



Nordic Geo Support

Sustainable support for your ground

About us



- Based in the Nordics for Nordic customers
- Nordic Geo Support is a new Scandinavia distributor of specialist materials for mining and tunnelling.
- Guided our hands-on experience, we offer selected products for the most challenging environments.
- We specialise in innovative products with an emphasis on improving sustainability.
- We focus on the following sectors:
 - Drilling
 - Mining
 - Tunnelling
 - Infrastructure (road, rail, airport and sea ports)
 - Building repair

Product range

Drilling Consumables

High Performance rock drilling tools and consumables:

- DTH Hammers
- Bits
- Shanks
- Rods
- Drill Pipes
- Adapters
- Augers, Accessories

Injection Grouts

Leading edge resin injection technology for demanding cases:

- Water Stopping
- Sealing
- Ground Consolidation
- Ground Stabilisation
- Construction and structural repairs

Anchoring & Bolting Grouts

Grouting technologies offering ease of use, clean and fast setting:

- Capsules
- Cartridges
- Pumpable grouts
- Additives

Anchoring & Bolting

A broad range of rock bolting and anchoring technologies:

- Double and single coated protected steel
- Steel Self Drilling Anchors
- GFRP bolrs of all types
- Standard bolts and meshes

Cement-Based Additives

Cement based admixtures and additives:

- Concrete Repair
- Admixtures
- Modifiers
- Waterproofing
- Joint Sealants

Pumps & Accessories

Cement and resin mixing and pumping technologies:

- Cement Pumps
- Resin Pumps
- Transfer systems
- Dataloggers
- Hoses, lances, packers

Water control

Waterproofing, drainage and pumping:

- TunnelDrain innovative strip drainage system
- Drainage pipes
- Waterproofing grouts, additives and sealants
- A broad range of dewatering pumps

Ventilation

Air quality, ventilation and safety solutions:

- Ventilation bags and systems, including Mecanicad's rigid ducts
- Fans & inline coolers
- Water atomisers

Re-usable Hangers

Developed in the Nordics, fast, easy to use & reuse:

- Services Hooks for ventilation systems, water and pneumatic lines, electrical cables and distribution boards
- Blasting hooks

Other products

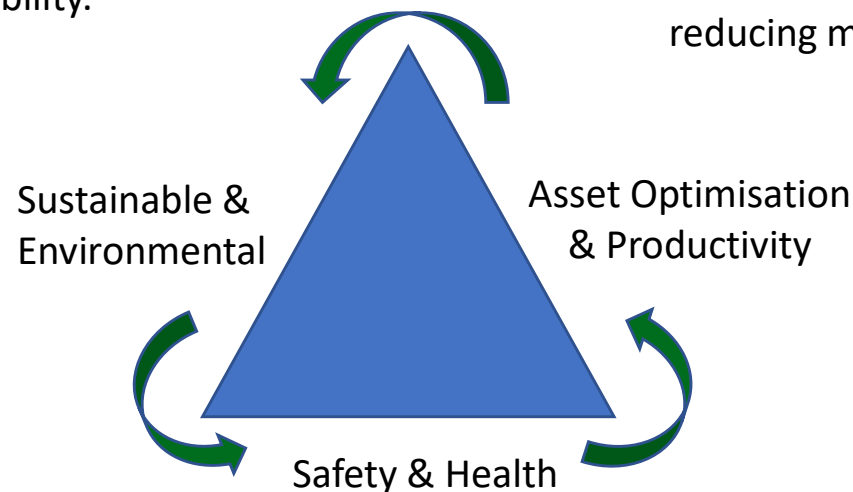
A range of other products:

- Coatings & sealants
- Personal protective products
- Mining accessories

Reducing Project Impacts

Sustainability & Environmental: Solutions that drastically reduce CO₂ emissions in manufacture and transport and energy usage as well as offering longer life cycles and reusability.

Asset Optimisation & Productivity: Solutions that are faster, more efficient, easier to use and reusable, optimising advance rates and ore recovery as well as reducing maintenance costs.



Safety & Health: Solutions that remove humans and equipment from unsecured ground, faster ground securing, ensuring stability and consolidation, reduce manual operations and weight in manual handling.

NordicGEO Vent Systems



Customers



GLENCORE



AGNICO EAGLE

GOLDCORP



eldorado gold



KIRKLAND LAKE GOLD



Sustainable Ventilation Systems

Nordic Geo Support focuses on sustainable solutions. The patented ventilation ducting from Mecanica considerably reduces energy and transport costs as well as being reusable for the next project or phase of a project.

The NordicGEO ventilation system offers:

- Large savings CO2 savings in transportation and energy use
- Reduction of power consumption used by vent systems by up to 50%
- Easily transportable underground
- Quick and easy to install
- Reusable
- Accurate and precision manufacture to the size required
- Easily adaptable for push and push/pull vent systems
- Robust and flexible
- Connects directly to vent fans, ensuring high performance and air quality
- The duct resists negative pressures and does not create recirculation issues

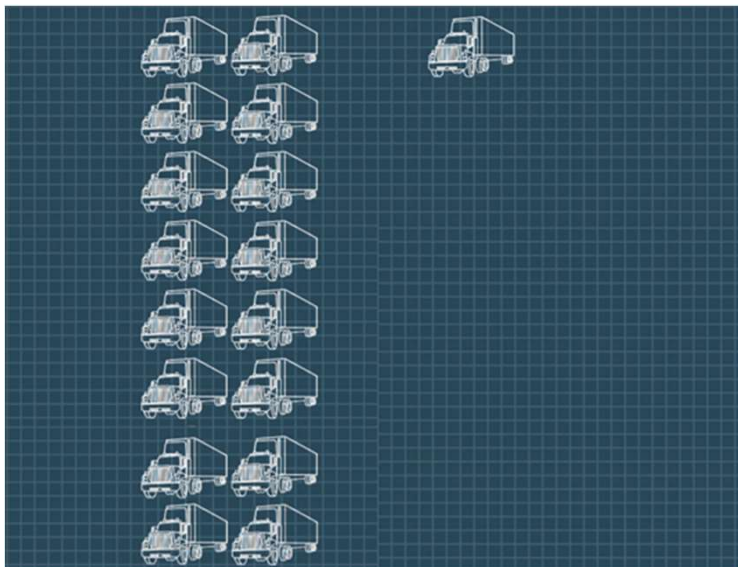


Transportation Savings

Savings from factory to site

Steel or Fiberglass
prefabricated
ducting
1.2 M Diameter
60 M long
Requirement: Up
to 16 trucks

NordicGEO Vent
1.2 M Diameter
975 M long
Requirement: 1 truck



Savings Underground

1 Crate = 20 Ducts



This reduces:

- CO² Footprint
- Transport costs
- Underground storage space



Real Energy Savings

- Drag or friction, measured by the drag factor ('K' factor), creates increased turbulence in airflow.
- This can also increase the energy needed to push air through the ducting.
- A plastic surface reduces drag through the duct.

Drag factor for different options

Technology	K factor
NordicGEO Vent	0,0010 kg/ m ³
Steel	0,0022 kg/ m ³
Fibreglass	0,0024 kg/ m ³
Layflat	0,0037 kg/ m ³

Savings of energy of up to 50%



Actual Efficiency Ratio Performance Tests
For a 420 m length

Technology	Fan Requirement
NordicGEO Vent	500 Hp
Steel/Fiberglass	1250 Hp

NordicGEO Vent Operational Savings
using 0,039€ / kwh

Technology	Fan Requirement
Steel/Fiberglass	126 000€ per annum
Layflat	250 000€ per annum

Weight Saving

- Light weight allows easy assembly and installation
- Can be moved easily and readily
- Reduces the need for heavy lifting equipment in tight spaces
- Reduce time and money



Comparative Weight

Technology	Weight
NordicGEO Vent	30Kg
Steel	72 Kg

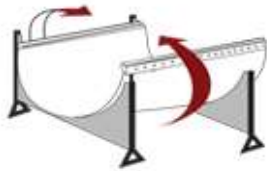
Duct 1,2m diameter x 2,5 m long

Fast, efficient installation

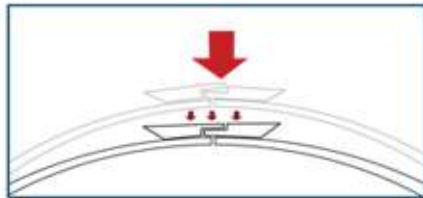
Easy Assembly

Assembly of the duct

1. Roll the duct using the mounting templates.



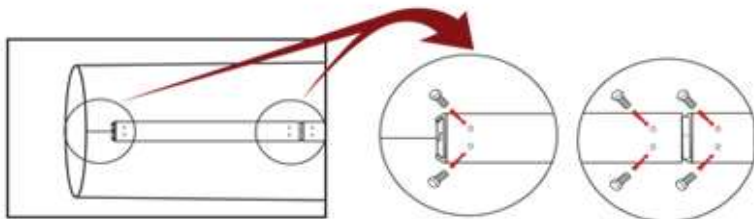
2. Apply pressure to facilitate insertion of slides.



3. Insert the metal slides from the ends to the center.

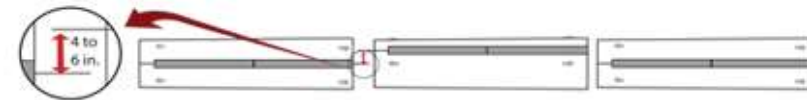


4. Use the supplied screws to attach the metal slides.

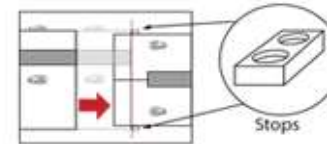


Mounting and installation of ducts

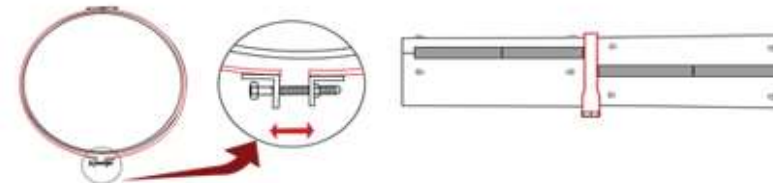
1. Position the ducts so that the slides are offset from each other between 4 to 6 inches center to center.



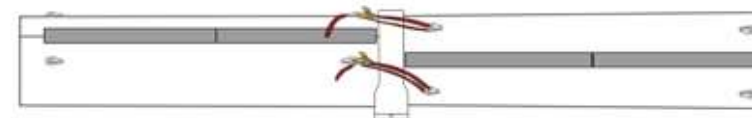
2. Insert the ducts into each other until the joint stops.



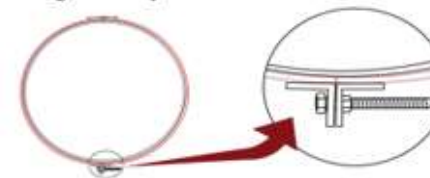
3. Install the adjustable collar in place but without tightening it.



4. Attach the ducts using the supplied straps(4). Be sure to pass the straps over the adjustable collar. Do not over-tighten the straps.



5. Tighten adjustable collar.



Re-usable service hangers

- Invented in Scandinavia, this re-usable hanger has multiple uses from hanging vent bags to electrical services or supporting water and pneumatic lines in a safe and efficient way.
- Quick and easy to use.
- Steel or plastic options.



Standard hooks



- Re-usable
- Quick to install for immediate services support
- Drill rig hole (3 secs) with hand held equipment (Hilti type)
- Expansion shell is plastic so no corrosion
- Can be delivered in galvanised form for highly aggressive conditions (e.g. salt mines)
- Lengths can be changed to customer needs
- Hooks can be changed to customer needs



Product	C16	C28	C32	C42
Length	268mm	325mm	343mm	343mm
Hole Diameter	16mm	28-31mm	32-38mm	43-48mm
Max weight	100kg	420kg	420kg	420kg

Other products

- We offer a range of:
 - Joint sealants
 - Concrete repair materials
 - Coatings
 - Brattices
 - Specialist accessories for mining

TERRAVENT® Spiral Force
Ducting



If you are struggling to source a particular product, feel free to contact us and we will search through our network to see if we can assist you.

Thank you!

www.nordicgeosupport.com