



The safety expert

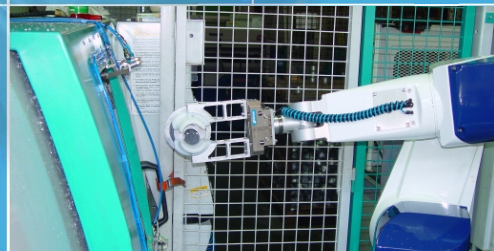
Certified according to:
DIN EN ISO 9001:2000,
article 11B with the directive 89/686/ECC
(Personal Protective Equipment)

Protection

Quality

Reliability

in your working environment





Height-safety devices

IKAR specific product information

IKAR height-safety devices in accordance with DIN EN 360 are produced for maximum durability using outstanding technology for the demanding conditions of the workplace. All the components important for the device functioning are made from rustproof material, aluminum or stainless steel and shockproof plastic. This sturdy method of construction ensures that IKAR height-safety devices are always reliable in use and especially low-maintenance.

The IKAR height-safety device is similar to a car safety belt in the way it functions. A restoring spring keeps the rope or polyamide strap (depending on the model) taught allowing it to respond immediately in the event of a fall without a slack rope.

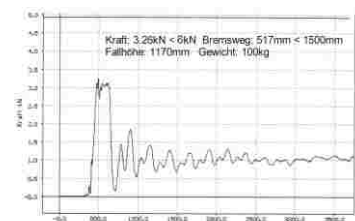
If the working speed (approx. 1.5 m/sec.) is exceeded, the catches which activate the brake system lock into place as a result of centrifugal forces. The fall absorption required for the height-safety devices is attained via a new type of brake system (disk brake) which can only be set from the inside.



Brake values, which you can see on the brake diagram opposite, are independent of any weather situation or application and far below the 6 kN limit specified by the DIN EN standard.

All IKAR height-safety devices are constructed according to DIN EN 360 and have the requisite test approvals (CE 0299). Our products enjoy sales throughout the world.

IKAR height-safety devices are used when working on high buildings, chimneys, roofs and at other workplaces involving a fall hazard. We also provide solutions for safety-relevant and problematic work areas (e.g. silos, shafts).



IKAR fall protection systems function in any location position and have been tested in a simulated fall trial over an edge.

Informationen

Requirements corresponding to the new draft of DIN EN 360: "Height-safety devices for horizontal use"

To put things simply: IKAR height-safety devices fulfill this standard!

All our height-safety devices are tested in accordance with the requirements based on the new draft of DIN EN 360 (height-safety devices) and have the requisite test approvals.

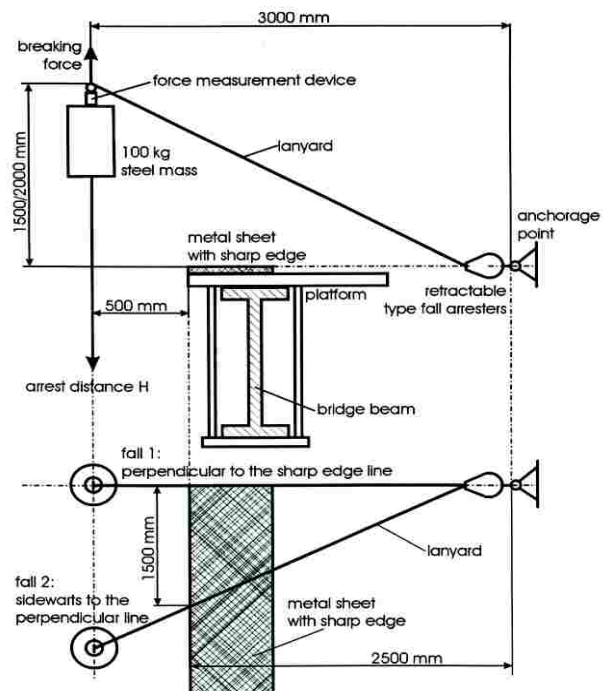
IKAR height safety devices are certified in accordance with CE by the test and certification body of the "Personal Safety Equipment" technical committee. The functional capability of the height-safety devices is guaranteed by testing them in extreme situations (e.g. heat, cold, damp).



The new draft of DIN EN 360 requires that all height-safety devices are also tested in horizontal use. Falling over a sharp edge in particular is tested for this. The tests have confirmed that IKAR height-safety devices satisfy this new standard.

List of the requirements for the new DIN EN 360: Diagram showing a dynamic test procedure

- Design and ergonomics
- Materials and construction
- Blocking after pre-treatment
 - Blocking in a horizontal position
- Static load bearing capacity
 - Static load bearing capacity for horizontal applications
- Dynamic performance
 - Dynamic performance for horizontal applications
 - Dynamic load bearing capacity for horizontal applications
- Optional requirement in respect to fatigue strength
- Corrosion resistance
- Identification and information





Height-safety Devices

IKAR flexible according to DIN EN 360

Housing design: Plastic or aluminium

Connecting device: Webbing strap or galvanized steel rope

Sturdy, low-maintenance height-safety device with webbing strap or galvanized steel rope, low weight thanks to extra light plastic housing but also with aluminium housing and rotational hook suspension. The rotational hook prevents the strap or rope from twisting. For suitable connecting elements (with surcharge), see Page 23



IKAR fall protection systems function in any location position and have been tested in a simulated fall trial over an edge.



Type Order no.	Connecting device	Housing	Weight	Dimensions (mm)	Carabiner hook (mm)
41-HWB 2	2.00 m Web	Aluminium	0.8 kg	240 x 84 x 61	140
41-HWB 2,5	2.50 m Web	Aluminium	1.2 kg	315 x 123 x 75	140
41-HWB 3,5	3.50 m Web	Aluminium	1.4 kg	315 x 123 x 75	140
41-HWPB 3,5	3.50 m Web	Plastic	1.2 kg	326 x 104 x 78	140
41-HWPB 5,5	5.50 m Web	Plastic	1.5 kg	300 x 130 x 78	140
41-HWPB 7	7.00 m Web	Plastic	1.8 kg	300 x 145 x 80	140
41-HWPB 9	9.00 m Web	Plastic	2.3 kg	335 x 167 x 88	140
41-HWPB 12	12.00 m Web	Plastic	3.4 kg	370 x 195 x 95	140
41-HWPB 15	15.00 m Web	Plastic	4.8 kg	400 x 195 x 95	140
41-HWS 4,5	4.50 m Steelrope	Aluminium	2.7 kg	400 x 130 x 78	140
41-HWS 6	6.00 m Steelrope	Aluminium	3.0 kg	400 x 145 x 80	140
41-HWS 9	9.00 m Steelrope	Aluminium	3.7 kg	455 x 160 x 85	140
41-HWS 12	12.00 m Steelrope	Aluminium	5.4 kg	490 x 190 x 95	140
41-HWS 18	18.00 m Steelrope	Aluminium	6.9 kg	540 x 220 x 97	140
41-HWS 24	24.00 m Steelrope	Aluminium	8.4 kg	575 x 250 x 97	140
41-HWPS 3	3.00 m Steelrope	Plastic	1.9 kg	390 x 104 x 78	140
41-HWPS 4,5	4.50 m Steelrope	Plastic	2.1 kg	400 x 130 x 78	140
41-HWPS 6	6.00 m Steelrope	Plastic	2.5 kg	420 x 145 x 80	140
41-HWPS 9	9.00 m Steelrope	Plastic	3.2 kg	460 x 168 x 88	140
41-HWPS 12	12.00 m Steelrope	Plastic	4.9 kg	500 x 195 x 95	140
41-HWPS 18	18.00 m Steelrope	Plastic	6.3 kg	540 x 220 x 97	140
41-HWPS 24	24.00 m Steelrope	Plastic	7.3 kg	570 x 250 x 97	140

Explanation for the device names

H = Height-safety device, W = Rotational hook suspension, S = Galvanized steel rope, B = webbing strap, P = Plastic housing, Number = Length of the retractable connecting element

Example:

HWB 2.5 means: Height-safety device with swivel and strap, length of the harness strap 2.5 m

All devices can also be delivered with tube hook (surcharge)

Height-safety Devices

IKAR robusto according to DIN EN 360

Housing design: Plastic or aluminium

Connecting device: Webbing strap or galvanized steel rope

Sturdy, low-maintenance height-safety device with galvanized steel rope or webbing strap as retractable connecting element. Version with aluminum housing or plastic housing, approved for vertical and horizontal work.

IKAR fall protection systems feature a very high safety standard and worldwide proven technology.

For suitable connecting elements (with surcharge), see page 23



IKAR fall protection systems function in any location position and have been tested in a simulated fall trial over an edge.

Type Order no.	Connecting device	Housing	Weight	Dimensions (mm)	Carabiner hook (mm)
41-H 12	12.00 m Steelrope	Aluminium	5.9 kg	450 x 195 x 90	170
41-H 18	18.00 m Steelrope	Aluminium	9.5 kg	550 x 240 x 100	170
41-H 24	24.00 m Steelrope	Aluminium	13.5 kg	630 x 275 x 110	170
41-H 33	33.00 m Steelrope	Aluminium	18.0 kg	640 x 320 x 120	170
41-H 42	42.00 m Steelrope	Aluminium	27.2 kg	750 x 370 x 120	170
41-H 60	60.00 m Steelrope	Aluminium	38.0 kg	780 x 390 x 150	170
41-HPB 7	7.00 m Web	Plastic	2.9 kg	370 x 195 x 100	170
41-HPB 14	12.00 m Web	Plastic	4.4 kg	550 x 240 x 100	170
41-HPS 5	5.00 m Steelrope	Plastic	2.9 kg	430 x 150 x 91	170
41-HPS 6	6.00 m Steelrope	Plastic	3.0 kg	430 x 150 x 91	170
41-HPS 12	12.00 m Steelrope	Plastic	4.6 kg	470 x 190 x 114	170
41-HPS 18	18.00 m Steelrope	Plastic	6.7 kg	540 x 225 x 96	170

Explanation for the device names

H = Height-safety device, **S** = Galvanized steel rope, **B** = webbing strap, **P** = Plastic housing

Number = Length of the retractable connecting element **Example:** HPS 12 means: Height-safety device, plastic housing and steel rope, length of the steel rope 12 meters



Height-safety Devices with rescue hoisting facility

IKAR HRA according to DIN EN 360/1496

Housing design: Aluminium or plastic
Connecting device: Galvanized steel rope

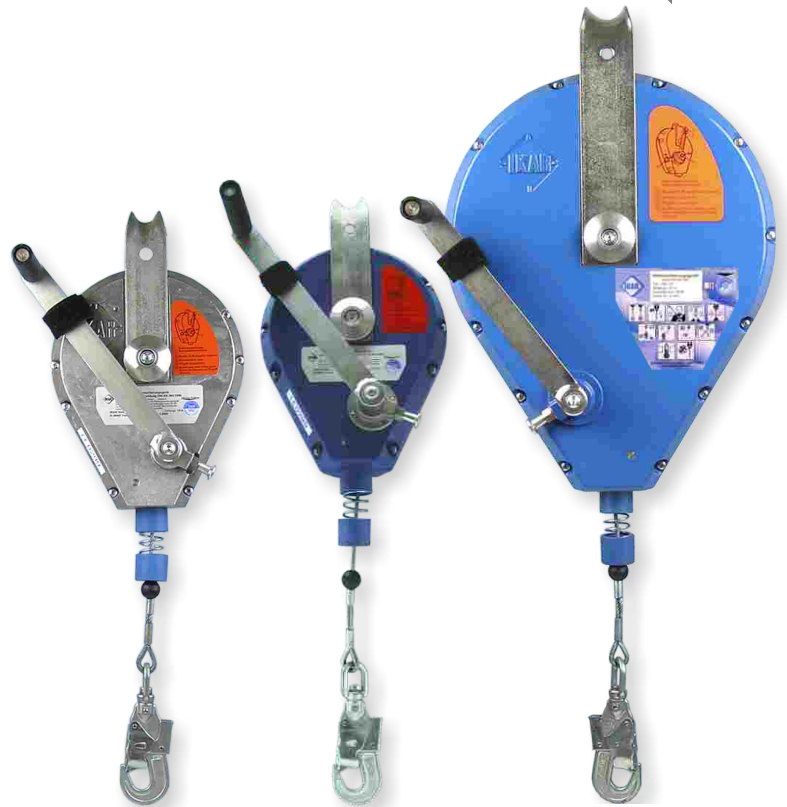
IKAR height-safety devices with rescue hoisting facility (type HRA) are equipped with a winching unit. In case of a rescue after a fall, this winch unit can easily be snapped-in by a second person e.g. in case of unconsciousness through gas in shafts or channels.

The person who has suffered the accident can therefore be rescued quickly and safely. The unit is completely closed and has no wearing parts. All parts are made from stainless steel, aluminium or shockproof plastic. Different steel rope lengths ensure that a suitable device is available for every application.

(Special steel rope lengths are possible!)

IKAR height-safety devices with rescue hoisting facility have a very high standard of safety using technology which has proven its excellence throughout the world.

For suitable connecting elements (with surcharge), see Page 23.



Type Order no.	Connecting device	Housing	Weight	Dimensions (mm)	Carabiner hook (mm)
41-HRA 9.5	9.50 m Steelrope	Aluminium	7.0 kg	450 x 195 x 90	170
41-HRA 15	15.00 m Steelrope	Aluminium	11.5 kg	570 x 240 x 210	170
41-HRA 24	24.00 m Steelrope	Aluminium	16.0 kg	630 x 275 x 110	170
41-HRA 30N	30.00 m Steelrope	Aluminium	21.0 kg	640 x 315 x 112	170
41-HRA 42	42.00 m Steelrope	Aluminium	40.0 kg	740 x 370 x 260	170
41-HRA 60	60.00 m Steelrope	Aluminium	43.0 kg	780 x 390 x 150	170
41-HRA 15p	15.00 m Steelrope	Plastic	10.3 kg	620 x 231 x 152	170

Accessories:

41-S30 Winch chain drive, available for all HRA devices

IKAR height-safety devices with rescue hoisting facility and winch chain, the unique alternative for every rescue situation. The winch chain enables easy use of the winch in the HRA device, even if the load fastening point of the device is located in a very high position.

Application example: Entering shafts. The height-safety device is stationary mounted on a vehicle rendering the load fastening point very high, with the result that a rescue via a hand-crank device is not possible.

Explanation for the device names

H = Height-safety device, **R** = Rescue hoisting device, **S** = Let-down function, **P** = Plastic housing, **Number** = Length of the retractable connecting element

Example: HRA 15 means: Height-safety device with rescue hoisting equipment, length of the steel rope 15 meters

