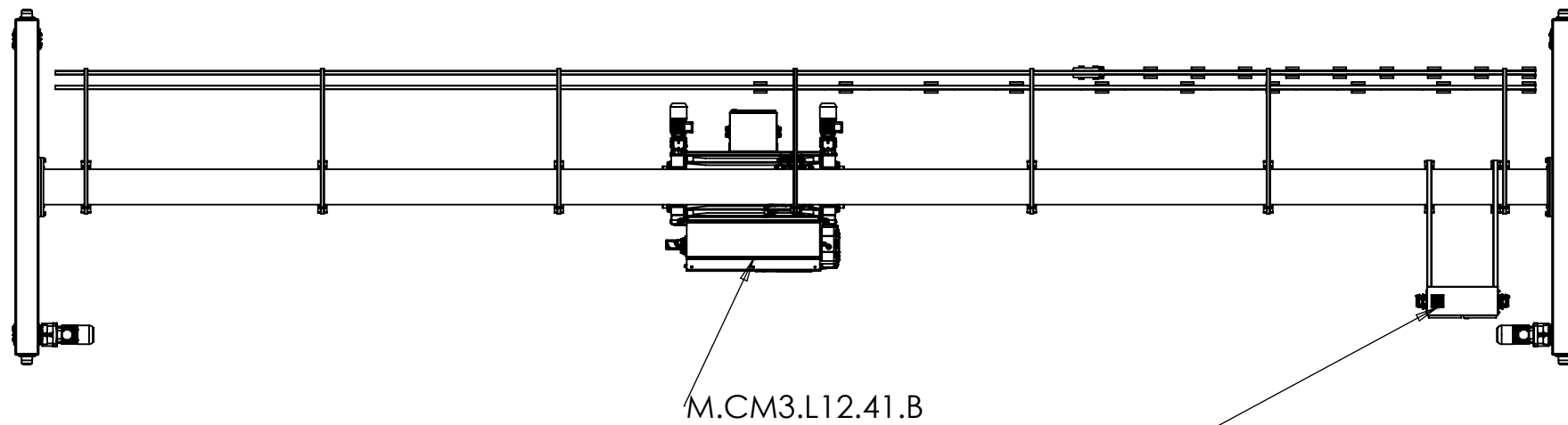


Technical Features  
 Span (mm) : 13000.0 mm  
 Capacity (kg) : 10000.0 kg  
 Hoist Model-1 : M.CM3.L12.41.B  
 Hoist-1 Capacity (kg) : 10000 kg  
 Hoist-1 Height of Lift (m) : 12.0 m  
 Hoist-1 Hoisting Speed (m/min) : 4.0 / 0.6 m/min  
 Hoist-1 Hoisting Control : Contactor  
 Hoist-1 Cross Travel Speed (m/min) : 4.0 ... 16.0 m/min  
 Hoist-1 Cross-Travel Control : Inverter  
 Hoist-1 Duty (FEM) : FEM 2m  
 Hoist-1 Hoist Weight (kg) : 1020.0  
 Long Travel Speed (m/min) : 8.8 ... 35.3 m/min  
 Long-Travel Control : Inverter  
 Total Power : 13.24 kW  
 Long-Travel Duty Class : FEM 2m  
 Electricity Feed : Motor power, speed, duty and rating are specified for 380V 50hz feed. Variation in voltage and frequency would change those values.

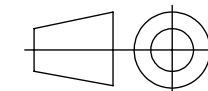
Max Festoon Gathering Size :717mm .Cable Trolley Every 2425mm .



Main Panel  
 Power feed line should be closer to this side

**CMASK**  
 Crane Systems

TITLE:  
**58-869 -**



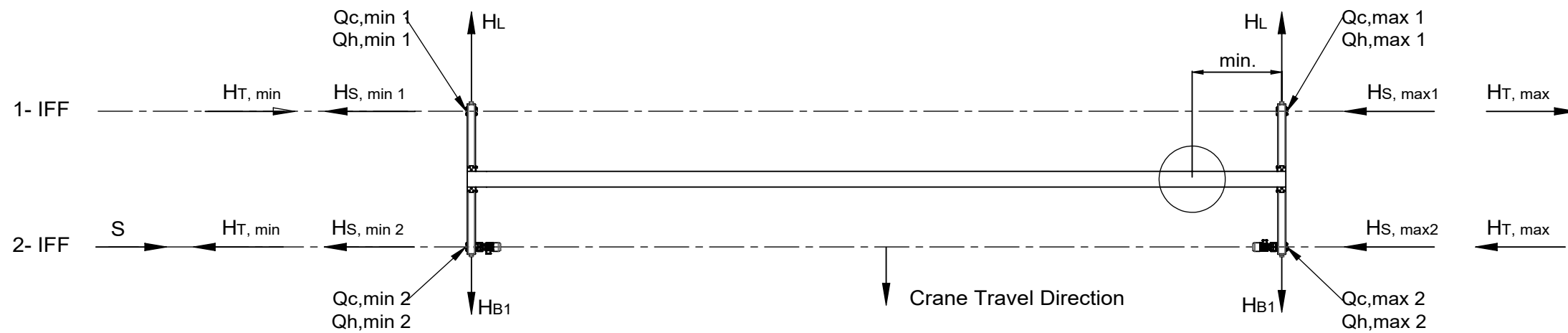
DWG NO. **ga\_58-869**

A3

SCALE:1:57

SHEET 1 OF 3

# Load data according to EN 1991-3



## Dynamic coefficients $\phi$

$\phi 1$	1.1	Acceleration (resulting from lifting and gravitation) acting on the mass of the crane
$\phi 2$	1.11	Inertia and gravitation when lifting an unrestricted load from off the floor
$\phi 3$	1.0	Inertia and gravitation when suddenly releasing a part of the lifting load
$\phi 4$	1.0	Loads resulting from traveling across uneven surfaces
$\phi 5$	1.25	Dynamics effects caused by drive forces
$\phi 5,kr$	1.2	Amplification factor for dynamic loads arising from acceleration of crane drives
$\phi 6,dyn$	1.05	Dynamic test load
$\phi 6,stat$	1.00	Static test load
$\phi 7,Kr$	1.25	Loads resulting from buffer forces

Category	Description	Force Component	Value 1	Value 2	Value 3	Unit
Wheel loads (vertical)	Force component from the mass of the crane and the hoist(s) per crane axis	Qc,max1	14075.1	Qc,max2	14075.1	[N]
		Qc,min1	9490.34	Qc,min2	9490.34	[N]
	Force component from mass of the hoist load per crane axis	Qh,max1	49706.58	Qh,max2	49706.58	[N]
		Qh,min1	4526.37	Qh,min2	4526.37	[N]
Lateral loads (horizontal)	Force from the acceleration of the crane with hoist load(mass force)	HT,min	397.01	HT,max	1806.56	[N]
	Skewing force (coefficient of frictional contact $\leq 0.3$ )	S			18131.76	[N]
	Horizontal force from skewing per crane axis	HS,min,1	0.0	HS,max,1	0.0	[N]
		HS,min,2	3266.75	HS,max,2	14865.02	[N]
Longitudinal loads (horizontal)	Force from the acceleration of the crane with hoist load(mass force)	HL			662.48	[N]
	Force from impact on buffer (collision force) (motion limiter taken into account)	HB1			16605.1	[N]

Ref# 58-869  
07/05/2021  
Prep. Rolf Slagboom

**CMAK**  
Crane Systems

The drawing shows the crane travel situation for the purpose of generating minimum and maximum loads. The decisive crane travel situation may vary depending on the crane version (travel direction, trolley position and / or means of guidance).

