



OXFORD, ENGLAND

RESCUE & EVACUATION DEVICE



Dsend™
600+

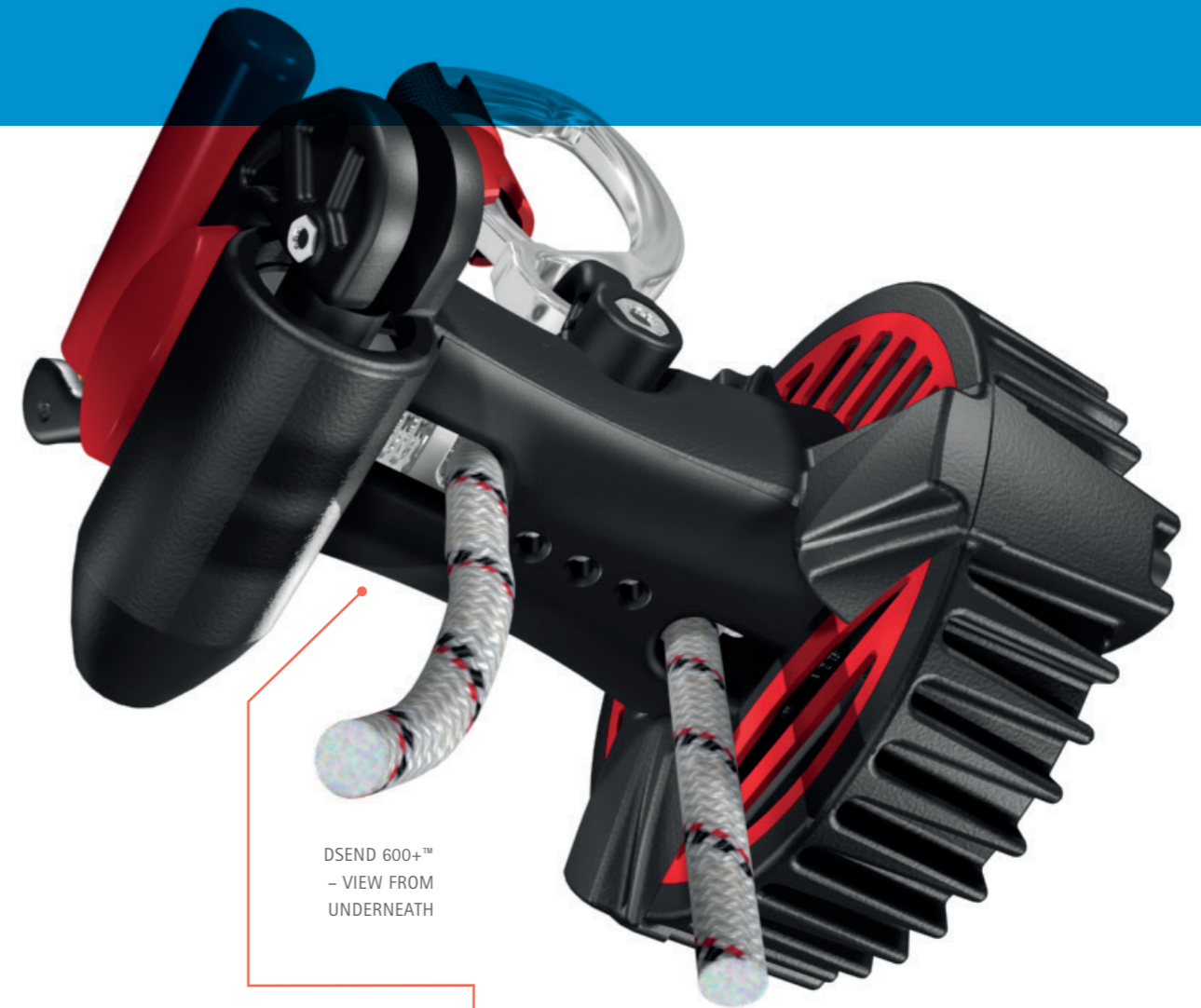
PRODUCT MISSION

All professionals working at height know that a rescue situation is a risk and can become a challenge to handle. Our mission was to develop a device that is simple and safe to use under extreme loads and heights. At the same time user-friendly and easy to learn. All to eliminate as many risks as possible in evacuation and rescue situations.



PRODUCT FEATURES

DSEND 600+™ is developed by working at height professionals. Every detail is optimized with respect to rescue operations in an emergency. DSEND 600+™ is designed without any gears between the rope and the brake – Direct Drive. DSEND 600+™ is cast in aluminum for strength and durability.



DSEND 600+™
– VIEW FROM
UNDERNEATH

- Markets first true 282kg device.
- No rotating parts or handles.
- Manual hold.
- Silent and reliable
- Self-cooling
- 282kg hoist capacity, 100 meter.
- Easy to learn & easy to operate

DIRECT DRIVE

DSEND 600+™ is an automatic rescue decent device based on a new patented Direct Drive technology. A centrifugal brake transfer its torque directly to the rope without any intermediate gears. Its robust design is developed for heavy duty applications in the wind power industry.

DSEND 600+™ is available with a manual winch function based on a worm gear, activated when unfolding the handle. In manual mode the handle can be left unattended without causing any unintentional descents.

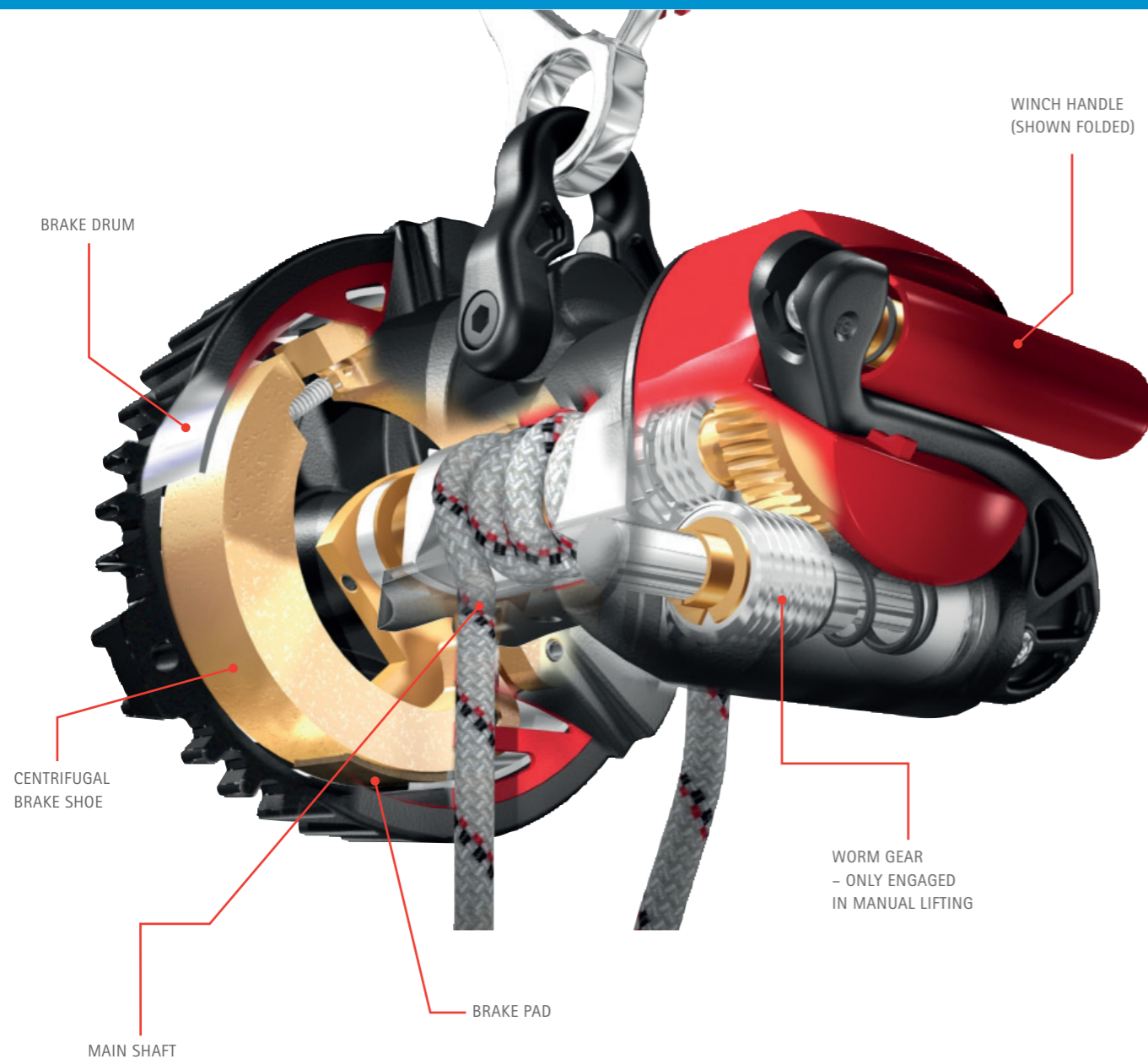
DSEND 600+™ takes safety to new heights.

HEAVY DUTY & FULL SCALE TESTS!

DSEND 600+™ is compliant with the new standard EN341:2011. All tests are performed, approved and documented by the notified body, FORCE Technology in Denmark. DSEND 600+™ is approved for a maximum load of 282 kg. This means that DSEND 600+™ has been passing harsh dynamic descent tests with 352.5 kg loads.

EN341:2011 requires a safety factor of 1:10 of the user maximum weight. Minimum breaking strength of the DSEND 600+™ system is no less than 2820 kg. DSEND 600+™ is a class B device, i.e. capable of multiple descents from up to 200 m and thereby designed for dealing with a brake energy of 1.5 10 MJ. That amount of energy will heat one kilogram of steel up to more than 1000 deg C.

DSEND 600+™ is therefore designed to cool itself and is equipped with special developed racing brake pads capable of high performance in high temperatures. All materials are metals except for the winch handle and front cover.



PRODUCT PACKAGING

A SOLUTION BASED ON EXPERIENCE

Based on annual tests and many years of experience, we have developed the patented vacuum packing solution. This solution guarantees that moisture and water from condensation cannot occur as there is no air in the bag, and that wear from vibrating components rubbing together is almost impossible because by vacuum packing the equipment the parts are prevented from moving against each other.

THE RED BOX & VACUUM PACKING

Among the problems in keeping the equipment fit for use when stored in a turbine are:

- Corrosion, because of condensed water caused by shifts in temperature (heat/cold)
- Wear on all parts due to vibration

10 YEARS INSPECTION INTERVAL

As an extra benefit, our tests and experience shows that by vacuum packing the mean time between inspection is at least 10 years. Since vacuum packing is unique and patented, there is no comparable solution on the market that can guarantee the same level of quality on the packed components.

JSPCHECK™ – RFID/NFC

JSP offers full traceability back to our production since all DSEND 600+™ devices are equipped with an RFID/NFC tag. The devices are logged and found in our online inspection database – Inspector. As user, you can simply register your device and access the info in the database anytime. You will automatically receive reminders about next inspection and the possibility to log your future inspections and record cards in our database. For your safety.



QUALITY

JSP is currently quality certified in the areas of quality, environment and health & safety (ISO9001, 14001 and OHSAS 18001). We are today also supplying products to customers that are PPAP (Production Part Approval Process) compliant.

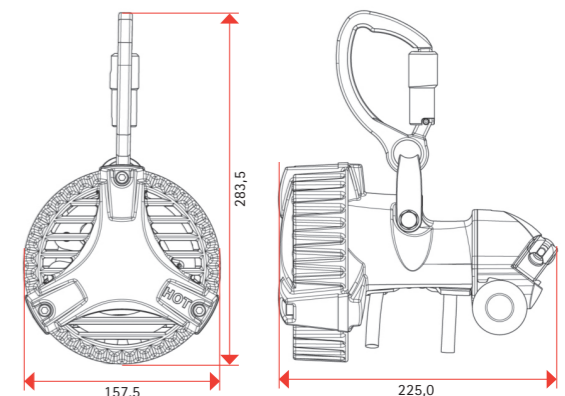
EWEA

Our strategic partner is a member of EWEA – the European Wind Energy Association



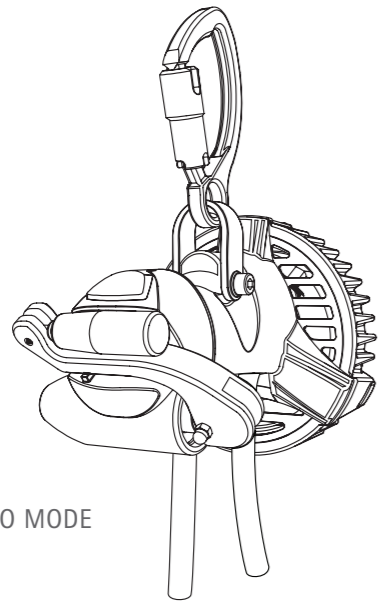
MAIN PRODUCT SPECIFICATION

- Maximum descent height 282 kg (622 lbs)
3x200m (656 feet) - 1x600m (1969 ft)
- Maximum descent height 141 kg (311 lbs)
8x200m (656 ft) - 1x1600m (5249 ft)
- Maximum descent load, hands off
282 kg (622 lbs)
- Minimum descent load, hands off
90 kg (198 lbs)
- Minimum descent load, hands on
40 kg (88 lbs)
- Speed range minimum load (wet, dry, cold)
90 kg (198 lbs) 0,75-0,97 m/s
- Speed range maximum load (wet, dry, cold)
282 kg (622 lbs) 1,42-1,97 m/s
- Tested lifting capacity, without slippage
282 kg (622 lbs) 100m (328ft)
- Gear ratio, lifting
1:15
- Device weight
3,7 kg (8,2 lbs)
- Rope diameter
10,5 mm
- Rope weight
0,114 kg/m (0,08 lbs/feet)
- Minimum braking strength, rope termination
28 kN
- Destruction strength of device
75 kN
- Brake pads, surface
745 mm²
- Brake drum, diameter
125 mm
- Temperature range, for use
+50 - -40°C (+122 - -40 F)
- Connectors
3 x trippel lock 30 kN

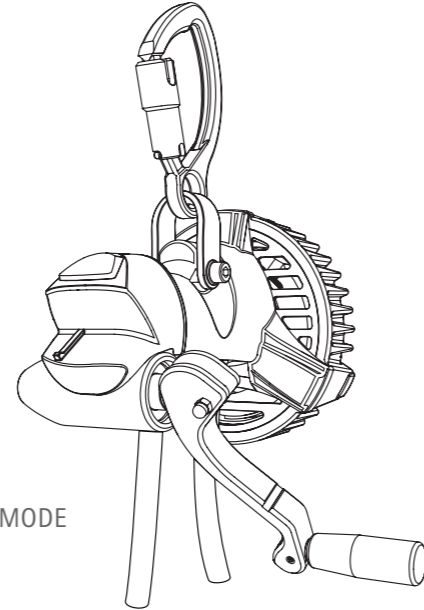


WINCH

DSEND 600+™ can serve as both a rope descender and as a manual winch. By unfolding the crank handle, cover DSEND 600+™ in winch mode of salvation through manual up and descent. When the handle is flush works DSEND 600+™ as an automatic rope descender for descent during evacuation. Only the position of the crank determines which mode DSEND 600+™ is in. No other controls are used when switching between rope descender and pick mode.

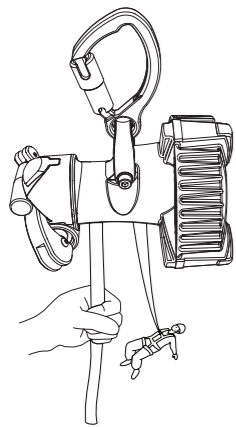


AUTO MODE

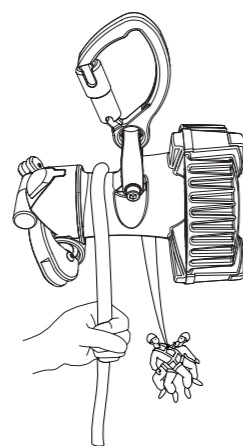


HOIST MODE

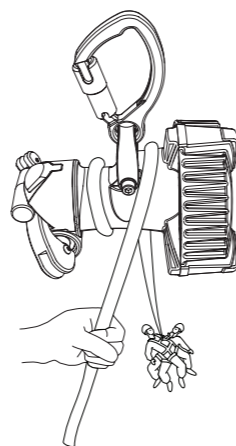
The need to limit the speed of descent, for example, in confined spaces or other obstructions, it is possible that the extra friction created configurations can also be applied to the person mounted use as follows:



Up to 200 kg:
No extra lap



OVER 200 KG:
An extra half lap around
the device housing



MAX LOAD:
One and a half times around
the device housing



**DSEND 600+™
IS ALSO
AVAILABLE
IN AN
EVACUATION
VERSION,
DSEND 600™
(WITHOUT
WINCH).**

JSPCHECK™

TRUSTED | TESTED | TRACEABLE

✓ RFID TECHNOLOGY

JSP Height Safety Equipment is fitted with RFID tags that can be scanned by a mobile device or computer to perform accurate safety inspections in minutes.

✓ ASSET MANAGEMENT

Easy, instant inventory control and in-field inspections, manage documentation and reports by tracking tools and equipment in seconds.

✓ INSPECTION & COMPLIANCE

Precise data gathering for improved compliance, automate, retain and retrieve product and training documentation instantly.



✓ TAG IT



Most of JSP's Height Safety Equipment is fitted with unique RFID tags, identified by the JSPCHECK™ logo. RFID tags can be purchased separately and retrofitted to any asset.

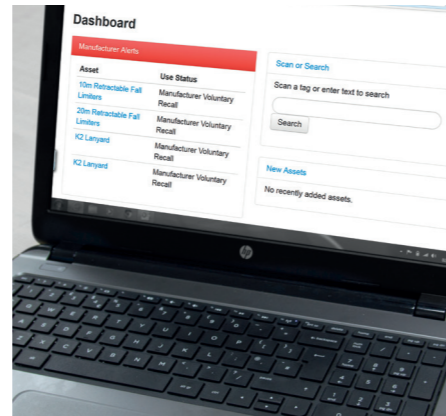
✓ SCAN IT



Works with compatible mobile devices. USB Stick and Desktop USB styles of scanners and readers are available.



✓ TRACK IT



The JSPCHECK™ is results driven through cloud technology, using industry-focused BIM software that offers no nonsense convenience and maximum flexibility at significantly lower costs.



✓ TRUSTED Any recorded data will always be secure, current and accessible. Any information that can prevent a worker from using a potentially unsafe piece of equipment can be communicated very simply and quickly.

✓ TESTED On site inspections can be performed with results instantly recorded, uploaded and documented. This information can be checked by a safety manager or user of the equipment before any use.

✓ TRACEABLE Assets can be scanned and added to your cloud based inventory. Inventories can be taken quickly and more effectively preventing shrinkage and misuse.



TRAINING THAT GOES ABOVE & BEYOND

Altitude™ Height Safety – a brand new division within the JSP Group is dedicated to providing quality height safety and rescue training for all industry sectors.

For more information and course details please visit.
www.altitudeheightsafety.co.uk



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