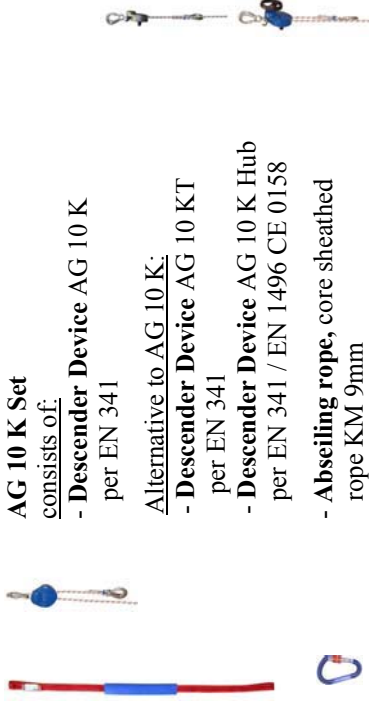


Height Safety and Descending Devices for Wind Power Industry and Climbing Protection



Safety harness in the wind turbine

Evacuation set in the wind turbine

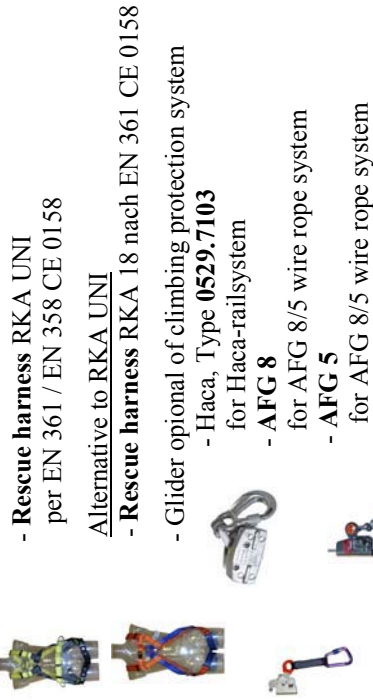
- 
- **AG 10 K Set** consists of:
 - **Descender Device AG 10 K** per EN 341
 - Alternative to AG 10 K:
 - **Descender Device AG 10 KT** per EN 341
 - **Descender Device AG 10 K Hub** per EN 341 / EN 1496 CE 0158
 - **Absailing rope**, core sheathed rope KM 9mm (length according to the high of the wind turbine)
 - Carabiner Alu B
 - Anchorage strip AB 25
 - Equipment bag

Safety harness

Personally equipment for service staff

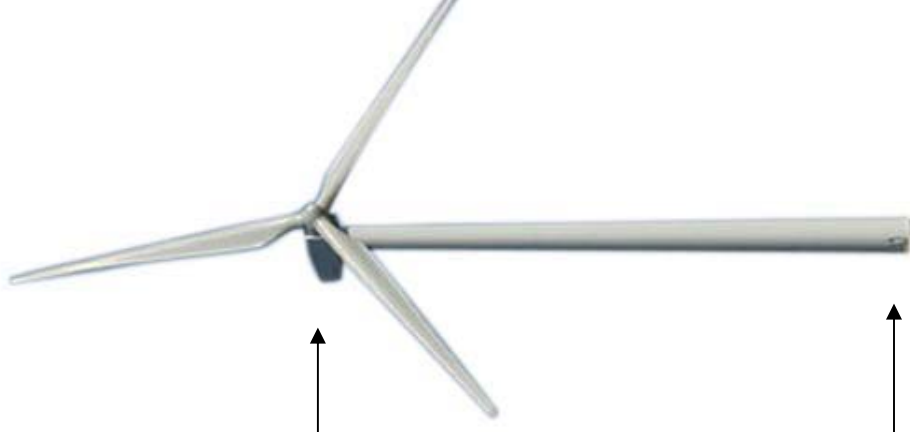
- 
- Rescue harness **RKA UNI** per EN 361 CE 0158
 - **Work positioning rope**, length 2 m EN 358 CE 0158 RHK60-SK12/16-2,0m-EK
 - **Work positioning rope**, length 1 m EN 358 CE 0158 RHK60-KM12/1,0m-FS51
 - **Tape energy absorber BFDS** EN 355 CE 0158
- Alternative:
- **Tape energy absorber with y-lanyard** EN 354 / 355 CE 0158 Total length 2,0 m with Carabiner RHK60
 - **Equipment bag**

Safety harness in the wind turbine for the operating company

- 
- **Rescue harness RKA UNI** per EN 361 / EN 358 CE 0158
 - Alternative to RKA UNI
 - **Rescue harness RKA 18** nach EN 361 CE 0158
 - Glider optional of climbing protection system
 - Haca, Type **0529.7103** for Haca-railsystem
 - **AFG 8** for AFG 8/5 wire rope system
 - **AFG 5** for AFG 8/5 wire rope system

Safety descending devices for service staff and operating company

- 
- AG 10 Hub E Set
 - Descender Device AG 10 Hub E per EN 341 / 1496 with adapter E
 - Absailing rope, core sheathed rop, length according to the high of the wind turbine
 - Equipment bag
 - Accessory Set
 - Guided type fall arrester SK12/16 on a flexible anchorage line per EN 353-2, 7 m length
 - Rope clamp HK12/16
 - Device to keep away the rope
 - Header
 - Accessory bag



Product data sheet

Safety harness in the wind turbine for the operating company



Rescue Harness RKA UNI

EN 361 / EN 358 CE 0158

- waistbelt with friction buckle
- waistbelt with climbing protection eye
- lateral attachment elements
- shoulder straps with friction buckle
- adjustable chest strap with buckle
- suspension eye, rear suspension eye
- back support
- leg belt with mandril buckle

Glider optional of climbing protection system:



Haca, Typ 0529.7103 for Haca-railsystem

- with opening mechanism, insertion and extraction on each place on the rail
- qualified for long-term work



Glider AFG 8 for AFG8/5 wire rope system

- for 8 mm wire rope
- with opening mechanism
- with safty catch for prevention of a mistaken montage at the rope
- with non-detachable, textile tape energy absorber



Glider AFG 5 for AFG 8/5 wire rope system

- for 8 mm wire rope
- with rotary rotator and carabiner
- with opening mechanism
- with safty catch for prevention of a mistaken montage at the rope



- for 8 mm wire rope
- without rotary rotator
- with carabiner
- with opening mechanism
- with safty catch for prevention of a mistaken montage at the rope

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Product data sheet

Alternative: Safety harness wind
Personally equipment for service staff



Rescue Harness RKA UNI

EN 361 / EN 358 CE 0158

- waistbelt with friction buckle
- waistbelt with climbing protection eye
- lateral attachment elements
- shoulder straps with friction buckle
- adjustable chest strap with buckle
- suspension eye, rear suspension eye
- back support
- leg belt with mandril buckle



Tape energy absorber with y-lanyard

EN 354 / 355 CE 0158

- Total length 2,0 m with
- with Aluminiumcarabiner RHK60



Equipment bag

- with 1 shoulder strap
- with sheet protector for documentation
- with pull closing

Product data sheet

Safety harness wind
 Personally equipment for service staff



Rescue Harness RKA UNI

EN 361 / EN 358 CE 0158

- waistbelt with friction buckle
- waistbelt with climbing protection eye
- lateral attachment elements
- shoulder straps with friction buckle

- adjustable chest strap with buckle
- suspension eye, rear suspension eye
- back support
- leg belt with mandril buckle



Work positioning rope

EN 358 CE 0158

RHK60-SK12/16-2,0m-EK

- Core sheathed rope 12 mm
- length 2,0 m
- Aluminiumcarabiner RHK60



Work positioning rope

EN 358 CE 0158

RHK60-KM12/1,0m-FS51

- core sheathed rope 12 mm
- length 1,0 m
- with aluminiumcarabiner RHK60 and steelcarabiner FS 51



Tape energy absorber BFD S

EN 355 CE 0158

with aluminium carabiner Alu 235



Equipment bag

- with 2 shoulder straps
- with carding closing

Product data sheet

Alternative 1: Evacuation-Set Wind KT

Rescue equipment in the in the wind turbine for evacuation

Set AG 10 KT consists of:



Descender Device AG 10 KT

EN 341 CE 0158

Device class:	A
Permitted descend high:	max. 200 m
Permitted descend high for 2 persons:	max. 125m
Max. descend load:	150 kg
max. descend load for 2 persons:	225 kg
Abseiling speed:	0,7 m/s
Device weight:	0,9 kg (without rope)

- with abseiling rope, core sheathed rope 9 mm
⇒ length according to the high of the wind turbine



Carabiner Alu B

EN 362 CE 0158

- material: aluminium
- with screw coupling



Equipment bag

- with 1 shoulder strap
- with sheet protector for documentation
- with pull closing



Anchorage strip AB 25

length 1,5 m (strip length 3,0 m)

Product data sheet

Alternative 2: Evacuation-Set Wind K Hub A

Rescue equipment in the in the wind turbine for evacuation

Set AG 10 K Hub A consists of:



Descender Device AG 10 K Hub A EN 341 CE 0158

Device class:	A
Permitted descend high:	max. 200 m
Permitted descend high for 2 persons:	max. 125m
Max. descend load:	150 kg
max. descend load for 2 persons:	225 kg
Abseiling speed:	0,7 m/s
Device weight:	1,2 kg (without rope)

- with abseiling rope, core sheathed rope 9 mm
⇒ length according to the high of the wind turbine



Carabiner Alu B EN 362 CE 0158

- material: aluminium
- with screw coupling



Equipment bag

- with 1 shoulder strap
- with sheet protector for documentation
- with pull closing



Anchorage strip AB 25 length 1,5 m (strip length 3,0 m)

Product data sheet

Evacuation-Set Wind K
 Rescue equipment in the wind turbine for evacuation

Set AG 10 K consists of:



Descender Device AG 10 K
 EN 341 CE 0158

Device class: A
 Permitted descend high: max. 200 m
 Permitted descend high
 for 2 persons: max. 125m
 Max. descend load: 150 kg
 max. descend load
 for 2 persons: 225 kg
 Abseiling speed: 0,7 m/s
 Device weight: 0,9 kg (without rope)

- with abseiling rope, core sheathed rope 9 mm
 ⇒ length according to the high of the wind turbine



Carabiner Alu B
 EN 362 CE 0158
 - material: aluminium
 - with screw coupling



Anchorage strip AB 25
 length 1,5 m (strip length 3,0 m)



Equipment bag
 - with 1 shoulder strap
 - with sheet protector for documentation
 - with pull closing

Product data sheet

Rescue, hoisting and abseiling equipment wind
 Rescue equipment for service staff

AG 10 Hub E



Descender Device AG 10 Hub E

EN 341 / EN 1496 CE 0158

- with adapter E
- with equipment bag

Device class:	A
Permitted abseiling high:	max. 400 m
Permitted abseiling high for 2 persons:	max. 100 m
Max. abseiling load:	150 kg
Max. abseiling load for 2 persons:	225 kg
Abseiling speed:	0,7 m/s
Device weight:	4,8 kg (with adapter)

- with abseiling rope, core sheathed rope 9 mm
 ⇒ length according to the high of the wind turbine



Equipment Rucksack, big

D = 350 mm, H = 740 mm, useable high 550 mm

Capacity: 52 Liter

Colours: blue
 black

Accessory Wind



Required accessory for the rescue from the ladder, out of the hub, from the gunwale












- Guided type fall arrester SK12/16 on a flexible anchorage line
 RHK60-SK12/16 per EN 353-2 CE 0158, length 7 m
- Rope clamp HK12/16
- Device to keep away the rope
- Header
- Accessory bag

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Illustration	Quantity	()	Description
Climbing protection			
	1	set	Climbing protection system vertical lifeline system for AFG 5 / AFG 8 EN 353-1 CE 0158
	1	pc.	<u>Consists of:</u> fastening point at the top over 5 ladder rungs fastening point at the bottom over 2 ladder rungs turn buckle shackle clamp an thimble for wire rope
	1	pc.	
	1	pc.	
	2	pc.	
	1	pc.	
	1	m	Wire rope 8mm, steel zinc coated
	1	pc.	Intermediate rope guide
	1	pc.	Runner / Glider AFG 8 with energy absorber for wire rope system - for 8 mm wire rope - with opening mechanism - with safety catch for prevention of a mistaken montage at the rope - with non-detachable, textile tape energy absorber
	1	pc.	Runner / Glider AFG 5 with rotator for wire rope system - for 8 mm wire rope - with rotary rotator and carabiner - with opening mechanism - with safety catch for prevention of a mistaken montage at the rope
	1	Pc.	Runner / Glider AFG 5 without rotator for wire rope system - for 8 mm wire rope - without rotary rotator - with carabiner - with opening mechanism - with safety catch for prevention of a mistaken montage at the rope








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	1	set	Climbing protection system vertical lifeline system AFG 5 / AFG 8 EN 353-1 CE 0158
	1	pc.	<u>Consists of:</u> fastening point at the top over 3 ladder rungs
	1	pc.	shackle
	1	pc.	fastening point at the bottom over 2 ladder rungs
	1	pc.	turn buckle
	1	pc.	shackle
	1	pc.	clamp and thimble for wire rope
			Accessories to choose from above as for 5 ladder rungs set




Harness and Ropes

	1	pc.	Full body harness RKA 18 EN 361 / 358 CE 0158
	1	pc.	Full body harness RKA UNI with small back support and friction buckle on waistbelt and adjustable chest strap with buckles on leg belt EN 361 / 358 CE 0158 Size 0 Size 1
	1	pc.	Full Body Harness RKA UNI EDS with big back support and adjustable chest strap with buckles on legbelt and waistbelt EN 361 / 358 CE 0158 Size 0 Size 1
	1	pc.	Vest-harness RKA – 18 W EN 361 CE 0158 incl. Harness RKA 18





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	1	pair	Shoulder pad for rescue harness with popper for belt strap, 45 mm
	1	pc.	Backpack Material: water-repellend cortex with padded shoulder straps and stuff lock L= ca. 30 L D= 280mm, H= 700mm, usable high: 500mm Colour: black or blue
	1	pc.	Aluminium Box 29 L 400 x 300 x 245 mm inside diamentions 432 x 335 x 277 mm inside diamentions with reinforced edges
	1	pc.	Work Positioning Rope EN 358 CE 0158 RHK 60-KM12/2,0m-SK12-EK Core sheathed rope 12 mm length 2,0 m with carabiner RHK 60 and rope clamp SK 12/16
	1	pc.	Work Positioning rope, Length 1 m RHK60-KM12/1,0m-FS51 EN 358 CE 0158 Core Sheathed rope 12 mm, Length 1,0 m, manufactured with Alu Carabiner RHK60 and Steel Carabiner FS51
	1	pc.	Tape Energy Absorber BFD S EN 355 CE 0158
	1	pc.	Single-lanyard with tape energy absorber EN 355 / EN 354 CE 0158 BFDS/FS51-KM12-2,0m-RHK60 Manufactured with RHK60 aluminium pipe hook Entire length 2,0 m








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	1	pc.	<p>Tape Energy absorber with double lanyard Y-rope EN 354 / EN 355 CE 0158 BFD/FS51-KM12-2,0m-RHK60/RHK60</p> <p>Core sheathed rope 12mm, total length 2,0m, Y-rope manufactured with 2 pipe hook carabiner RHK 60</p>
	1	pc.	<p>Anchorage string AB 25</p> <p>Length 1,0 m (string length 2,0 m) (double folded)</p> <p>Length 1,5 m (string length 3,0 m) (double folded)</p>
	1	pc.	<p>Safety carabiner Alu B1 EN 362:2004/B CE 0158 with swivel nut</p>

Descending Devices





	1	set	<p>AG 10 K Set Self-Evacuation-Set for abseiling form the top of the windturbine in case of a fine in the tower</p> <p><u>Consists of:</u> Descender Device AG 10 K EN 341 CE 0158 Anchorage string 1,0 m with carabiner Alu B1 Device Bag with one shoulder strap + Abseiling rope, 9mm in required length</p>
	1	pc.	<p>Anchorage string 1,0 m with carabiner Alu B1</p>
	1	pc.	<p>Device Bag with one shoulder strap</p>
	1	m	<p>Abseiling rope, 9mm core sheathed rope assembled with carabiner Alu 235 on both rope ends, length depending on the height of the windturbine</p>

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	1	set	<p>AG 10 K Hub A Set</p> <p><u>Consists of:</u></p> <ul style="list-style-type: none"> - Descender Device AG 10 K Hub A EN 341 / EN 1496 CE 0158 - Instruction for use and test specification - Device Bag - Core sheathed rope KM 9 mm, abseiling rope manufactured with Carabiner Alu 235, length 130 m
	1	pc.	Device Bag with one shoulder strap
	1	pc.	Abseiling rope, 9mm core sheathed rope assembled with carabiner Alu 235 on both rope ends, length 130 m
	1	set	<p>AG 10 Hub E Set with 130 m Abseiling rope</p> <p><u>Consists of:</u></p> <ul style="list-style-type: none"> - Decender Rescue Device AG 10 Hub EN 341 / EN 1496 CE 0158 with adapter E for ladder / rail and work positioning rope SK12/16 - Instruction for use - Device backpack - Core sheathded rope 9 mm manufactured as abseiling rope with carabiner Alu 235, length 130m
	1	pc.	Device Bag with one shoulder strap
	1	pc.	Abseiling rope, 9mm core sheathed rope assembled with carabiner Alu 235 on both rope ends, length 130 m
	1	set	<p>Required accessories for the rescue from the ladder, out of the AG 10 hub E, from the gunwale</p> <p><u>Consists of:</u></p> <ul style="list-style-type: none"> - Guided type fall arrester SK12-16 on a flexible anchorage line - RHK60-SK12/16 EN 353-2 CE 0158 (length 7,0 m) - Rope clamp HK 12/16 - Header - Device to keep the rope away - Anchorage sling - Bag for accessories

	1	pc.	<p>Descender Device AG 10 S EN 341 CE 0158 The AG 10 S has an additional manually operated brake that pauses the descent process (e.g. for avoiding an obstacle). Application f.e. rotor blade cleaning</p>
	1	m	<p>Core sheathed rope KM 9 mm as abseiling rope, assembled with steel triple lock carabiner</p>

Climbing Devices

	1	pc.	<p>Sling for prusik knot 9 mm, entire length 4,0m</p>
	1	pc.	<p>Anchorage sling AB 25 Length 0,8 m</p>
	1	pc.	<p>Belaying and abseiling device „abseiling eight“</p>
	1	pc.	<p>Alternative to above: Belaying device</p>
	1	set	<p>Set for climbing sports – 65m consist of: 1 pc. Belaying and abseiling device abseiling eight 1 pc. Sling for prusikknot 1 pc. Anchorage sling AB 25, length 0,8 m 1 pc. Core sheathed rope KM 10 mm, length 65 m, double-sided manufactured with Alu B1 1 pc. Device backpack, small size</p>
	1	set	<p>Set for climbing sports – 75m consist of: 1 pc. Belaying and abseiling device abseiling eight 1 pc. Sling for prusikknot 1 pc. Anchorage sling AB 25, length 0,8 m 1 pc. Core sheathed rope KM 10 mm, length 75 m, double-sided manufactured with Alu B1 1 pc. Device backpack, small size</p>

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