$$egin{aligned} M_q &\coloneqq
ho ullet Q = \left(5.115 ullet 10^3
ight) m{m} ullet m{kgf} \ P &\coloneqq 16 \ m{mm} \ m &\coloneqq 125 \ m{mm} \end{aligned}$$

$$i \coloneqq \frac{0.8 \ m}{P} = 6.25$$

$$G_g \coloneqq 200 \; \pmb{kgf}$$

$$G_i \coloneqq \frac{G_u + G_g}{9.81 \frac{\textbf{m}}{\frac{\textbf{m}}{2}}} a_{max} = 233.53 \text{ kgf}$$

$$\begin{vmatrix} G_i \\ |G_u \end{vmatrix} \cdot 100 = 0.425$$

$$d_3 \coloneqq 122.4 \ \boldsymbol{mm}$$

$$\sigma \coloneqq \frac{G_u + G_g + G_i}{\frac{\boldsymbol{\pi} \cdot \left\langle 1.2 \cdot d_3 \right\rangle^2}{4}} = 3.366 \frac{\boldsymbol{kgf}}{\boldsymbol{mm}^2}$$

$$au \coloneqq 1.5 \cdot \frac{G_u + G_i + G_g}{\pi \cdot d_3 \cdot P \cdot i} = 2.225 \frac{\textbf{kgf}}{\textbf{mm}^2}$$

$$au \coloneqq 1.5 \cdot \frac{G_u + C}{\pi \cdot d_3}$$

$$\frac{\pi \! \cdot \! d_3 \! \cdot \! P \! \cdot \! i}{mm}$$

$$\pi \cdot d_3 \cdot P \cdot d_3 \cdot P \cdot d = 140 \ \textit{mm}$$

$$140 \ mm$$
 $G_0 + G_0 + G_i$ kaf

$$d \coloneqq 140 \ \textit{mm}$$

$$\sigma \coloneqq \frac{G_u + G_g + G_i}{i \cdot \frac{\pi \cdot \left(d^2 - d_3^2\right)}{2}} = 2.516 \ \frac{\textit{kgf}}{\textit{mm}^2}$$
 Verifica a schiacciamento dei filetti

$$=140 \ \textit{mm}$$
 $G_u + G_a + G_i$ kaf kaf

Verifica nucleo della vite a trazione

Verifica a strappamento dei filetti