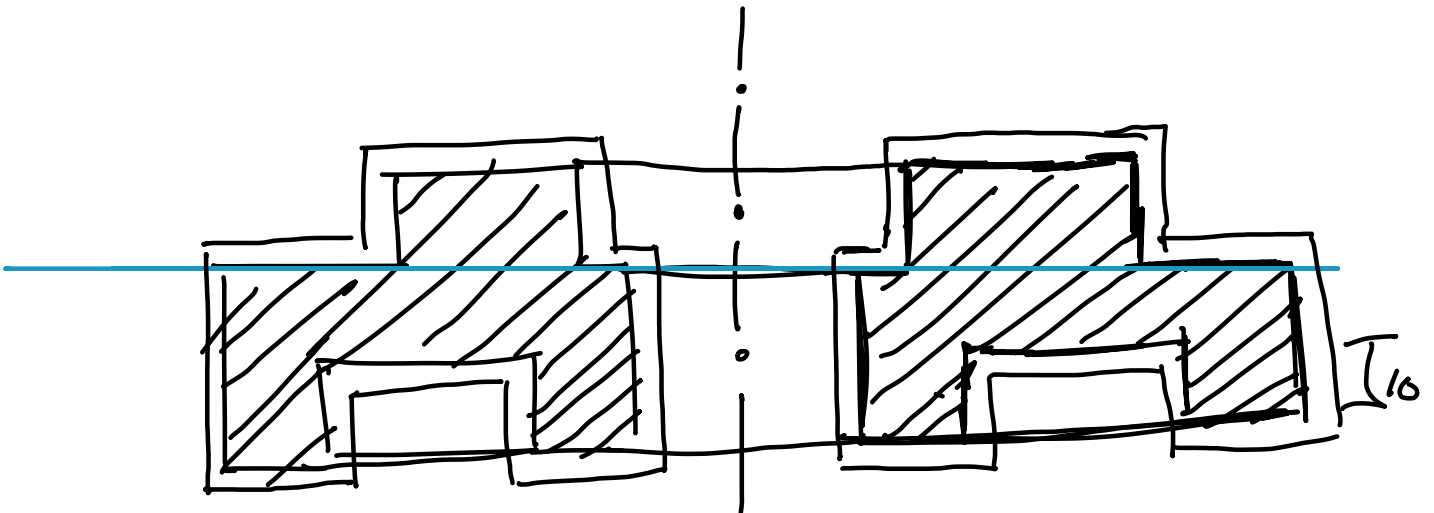


Esercitazione 04 → Progettazione del modello.

pg. 66 studio di fattibilità

Esercizio 1

- Alluminio
- Troviamo sistema di alimentazione e sistema di idrata



Dato

$\downarrow S \rightarrow$ sovrappallo = 1,5 mm

$r_e \rightarrow$ ritiro lineare = 1,3%

Da tabelle

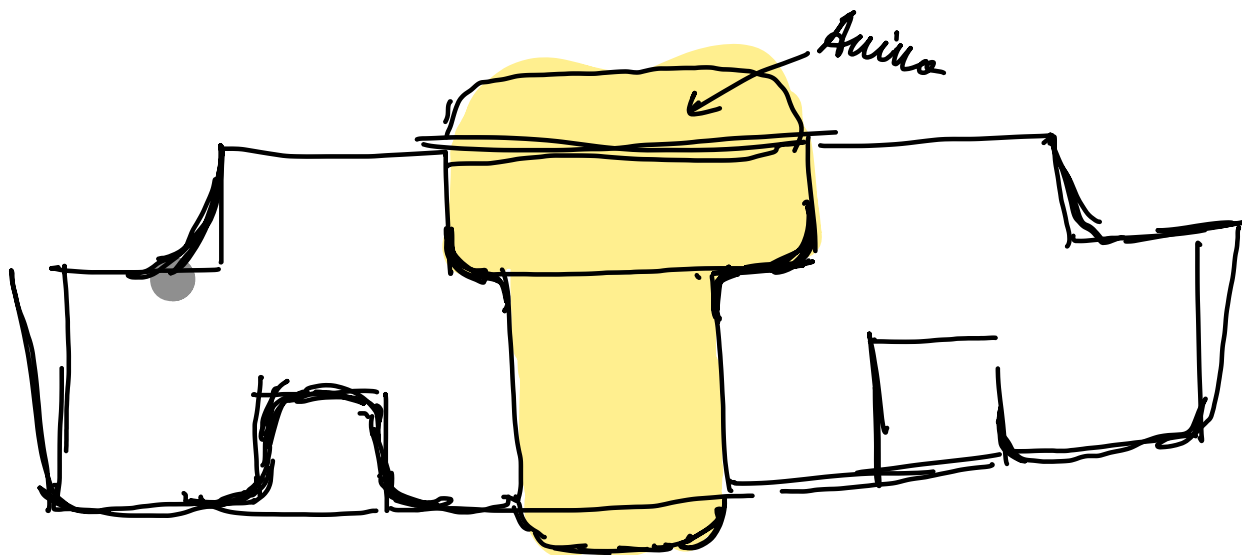
Tetti e due i lati

$r \cdot Dim_{\perp}$

	Dim_0	Sovrapallo	Dim_{\perp}	Ritiro	Quota Modello	Quota Modello Annotata
Perdita interno	60	+1,5 +1,5	63	0,819	63,819	64
	30	-0,5 -1,5	27	0,315	27,315	27

Interni	20	-1,5 -1,5	17	0,221	17,221	17
	40	+1,5 +1,5	43	0,559	43,559	44
	70	-1,5 -1,5	67	0,871	67,871	67
	90	+1,5 +1,5	93	,209	44,209	95
	10	-1,5 +1,5	10	,13	10,13	10
	20	+1,5 +1,5	23	,199	23,199	23
	30	+1,5 +1,5	33	,429	33,429	34

Sottostima per interni
Sovrastima per esterni



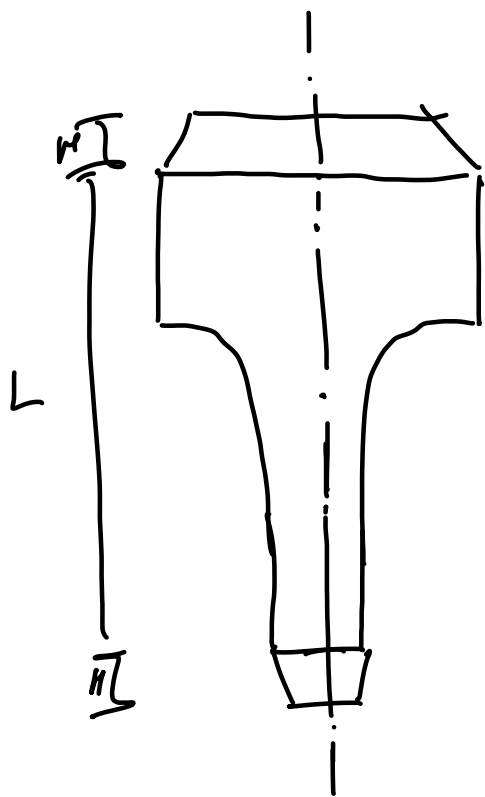
Aggiungiamo d'angoli 'distorsione e raggi'

di rapporto

con ariano

	Dim	Modelli
	Ø 30	27
	Ø 20	17
Altezza	→ 30	34

Dimensioni
nuove per ariano
per pezzi
sovradimensionati

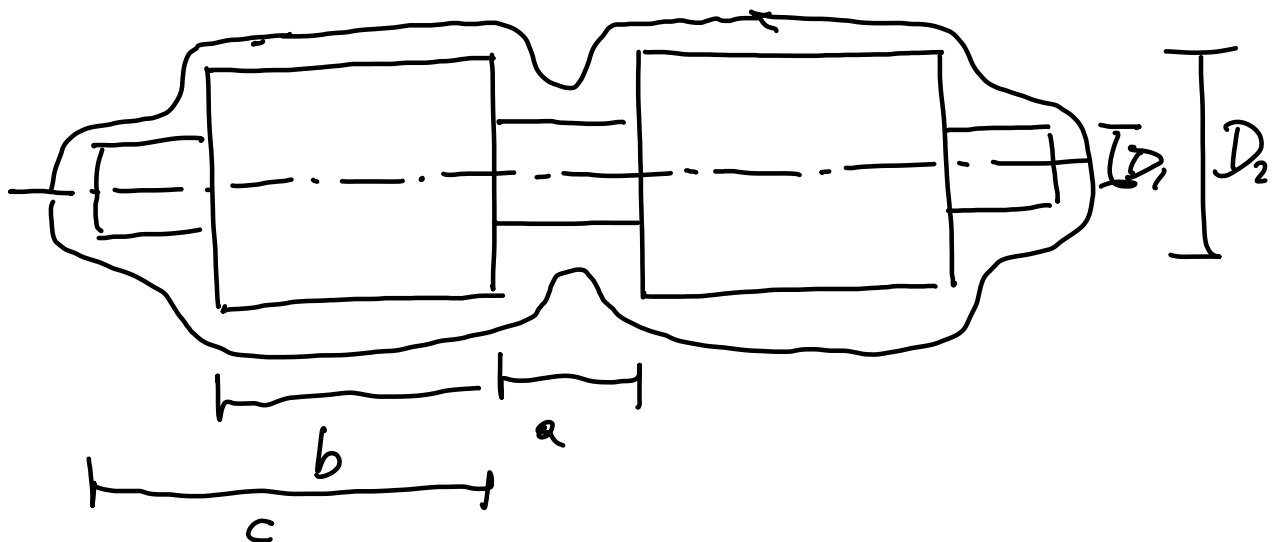


$$L = 34 \text{ mm}$$

$$H = \frac{1}{3} \cdot L = 11,3 \text{ mm}$$

$$H = 12 \text{ mm}$$

Esercizio 8 -



$$D_{s \text{ NEW}} - (D_1 + s + s)(1 + 0,05) = 255,33 \approx 256 \text{ mm}$$

$$D_2 \rightarrow (D_2 + s + s)(1 + 0,01) = 508,3 \approx 509 \text{ mm}$$

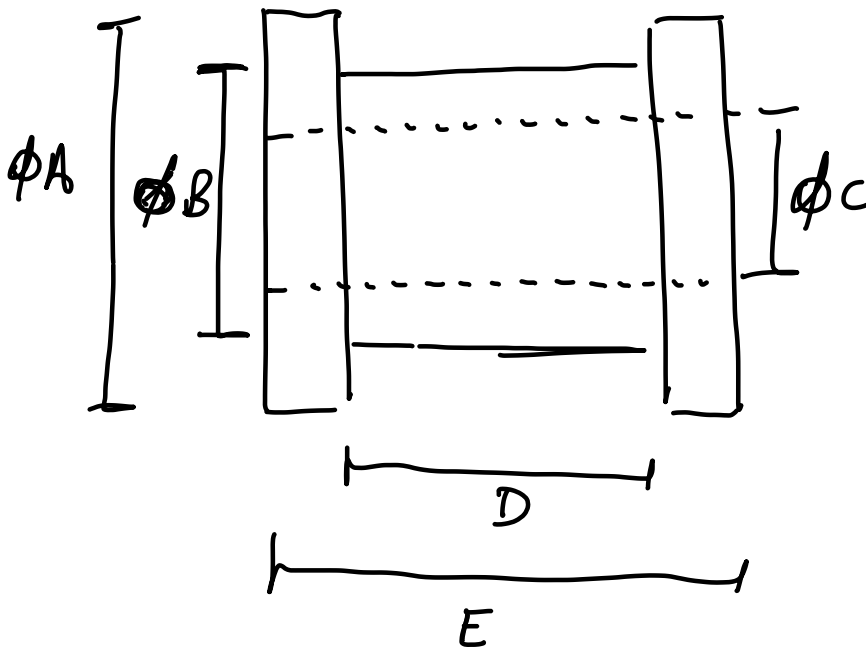
$$a \rightarrow (a - s - s)(1 + 0,05) = 198,97 \approx 198$$

Interno \downarrow guarniti

$$b = (b+s+s)(1+0,01) = 508,63 \approx 509 \quad \begin{array}{l} \text{diminuindo ou aumentando} \\ \text{de metalho ou menos} \end{array}$$

$$c = (c+s+s)(1+0,03) = 912,3 \approx 913 \text{ mm}$$

Exercício 9



$$s = 1,5$$

$$r = 2,5 \%$$

$$A \rightarrow A(1+0,025) = 204,2 \approx 205$$

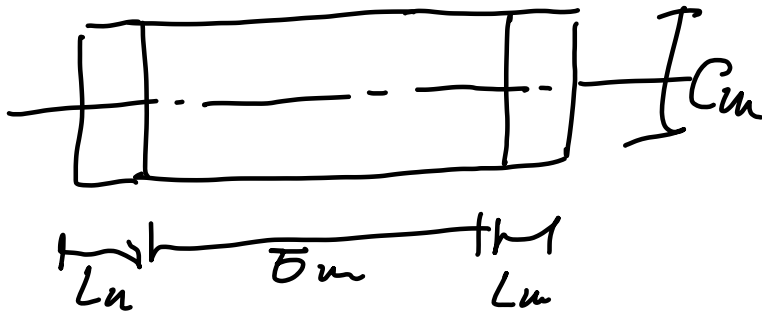
$$B \rightarrow B(1+0,021) = 163,36 \approx 164$$

$$C \rightarrow C(1+0,021) = 122,52 \approx 122$$

$$D \rightarrow D(1+0,021) = 102,3 \approx 102 \text{ mm}$$

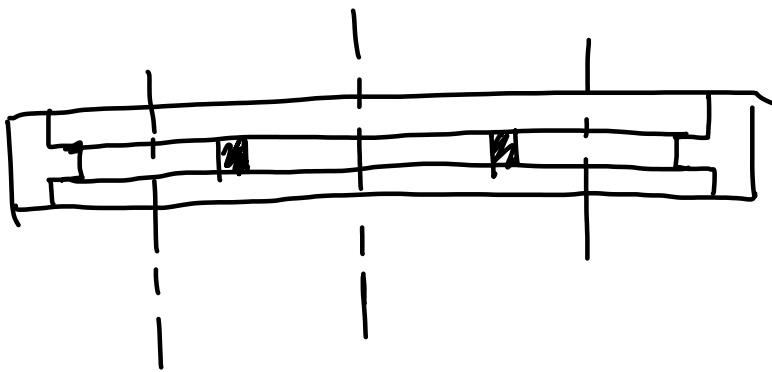
$$E \rightarrow (E+s+s)(1+0,021) = 146,003 \rightarrow 147$$

Alina:



$$L_m = \frac{1}{3} B_m = 49$$

Esercizio 10



$$a_m = (a + s + s)(1 + r) = 6084,888 \approx 6085 \text{ mm}$$

$$b_m = (b - s - s)(1 + r) = 5565,322 \approx 5565$$

$$c_m = (c - s - s)(1 + r) = 2019,922 \approx 2019$$

$$d_m = d(1 + r) = 2152,625 \approx 2153$$

↳ non cambierà con sorme metalliche

$$e_m = (e - s - s)(1 + r) = 1005,922 \approx 1006$$

$$f_m = (f + s + s)(1 + r) = 1019,078 \approx 1020 \text{ mm}$$

$$g_m = (g + s + s)(1 + r) = 512, 576 = 513$$