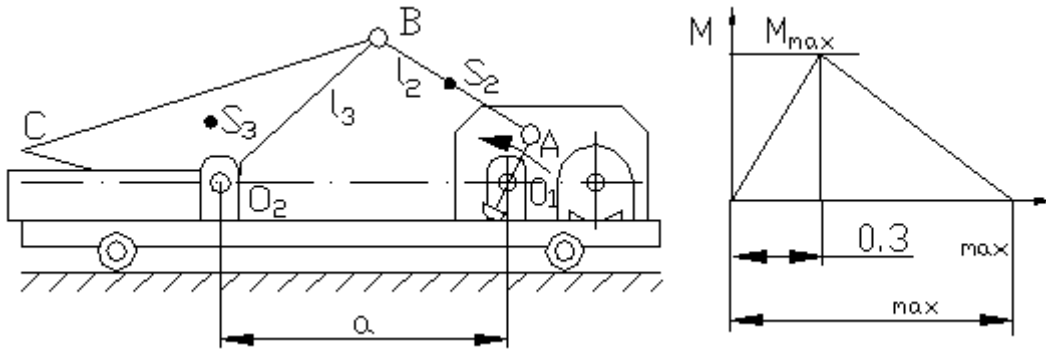


ЗАВДАННЯ №7

на курсовий проект по ТММ

Ножиці алігаторні



$$\alpha = \varphi_3 - \arccos \frac{(l_2 - l_1)^2 - a^2 - l_3^2}{2al_3} - \pi; \quad J_{S_3} = m_3 l_3^2 / 10; \quad J_{S_2} = m_2 l_2^2 / 12;$$

$$J_{\text{ПМ}} = (5 \dots 10) J_{10}; \quad m_3 = 8m_1; \quad m_2 = 2.5m_1; \quad OS_1 = 0; \quad O_2C = O_2B; \quad \delta = 1/15;$$

| № | виконавчий механізм | | | | | | | | | | | | | | | тип.р. | тип.к. | тип.з. |
|----|---------------------|------------------|------|-----------------|----------------|------------------|------------------|----------------|----------------|----------------|-----|------------------|------------------|----------------|------------------|--------|--------|--------|
| | a | O ₁ A | AB | BO ₂ | m ₁ | J ₁₀ | M _{max} | n ₁ | z _a | z _b | m | Φ _{від} | Φ _{пов} | Φ _д | Γ _{min} | | | |
| | мм | мм | мм | мм | кг | кгм ² | нм | об/хв | | | мм | градуси | | | | | | |
| 1 | 950 | 160 | 1050 | 900 | 9 | 0,2 | 1500 | 30 | 15 | 26 | 3 | 70 | 40 | 5 | 65 | 1 | 2 | 2 |
| 2 | 1000 | 165 | 1100 | 900 | 10 | 0,22 | 1600 | 35 | 14 | 27 | 3,5 | 80 | 75 | 10 | 70 | 2 | 3 | 3 |
| 3 | 1050 | 170 | 1150 | 950 | 11 | 0,24 | 1700 | 40 | 13 | 28 | 4 | 70 | 70 | 10 | 75 | 3 | 4 | 4 |
| 4 | 1100 | 175 | 1200 | 970 | 12 | 0,26 | 1400 | 45 | 12 | 29 | 4,5 | 70 | 45 | 5 | 75 | 4 | 1 | 5 |
| 5 | 1150 | 140 | 1250 | 1000 | 13 | 0,28 | 2100 | 50 | 11 | 30 | 5 | 80 | 85 | 5 | 65 | 1 | 2 | 1 |
| 6 | 1200 | 200 | 1300 | 1100 | 14 | 0,3 | 2300 | 45 | 12 | 32 | 5 | 90 | 75 | 5 | 70 | 2 | 3 | 2 |
| 7 | 1250 | 210 | 1350 | 1120 | 15 | 0,32 | 2500 | 60 | 13 | 26 | 4,5 | 95 | 85 | 10 | 65 | 3 | 4 | 3 |
| 8 | 1280 | 220 | 1400 | 1100 | 15 | 0,34 | 3000 | 30 | 14 | 24 | 4 | 85 | 85 | 5 | 70 | 4 | 1 | 4 |
| 9 | 1220 | 230 | 1370 | 1050 | 14 | 0,36 | 2800 | 38 | 15 | 28 | 3,5 | 75 | 75 | 15 | 75 | 1 | 2 | 5 |
| 10 | 1180 | 225 | 1300 | 980 | 13 | 0,35 | 2600 | 35 | 16 | 29 | 3 | 70 | 75 | 20 | 75 | 2 | 3 | 1 |
| 11 | 1130 | 215 | 1250 | 1000 | 12 | 0,3 | 2500 | 30 | 11 | 35 | 5 | 80 | 80 | 16 | 65 | 3 | 4 | 2 |
| 12 | 1080 | 205 | 1160 | 950 | 11 | 0,28 | 2300 | 30 | 12 | 28 | 4,5 | 70 | 80 | 10 | 60 | 4 | 1 | 3 |
| 13 | 1020 | 195 | 1100 | 930 | 10 | 0,26 | 2000 | 35 | 13 | 17 | 4 | 75 | 85 | 5 | 60 | 1 | 2 | 4 |
| 14 | 380 | 185 | 1050 | 900 | 9 | 0,22 | 1800 | 40 | 14 | 26 | 3,5 | 85 | 80 | 5 | 65 | 2 | 3 | 5 |
| 15 | 1030 | 200 | 1110 | 970 | 10 | 0,25 | 2200 | 38 | 10 | 25 | 3 | 90 | 80 | 10 | 75 | 3 | 3 | 5 |