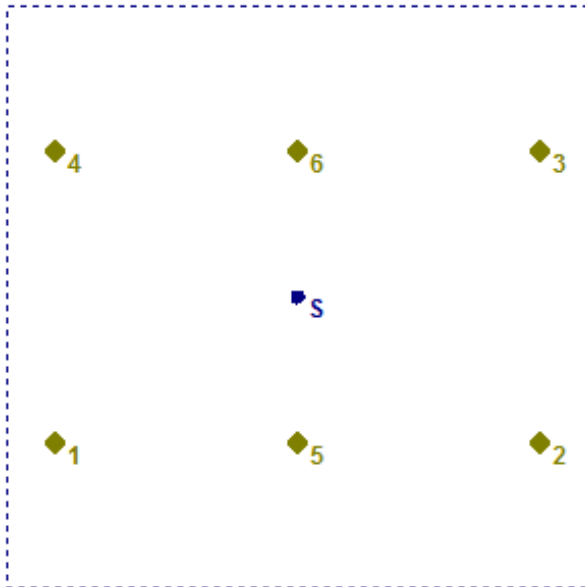


Position:

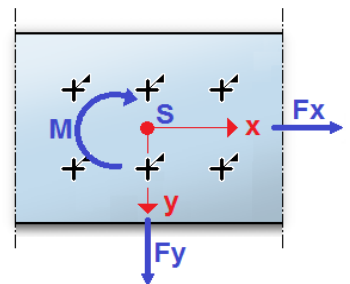
Ermittlung von Schraubenkräften



Systemwerte:

Anzahl Schrauben = 6

Schraube Nr.	x-Koordinate [mm]	y-Koordinate [mm]
1	-100,0	60,0
2	100,0	60,0
3	100,0	-60,0
4	-100,0	-60,0
5	0,0	60,0
6	0,0	-60,0



Belastung:

$F_x = 10,000 \text{ kN}$
 $F_y = 10,000 \text{ kN}$
 $M = 15,000 \text{ kNm}$

Berechnung:

$I_{p'} = 616,000 \text{ [cm}^2\text{]}$

Schraube Nr.	$F_{x,i} \text{ [kN]}$	$F_{y,i} \text{ [kN]}$	$F_{res,i} \text{ [kN]}$	$ \alpha \text{ [}^\circ\text{]}$
1	-12,944	-22,684	26,117	60,3
2	-12,944	26,017	29,059	63,5
3	16,277	26,017	30,689	58,0
4	16,277	-22,684	27,920	54,3
5	-12,944	1,667	13,051	7,3
6	16,277	1,667	16,362	5,8