HYPERCHARGE™ DRIVE SERVICES

EFFICIENT BLASTING IN YOUR HANDS

AUSTRALIA PACIFIC
An Orica Hypercharge™ Drive service is a customer operated blast loading service, based on a customer owned and maintained carrier; coupled with an Orica owned and maintained bulk emulsion explosive manufacturing system.

Entering into an Orica Hypercharge™ Drive (HcD) service agreement provides you, our customer with licensed access to the many benefits of blasting with the Subtek™ or Civec™ range of bulk emulsion explosive technology at an affordable price, whilst controlling the flexibility of your labour pool and keeping your labour costs to a minimum.

The service is designed to equip you with the technology and knowhow to safely and efficiently load and fire all but your most complex blasting needs across development, production and shaft sinking applications. This is achieved using Orica’s industry proven proprietary Maxiloader™ equipment to deliver the Subtek™ range of bulk explosive products.

Orica have adopted a standardised modular Maxiloader™ bulk emulsion delivery system with a choice of payload from 1300 kg to 4000 kg. The standardised modular design allows the HcD system to be quickly deployed to site with minimal customisation for mounting to a range of carrier brands and models.

KEY SERVICE INCLUSIONS
- Experienced Orica personnel to assist the initial scoping of the service requirements
- Provision of proven Maxiloader™ emulsion explosives manufacturing equipment under licence
- Provision of associated Subtek™ or Civec™ bulk emulsion storage and transfer equipment*
- Fully compliant products and equipment
- Customer training on the operation and permitted maintenance of the system
- Certification of customer operators and maintenance staff
- Orica warranty/maintenance of its proprietary equipment
- Periodic checking of customer operators skills and application of the processes used in the services,
- Experienced support for unexpected issues
- Access to Orica’s superior technical support and suite of product, equipment and service technologies.

SERVICE AND SYSTEM FEATURES AND BENEFITS
- Self contained delivery system that’s independent of mine services
- Relative simplicity of use
- Simple to manage quality control systems
- Customer retention of core skill set
- Proven reliability with industry leading availability
- Maxiloader™ inherent safety and loading accuracy
- Blast hole loading efficiency that is only achievable with bulk emulsion technology
- Reduced manual handling
- Experienced backup and support including scheduled servicing
- Water resistant product with the capability to be pumped and retained in hole typically without further assistance (retention devices, plugs, caps, grouts, breather tubes)
- High speed loading and quick primer placement
- One blasting agent for all applications – reduced waste and low downtime
- Improved wall control through the application of variable energy explosives
- Reduced magazine inventory
- Class 5.1 dangerous goods offer a reduced security risk – Subtek™ or Civec™ products are only sensitised when loaded.
- Reductions in fume and nitrate contamination compared to packaged ANFO explosives
- No static electricity risk.

*Product range available for blasting in reactive ground (subject to site rock sample testing)

TYPICAL APPLICATIONS
- Standard Development loading or civil tunnelling
- Production up-hole loading where hole diameters are < 102 mm and < 25 m in depth and;
- Production down-hole loading where hole depths are < 30 m in depth
- Shaft sinking and raising.

* Assistance via guidance on Statutory compliance obligations by arrangement if required.
EXPLOSIVES
MANUFACTURING SYSTEM

The Maxiloader™ modular bulk delivery system is a fully featured hydraulically powered loading unit designed for development and production charging in underground mining or construction applications. The Maxiloader™ has the ability to deliver a standard range of in-hole densities between 0.80 g/cc and 1.20 g/cc and, when equipped with the LOADPlus™ U control system, provides full control of product charging enabling accurate loading of blast designs with the option of further reduced energy in development perimeter blastholes when choosing Subtek™ Control.

KEY BENEFITS
• The Maxiloader™ is an easy to use customer operated system.
• The Maxiloader™ can be fixed to a range of carriers or relocated using existing materials handling equipment.
• The Maxiloader™ is driven by the carrier hydraulics so is independent of mine services. Both manual and electronic control systems are available with the Maxiloader™ to enable monitoring and data logging.
• When using the remote control system of the Maxiloader,™ the operator can control charging from the end of the hose to provide faster charging rates.
• The Maxiloader™ features the Orica inherently safe pumping system, which has been proven reliable over the last 25 years. The Maxiloader™ is a low maintenance system with reduced downtime and high availability.
• The Maxiloader™ is designed to improve occupational health and safety by reducing the transport and manual handling of explosives.

AMMONIUM NITRATE EMULSION
STORAGE SYSTEMS

The Subtek™ Bulk Emulsion associated with the service is stored in a licensed compound on site, and flexible storage options are available including bulk storage tanks and IBCs in both surface and underground locations. Orica can assist in selecting the right mix of storage and transfer infrastructure for your site needs, with flexibility of ownership cost allocation.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Tare weight</td>
<td>TBA – dependent on ANE capacity</td>
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<tr>
<td>Delivery rate</td>
<td>&lt; 75 kg/min</td>
</tr>
<tr>
<td>Delivery Hose</td>
<td>19 mm x customised length</td>
</tr>
<tr>
<td>Dimensions</td>
<td>TBA – dependent on ANE capacity</td>
</tr>
<tr>
<td>Product types</td>
<td>Subtek™ range, Civec™ range</td>
</tr>
<tr>
<td>Controls</td>
<td>Manual or Orica LOADPlus™ U controller</td>
</tr>
<tr>
<td>Options</td>
<td>Twin hoses, twin pumps, hose pusher, hose reel</td>
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Orica welcomes the opportunity to discuss your specific application with you in order to arrive at the best system to fit your needs.

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