goracon®

G-trac® G-lock®

The height´s up to you.
Lifting you up... safely and reliable!

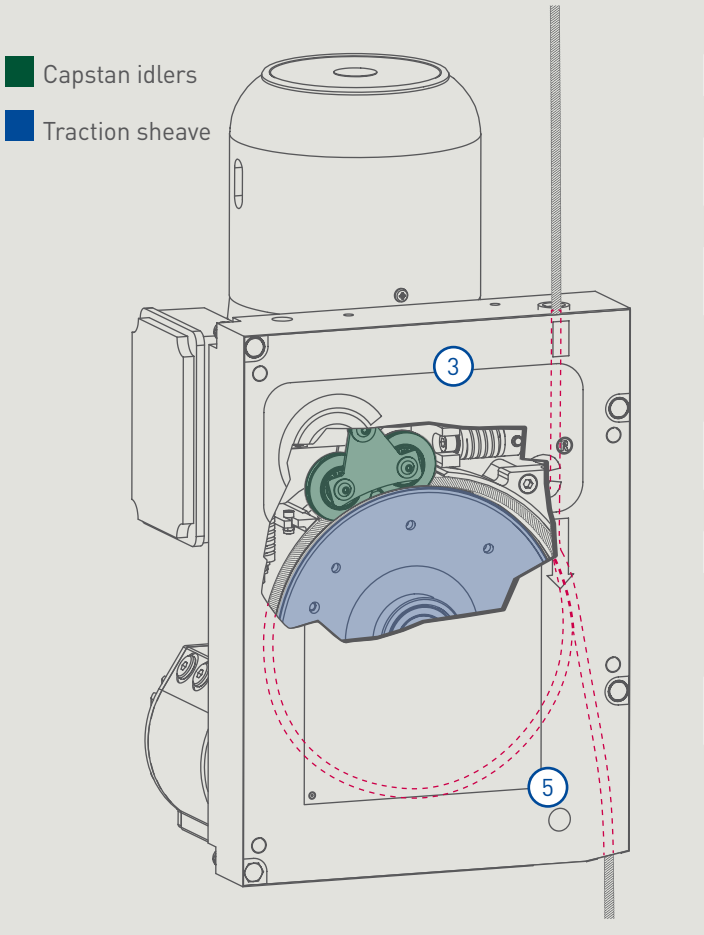
G-trac® traction hoists and **G-lock® overspeed safety devices** – goracon delivers best quality and top service from one source.

Function of the G-trac® traction hoist

- A traction hoist is a compact hoist in which the hauling cable is not accumulated on a drum.
- The cable passes through the cable drive and contacts a driving pulley with a V-shaped groove. Traction for lifting, lowering and horizontal movement of loads is obtained via frictional resistance, the groove and the hauling cable.
- The cable tensioning system with capstan idler guarantees safe and slip-free starting and braking with the occuring peak loads.
- The unloaded end of the cable that leaves the traction hoist can be accumulated if required.

Advantages of the G-trac® traction hoist

- In conventional drum hoists, the traction is transferred from the rotating drum to the cable.
- The increase in layers on the drum inevitably results in a reduction in traction.
  Assuming four to five cable layers, the traction of a drum hoist reduces by around 50% between the innermost and outermost layers.
- This is not the case with traction hoists. Their traction always remains constant.
- The layers on a drum hoist produce a constant change in the radial velocity of the drum and thus the winding speed of the hoisting cable during lifting and lowering procedures.
- **In a traction hoist, the operating speed always remains constant.**
- A drum hoist's radius of operation is limited by its winding capacity.
- Because the cable in a traction hoist does not accumulate, its range of movement or lifting height is limited only by the length of the cables!



An efficient, durable traction sheave hoist developed by goracon!

With the addition of our own G-trac® traction hoists and G-lock® overspeed safety devices, covering a product range up to a maximum of 1000 kg, we can conclude that our family of traction hoists fully covers your demand.

We guarantee a complete and full service combined with an extensive supply flexibility for our global customers based in the field of height access technology.

Our worldwide approvals.

EN 1808 | CSA B44.7 | ASME A17.7

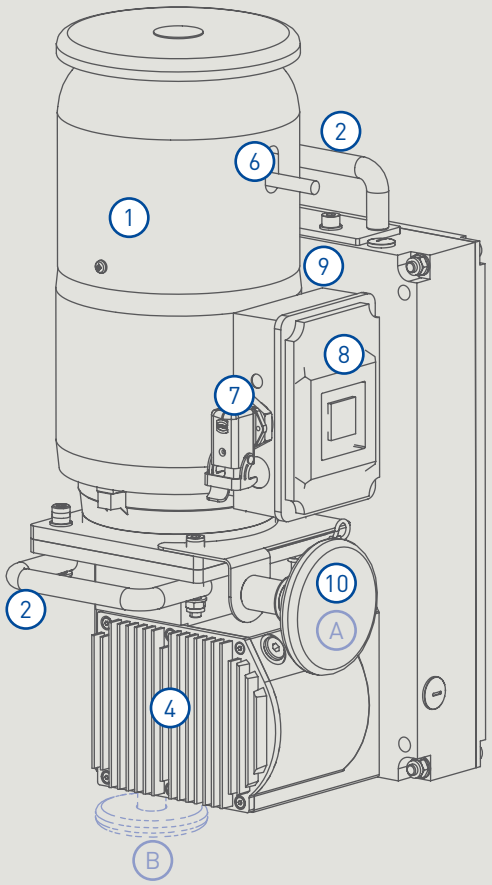
CE TÜVRheinland® Genau. Richtig. DGUV Test

c UL us c UL us CLASSIFIED c UL CLASSIFIED

Our quality features:

1	A powerful, reliable electric motor
2	Carrying handles
3	Sturdy aluminum housing ensures for **low weight and high resistance**
4	Low-noise worm gear transmission
5	Functional single point suspension or a customized four-point attachment system
6	Electromagnetic, totally enclosed operating brake with manual release for emergency rescue via the centrifugal brake
7	connection to control mechanism
8	Operation hour counter
9	built-in, precise electromagnetic overload
10	Ergonomic emergency hand wheel Either in exposed parking position (A) or integrated (B)

Also available as cold climate Version CCV for temperatures + 50° to -10° C. Further temperatures on request.



G-lock® overspeed safety device goracon® - unique worldwide!

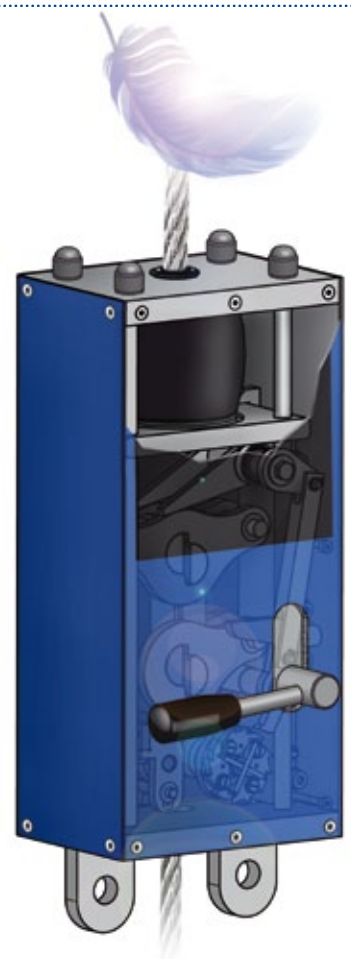
Absorbs all shocks – safely and reliably

G-lock® features an integrated structural buffer system that, when triggered, safely and reliably absorbs the dynamic peak load. All shocks are gently cushioned.

At 22%, G-lock® is below the value specified in BS EN 1808. **goracon**® does more for your safety than mere compliance with a standard. We want you to know you're in safe hands at all times!

Added safety – fall arrest interlocking

This mechanism is only activated if the drive cable breaks, preventing unintended unlocking under maximum load. The system status can be checked through the inspection glass. Combined with electronic clamp detection, the drop is immediately and automatically halted.



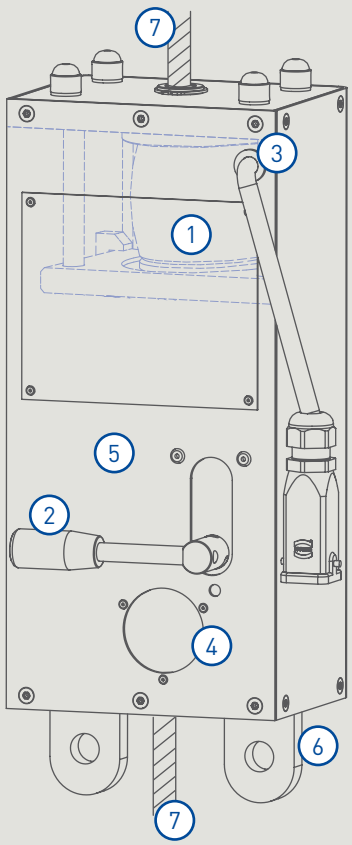
Soft as on a feather!

our advantages at a glance:

1	In an "intercept" load situation, the structural buffer absorbs dynamic forces at Sd = 3.9 (with WLL 60 kg), below the value of ⩽ 5 specified in BS EN 1808.
2	Dual - functional ergonomic single lever for arming and releasing safety jaws
3	optional: integrated electro-mechanical tripping detection switch
4	Triggering via wear-free centrifugal force mechanism
5	Sturdy aluminum housing
6	Sturdy suspension lugs
7	safety rope

optional: gear failure safety and inclined position detection monitoring in one

Also available as cold climate Version CCV for temperatures + 50° to -10° C. Further temperatures on request.

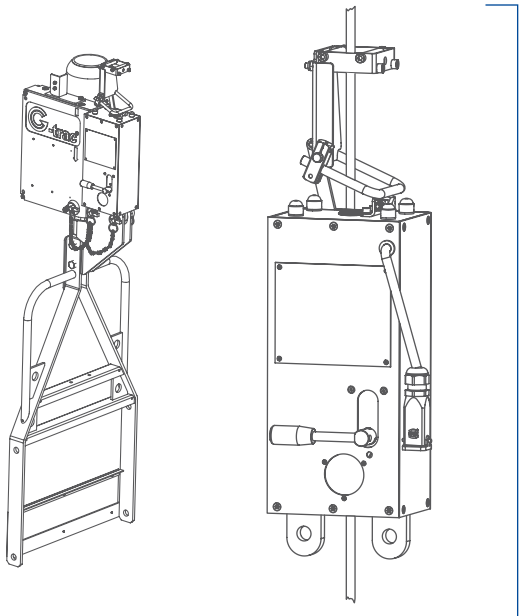


G-lock® is an overspeed safety device that protects against malfunctions in the lifting gear or hauling cable breakage. With an integrated centrifugal force mechanism, it responds to a defined "speed limit", measured directly at the running safety cable, and brings it safely and gently under control.

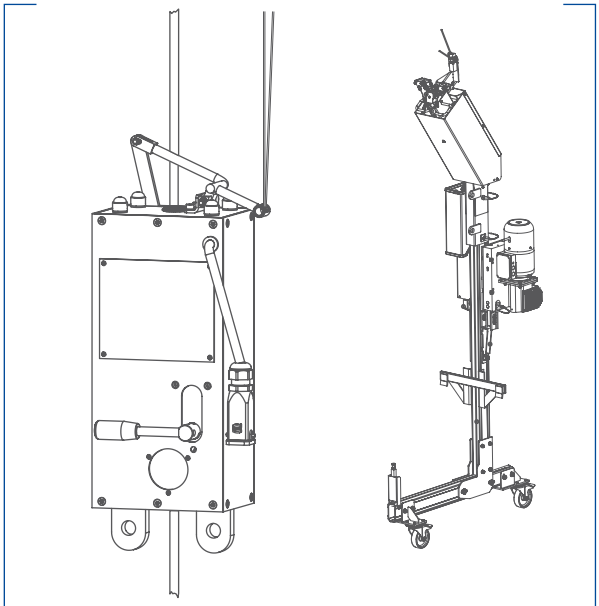
	G-lock	Carrying capacity (kg)	Operating speed (m/min)	Rope ø (mm)	Self weight	Inclined position detection monitoring
G-lock overspeed safety device	400 – 1000	400 – 1000	bis 24 m/min	9,0/ 10,2/ 11,0	12 kg	—
G-lock overspeed safety device with mechanical tilt monitoring for end support bracket	600 – 800	400 – 1000	bis 18 / 24 m/min	9,0	14 kg	●
G-lock overspeed safety device with mechanical tilt monitoring for C support bracket	600 – 800	400 – 1000	bis 24 m/min	9,0	14 kg	●

Standard version with electronic fall detection and fall arrest interlocking Cable length 2 m, multipin connector.

Inclined position detection monitoring on working platforms



G-lock overspeed safety device with mechanical tilt monitoring for end support bracket

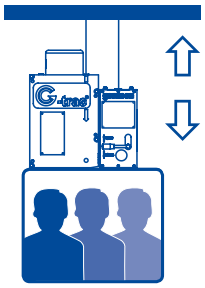


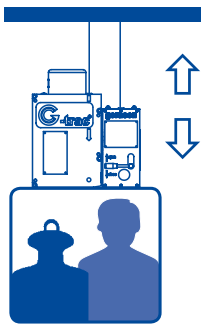
G-lock overspeed safety device with mechanical tilt monitoring for C support bracket

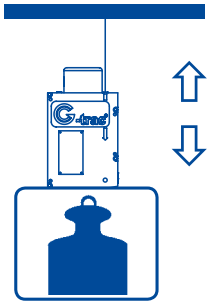
Suitable for the use with blade access platforms, G-bladeaccess

Suitable for the use with G-servicelift

Suitable for the use with building maintenance units







Where will the G-trac® be used?

- G-trac® is used on working platforms, facade maintenance units and other personnel lifting equipment and ascends and descends on a steel cable suspended on a building – including the tallest structures in the world.
- G-trac® is used wherever especially long cables are required, for example in overhead line construction.
- Customers rely on G-trac® when they need compact winches with a low net weight combined with heavy working loads.
- G-trac® is used in lift, antenna, facade and overhead line construction, in scaffolding, building and civil engineering, in cable railway and steel construction, for corrosion protection purposes, in the petrochemical industry, in power stations and in the wind energy sector. Did we leave anyone out? – you'll be with us next time!

Suitable for the use with silo maintenance units

Suitable for the use with G-worklift, temporary swing-stage

Suitable for the use with boiler platforms

MUST BE on every construstion site

G-smartrac® material rope traction hoist with electric motor for material transport.

Mobile motorized rope hoist for any lifting height, flexible and economic assembly and installation work. Simple operation for working safely at heights.

The G-smartrac® pendulum hoist (pendular load lift in both directions possible) allows you to achieve 50% cost reductions! The pendulum hoist rules out unloaded operations and is ready to go in no time.

Traction hoist G-trac® for personnel transport

G-trac®, customers, benefit from a well developed and globally tested traction design, with every platform. Different markets and applications fo llow different norms and regulations and lead to various certificates. The G-trac®, hoist meets them all.

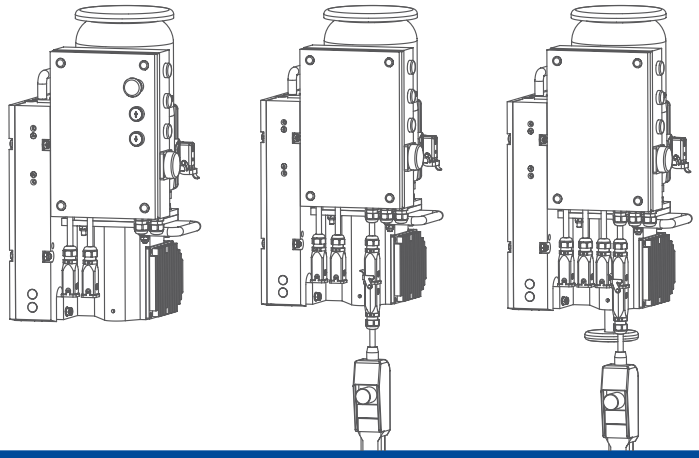
For more information or technical spec's, please do not hesitate to contact us.

G-trac	Carrying capacity (kg)	Operating speed (m/min)	Rope ø (mm)
400-1000	400 – 1000	9	9,0/10,2

Traction hoist G-trac for personnel transport

For connection to individual control mechanism

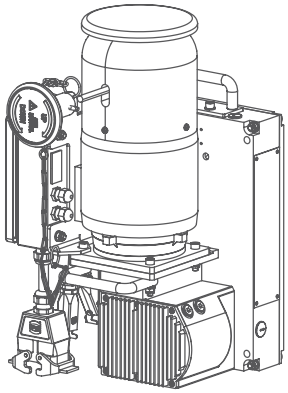
For more information or technical spec's, please do not hesitate to contact us.

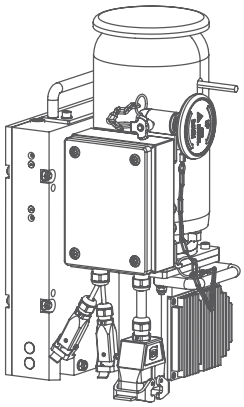


	Direct control via control cabinet	Control using pendant station for temporary personnel lifting equipment (PAM)	Control using pendant station for the personnel lifting equipment associated with the building (PAM)
UP/DOWN button	●	—	—
Emergency STOP, lockable	●	—	—
Multipin connector for connecting a pendant control	—	●	●
Multipin connectors for two limit switches	●	●	—
Multipin connectors for three limit switches	—	—	●
CEE 16 A connection	●	●	●
230-V-AC socket	●	●	●
Display indicator lamps Phase error, fall detection, overload	●	●	●
Optional remote control, also available as an upgrade (200 m range)			

Traction hoist G-trac for personnel transport

For connection to central control mechanism





G-trac	Carrying capacity (kg)	Operating speed (m/min)	Rope ø (mm)
400 – 1000	400 – 1000	9	9,0/10,2

Pendant control

Central control

Radio remote control

End limit switch

- Operational limit switch
- Emergency limit switch (drop)
- Lower travel limit
- Special applications
- Limit switch cable, 2.50 m long, other lengths on request

	Central control for 1 G-trac	Central control for 1 and 2 G-trac	Central control for 1 to 3 G-trac
UP/DOWN button	●	●	●
Emergency STOP, lockable	●	●	●
Multipin connector for the control line	●	●	●
Selector switch for individual and overall control	—	●	●
CEE 16 A connection	●	●	●
230-V-AC socket	●	●	●
Display indicator lamps Phase error, fall detection, overload	●	●	●
Display indicator lamps for tilt	—	●	●

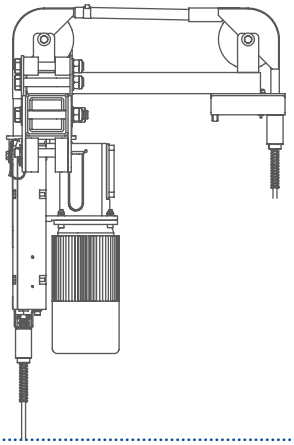
Traction hoist G-trac® for material transport

G-trac	Carrying capacity (kg)	Operating speed (m/min)	Rope ø (mm)	Output (KW)	Self weight approx (kg)
1300	1300	9 / 18 polum.	10,2	3,7 / 4,4 kW	85

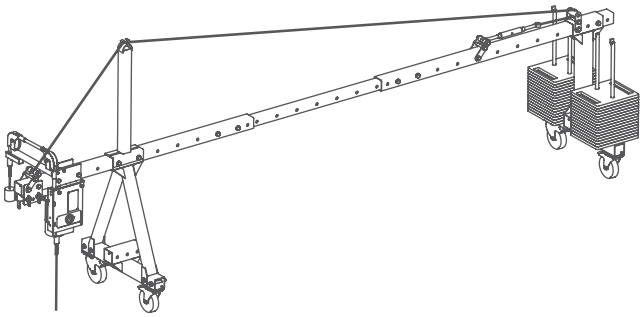
Optional with radio remote control.

Material hoist for roof top davits

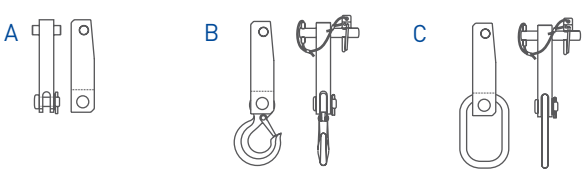
For redirection the load free wire rope end.



Efficiently, quickly and easily mountable for work on high buildings. Lifting and positioning of cladding, construction and/or machine tools.

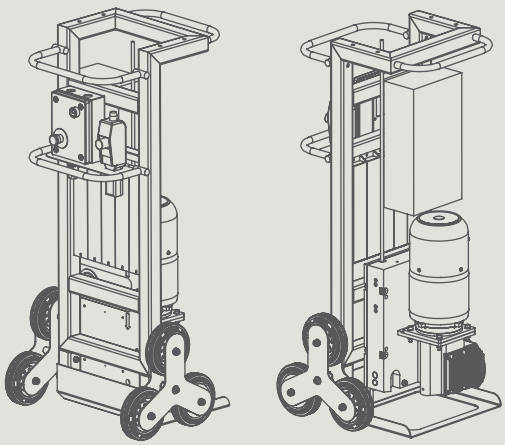


Accessories options for the G-trac® 400 till 1000



A. Adapter for mounting the G-trac®
B. Adapter, with eye hooks for retrofitting, with load bolts and safety pin.
C. Adapter, with master link for retrofitting, with load bolts and safety pin.

Special chassis for the elevator construction, stairs-capable

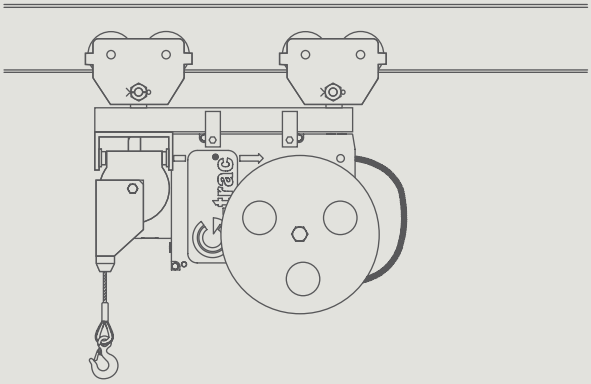


Application examples

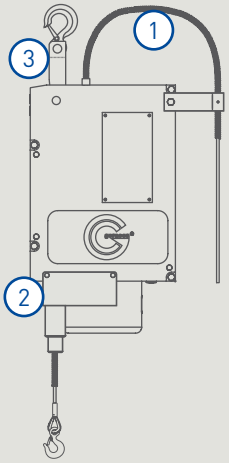
For more information or technical specifications, please do not hesitate to contact us.

Mounted to gantries

- Horizontal movement of the G-trac
- For manual, electrical or mechanical operation
- Shown here with electrical wire winder



1. **Wire rope end guide**
   To redirect the load free wire rope
2. **End limit switch**
   To switch off lifting and pull motions
3. **Attachment options**

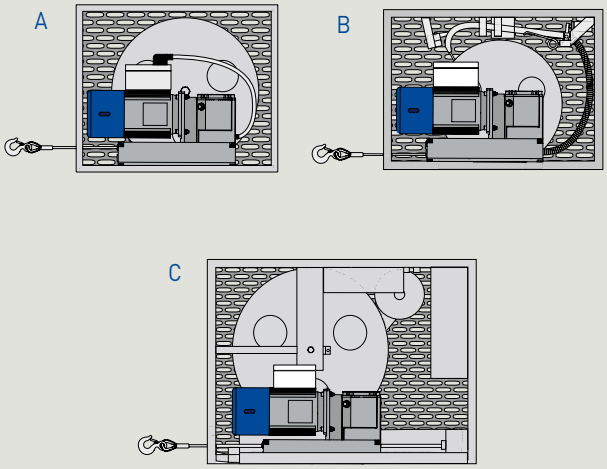


Compact hoist with rope storage or rope winding

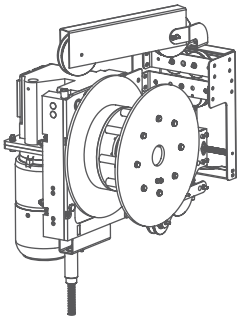
A. Fix frame with mechanical rope storage.
End limit switch to detect free run.

B. Fix frame with rope winder, directly controlled by G-trac®.
End limit switch to detect free run.

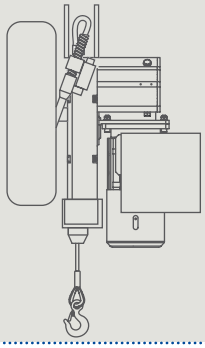
C. Fix frame with rope winder with electric drive.
End limit switch to detect free run.



Rope winder



Mounted cable storage

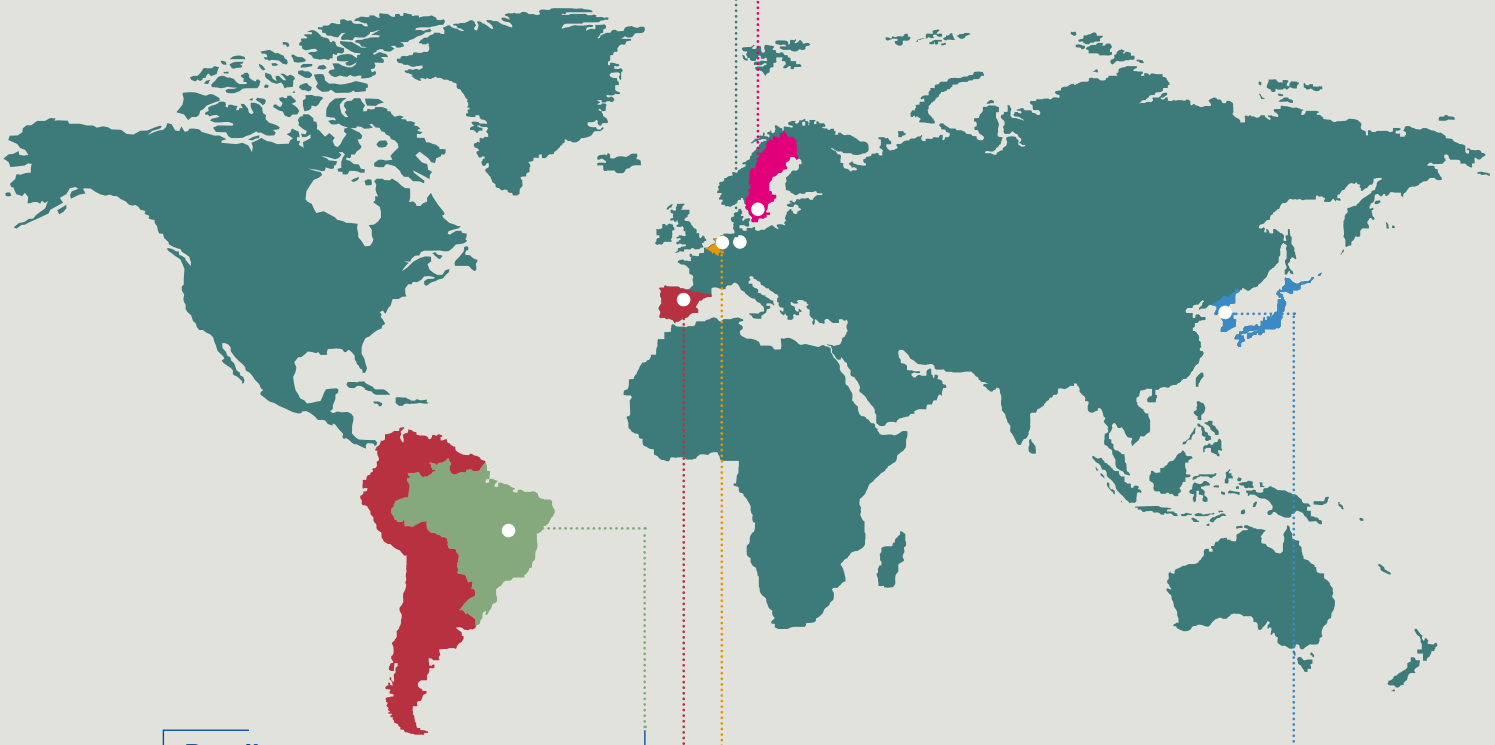


EU / NorthAmerica / Asia / India
Middle East / Russia / Africa / Australia

goracon systemtechnik gmbh
Färbereistr. 4
D-48565 Steinfurt
info@goracon.de
www.goracon.com

Sweden

INTERLIFT AB
Getinggränd 2, 275 39 Sjöbo
Mail: info@interlift.se
www.interlift.se



Brazil

Artama Metalmecânica Ltda.
Rua Jorge Czerniewicz, 1.020
Jaraguá do Sul / SC / Brazil
89255-000
gestao.engenharia@artama.com.br
www.artama.com.br

BeNeLux

LuWe Trading V.O.F
Colonnade 20
7609ZW Almelo
info@luwetrading.nl
www.luwetrading.eu

Spain / South America

goracon iberica
Calle Oliver, 46-B, 4º Piso, Puerta 7
ES-03802 ALCOY, (Alicante) SPAIN
s.perez@goracon.com
www.goracon.com

South Korea

EWKOR TRADING CO.,LTD.
B-507, U space 2, 670 Daiwangpangyo-Ro,
Bundang-Gu, Seongnam-Si, Gyeonggi-Do,
463-400 KOREA
y.s.kang@ewkor.co.kr

Status: August 2017