$$-F_{A12}\cdot\frac{d_1}{2} - F_{R12}\cdot a + B_z\cdot(a+b) = 0 \text{ solve}, B_z \rightarrow \frac{1}{2}\cdot\frac{F_{A12}\cdot d_1 + 2\cdot F_{R12}\cdot a}{a+b}$$

$M_{Nenn} := 1018.59N\cdot m$ $M_{Max} := 1324.17N\cdot m$ $d_1 := 250mm$ $\alpha_n := 20deg$ $\beta := 30deg$

$F_{T12} := 2\cdot\frac{M_{Max}}{d_1}$ $F_{A12} := F_{T12}\cdot\tan(\beta)$ $F_{R12} := F_{T12}\cdot\frac{\tan(\alpha_n)}{\cos(\beta)}$

$b_1 := 30mm$ $a := 25mm + \frac{b_1}{2}$ $b := 49.5mm + \frac{b_1}{2}$

$B_z := \frac{1}{2}\cdot\frac{F_{A12}\cdot d_1 + 2\cdot F_{R12}\cdot a}{a+b}$ $B_z = 9020.053\,N$