Directional Surveying Specialists

- Mining
- Exploration
- Oil and Gas
- Civil Engineering
Introducing Downhole Surveys (DHS)

Provides directional surveying services to the mining, exploration, civil engineering, Oil and Gas industries utilizing the most accurate and up-to-date Gyro downhole surveying equipment available.

- DHS has become a necessary part of many deep drilling programs exploring for Nickel, Gold, Platinum and other minerals within Australia and Africa.
- Established in 1989 Kalgoorlie Western Australia, DHS has grown from a single operator to employing more than 40 staff worldwide.
- In May 2006 Al Ghaith Oilfield Supplies & Services Co. of Abu Dhabi UAE were appointed the exclusive agent for DHS services providing a centre for growth into the Gulf Oil region.

> Utilising state of the art surveying instruments

> 1989 Established in Kalgoorlie, Australia (single operator)
> 1996 Winner - Goldfields Small Business Awards
> 1998 Introduced oilfield North Seeking Gyro to mining industry
> 2000 First overseas contract - Tanzania
> 2001 Established Digital Surveying CC, South Africa
> 2003 Winner - Goldfields Small Business Awards & Business Person of the Year
> 2003 Started Flexit help centre - Australia and Southern Africa
> 2004 Introduced SEG - INS Target Gyro to mining industry
> 2004 Established office in Orange, NSW, Australia
> 2006 Began marketing Flexit GyroSmart MEMS Gyro
> 2006 Al Ghaith Oilfield Supplies and Services appointed exclusive agent in UAE
> 2006 Employing more than 40 staff worldwide
Products & Services

Gyro directional surveying services include:
• Deep hole directional surveying 3000m+
• Navigating to target
• Surveying inside RC drill rods
• Grade control surveying
• Surveying Blast Bore holes
• Blast hole surveying underground and surface
• Horizontal drill hole surveying
• Extended reach surveying - tube drilling

Others:
• Borehole Radar acquisition

Products:
• Flexit Smart tools – Sales, Rental, Service and Support
• Full range of running gear

Survey Inside RC Rods

Our slim barrel Gyro is specially designed for directional surveying inside Reverse Circulation drill rods.

Horizontal Drillhole Surveying

Manual and mechanical methods are employed to push our precision Gyro surveying instruments horizontally.

Navigate To A Target

We pride ourselves in providing accurate Gyro survey information allowing drillers to navigate to a target with precision.

Deep Hole Directional Surveying 3000m+

We utilise proven oilfield Inertia Gyro technology to accurately survey the trajectory of wells and deep drill holes from vertical to horizontal.
We provide high precision Gyro directional survey information in real time for grade control drilling programs minimising rig down-time and providing onsite directional data.

Blast Hole Surveying

We measure deviation in blast holes, both up-hole and down-hole, improving blast efficiency and safety for underground and surface mining companies.

Surveying Raise Boreholes

We position raise boreholes ensuring the pilot hole hits the target or can be found underground by surveying inside the rods or open hole as drilling progresses.

Grade Control Surveying

Grade Control Surveying

We measure deviation in blast holes, both up-hole and down-hole, improving blast efficiency and safety for underground and surface mining companies.

Surveying Raise Boreholes

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We position raise boreholes ensuring the pilot hole hits the target or can be found underground by surveying inside the rods or open hole as drilling progresses.

Extended Reach Surveying

Extended Reach Surveying – Coil Tube Drilling

Coil tubing is utilised to push our Gyro in extended reach wells.

Borehole Radar Acquisition

GeoMole, our borehole radar JV partner, have developed technology that delineates kimberlite diatremes and dykes, the Bushveld’s UG2 and Merensky; up to 75 metres from a drill hole.

DHS uses world class technology to accurately map the trajectory and give reference to borehole radar delineation.
## Major Contracts - Current

<table>
<thead>
<tr>
<th>Company</th>
<th>Location</th>
<th>Value per Annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>St Barbara, Gwalia, Australia</td>
<td>USD 1,000,000</td>
<td></td>
</tr>
<tr>
<td>Western Areas, Forrestonia, Australia</td>
<td>USD 1,085,000</td>
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<tr>
<td>Jubilee, Cosmos, Australia</td>
<td>USD 965,000</td>
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<tr>
<td>Debswana Jwaneng, Orapa, AK6 Botswana</td>
<td>USD 822,000</td>
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<td>De Beers, Venetia, South Africa</td>
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<tr>
<td>Anglo Gold, Ashanti Geita Gold Mine, Tanzania</td>
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<td>Newcrest, Ridgeway, Australia</td>
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<td>BHP Billiton, Leinster, Australia</td>
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<td>Lion Ore, Tati Nickel, Botswana</td>
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<td>Anglo Plats, Various, South Africa</td>
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<tr>
<td>Platinum Aust, Kalhari, South Africa</td>
<td>USD 432,000</td>
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### Flexit Smart Tools

Authorised Help Centre in Africa and Australia for the Swedish Flexit products:
- SingleSmart
- MultiSmart
- GyroSmart
- Sales
- Rental
- Service
- Support

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