HYPERCHARGE™ DRIVE SERVICES
EFFICIENT BLASTING IN YOUR HANDS

AUSTRALIA PACIFIC ASIA
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 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.

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

**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.

**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)

**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 blast holes when choosing Subtek™ Control™

**KEY BENEFITS**

- The Maxicharger™ is a self-powered vehicle designed to provide independent charging capabilities
- A range of product densities can be loaded when using the Maxicharger™ to suit blasting needs
- The Maxicharger™ can load into long upholes and downholes typical in underground mining
- The Maxicharger™ delivers at high pump rates of up to 80 kg per minute
- The Maxicharger™ can deliver a range of energies from a single load
- The Maxicharger™ is suitable for most underground applications including production, and construction charging. The Maxicharger™ is available as part of the total loading service offered by Orica
- The Maxicharger™ is a highly mobile charging system with an integrated elevating work platform and mechanical hose handling system driven by the vehicles engine. This enables rapid setup and relocation between blast sites.

**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**

| Tare weight | TBA - dependent on ANE capacity |
| Delivery rate | < 75 kg/min |
| Delivery Hose (diameter x length) | 19 mm x customised length |
| Dimensions (L x W x H) | TBA – dependent on ANE capacity |
| Product type | Subtek™ range, Civec™ range |
| Controls | Manual or Orica LOADPlus® U controller |
| Options | Twin hoses, twin pumps, hose pusher, hose reel |

Orica welcomes the opportunity to discuss your specific application with you in order to arrive at the best system to fit your needs.