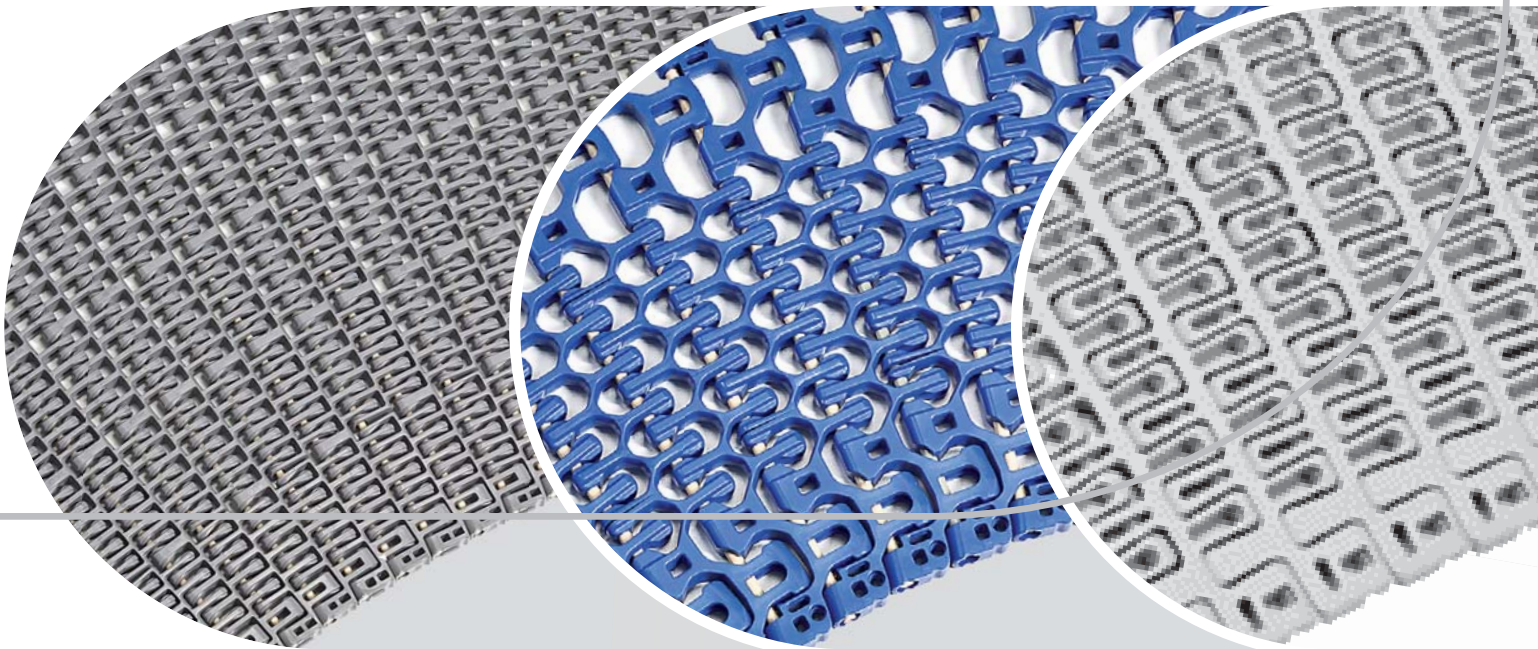


Habasit Spiral Belts Product Overview

Habasit – Solutions in motion



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Product liability, application considerations

If the proper selection and application of Habasit products are not recommended by an authorized Habasit sales specialist, the selection and application of products, including the related area of product safety, are the responsibility of the customer. All indications / information are recommendations and believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to their accuracy or suitability for particular applications. The data provided herein are based on laboratory work with small-scale test equipment, running at standard conditions, and do not necessarily match product performance in industrial use. New knowledge and experiences can lead to modifications and changes within a short time without prior notice. BECAUSE CONDITIONS OF USE ARE OUTSIDE OF HABASIT'S AND ITS AFFILIATED COMPANIES' CONTROL, WE CANNOT ASSUME ANY LIABILITY CONCERNING THE SUITABILITY AND PROCESS ABILITY OF THE PRODUCTS MENTIONED HEREIN. THIS ALSO APPLIES TO PROCESS RESULTS / OUTPUT / MANUFACTURING GOODS AS WELL AS TO POSSIBLE DEFECTS, DAMAGES, CONSEQUENTIAL DAMAGES, AND FURTHER-REACHING CONSEQUENCES.

Fire Hazard Statement

Habasit belts and chains are made of various plastics that WILL BURN if exposed to sparks, incendiaries, open flame or excessive heat. NEVER expose plastic belts and chains to a potential source of ignition. Flames resulting from burning plastics may emit TOXIC SMOKE and gasses as well as cause SERIOUS INJURIES and PROPERTY DAMAGE. See the Fire Hazard Data Sheet for additional information or visit www.habasitamerica.com.



Habasit spiral belts – leaders in spiral innovation and competence

Habasit spiral belts continue at the forefront of spiral belt technology with over 700 systems in operation worldwide for all types of applications. It's a proven technology – used every day in applications throughout plants.

Habasit's unparalleled sales and service network, combined with outstanding technical expertise in spirals, provide the best solutions to customers.

Habasit offers the widest range of plastic modular belts on the market. The Habasit Group is your true full-range supplier for superior solutions. Anywhere. Anytime.

Complementary product ranges include:

- Habiplast® (profiles guides, and wearstrips)
- Habaflow® (fabric conveyor belts)
- Habachain® (plastic and steel chains)
- Habasync® (timing belts)
- Habadrive® (power transmission belts)
- Rossi Gearmotors



Industries

Habasit products are suitable for a wide range of industries, including:

- Bakeries
- Meat & poultry processing plants
- Fish processing plants
- Vegetable industry
- Frozen prepared food
- Book binding

Applications

Spiral belts meet the requirements of a wide range of demanding applications. Typical applications include:

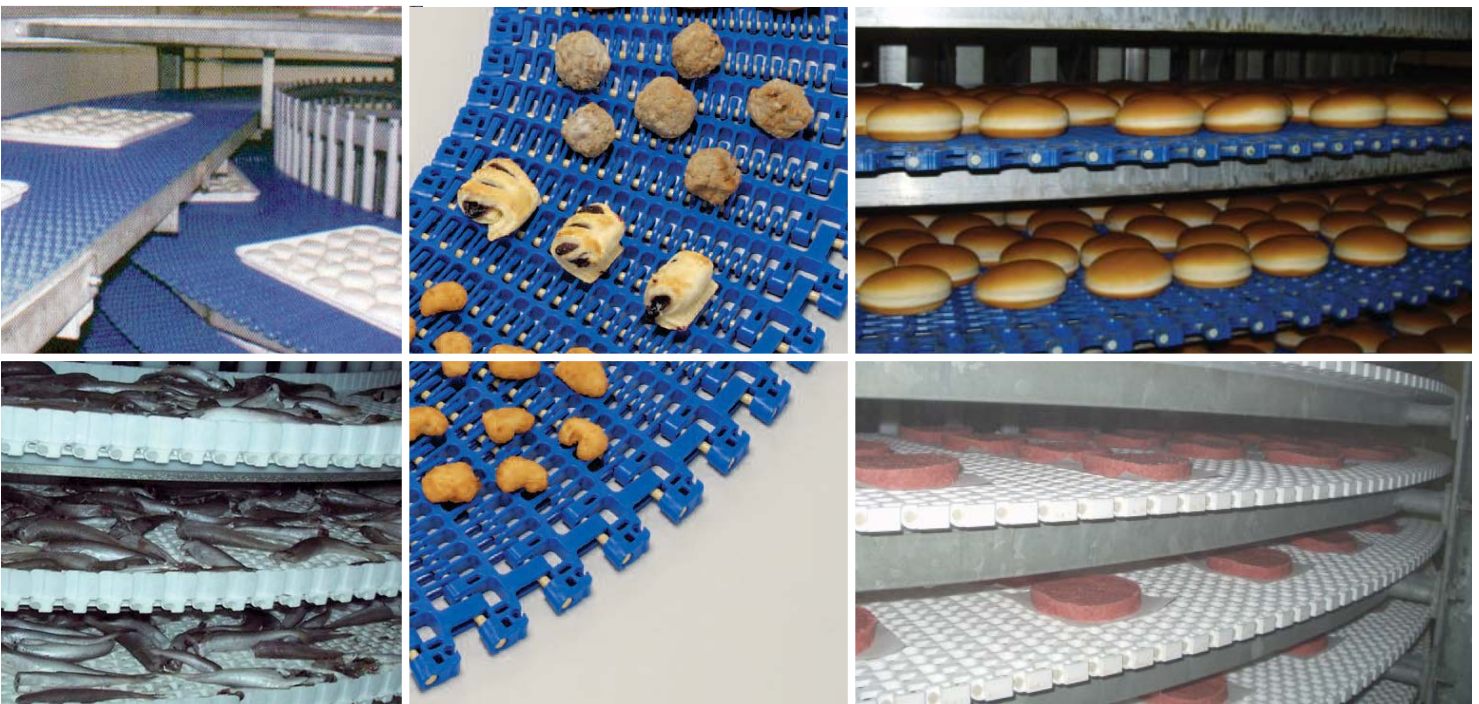
- Proofing lines
- Cooling lines
- Freezing lines



What's in it for you?

By retrofitting your current spiral system or ordering your new spiral system with a Habasit spiral belt, you can:

- **Stop metal belt wear debris and steel lubricant contamination** of your products
- **End stainless steel "blackening"** of your products forever
- **Boost your product yields** with non-stick FDA/USDA direct contact plastic belt surfaces
- **Increase your product throughput** thanks to greater loading capacity of lighter, stronger belts
- **Improve your product's support, orientation, air-flow and drainage** through multiple belt surface configurations and accessories
- **Reduce your spiral down-time** through reduced system wear, lower belt tension, significantly less ice and frost build-up, and quick, thorough belt cleanability
- **Cut back maintenance time:**
 - Reduce "run-in" time, reduce lubrication requirements, and totally eliminate the need for periodic belt "flipping"
 - End periodic wear strip and charge-bar cap replacement
 - Eliminate steel belt cutting, grinding and welding



Belts are available in a variety of materials and colors.
Please contact your local representatives for further information.



**Spiral 1" Pitch Belting
M2544 Tight Radius 1"**

- 1.6x turn radius
- 1100 N / 247 lbs belt pull
- Max. open contact area: 75%
- Max. open area: 38%



**Spiral 1" Pitch Belting
IS610 (All-In-One)**

- 2.2x turn radius
- 1335 N / 300 lbs belt pull
- Max. open contact area: 72%
- Max. open area: 56%



**Spiral 1" Pitch Belting
CT610 (All-In-One Curved Top)**

- 2.2x turn radius
- 1335 N / 300 lbs belt pull
- Max. open contact area: 90%
- Max. open area: 56%
- Curved surface can eliminate transfer gaps



**Spiral 1" Pitch Belting
M2540 Radius Flush Grid 1"**

- 2.2x turn radius
- 1500 N / 337 lbs belt pull
- Max. open contact area: 53%
- Max. open area: 35%
- Provides good support for smaller products or very soft products (less imprint; e.g. dough)



**Spiral 1.5" Pitch Belting
M3843 Tight Radius 1.5"**

- 1.6x turn radius
- 2250 N / 505 lbs belt pull
- Max. open contact area: 50%
- Max. open area: 37%
- Provides good support for smaller products or very soft products (less imprint; e.g. dough)



**Spiral 2" Pitch Belting
PR620 SPS CT**

- 1.6x turn radius
- 2670 N / 600 lbs belt pull
- Max. open contact area: 87%
- Max. open area: 44%
- Curved surface can eliminate transfer gaps

Belts are available in a variety of materials and colors.
Please contact your local representatives for further information.



**Spiral 2" Pitch Belting
M5290 Radius Flush Grid 2"**

- 2.2x turn radius available (molded)
- 2500 N / 570 lbs belt pull
- Max. open contact area: 85%
- Max. open area: 55%
- Excellent for cooling and draining



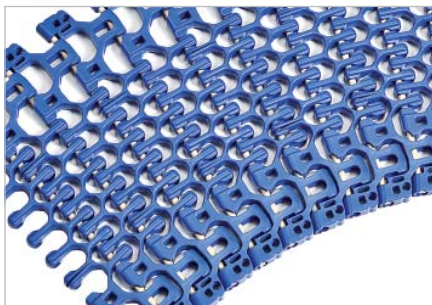
**Spiral 2" Pitch Belting
IS620 (All-In-One)**

- 2.2x turn radius up to 24"
- 2.5x turn radius up to 24"
- 3115 N / 700 lbs belt pull
- Max. open contact area: 75%
- Max. open area: 58%



**Spiral 2" Pitch Belting
M5293 Tight Radius 2"**

- 1.6x turn radius available (molded)
- 2500 N / 570 lbs belt pull
- Max. open contact area: 85%
- Max. open area: 55%
- Excellent for cooling and draining



**Spiral 2" Pitch Belting
PR620 (Spiral Pro)**

- 1.6x turn radius
- 2670 N / 600 lbs belt pull
- Max. open contact area: 65%
- Max. open area: 50%
- Thinner 15mm/.59 inch profile facilitates retrofits



**Spiral 2" Pitch Belting
PR620 SPS (Spiral Pro - Small
Product Surface)**

- 1.6x turn radius
- 2670 N / 600 lbs belt pull
- Max. open contact area: 57%
- Max. open area: 44%
- Provides better support for smaller sized products



**Spiral 2" Pitch Belting
PR620 TTR (Spiral Pro - Tight
Turn Radius)**

- 1.0x turn radius up to 44"
- 1.1x turn radius 44.5" to 50"
- 1780 N / 400 lbs belt pull
- Max. open contact area: 56%
- Max. open area: 44%
- Excellent choice for smaller footprints

Belt Type	Plastic Spiral 1" Pitch Belting M2544 Tight Radius 1"				Plastic Spiral 1" Pitch Belting IS610 (All-In-One)			
Belt pitch	25.8mm (1.0")				25.4mm (1.0")			
Belt material	POM		PP		POM		PP	
Color	blue/white		gray/white		gray/blue		gray/white	
Rod material	PA	SS ^{a)}	POM	SS ^{a)}	PA	SS ^{a)}	POM	SS ^{a)}
Application								
Proofer 35-40°C (95-104°F)	x	x	x	x	x	x	x	x
Freezer -40°C (-40°F)	x	x			x	x		
Cooler ambient	x	x	x	x	x	x	x	x
Standard belt width	start 200mm (8") x 50mm (2") increments				start 6" (152.4mm) x 3" (76.2mm) increments			
Accessories								
Sideguards	na				x			
Lane dividers	x				x			
Grip Top	na		x		b)		x	
Max. open area ^{d)}	38%				56%			
Max. open contact area	75%				72%			
Special features	1" belt for tight radius (consider belt tensile strength) 1.6 x BW turn radius 247 lbs. belt pull (radius)				2.2 x BW turn radius up to 300 lbs. belt pull (radius) Available with curve top modules, flights and high friction modules			

Belt Type	Plastic Spiral 1" Pitch Belting CT610 (All-In-One Curved Top)				Plastic Spiral 1" Pitch Belting M2540 Radius Flush Grid 1"			
Belt pitch	25.4mm (1.0")				25.4mm (1.0")			
Belt material	POM		PP		POM		PP	
Color	gray		gray		blue/white		gray/white	
Rod material	PA	SS ^{a)}	POM	SS ^{a)}	PA	SS ^{a)}	POM	SS ^{a)}
Application								
Proofer 35-40°C (95-104°F)	x	x	x	x	x	x	x	x
Freezer -40°C (-40°F)	x	x			x	x		
Cooler ambient	x	x	x	x	x	x	x	x
Standard belt width	start 6" (152.4mm) x 3" (76.2mm) increments				start 150mm (5") x 50mm (2") increments			
Accessories								
Sideguards	x				x			
Lane dividers	x		x		x		x	
Grip Top	b)		b)		na		x	
Max. open area ^{d)}	56%				35%			
Max. open contact area	90%				53%			
Special features	2.2 x BW turn radius up to 300 lbs. belt pull (radius) Curved top surface for easy release Available flights and high friction modules				One of the strongest 1" plastic belt in the market 2.2 x BW turn radius 337 lbs. belt pull (radius) General spiral belt for small products, excellent product support, excellent release of sticky product.			

Belt Type	Plastic Spiral 1.5" Pitch Belting M3843 Tight Radius 1.5"				Plastic Spiral 2" Pitch Belting PR620 SPS CT			
Belt pitch	38.2mm (1.5")				50.8mm (2.0")			
Belt material	POM		PP		POM			
Color	blue/white		gray/white		blue			
Rod material	PA	SS ^{a)}	POM	SS ^{a)}	PA	SS		
Application								
Proofer 35–40°C (95–104°F)	x	x	x	x	x	x		
Freezer -40°C (-40°F)	x	x			x	x		
Cooler ambient	x	x	x	x	x	x		
Standard belt width	start 200mm (8") x 50mm (2") increments				start 12" (304.8mm) x 1" (25.4mm) increments			
Accessories								
Sideguards			na				x	
Lane dividers			na				x	
Grip Top	na		x		na			
Max. open area ^{d)}	37%				44%			
Max. open contact area	50%				87%			
Special features	1.5" Belt for tight radius (consider belt tensile strength) 1.6 x BW turn radius 505 lbs. belt pull (radius)				1.6 x BW turn radius Radius plugs for large radii up to 600 lbs. belt pull (radius) Thinner .59" (15mm) edge profile facilitates retrofits Increased beam strength			

Belt Type	Plastic Spiral 2" Pitch Belting IS620 (All-In-One)				Plastic Spiral 2" Pitch Belting M5290 Radius Flush Grid 2"			
Belt pitch	50.8mm (2.0")				50.8mm (2")			
Belt material	POM		PP		POM		PP	
Color	gray/blue		gray		blue/white		grey/white	
Rod material	PA	SS ^{a)}	SS ^{a)}	SS ^{a)}	PA	SS ^{a)}	POM	SS ^{a)}
Application								
Proofer 35–40°C (95–104°F)	x	x	x	x	x	x	x	x
Freezer -40°C (-40°F)	x	x			x	x		
Cooler ambient	x	x	x	x	x	x	x	x
Standard belt width	start 7.25" (184.2mm) x 3" (76.2mm) increments				start 20" (508mm) x 2" (50.8mm) increments			
Accessories								
Sideguards	MTO		x				na	
Lane dividers	MTO		x				na	
Grip Top	b)		b)		na		na	
Max. open area ^{d)}	58%				55%			
Max. open contact area	75%				85%			
Special features	2.2 x BW turn radius up to 24" 2.5 x BW turn radius above 24" Radius plugs for large radius up to 700 lbs. belt pull (radius) Available with flights and friction modules				2.2 x BW turn radius 570 lbs. belt pull (radius) Very strong belt with high lateral stiffness. High tensile strength makes this belt suitable for high loaded bread cooler and for heavy tray product. Good product support			

Belt Type	Plastic Spiral 2" Pitch Belting M5293 Tight Radius 2"				Plastic Spiral 2" Pitch Belting PR620 SPS (Spiral Pro - Small Product Surface)			
Belt pitch	50.8mm (2.0")				50.8mm (2.0")			
Belt material	POM		PP		POM		PP	
Color	blue/white		gray/white		blue		blue	
Rod material	PA	SS ^{a)}	POM	SS ^{a)}	PA	SS ^{a)}	PA	SS ^{a)}
Application								
Proofer 35–40°C (95–104°F)	x	x	x	x	x	x	x	x
Freezer -40°C (-40°F)	x	x			x	x		
Cooler ambient	x	x	x	x	x	x	x	x
Standard belt width	start 20" (508mm) x 2" (50.8mm) increments				start 12" (304.8mm) x 1" (25.4mm) increments			
Accessories								
Sideguards	na				x			
Lane dividers	na				x			
Grip Top	na		na		na		na	
Max. open area ^{d)}	55%				44%			
Max. open contact area	85%				57%			
Special features	1.6 x BW turn radius 570 lbs. belt pull (radius) Very strong belt with high lateral stiffness. High tensile strength makes this belt suitable for high loaded bread cooler and for heavy tray product. Good product support				1.6 x BW turn radius Radius plugs for large radius Up to 600 lbs. belt pull (radius) Thinner .59" (15mm) profile facilitates retrofits Better support for small product			

Belt Type	Plastic Spiral 2" Pitch Belting PR620 TTR (Spiral Pro - Tight Turn Radius)				Plastic Spiral 2" Pitch Belting PR620 (Spiral Pro)			
Belt pitch	50.8mm (2.0")				50.8mm (2.0")			
Belt material	POM				POM		PP	
Color	blue				blue		blue	
Rod material	POM	SS ^{a)}			PA	SS ^{a)}	POM	SS ^{a)}
Application								
Proofer 35–40°C (95–104°F)	x	x			x	x	x	x
Freezer -40°C (-40°F)	x	x			x	x		
Cooler ambient	x	x			x	x	x	x
Standard belt width	start 20" (508mm) x 1" (25.4mm) increments up to 50" (1270mm) max				start 12" (304.8mm) x 1" (25.4mm) increments			
Accessories								
Sideguards	x				x			
Lane dividers	x				x			
Grip Top	na				x		x	
Max. open area ^{d)}	44%				50%			
Max. open contact area	56%				65%			
Special features	1.0 x BW turn radius up to 44" 1.1 x BW turn radius 44.5"–50" Up to 400 lbs. belt pull (radius) Thinner .59" (15mm) profile facilitates retrofits Better support for small product				1.6 x BW turn radius Radius plugs for large radius Up to 600 lbs. belt pull (radius) Thinner .59" (15mm) profile facilitates retrofits			

For specific application other belt/rod materials may be used

- a) Product load will determine the frequency of rows with stainless steel rods.
- b) With steel rods the same support distance can in most cases be maintained as used for steel belts.
- c) Simple spirals with load < 10kg/m² evenly distributed up to 500mm are possible.
- d) Open area is depending on belt width.
- e) Reference value. Effective value depending on product load and supports position!

Please contact our local representative for further information.



Customers first

At Habasit we understand that our success depends on your success. This is why we offer solutions, not just products; partnership, not just sales. Since our foundation in 1946, Habasit has brought this understanding of customer needs to life every day and for every application. That's why we're the No. 1 in belting today. Worldwide. Learn more on www.habasit.com

Committed to innovation

Habasit is strongly committed to the continuous development of innovative, value-added solutions. Over 3% of our staff are dedicated exclusively to R&D, and our annual investment in this area exceeds 8% of turnover.

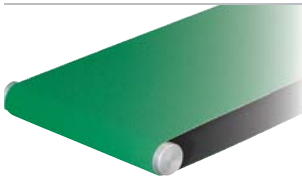
Certified for quality

We deliver the highest quality standards not only in our products and solutions, but also in our employees' daily work processes. Habasit AG is certified according to ISO 9001:2000.

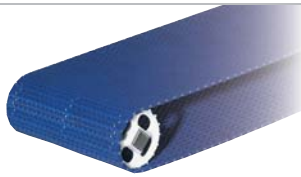


Worldwide leading product range

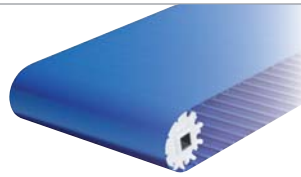
Habasit offers the largest selection of belting, conveying, processing and complementary products in the industry. Our response to any request is nothing less than a specific, tailor-made solution.



Fabric based conveyor and processing belts
HabaFLOW®



Plastic modular belts
HabasitLINK® /KVP®



Positive drive conveyor and processing belts
Habasit Cleandrive™



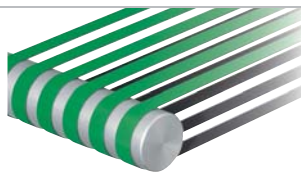
Power transmission belts
HabaDRIVE®



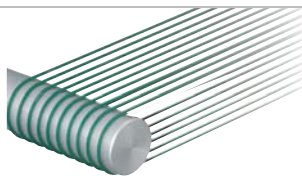
Timing belts
HabaSYNC®



Chains (slat and conveyor chains)
HabaCHAIN®



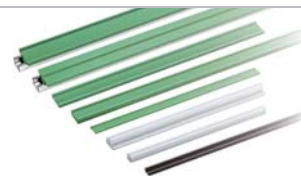
Machine tapes



Round belts



Seamless belts



Profiles, Guides, Wear strips



Fabrication tools (joining tools)



Gearmotors Electric motors

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www.habasisync.com

Rossi is one of Europe's largest manufacturers of gear reducers, gearmotors, inverters, standard and brakemotors, and is a member of the Habasisit Group.

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