

FRESATURA (superf.)

$$s_{max} = a_z \cdot \sin \varphi$$

$$s_{max} = \frac{V_a}{n \cdot Z} \cdot \sin \varphi$$

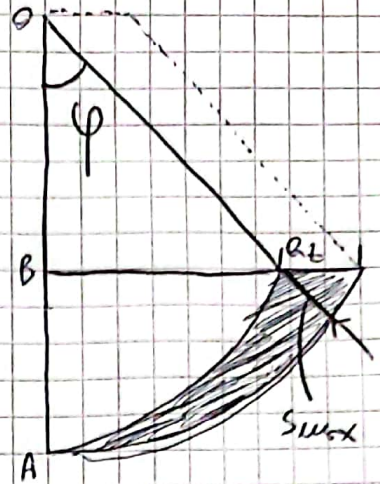
$$OB = \frac{D}{2} - p = \frac{D}{2} \cos \varphi$$

$$V_a = a_z \cdot n \cdot Z$$

mm giro n° denti

$$AB = p$$

$$OA = \frac{D}{2}$$



$$\cos \varphi = 1 - \frac{2p}{D} \rightarrow \sin \varphi = \sqrt{1 - \left(1 - \frac{2p}{D}\right)^2}$$

$$p \ll D \Rightarrow \sin \varphi = 2\sqrt{\frac{p}{D}} \rightarrow s_{max} = \frac{2V_a}{n \cdot Z} \sqrt{\frac{p}{D}}$$

$$S_{max} = s_{max} \cdot l \quad \text{resistente}$$

lunghezza

velocità

$$T_{max} = p_t \cdot S_{max}$$

forza

$$W_{max} = \frac{T_{max} \cdot v}{60 \cdot 1000}$$

potenza

FRESATURA (prof.)

$$T = p_t \cdot Z \cdot S$$

denti in presa

proprietà di
pennata

$$S = p \cdot a_z$$

$$T = p_t \cdot Z; p \cdot a_z$$

$$W = \frac{T \cdot v}{60 \cdot 1000}$$