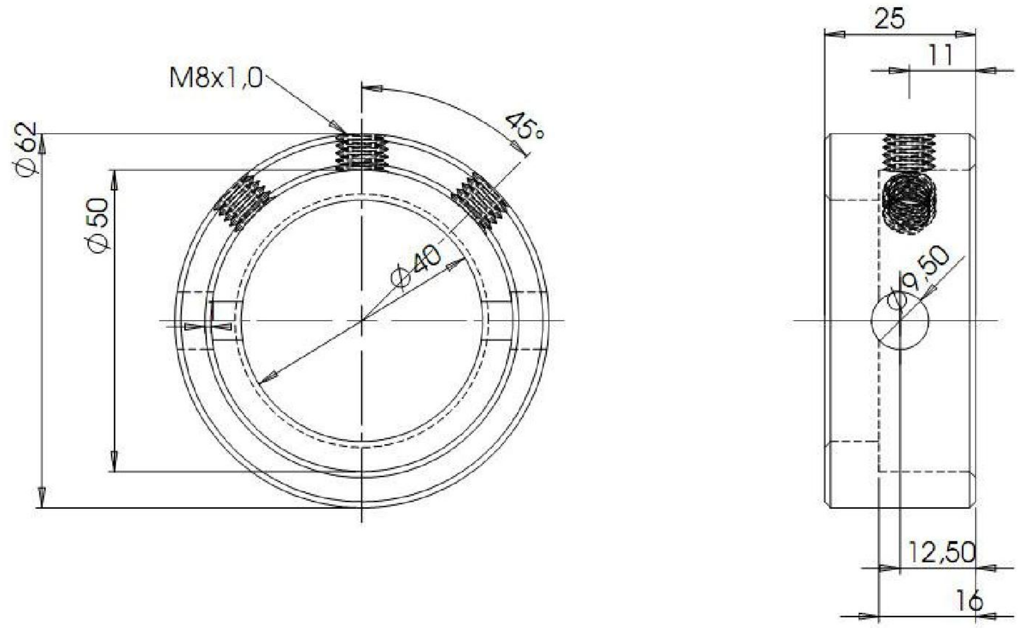

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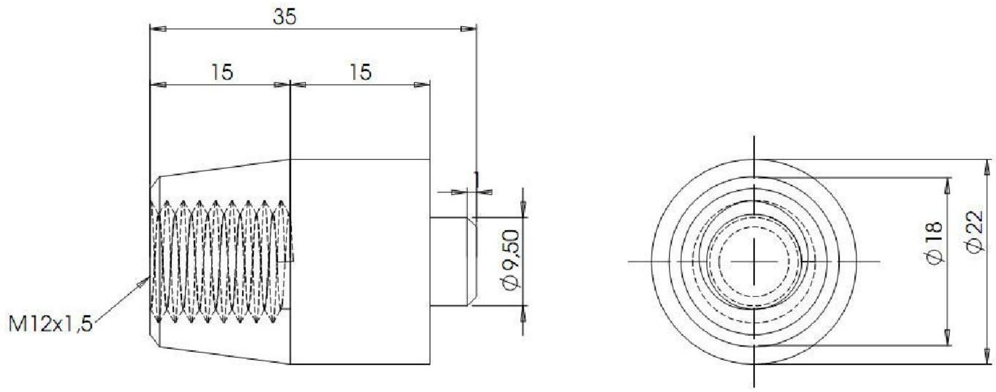

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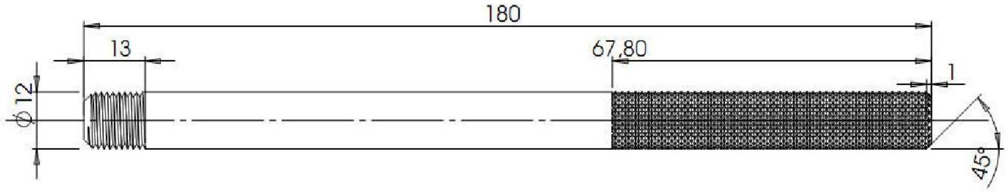

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