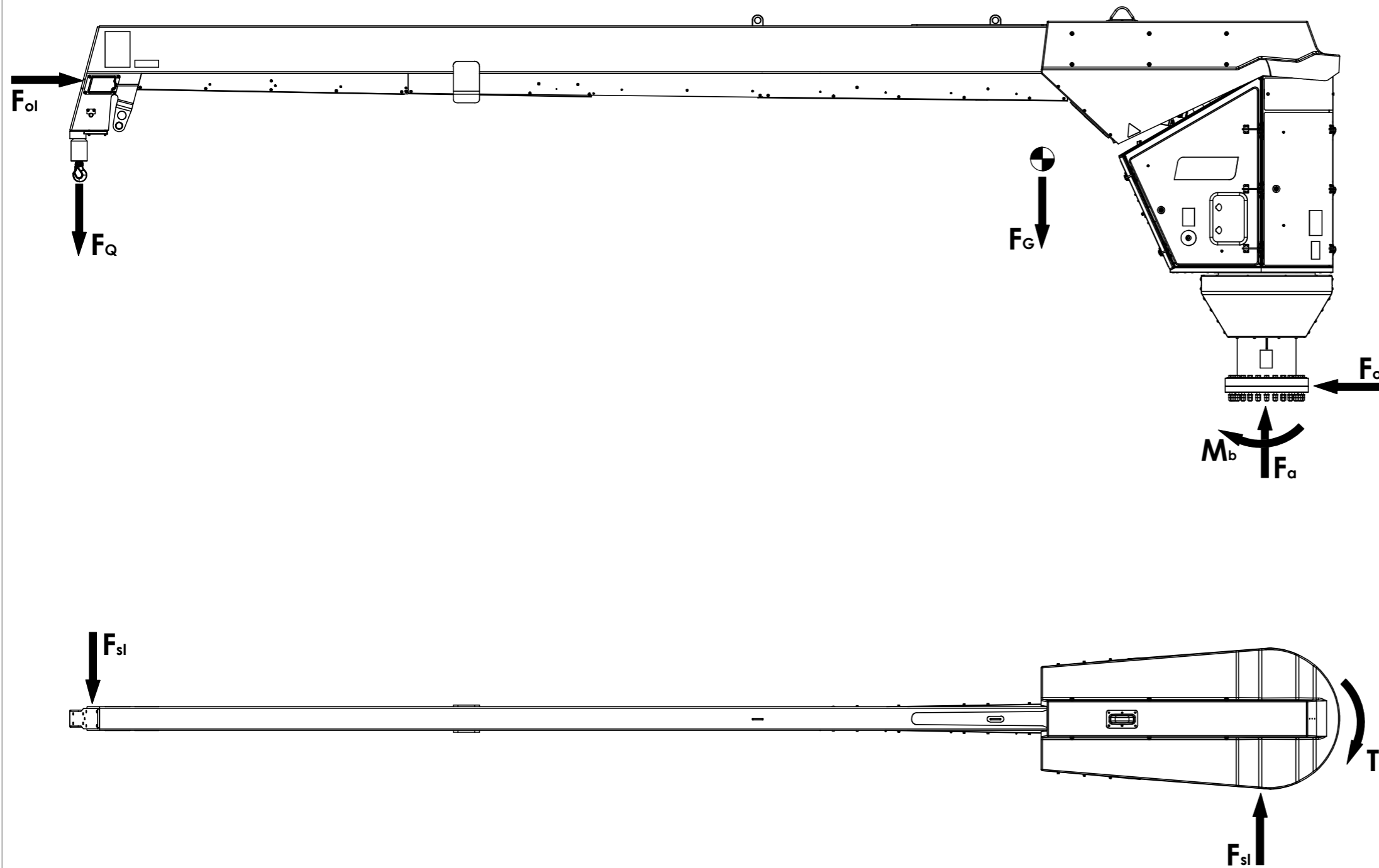


# Load Drw: No.1

# Load Drawing-In-Service



## Loads according to EN 13852-3

w.o. windloads  
EN 13852-3 Cranes - Loadcase A3

Rated Capacity: 1000 kg  
Crane deadload: 4800 kg

$F_G = 63,3$  kN  
 $F_Q = 21,9$  kN  
 $F_a = 85,2$  kN  
 $F_{ol} = 4,0$  kN  
 $F_{sl} = 2,0$  kN

$M_b = 358$  kNm  
 $T = 20,1$  kNm

Waveheight: 2,0 m  
Dynamic coefficient: 1,67  
Lifting height: 30 m

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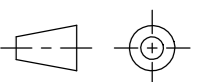
Designer: SIFA  
Date: 2024-05-02  
Version no: 00  
Description: Hercules 10,0-10



Beddingsvej 2  
DK - 6960 Hvide Sande  
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Part no: 9300001001

Scale: 1:100



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**Static Loads**

w.o. windloads  
w.o. Safety Factors

Rated Static Load Capacity: 2000 kg  
Crane deadload: 4800 kg

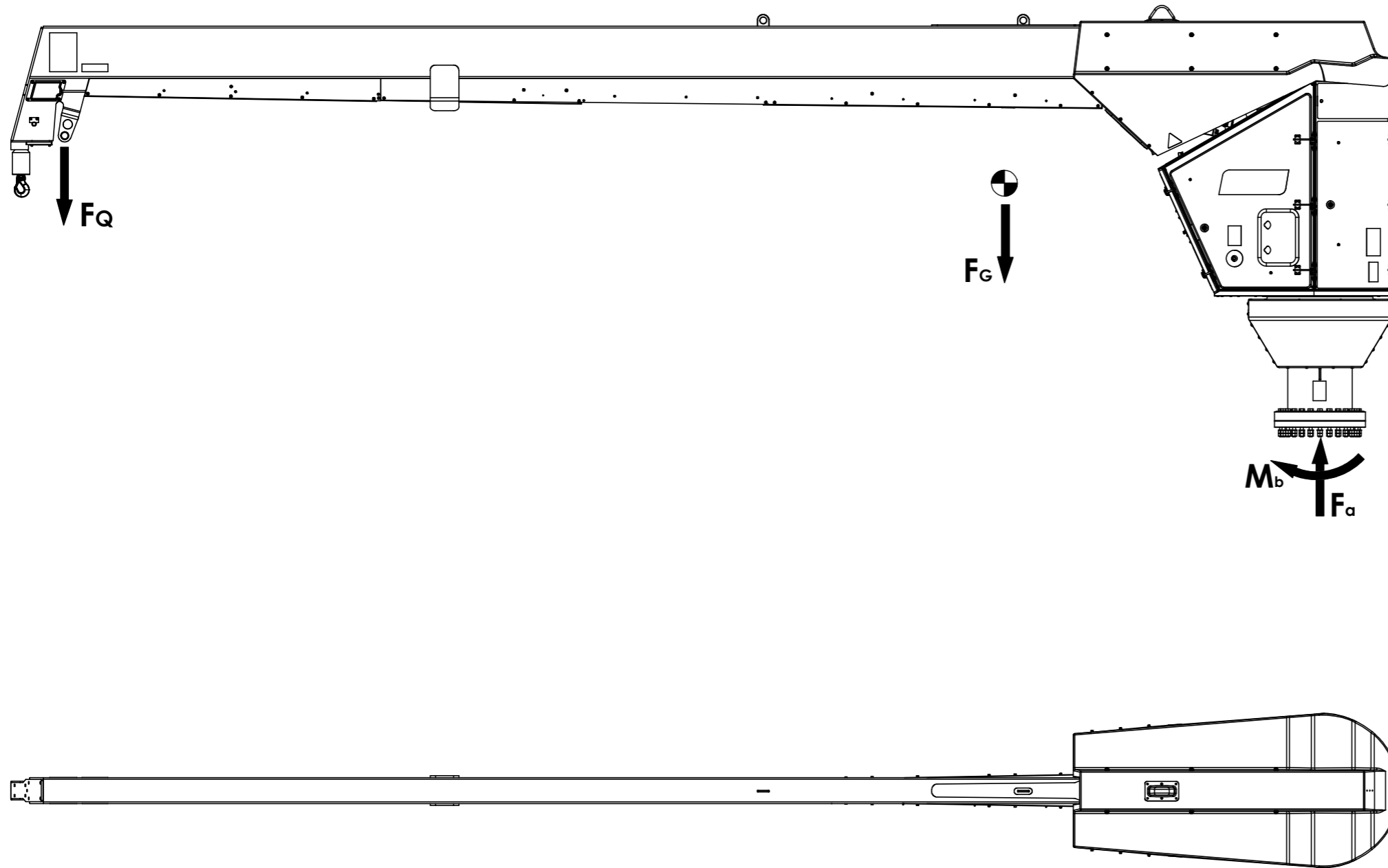
$F_Q = 31,6 \text{ kN}$

$F_G = 63,3 \text{ kN}$

$F_a = 94,8 \text{ kN}$

$M_b = 432 \text{ kNm}$

Dynamic coefficient: 1,2



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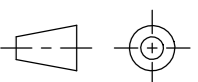
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Date: 2024-05-02  
Version no: 00  
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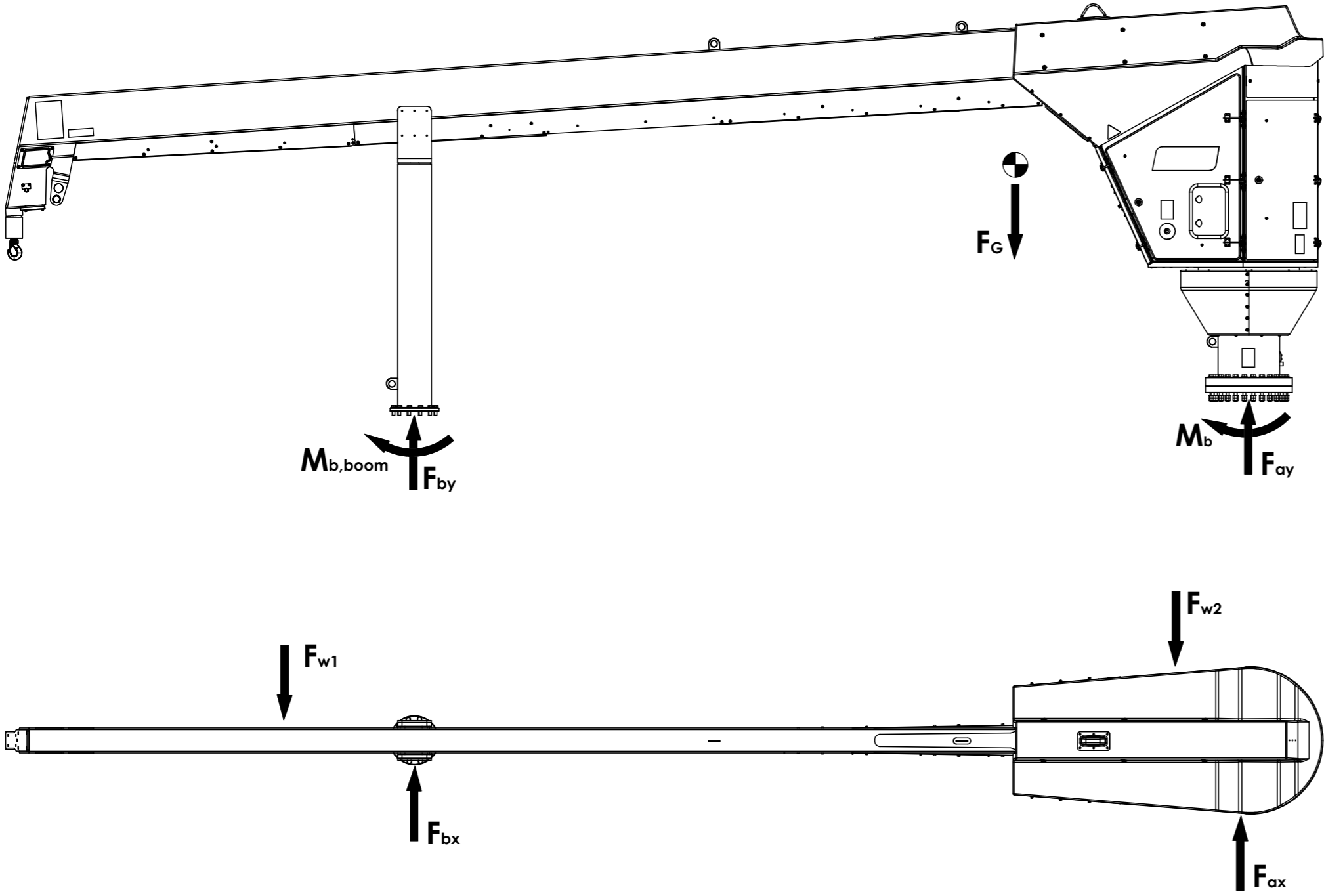
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Part no: 9300001001

Scale: 1:100



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**Loads according to EN 13852-3**

with windloads - 63 m/s + crane base acc. 2,75 m/s<sup>2</sup>  
 w.o. Safety Factor  
 EN 13852-3 Cranes - Loadcase C1

Rated Capacity: 0 kg  
 Crane deadload: 4800 kg

- $F_{w1} = 19,9 \text{ kN}$
- $F_{w2} = 17,4 \text{ kN}$
- $F_G = 51,8 \text{ kN}$
- $F_{ax} = 28,6 \text{ kN}$
- $F_{ay} = 51,8 \text{ kN}$
- $F_{bx} = 12,5 \text{ kN}$
- $F_{by} = 2,16 \text{ kN}$

$M_b = 177 \text{ kNm}$   
 $M_{b,boom} = 31 \text{ kNm}$

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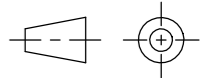
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|--------------|------------------|
| Designer:    | SIFA             |
| Date:        | 2024-05-02       |
| Version no:  | 00               |
| Description: | Hercules 10,0-10 |



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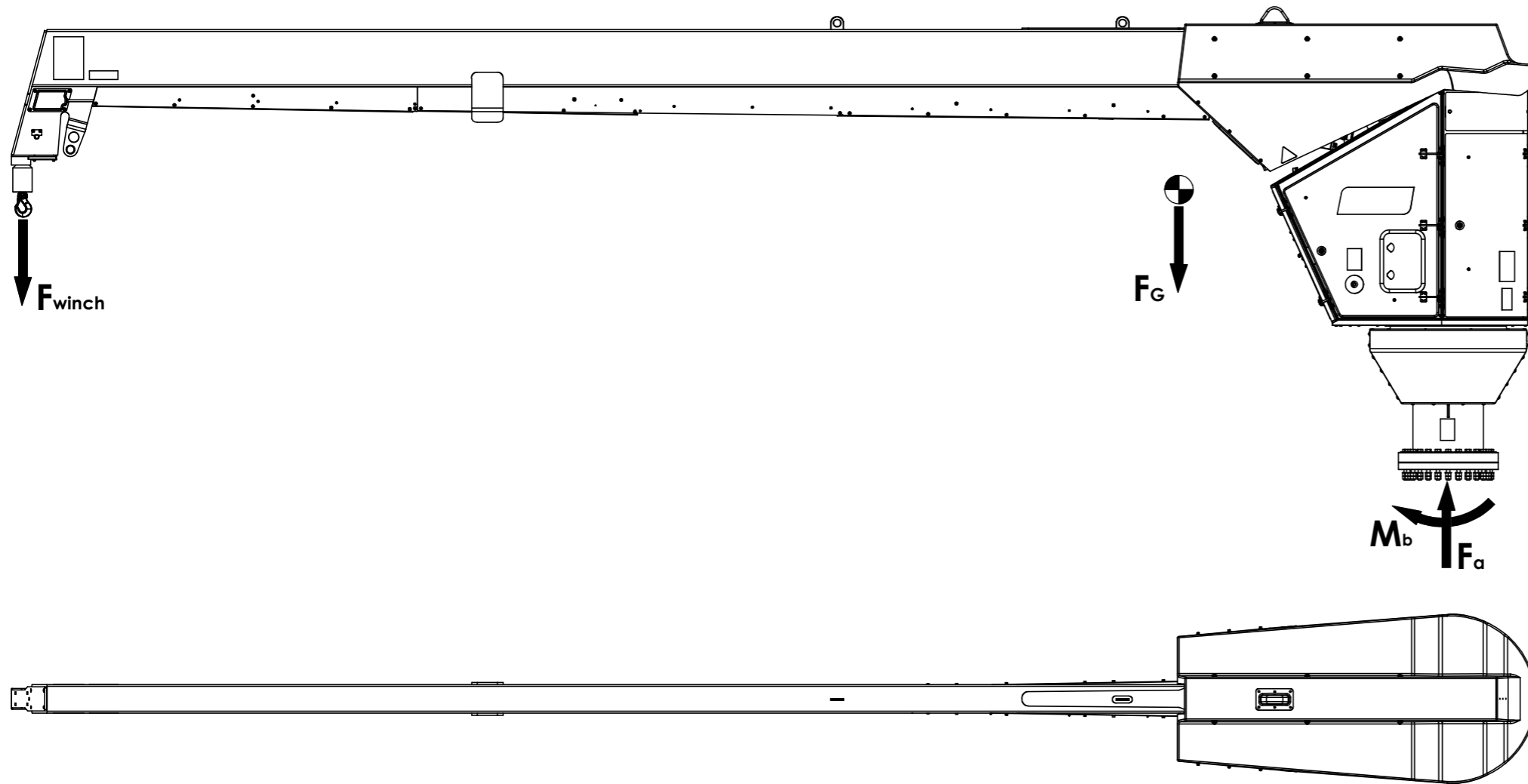
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**First Failure Loads on Bottom Flange from winch brake failure**

w.o. windloads  
w.o. Safety Factors

Rated Static Load Capacity: 0 kg  
Crane deadload: 4800 kg

$F_{winch} = 44,2 \text{ kN}$  (First Failure load - winch brake Fails First)  
 $F_{winch.30\%} = 57,5 \text{ kN}$  (Minimum failure load on Flange from winch)  
 $F_G = 51,8 \text{ kN}$   
 $F_a = 96,0 \text{ kN}$   
 $M_b = 679,9 \text{ kNm}$



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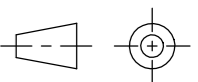
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 Version no: 00  
 Description: Hercules 10,0-10



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Part no: 9300001001

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