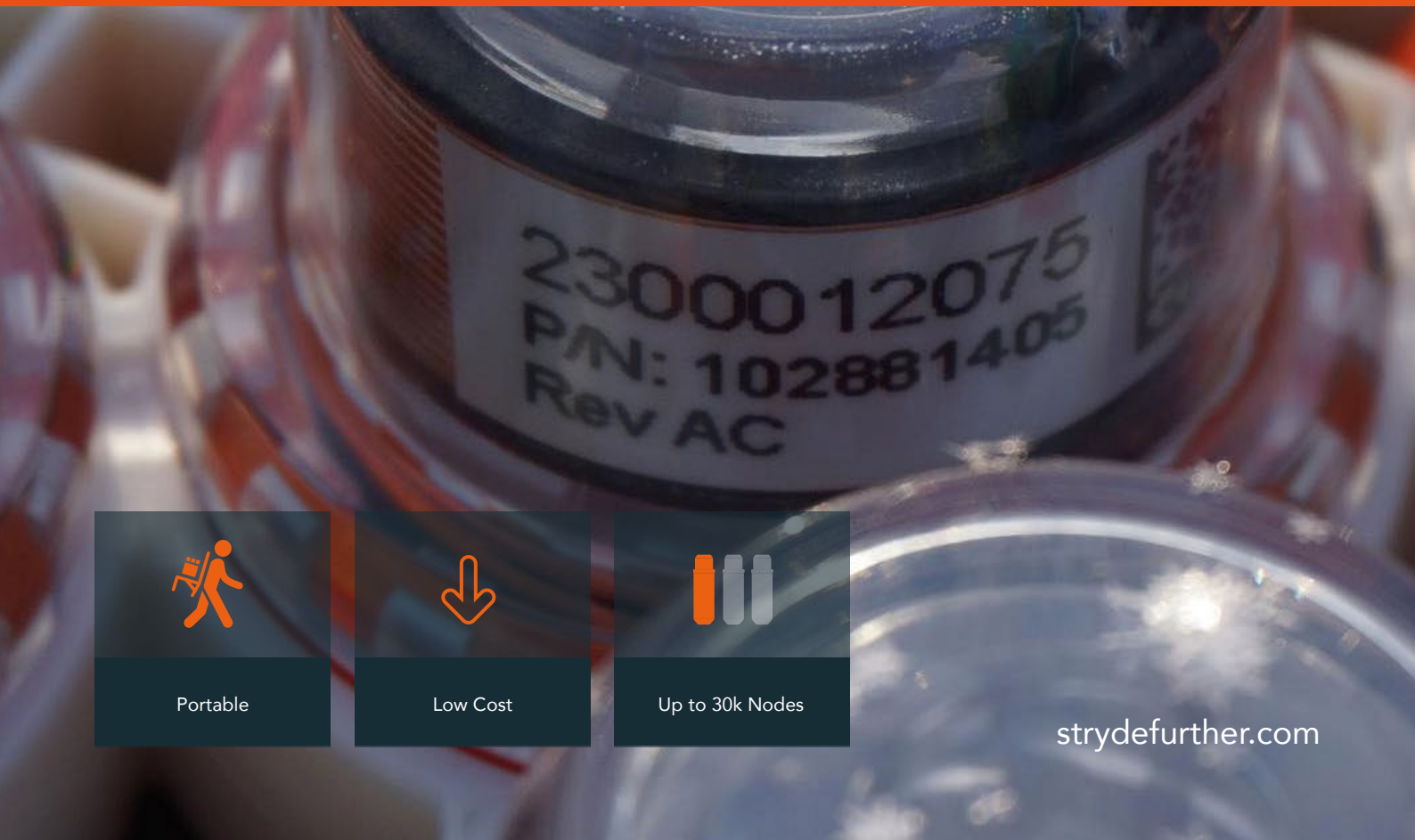
STRYDE

THE STRYDE NIMBLE SYSTEM™

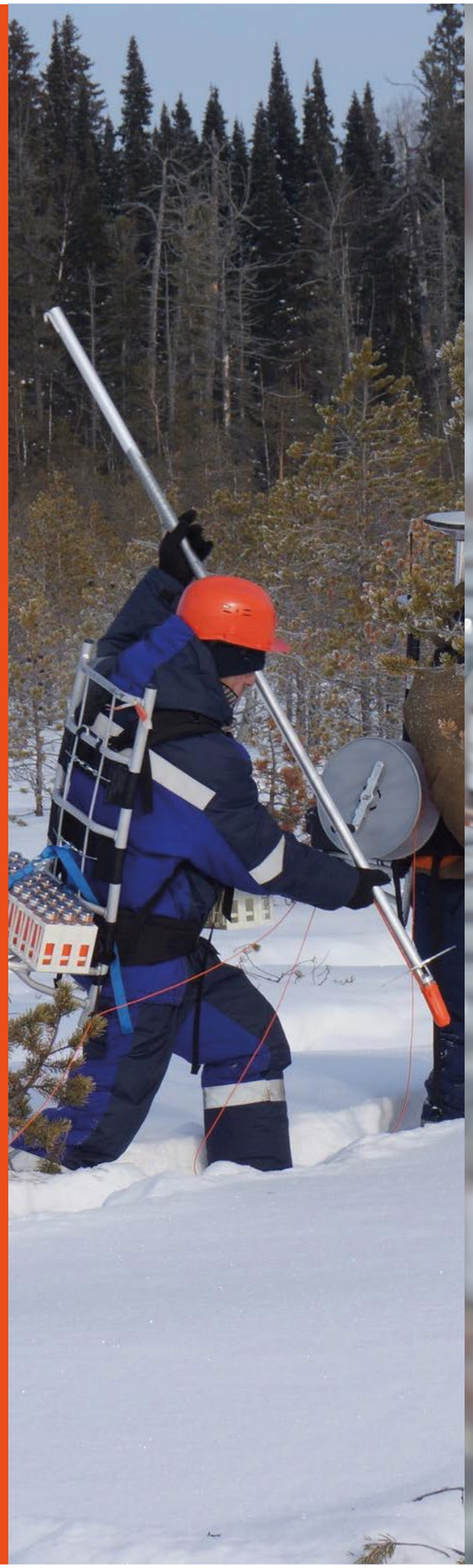


Portable

Low Cost

Up to 30k Nodes

strydefurther.com



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ABOUT STRYDE

STRYDE is a new breed of technology company, developing seismic acquisition systems to help our clients work faster, go further and perform better than ever before.

Nearly a decade in development, we have completely redesigned land receiver technology, making it smaller and lighter without compromising data quality.

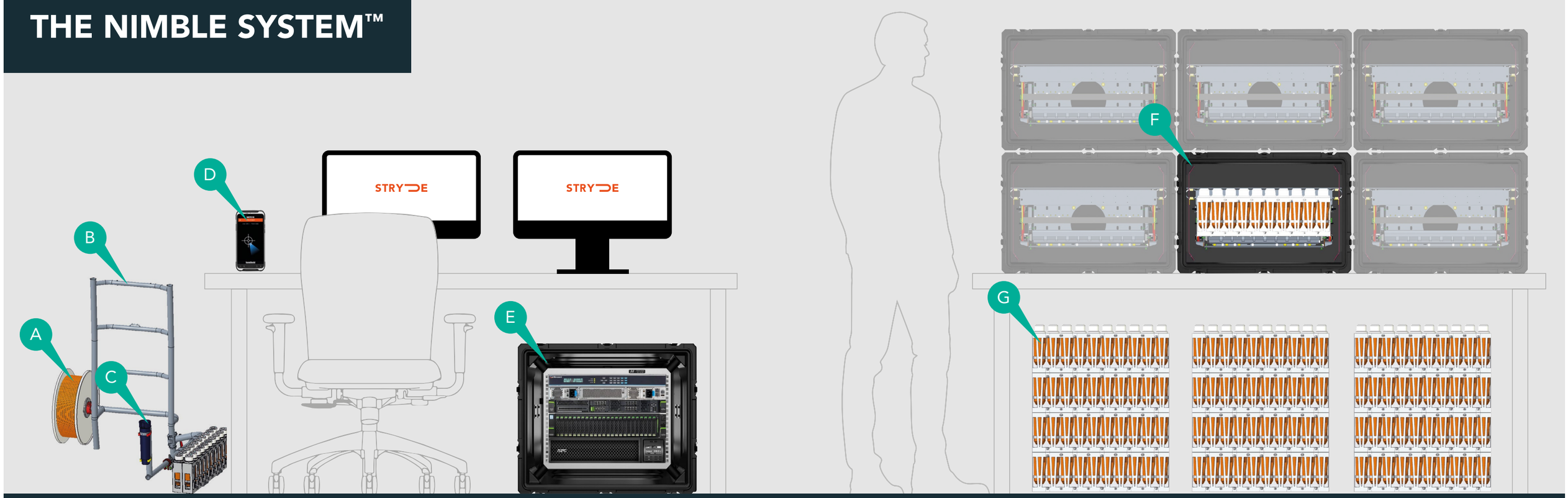
Unlike competing seismic technology, our receivers operate autonomously for up to 28 days without the need for expensive, environmentally-disruptive line clearing. It's all part of our vision to make seismic data collection more agile and affordable, safe and sustainable, while enabling unparalleled subsurface imaging.

Spun out of a world-class seismic research and development project, STRYDE's heritage lies in the oil and gas industry, but our low-cost, high-quality products can be deployed in any sector looking to better understand the subsurface.

So, whether you're in hydrocarbons, renewables, carbon sequestration, mining, geothermal or civil engineering, our tools and proprietary software will help you significantly reduce the cost, risk profile and environmental footprint of your next seismic acquisition programme.

INTRODUCING
THE NIMBLE SYSTEM™

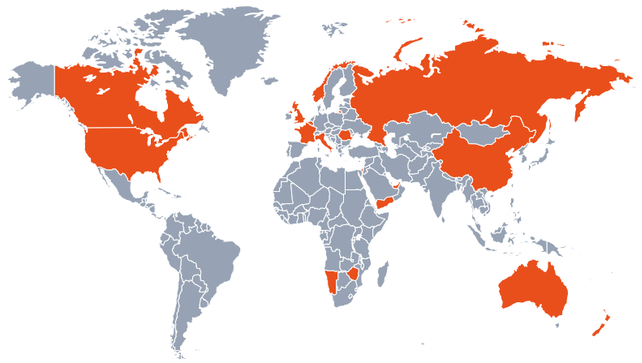
Our system is highly adaptable which means it can be easily transported to remote locations in purpose-built vehicles or installed in offices and warehouses for use in urban areas.



High density data is the key to high quality seismic imaging. Gathering that data on land presents unique challenges and all too often there's a fine balance to be had between cost, logistics and survey density. Throw in complex terrains, such as mountains, deserts, forests and urban infrastructure, and those challenges can sometimes feel insurmountable.

That's where The STRYDE Nimble System™ can help. We've developed it specifically to help you conduct:

- 2D seismic surveys in complex terrains and remote locations.
- Sparse 3D seismic surveys over large areas where coverage takes priority over density.
- Small-scale, dense 3D seismic surveys, where enhanced imaging for monitoring or reservoir modelling is a priority.



Deployment of STRYDE Systems as of May 2021

- A 600m Rope Spool
- B Backpack
- C Initialisation Device™
- D Navigator Tablet
- E System Case
- F Nest Case
- G Magazine Strips

THE STRYDE NODE™

Meet the world's smallest, lightest autonomous seismic Node.

Built to withstand some of the most extreme conditions on our planet, from -40°C to +70°C the STRYDE Node's broad dynamic range is ideal for clients looking to record both low and high frequencies.

With enough memory to continuously record for at least 28 days (at -40°C), our Nodes offer maximum autonomy in the field.

Benefits of using the STRYDE Node:

Efficient: Wireless charging and optical technology give you the power to manage data retrieval in the field or seismic camp without disassembly.

Lightweight: A single operator can carry between 60-90 Nodes, meaning a two-man crew can deploy and retrieve hundreds of Nodes in a single shift.

Always on: Continuous recording allows data offset and azimuth selection during processing rather than restricting in the field.

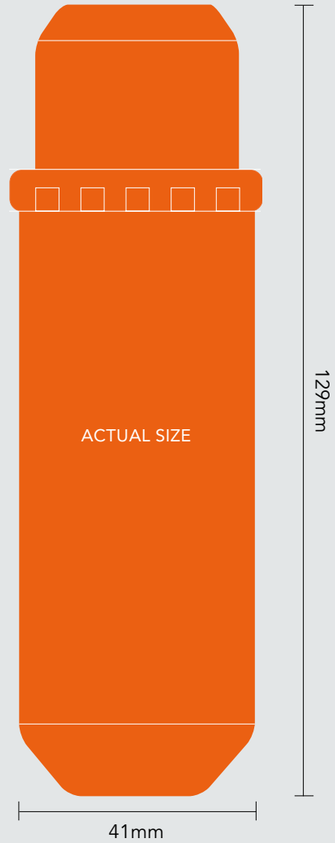
Reliable: Outstanding operational reliability reduces non-productive time spent checking equipment and cables.

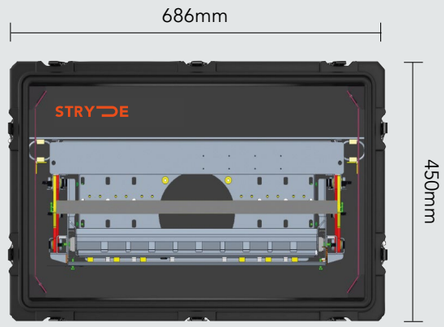
Robust: Sealed casing means you can deploy the Nodes in wet conditions down to a water depth of 10 metres.

Accurate: Equipped with global navigation satellite system technology for precision timing, the associated self-positioning technology provides operators with an additional check on Node location during deployment.

EVERYTHING YOU NEED TO KNOW

Sensor	Piezoelectric Accelerometer
Output sample interval	1ms, 2ms
Polarity	SEG
A/D conversion	24-bit Sigma-Delta
Frequency band	1-125Hz
Gain steps	0dB 16dB
Max input signal level (peak)	0.6g 0.1g
Noise density	22ng/sqrt(Hz) @ 16dB
Node autonomy	28 days (24h continuous recording)
Shelf life in storage	> 18 months at room temperature
Supported GNSS constellations	GPS, GLONASS
Weight	150g
Operating temperature range	- 40°C to +70°C
Charging & download time	< 4 hours





Nest Case

System Case

CHARGING & HARVESTING SYSTEM

We know that time and cost are critical during surveys, which is why our systems are designed to let you rotate large numbers of Nodes simultaneously.

The STRYDE Nimble System™ is made up of two parts:

- **Nest Case:** Simultaneously charges and harvests data from 90 Nodes in under 4 hours (or 70 Nodes and 4 Initialisation Devices). Simply place the Nodes in the Nest Case and initiate data retrieval to start automatic charging and harvesting.
- **System Case:** Integrated storage, workstation, networking and timing hardware with our proprietary software installed as standard.

Only a single operator is required to perform Node charging and data download operations using The STRYDE Nimble System™.

The STRYDE Nimble System™ in numbers:

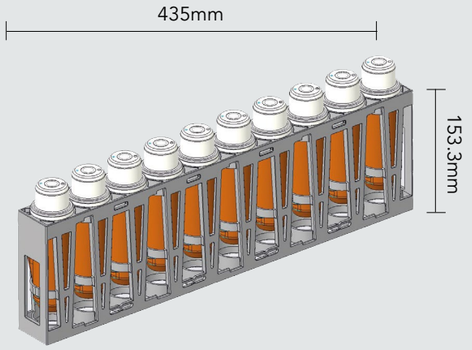
- Each Nest Case can harvest 90 Nodes and fully recharge depleted Nodes in under four hours.
- A single Nest Case can rotate at least 540 Nodes a day, based on a 24-hour shift.
- Up to six Nest Cases can be connected to a single System Case to allow for simultaneous handling of 540 Nodes and a rotation of at least 3,000 Nodes a day.

MAGAZINE STRIPS & TRAYS

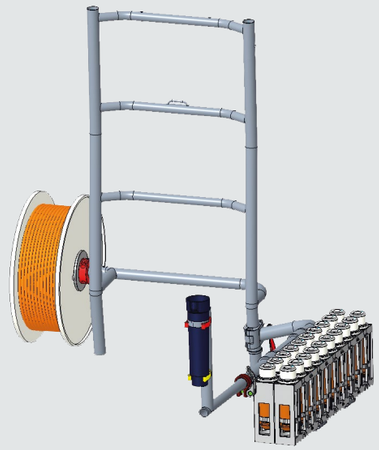
Node transportation and handling is easy, thanks to our custom-built Magazine Strips.

Each Strip holds 10 Nodes and at 300g per Strip (excluding Nodes) they're incredibly lightweight.

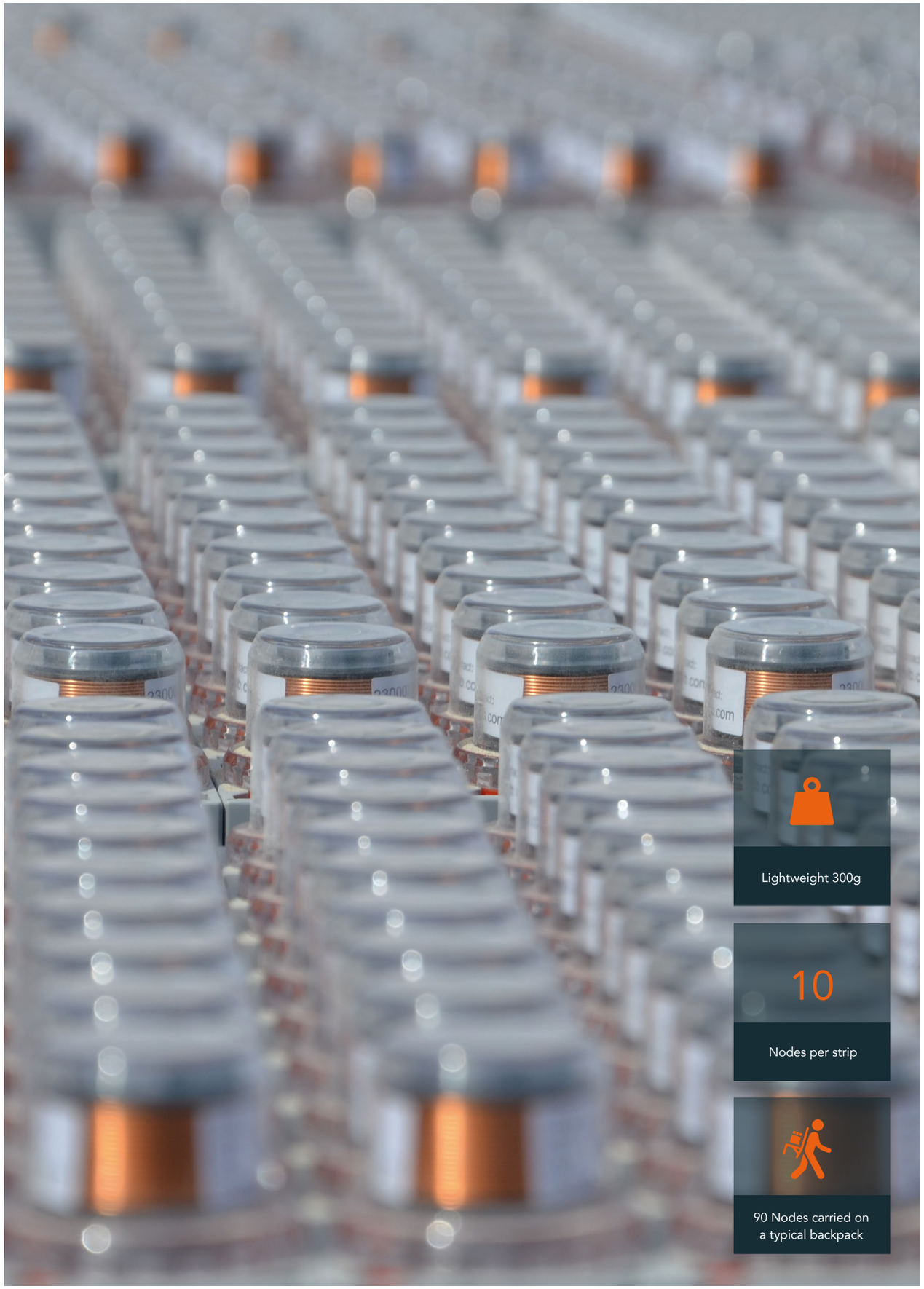
Magazine Strips can be clipped together and attached to STRYDE backpacks (see page 19) and to form Trays of 90 Nodes, for use in our Nest Cases (see page 11). Our Magazine Trays make it easy to store and transport large numbers of Nodes.



Magazine Strip

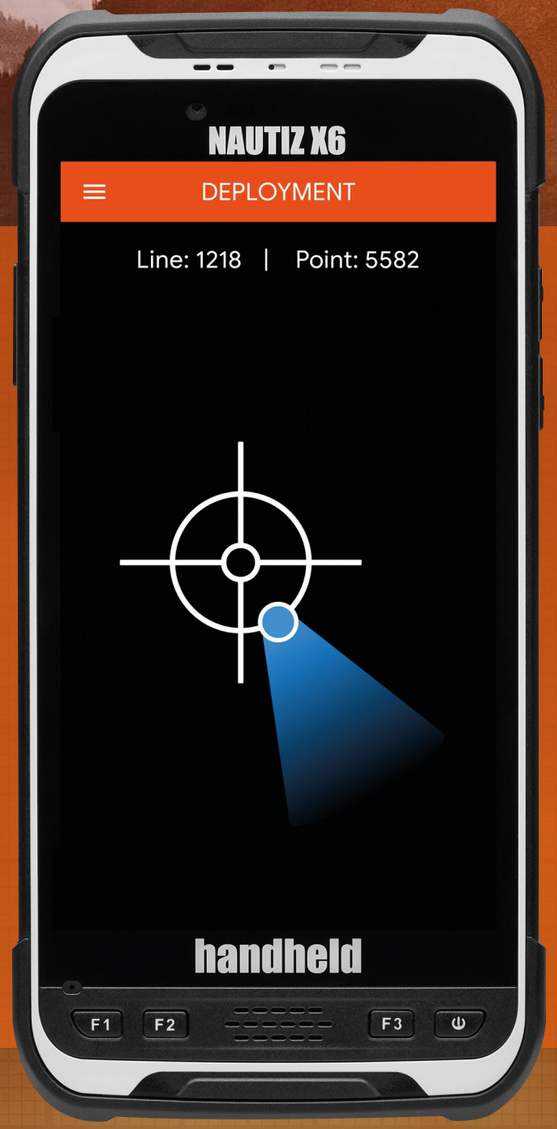


Strips clipped together on a backpack



NAVIGATOR TABLET

Our Navigator Tablet field positioning system helps you easily locate every receiver point and initialise the Nodes in the field.



Removes the need for heavy line preparation

Reduces pre-deployment surveying

Reduced crew numbers

The tablet runs on a Nautiz X6 PDA and is completely portable. Key features include:

Reduced pre-survey time: Deployment accuracy within +/- five metres, using the Navigator Tablet's GPS positioning. The tablet can be connected to your own real-time kinematic (RTK) systems for greater positioning accuracy.

Easy to use: Pre-installed proprietary software will guide your operators to deployment and retrieval locations using planned and actual receiver points.

Status alerts: Audio-visual alerts from the tablet to let your operators know when Nodes are ready for deployment and initialisation as well as any errors.

Regular reporting: Download daily deployment, retrieval and positioning reports to help you stay in the know, manage survey quality control, tracking and spread deployment, as well as operator performance.

Easy verification: Use the tablet to revisit any Node out in the field to check its location and recording status.

Quality: Under your control, STRYDE's proprietary software converts your survey into deployment and retrieval plans ready for uploading to the Navigator Tablet. It can also convert daily reports back into your own survey planning software to help you manage quality control.

INITIALISATION DEVICE™

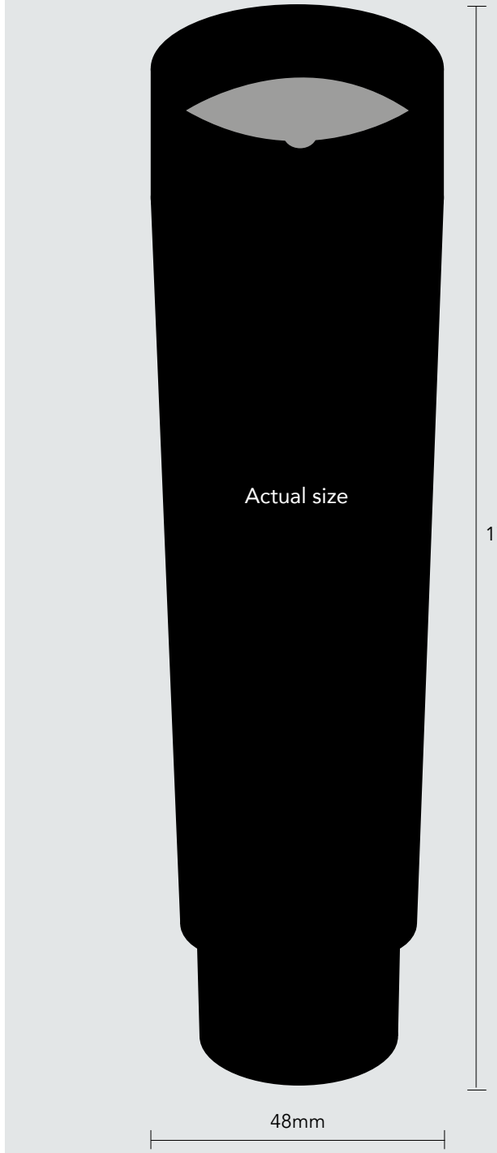
Use our Initialisation Device™ alongside the Navigator Tablet to communicate with your Nodes out in the field.

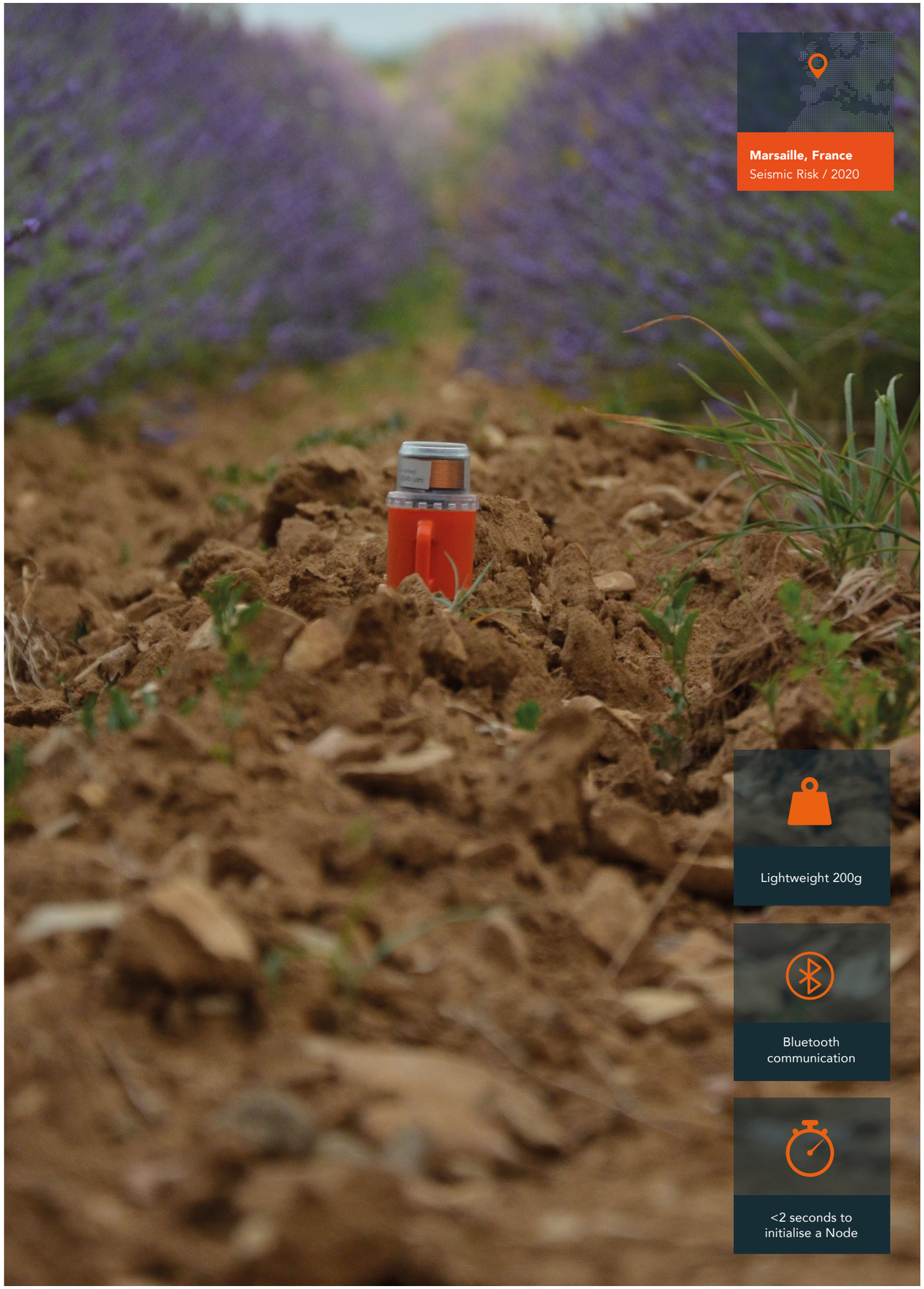
Used together, our Initialisation Device™ and Navigator Tablet (see page 14) will upload all relevant field information to the Nodes. They can also wake up, shut down and reset Nodes, without the need to return to camp. This is particularly useful in complex terrain or remote locations and slashes the time it takes to collect your data.

Once you have completed your seismic acquisition, the Initialisation Device™ and Navigator Tablet are used to turn off the Node ready for data download.

At just 200g, the Initialisation Device's lightweight design means it can be carried by hand or clipped to our custom-made STRYDE backpacks for hands-free operation.

For greater efficiency, 4 Initialisation Device's can be simultaneously charged with 70 Nodes in the Nest Case.





West Siberia, Russia
2018

BACKPACKS & PLANTING DEVICES

We've designed our rugged, aluminium-framed backpack for hassle-free deployment in both simple and complex terrains.

The backpack comes in three models:

- Deployment
- Feeder
- Retrieval

Each backpack allows a single operator to carry up to 90 Nodes, nine magazine strips (see page 12).

Our Deployment Backpack can be customised to work with your own RTK systems.

We recommend using the backpack's metal arms for carrying an Initialisation Device™ (see page 16), Navigator Tablet (see page 14) and rope spools. However, some clients prefer to hand carry equipment, so the arms are detachable.

When working in soft sediment, sand and snow-covered terrain, we recommend using our planting pole to position Nodes. Made of metal, the pole hooks straight onto the Nodes, allowing convenient planting in a single, downward movement.

A	Planting pole: Length 135cm
B	Backpacks come in 3 standard designs
C	Line crews can carry up to 90 Nodes
D	Deployment Backpack with RTK positioning system
E	600m Rope Spool

1: Deployment

2: Feeder

3: Retrieval

STRYDE

THE STRYDE NIMBLE SYSTEM™

A low cost, agile and fully portable system, which can be scaled up from handling 500 Nodes to 30,000.

The STRYDE Nimble System™ units can be housed or transported in purpose-built vehicles for work in remote locations or installed in offices or warehouses for work in urban areas.

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