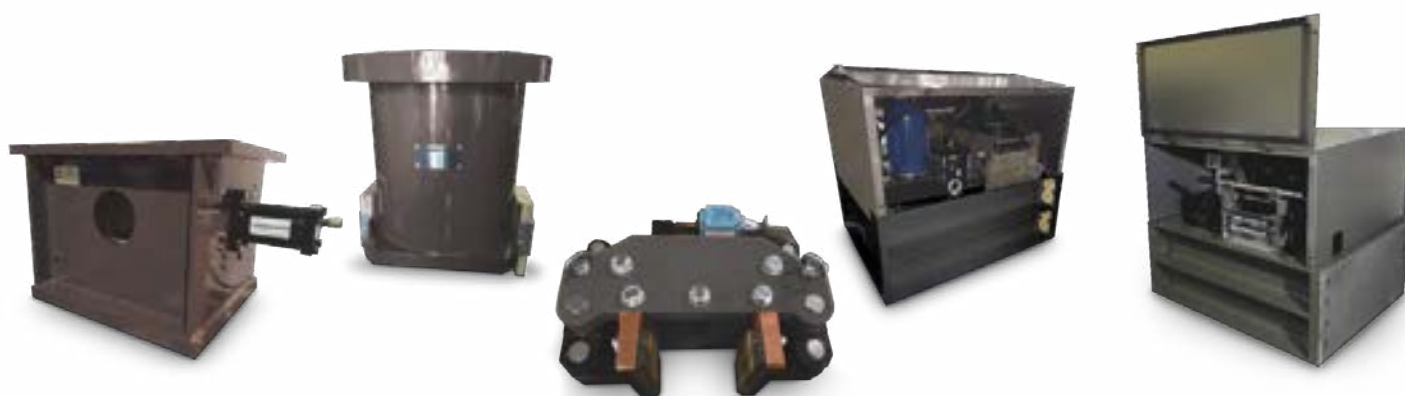




Storm Brakes



SVENDBORG BRAKES™

**PRODUCT
CATALOG**



Stop seeing individual parts. Start seeing unlimited possibilities.

Regardless of your objectives or the challenges with your application, Powertrain Solutions can help you achieve your unique goals. No matter what your application looks like, it relies on many components, all working together. But not all components are made to work together reliably and efficiently. Powertrain Solutions has the insight, experience and expertise to engineer your collection of components into a fully optimized system — giving you solutions that boost efficiency, improve reliability and performance, lower costs and simplify ordering and logistics.

WHERE OTHERS SEE PARTS, WE SEE A SYSTEM



Bearings



Belt & Chain
Drives



Clutches &
Brakes



Conveying



Disc & Gear
Couplings



Motors



Speed Reducers
& Gearboxes



Monitoring &
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It's time to see the bigger picture.

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INDUSTRIAL BRAKING SYSTEMS

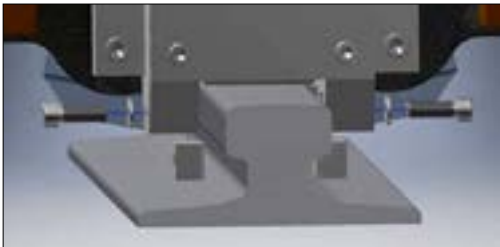
Storm Brakes

GRC RAIL CLAMPS



GRC Rail Clamps, fitted with hardened steel guides, can accommodate rail with large vertical fluctuations.

GRC rail brakes are designed to apply friction forces on both sides of a rail. They are spring set and hydraulically or electrically released. They ride above the rail with two flangeless rollers which continuously make contact with the rail. Hardened guides, attached to the cylindrical roller frame, protect serrated shoes from hitting the rail. As the clamp mechanism can float laterally with very little friction, guides wear is very low. This increases rail brakes safety and reliability and reduces the maintenance costs.



APPLICATIONS

- Ship to shore cranes
- Ship loaders
- Automated stacking cranes
- Stacker Reclaimers
- Wide span cranes
- Tripper cars

BENEFITS

- Rail Clamp mechanism weight is distributed to two hardened, low friction flangeless Cylindrical Rollers.
- Top mounted hydraulic cylinder with no rod connection, easily removable for quick maintenance and replacement
- Serrated shoes protected from hitting the rail sides; limited wear and tear to guide means, brake shoes as well as rail head itself
- No need for lubrication points for the floating mechanism
- Simple design eliminates expensive replacement of profiled guide wheels with worn-out flanges
- Floating mechanism allowing compensation of horizontal $\pm 30\text{mm}$ and vertical $\pm 25\text{mm}$ rail deviation (more available upon request)
- Clamp release and reserve stroke monitoring by proximity switches
- Increased rail clamp safety and reliability while reducing maintenance costs

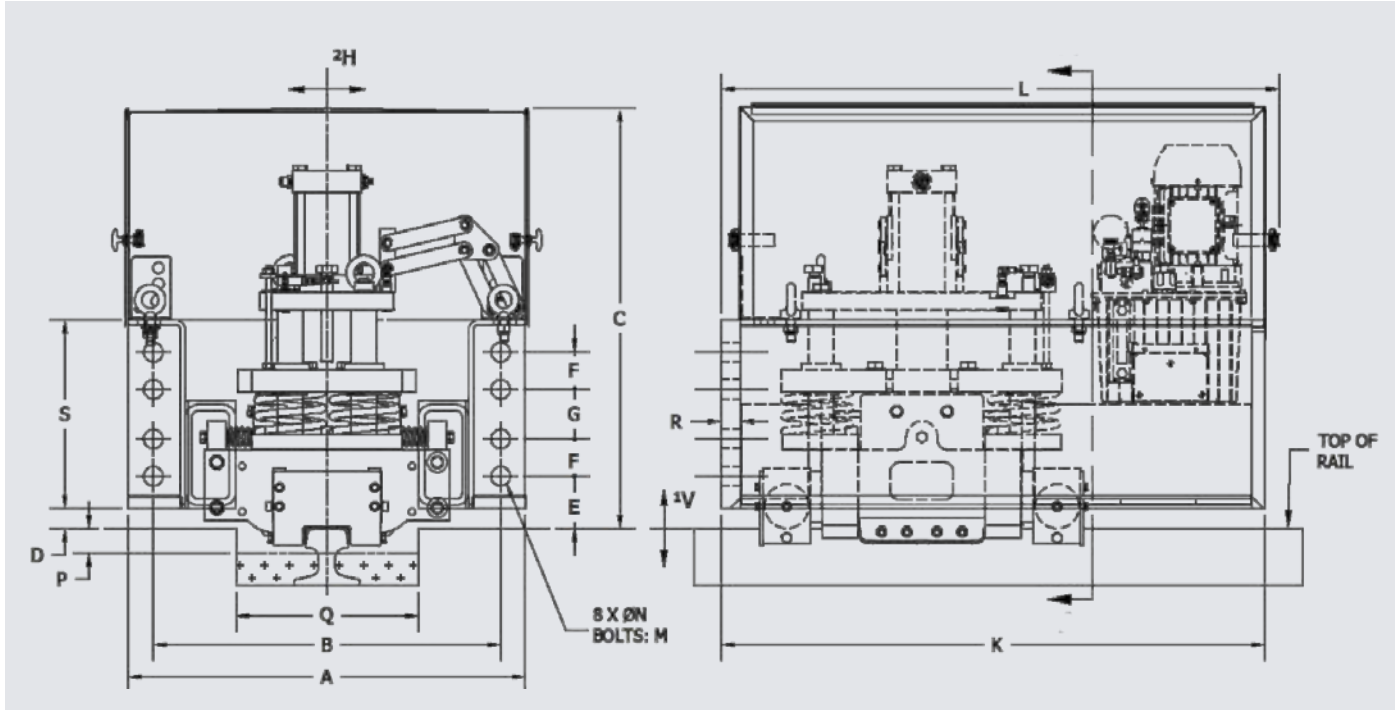


INDUSTRIAL BRAKING SYSTEMS

Storm Brakes

TECHNICAL DATA

- SF Side Flange mount to the crane structure
- TF Top Flange mount available (50 to 600 kN)
- Stainless steel removable cover with inspection doors
- Caging bolts for mechanical release
- Paint system for C4 environment
- Prewired junction box
- Hand pump and caging bolts for manual release
- Solenoid valve with manual override
- Solenoid coil with LED indicator
- Integrated Temperature/Level Switch
- Adjustable setting time from 2-30 seconds



V Vertical Rail Deviation (Float) $\pm 25\text{mm}$ relative to Rail Clamp enclosure at full rated capacity.

H Horizontal Rail Position Deviation (Float) $\pm 30\text{mm}$ relative to Rail Clamp enclosure at full rated capacity.

Q* & P* Dimensions are subject to a specific rail size.

Models with holding capacities calculated with friction factor 0.5. Models with holding capacities calculated with friction factor 0.25 available upon request. All dimensions (mm) and capacities (kN) subject to change without notification.

MODEL	HOLDING CAPACITY (kN)	A	B	C	D	E	F	G	K	L	M	N	P	Q*	R	S
GRC-HS-50-SF	50	578	530	735	30	75	50	65	860	885	20	22	50	280	22	254
GRC-HS-100-SF	100															
GRC-HS-150-SF	150															
GRC-HS-200-SF	200	705	635	785	40	85	65	90	860	885	27	29	50	340	32	310
GRC-HS-250-SF	250															
GRC-HS-300-SF	300															
GRC-HS-350-SF	350	800	700	870	40	105	75	100	1095	1125	36	39	50	380	38	380
GRC-HS-400-SF	400															
GRC-HS-450-SF	450															
GRC-HS-500-SF	500	850	730	1000	40	120	110	170	1210	1240	39	42	50	380	38	580
GRC-HS-600-SF	600															
GRC-HS-800-SF	800															
GRC-HS-900-SF	900	850	730	1000	40	120	110	170	1210	1240	39	42	50	380	38	580
GRC-HS-1000-SF	1000															

INDUSTRIAL BRAKING SYSTEMS

Storm Brakes

LRC RAIL CLAMPS



LRC Rail Clamps are guided by hardened steel guides along the rail. They are designed for cranes riding on a rail with minimum vertical fluctuations.

LRC rail clamps are designed to apply friction forces on both sides of a rail. They are spring set and hydraulically or electrically released.



APPLICATIONS

- Ship to shore cranes
- Automated stacking cranes
- Wide span cranes
- Ship loaders
- Stacker Reclaimers
- Tripper cars

BENEFITS

- Rail Clamp mechanism guided along the rail with hardened steel guiding blocks
- Top mounted hydraulic cylinder with no rod connection, easily removable for quick maintenance and replacement
- Serrated shoes protected from hitting the rails sides by guiding blocks
- No need for lubrication points for the floating mechanism
- Simple design eliminates expensive replacement of profiled guide wheels with worn-out flanges
- Floating mechanism allowing compensation of horizontal $\pm 30\text{mm}$ and vertical $\pm 5\text{mm}$ rail deviation
- Clamp release indication signal provided by proximity switch
- Simple mechanism with small number of moving parts for easy maintenance



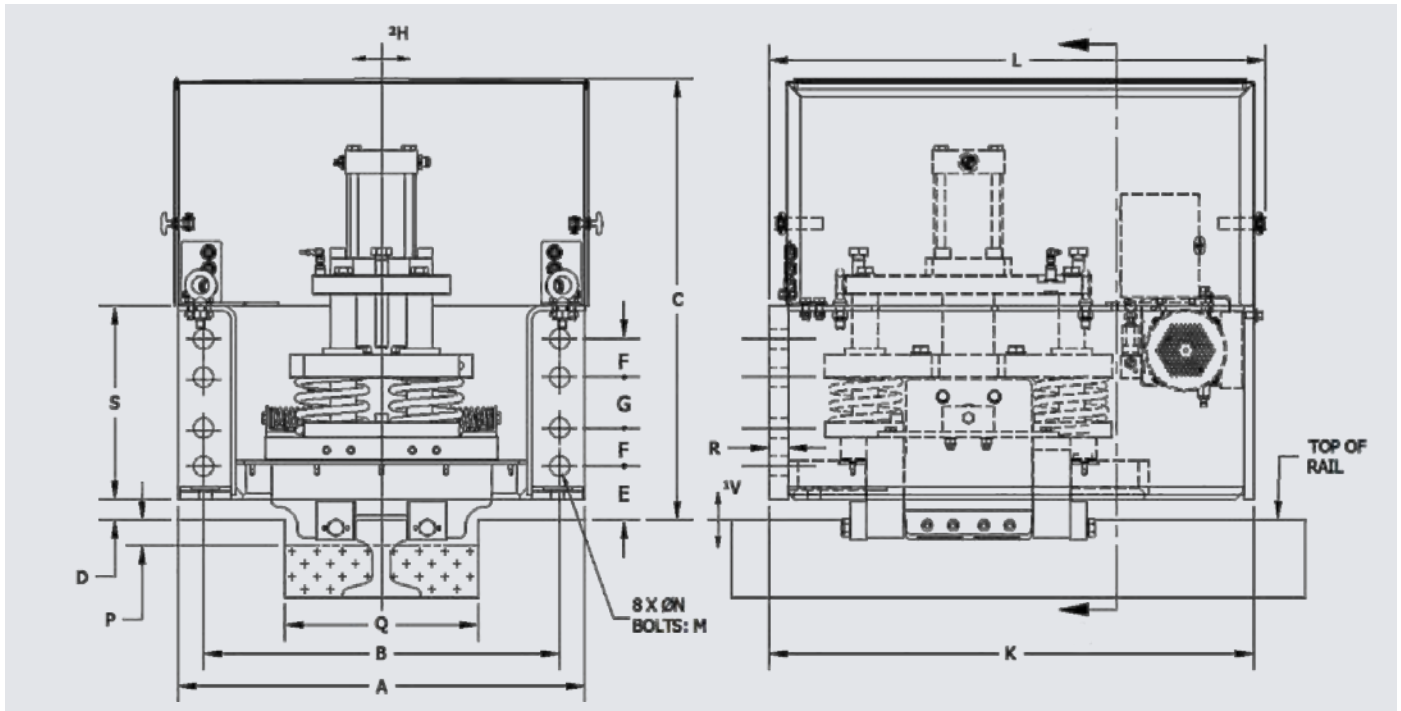
INDUSTRIAL BRAKING SYSTEMS

Storm Brakes

TECHNICAL DATA

- SF Side Flange mount to the crane structure
- TF Top Flange mount available
- Stainless steel cover
- Paint system for C4 environment
- Prewired junction box

- Hand pump and/or caging bolts for manual release
- Solenoid valve with manual override
- Solenoid coil with LED indicator
- Integrated Temperature/Level Switch
- Adjustable setting time from 2-30 seconds



V Vertical Rail Deviation (Float) $\pm 5\text{mm}$ relative to Rail Clamp enclosure at full rated capacity.

H Horizontal Rail Position Deviation (Float) $\pm 30\text{mm}$ relative to Rail Clamp enclosure at full rated capacity. Larger floats available upon request.

Q* Dimensions are subject to a specific rail size. N** LRC-50/100 series come with four holes bolt pattern.

Models with holding capacities calculated with friction factor 0.5. Models with holding capacities calculated with friction factor 0.25 available upon request. All dimensions (mm) and capacities (kN) subject to change without notification.

MODEL	HOLDING CAPACITY (kN)	A	B	C	D	E	F	G	K	L	M	N	P	Q*	R	S
LRC-HS-50-SF	50	540	470	665	30	60	140	x	681	x	24	26	50	300	22	203
LRC-HS-100-SF	100															
LRC-HS-150-SF	150	705	635	700	40	85	65	90	860	884	27	29	50	350	32	310
LRC-HS-200-SF	200															
LRC-HS-250-SF	250															
LRC-HS-350-SF	350															
LRC-HS-400-SF	400	800	700	860		105	75	100	955	985	36	39	50	380	38	380
LRC-HS-450-SF	450															
LRC-HS-500-SF	500															
LRC-HS-600-SF	600															
LRC-HS-650-SF	650															

INDUSTRIAL BRAKING SYSTEMS

Storm Brakes

RRC RETRACTABLE RAIL CLAMPS



RRC Retractable Rail Clamps are the obvious choice especially for modern high speeds cranes

RRC rail clamps are designed to clamp on both sides of a rail. They are spring set and hydraulically or electrically released. They are designed to release and retract fully above the rail head. This eliminates mechanical guiding means at rail level. All the features of these calipers allow reliability and low maintenance.



APPLICATIONS

- Ship to shore cranes
- Ship loaders
- Automated stacking cranes
- Rail-mounted material handling equipment
- Wide span cranes

BENEFITS

- Simple single cylinder solution that lifts all the critical components completely free of the rail
- Serrated shoes protected from hitting the rail sides, no wear and tear to guide means, brake shoes as well as rail head itself
- Top suspended mechanism allows for very low mechanism float forces, no need for lubrication points
- Low friction mechanism stability device, allows for reliable setting of the rail clamp mechanism and positioning on a rail
- Floating mechanism allowing compensation of horizontal $\pm 30\text{mm}$ and vertical $\pm 25\text{mm}$ rail deviation (more available upon request)
- Top mounted hydraulic cylinder with no rod connection, easily removable for quick maintenance and replacement
- Clamp release, positioning and reserve stroke monitoring by proximity switches
- As result of the above mentioned improvements, reliability and safety are increased while maintenance costs are lower

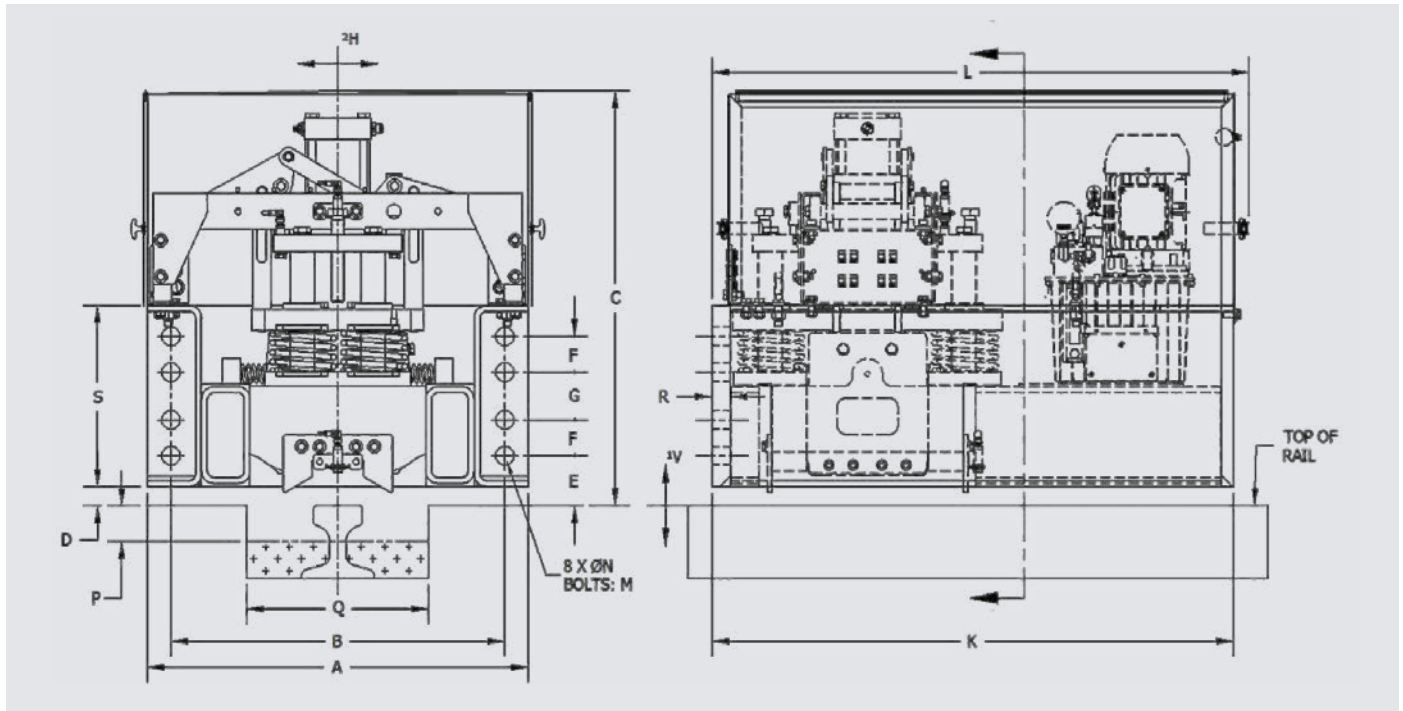


INDUSTRIAL BRAKING SYSTEMS

Storm Brakes

TECHNICAL DATA

- SF Side Flange mount to the crane structure
- TF Top Flange mount available (50 to 600 kN)
- Stainless steel removable cover with inspection doors
- Caging bolts for mechanical release
- Paint system for C4 environment
- Prewired junction box
- Hand pump and caging bolts for manual release
- Solenoid valve with manual override
- Solenoid coil with LED indicator
- Integrated Temperature/Level Switch
- Adjustable setting time from 2-30 seconds



1V Vertical Rail Deviation (Float) $\pm 25\text{mm}$ relative to Rail Clamp enclosure at full rated capacity.

2H Horizontal Rail Position Deviation (Float) $\pm 30\text{mm}$ relative to Rail Clamp enclosure at full rated capacity. Larger floats available upon request.

Q* Dimensions are subject to a specific rail size.

Models with holding capacities calculated with friction factor 0.5. Models with holding capacities calculated with friction factor 0.25 available upon request. All dimensions (mm) and capacities (kN) subject to change without notification.

MODEL	HOLDING CAPACITY (kN)	A	B	C	D	E	F	G	K	L	M	N	Q*	P	R	S
RRC-HS-50-SF	50	578	530	735	30	75	50	65	860	885	20	22	280	70	22	254
RRC-HS-100-SF	100															
RRC-HS-150-SF	150															
RRC-HS-200-SF	200	705	635	785	40	85	65	90	860	885	27	29	340	75	32	310
RRC-HS-250-SF	250															
RRC-HS-300-SF	300															
RRC-HS-350-SF	350	800	700	870	40	105	75	100	1095	1125	36	39	380	75	38	380
RRC-HS-400-SF	400															
RRC-HS-450-SF	450															
RRC-HS-500-SF	500	850	730	1000	40	120	110	170	1210	1240	39	42	380	75	38	580
RRC-HS-600-SF	600															
RRC-HS-800-SF	800															
RRC-HS-900-SF	900	900	780	1050	40	115	100	180	1400	1430	42	45	400	75	45	530
RRC-HS-1000-SF	1000															
RRC-HS-1200-SF	1200															

INDUSTRIAL BRAKING SYSTEMS

Storm Brakes

RB-C RAIL PRESS BRAKES



RB-C Rail Press Brakes apply spring force on the top of the rail while allowing a large rail vertical fluctuation

RB-C rail brakes use the weight of the crane in the braking process and provide the braking force along the rail.

They are spring set and hydraulically released. Once released, the brake hangs above the rail at a pre-designed clearance.

Actual braking capacity depends on the applied force and applicable coefficient of friction (different for static and dynamic braking).

RB-C brakes are parking brakes designed to apply when a crane comes into a full stop position.



APPLICATIONS

- Ship to Shore Cranes
- Rail Mounted Gantry Cranes
- Automated Stacking Cranes
- Log Handling Cranes
- Wide Span Cranes
- Ship loaders

BENEFITS

- Allows for large variations of the rail height by means of a longer spring stroke
- Provides a balanced braking force / stroke curve
- Serrated / Smooth shoes fully protected from hitting the top of the rail for less wear and tear
- Oversized longer lasting springs for reduced maintenance
- Flow control valve installed on the brake for controlled setting time
- Proximity switch for release indication
- Brake shoes easily removed and replaced
- Made with high quality structural steel
- Simple mechanism with small number of moving parts for easy maintenance



INDUSTRIAL BRAKING SYSTEMS

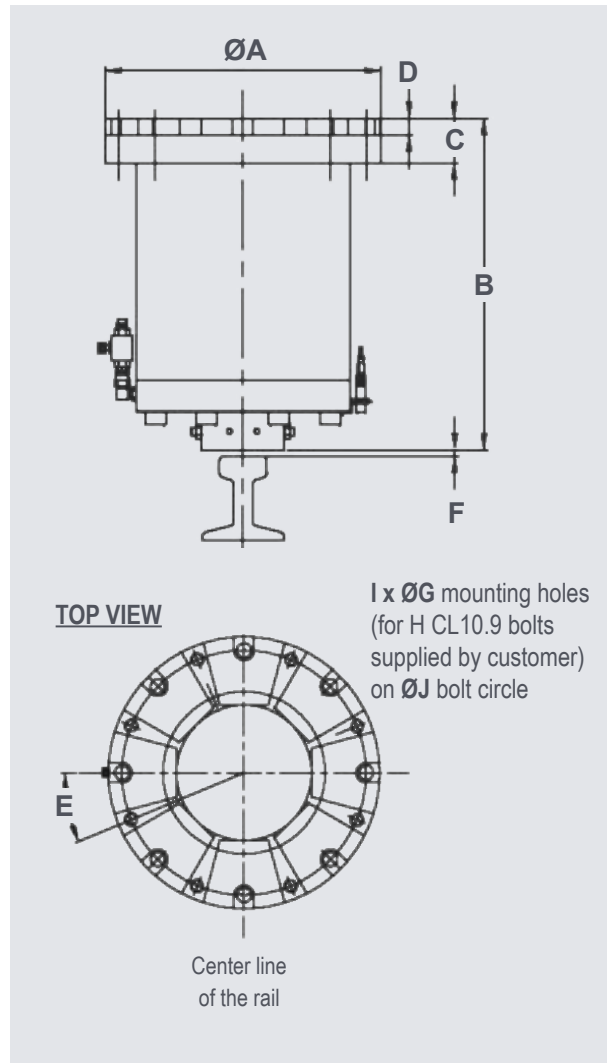
Storm Brakes

TECHNICAL DATA

- Fabricated from high quality structural steel.
- Brake shoes easily removed and replaced
- Paint system for C4 environment

Supplied with Hydraulic Power Unit:

- Prewired junction box
- Hand pump for manual release
- Solenoid valve with manual override
- Solenoid coil with LED indicator



SRB-C-C Static Rail Press - Spring set - Hydraulic release
DRB-C-C Dynamic Rail Press - Spring set - Hydraulic release
with smooth shoes available

OPERATING SPECIFICATIONS SRB-C-220-C			
	Shoe extension: F mm	Applied force kN	Braking force kN ($\mu = 0.5$)
BRAKE RELEASED	0	595	-
BRAKE APPLIED	8	517	258
	12	479	239
	16	440	220
	20	402	201

NOMINAL SPECIFICATIONS SRB-C-220-C

- Nominal braking force 220 kN @ shoe extension **F** and coefficient of friction $\mu=0.5$
- Brake must be installed above the rail at a height of **B** mm + **F** (applicable piston rod extension) ± 2 mm
- Static series **S** of rail brakes must be used for static braking (crane at stop position)

MODEL	HOLDING CAPACITY (kN)	A	B	C	D	E	F	G	H	J	I
SRB-C-130-C	130	508	578	83	31	30	16	27	M24	457	8
SRB-C-220-C	220	508	610	83	31	22.5	16	27	M24	457	8
SRB-C-300-C	300	572	752	89	35	15	16	32	M30	478	12

Static models braking capacities calculated with coefficient of friction factor 0.5
All dimensions (mm) and capacities (kN) subject to change without notification

INDUSTRIAL BRAKING SYSTEMS

Storm Brakes

RB-SA RAIL BRAKES - SELF ADJUSTING



RB-SA Rail Brakes compensate an extra large $\pm 19\text{mm}$ rail vertical fluctuation, they are automatically adjusted before braking

RB-SA brakes apply spring force on the top of the rail, they use the weight of the crane in the braking process and provide the friction force along the rail. Two step braking ensures that the shoe is in contact with the rail before spring force is applied.

They are spring set and hydraulically or electrically released. Once released, the brake hangs above the rail at a pre-designed clearance. Actual braking capacity depends on the applied force and applicable coefficient of friction (different for static and dynamic braking).

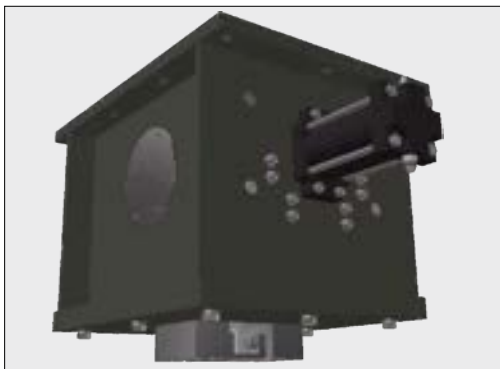


APPLICATIONS

- Ship to Shore Cranes
- Automated Stacking Cranes
- Wide Span Cranes
- Rail Mounted Gantry Cranes
- Log Handling Cranes
- Ship loaders

BENEFITS

- Completely spring-set rail brake
- Allows up to 38mm rail vertical fluctuation while providing uniform rated capacity over the full range of movement
- Consistent spring stroke for longer spring life
- Serrated / Smooth shoes fully protected from hitting the top of the rail for less wear and tear
- All components, including the hydraulic release cylinder are fully enclosed in a sealed housing, out of the elements
- Flow control valve installed on the brake for controlled setting time
- Proximity switch for release indication signal
- Brake shoes easily removed and replaced
- Made with high quality structural steel
- Compact design fits most existing locations, even those with drop pins. Low height allows retrofitting with adapter flanges.



TECHNICAL DATA

- Fabricated from high quality structural steel.
- Brake shoes easily removed and replaced
- Paint system for C4 environment

Supplied with Hydraulic Power Unit:

- Prewired junction box
- Hand pump for manual release
- Solenoid valve with manual override
- Solenoid coil with LED indicator

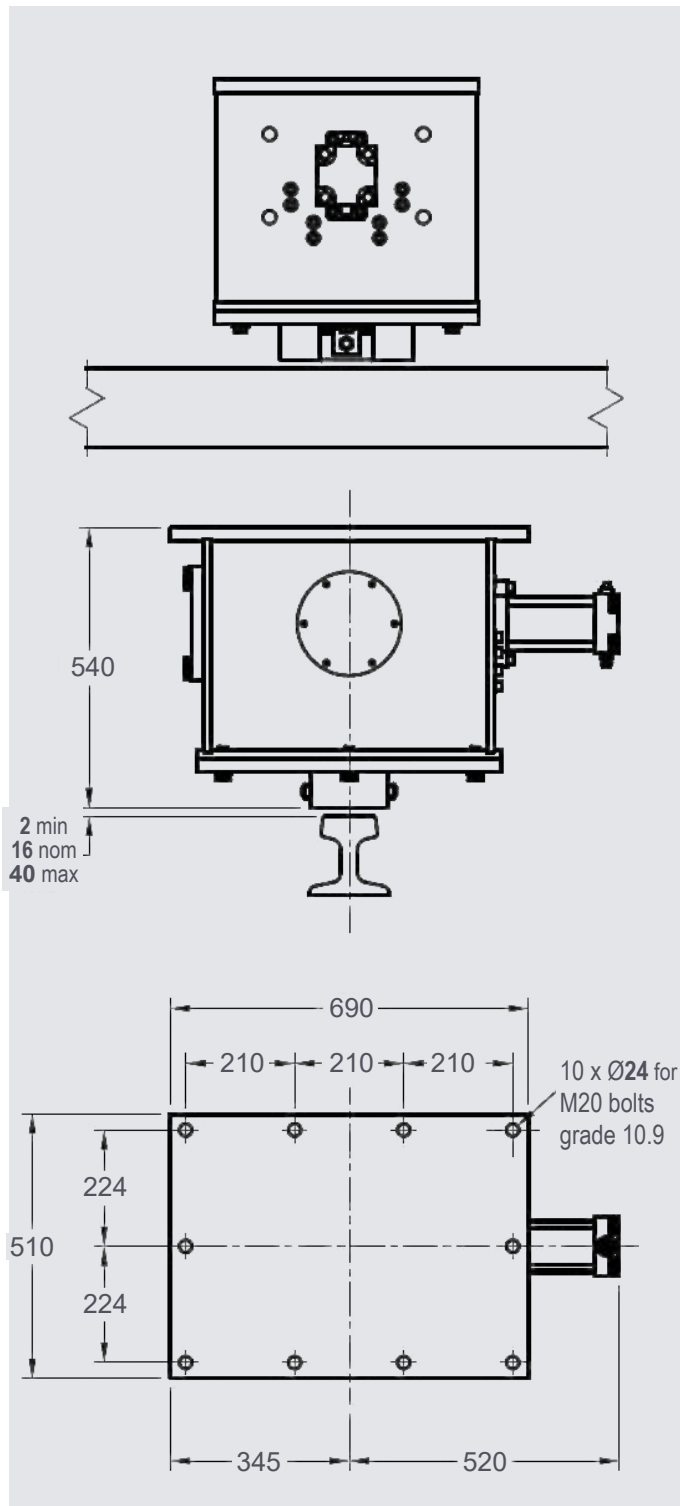
- **SRB-SA** Static rail brake-Self Adjusting Spring Set: 150 kN & 220 kN, Hydraulic Release
- **DRB-SA** Dynamic rail brake -Self Adjusting Spring Set: 120 kN & 180 kN, Hydraulic release with smooth shoes available
- **RB-E-SA** Rail brake -Self Adjusting Spring Set, electric release

RB-SA-220 Braking force at various stroke extensions			
Shoe extension: E mm		Applied force kN	Braking force kN ($\mu=0.5$)
BRAKE RELEASED	0	470	235
BRAKE APPLIED	2	450	225
	8	445	222
	16	440	220
	28	420	210
	40	410	205

Static models braking capacities calculated with coefficient of friction factor 0.5 All dimensions (mm) and capacities (kN) subject to change without notification

NOMINAL SPECIFICATIONS SRPS-220-SA

- Nominal braking force 220 kN @ shoe extension **F** and coefficient of friction $\mu=0.5$
- Brake must be installed above the rail at a height of 540mm + **A** (applicable piston rod extension) +/-2mm
- Static series **S** of rail brakes must be used for static braking (crane at stop position)



INDUSTRIAL BRAKING SYSTEMS

Storm Brakes

WB WHEEL BRAKES ELECTRICAL



WB Wheel Brakes are parking and safety devices that can be used as dynamic brakes in case of emergency

WB Wheel Brakes apply force generated by springs on both sides of the crane wheels. Oversized brake shoes with bonded friction material apply on the side flanges of idler wheels, providing the friction forces, and thus, braking capacity.

Designed as parking brakes to be applied when equipment comes to a full stop, WB wheel brakes can be also used as dynamic brakes in an emergency situation. By applying spring force directly on the wheel flanges, they minimize the amount of stress and strain otherwise placed on sill beams and truck assemblies of a crane.

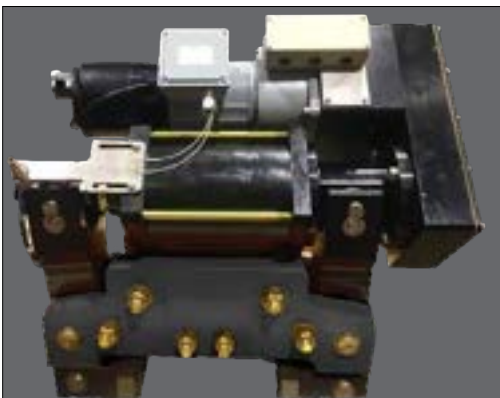


APPLICATIONS

- Ship to Shore Cranes
- Rail Mounted Gantry Cranes
- Automated Stacking Cranes
- Log Handling Cranes
- Wide Span Cranes
- Ship loaders

BENEFITS

- Spring Set – patented fully Electric Release
- No hydraulic components, so no environmental or fire liabilities
- High efficiency actuator for spring applied braking devices utilize an electromechanical release and hold system
- Actuator holding brake in sealed enclosure and with low power consumption, keeps wheel brake pads released until power is cut-off or lost
- Setting time can be adjusted by a mechanical regulator for setting time delay from 3 to 30 seconds
- The regulator does not use friction and is free from wear
- Brake release monitored by proximity switch
- Equipped with shoe alignment device
- Maximum pad wear is 6mm per side



INDUSTRIAL BRAKING SYSTEMS

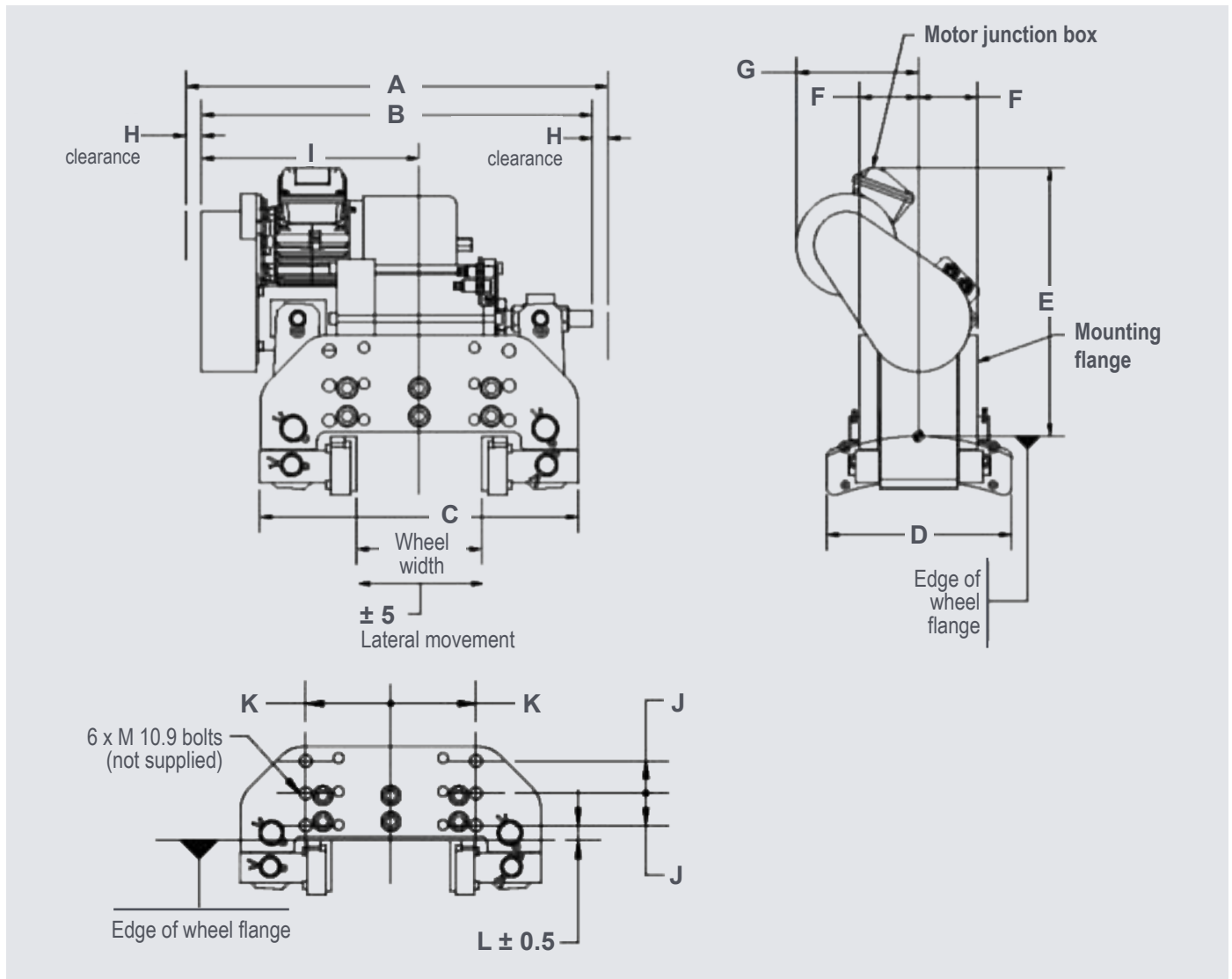
Storm Brakes

TECHNICAL DATA

- Fabricated from high quality structural steel.
- Brake shoes easily removed and replaced
- Paint system for C4 environment

Supplied with linear actuator:

- High efficiency actuators
- Supplied with release nut for mechanical brake release
- Electric drive components easily accessible and removable
- Electric actuator drive easy to understand and service



MODEL	HOLDING CAPACITY (kN)	A	B	C	D	E	F	G	H	I	J	K	L	M
EWB-30-A	50	735	675	500	315	475	75	250	30	380	50	125	25	M20
EWB-30-B											57	89	26	M20
EWB-60-A	60	735	675	500	315	475	75	250	30	380	50	125	25	M20
EWB-60-B											57	89	26	M20
EWB-90-A	90	735	675	550	315	508	110	250	30	361	55	145	30	M24
EWB-90-B											57	89	26	M20
EWB-120-A	120	735	675	550	315	508	110	250	30	361	55	145	30	M24
EWB-120-B											57	89	26	M20

Dynamic models braking capacities calculated with coefficient of friction factor 0.4
All dimensions (mm) and capacities (kN) subject to change without notification.

INDUSTRIAL BRAKING SYSTEMS

Storm Brakes

HWB WHEEL BRAKES HYDRAULIC



HWB Wheel Brakes are parking and safety devices that can be used as dynamic brakes in case of emergency

HWB Wheel Brakes apply force generated by springs on both sides of the crane wheels. Oversized brake shoes with bonded friction material apply on the side flanges of idler wheels, providing the friction forces, and thus, braking capacity.

Designed as parking brakes to be applied when equipment comes to a full stop, HWB wheel brakes can be also used as dynamic brakes in an emergency situation. By applying spring force directly on the wheel flanges, they minimize the amount of stress and strain otherwise placed on sill beams and truck assemblies of a crane.

APPLICATIONS

- Ship to Shore Cranes
- Rail Mounted Gantry Cranes
- Automated Stacking Cranes
- Log Handling Cranes
- Wide Span Cranes
- Ship loaders

BENEFITS

- Spring Set – Hydraulic Release
- Flow control valve installed on the brake for the controlled setting time 3 to 30 seconds
- Self-lubricating bushings and stainless steel pins on all pivot points
- Proximity switch for release indication signal
- Brake shoes easily removed and replaced
- Made with high quality structural steel
- Nominal retracted clearance 1mm per side. Recommended maximum clearance 2mm per side
- Equipped with shoe alignment device
- Supplied with release nut for mechanical brake release
- Operated and released by Hydraulic Power Unit HPU

INDUSTRIAL BRAKING SYSTEMS

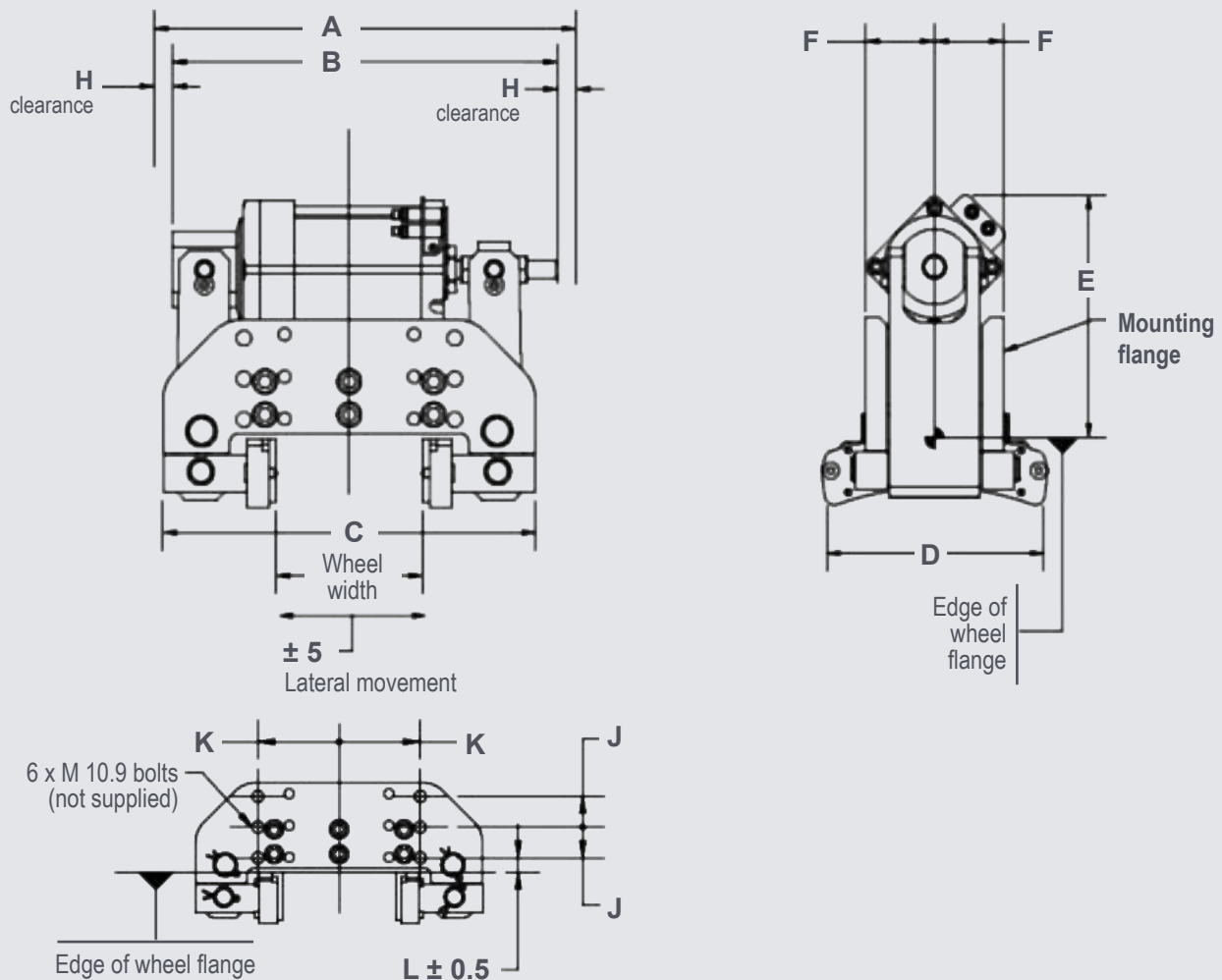
Storm Brakes

TECHNICAL DATA

- Fabricated from high quality structural steel.
- Brake shoes easily removed and replaced
- Paint system for C4 environment

Supplied with Hydraulic Power Unit:

- Prewired junction box
- Hand pump for manual release
- Solenoid valve with manual override
- Solenoid coil with LED indicator



MODEL	HOLDING CAPACITY (kN)	A	B	C	D	E	F	H	J	K	L	M
HWB-30-A	50	600	535	500	315	330	75	30	50	125	25	M20
HWB-30-B									57	89	26	M20
HWB-60-A	60	600	535	500	315	330	75	30	50	125	25	M20
HWB-60-B									57	89	26	M20
HWB-90-A	90	600	535	550	315	330	110	30	55	145	30	M24
HWB-90-B									57	89	26	M20
HWB-120-A	120	600	535	550	315	330	110	30	55	145	30	M24
HWB-120-B									57	89	26	M20

Dynamic models braking capacities calculated with coefficient of friction factor 0.4
 All dimensions (mm) and capacities (kN) subject to change without notification.

INDUSTRIAL BRAKING SYSTEMS

Notes

[illegible]

We create a **better tomorrow** with sustainable solutions that power, transmit, and control motion.





SVENDBORG BRAKES™

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