

EU-Type Examination Certificate

No. P5A 089530 0013 Rev. 00

Holder of Certificate: **TruBlue LLC**
dba Head Rush Technologies
1699 Cherry Street
Louisville CO 80027
USA

Product: **PPE against fall from a height**
Auto Belay Device in accordance with EN 341-1A,
EN 360, conform to RFU PPE-R/ 11.128

Model(s): **TRUBLUE iQ+, TBiQ+LT (12.5 m)**
TRUBLUE iQ+, TBiQ+XL (20 m)

Tested according to: DIN EN 341:2011
DIN EN 360:2002
RfU PPE-R/11.128 V2:2020

The Certification Body of TÜV SÜD Product Service GmbH confirms that the listed product fulfils the basic requirements with Annex V (Module B) of Regulation (EU) 2016/425 on personal protective equipment according to Article 19 (PPE of category III). This certificate refers only to the submitted sample for testing and certification and on its technical documentation. The validity of this certificate based on an ongoing surveillance in accordance with Module C2 or D of Regulation (EU) 2016/425 by a Notified Body. For details see: www.tuvsud.com/ps-cert

Test report no.: 713261538

Valid until: 2028-03-09

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(Matthias Völz)

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Parameters:

Function principle:	<p>-when climbing tension in the auto belay device descent webbing line is given by the rewind system via rewind spring;</p> <p>-when descending (or falling while climbing) auto belay device controls descent speed of a person by dissipating the potential energy in the eddy current brake; descending speed is not constant, at start the speed is higher than at landing; brake strength of eddy current brake is controlled by reaction springs of rotor blades.</p> <p>-when activated, a secondary friction brake system catches and holds a user in position so that rest can be taken during climbing. The secondary friction brake is electrically controlled by buttons that are located at the bottom and top of the climbing route and is powered by a rechargeable Li-Ion battery. The secondary friction brake system is independent from magnetic brake system. The magnetic brake system is the primary braking system and cannot be disconnected.</p>
Construction:	<p>self-retracting automatic descender device with central axis, self-retractable descent webbing line, activated by retraction spring, gear transmission to eddy current brake with 3 rotor arms and permanent magnets; planet carrier which holds the gear train; spring hub plate that holds the retraction spring; 2 body casings (aluminium), one half with primary and secondary mount and handle; with plastic covers; lower webbing line with shackle</p> <p>(37,5 mm x 21,2 mm, Ø6,3 mm pin) replaceable by opening nozzle;</p> <p>Secondary friction brake system sits with its cage on central axis; electromagnetic activation and release of friction plates;</p> <p>TruBlue iQ+, TBIQ+LT (12.5m) and TruBlue iQ+, TBIQ+XL (20m) differ only in descent webbing line length and retraction spring length;</p>
Descent webbing line:	<p>Polyamide/ UHMWPE-webbing; 25,4 mm wide, 1,91 mm thick; guaranteed break strength: 17,8 kN;</p> <p>Upper webbing line in device connected to drum and shackle; lower webbing line (replaceable by client) from shackle to webbing line connector; webbing line end outside device doubled and stitched, with end termination loop with 6 stitching bars; abrasion protection by tube webbing;</p> <p>-TruBlue iQ, TBIQ-LT (12.5m): 12,5 m label</p> <p>-TruBlue iQ, TBIQ-XL (20m): 20 m label;</p>
Webbing connector:	<p>TRU LOCK aluminium swivel carabiner; directional EN 362-A/T connector with automatic gate locking device (triple-lock) and swivel; stitched into end loop of webbing line; alternatively other EN 362 certified triple action swiveling connectors;</p>

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TBIQ+ electrical components:	Base button: for activating secondary friction brake system and (Tail assembly) -for choosing secondary friction brake hold time (3 time settings) -contents battery -stationary located on wall at start of climbing route Battery: -Li-Ion; Voltage 18 V; Capacity 2.2 Ah/ 39.6 Wh; -chargeable by battery charger Summit button: -disengages secondary friction brake (wing assembly) -stationary located on wall at end of climbing route Fall sensor: -detects fall of user -located at secondary friction brake Brake stator: -Electromagnet, which activates secondary friction brake when signal from fall sensor logic at fall of user -located at secondary friction brake All components are connected by communication cable Firmware: version 1.0.2
Device measures:	369 mm x 292 mm x 265 mm;
Working load:	-TruBlue iQ+, TBIQ+LT (12.5m): min: 10 kg; max: 140 kg; -TruBlue iQ+, TBIQ+XL (20m): min: 10 kg; max: 140 kg;
Min/max. permitted descending speed:	0.5-2 m/s;
Max. tested descent height:	measured from nozzle to ground: -TruBlue iQ+, TBIQ+LT (12.5m): 12,5 m -TruBlue iQ+, TBIQ+XL (20m): 20 m
Min. tested descent height:	measured from nozzle to ground: --TruBlue iQ+, TBIQ+LT (12.5m): 4,5 m -TruBlue iQ+, TBIQ+XL (20m): 12,0 m
Min. temperature:	-4°C; if kept dry: -10°C
Weight:	-TruBlue iQ+, TBIQ+LT (12.5m): 19,2 kg -TruBlue iQ+, TBIQ+XL (20m): 22,0 kg
Marking:	manufacturer address, model, CE-marking, "read instructions"-pictogram; serial no.; manufacturing date; in accordance with EN 341:2011-1A and EN 360: 2002; temperature range; min/ max mounting height; min/ max user weight; max descent rate: 2.0 m/s; on rope EN 341: manufacturing date; manufacturer; length;

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