



MOBILE MANUFACTURING UNIT

FAST, ACCURATE, RELIABLE LOADING

Equipment productivity is a key driver in efficient blasting. Orca has the world's largest fleet of bulk explosive mobile processing units.

Orca Mobile Manufacturing Units (MMU™) lead the way in productive loading. These units feature microprocessor systems that control the process of manufacturing and metering of bulk explosives on-bench.

There is a range of different sizes and configurations dependent upon mining methods and segments.

KEY BENEFITS

- A range of delivery rates and payloads to suit market segment and application. These range from high delivery rates, for large scale mining to low, accurate delivery rates for selective mining operations
- Vistis™ and Vistan™ capability available on selected models
- Delivery systems can be selected to enable the delivery of Orca's full range of bulk products.



APPLICATION GUIDE

| Excavation Method | Mine Description | Features by Priority | Low Cost Model | High Efficiency Model | Differentiated Services Model |
|---|--|---|----------------------------|--------------------------|-------------------------------|
| Dragline | Large scale mines | High delivery rates, triple product, off-road payload | – | Tread 4219 | Tread 4219 |
| Large scale truck/ >300 t hydraulic shovel or backhoe or rope shovel | Large scale mines | Off-road payload, triple product, low to high delivery rate | Tradestar 914 | Tread 4219 Tread 4118 | Tread 4219 Tread 4118 |
| Truck/200–300 t shovel or backhoe | Medium scale mines | Off-road payload, triple product, low to high delivery rate | Tradestar 914 | Tread 4118 | Tread 4118 |
| Truck/<200 t shovel or backhoe or wheel loader | Small scale mines/ quarries | On and off-road payload, accuracy at low delivery rates | Tradestar 148 Tread SSE | Tread 3216 Tread 4118 | Tread 3216 Tread 4118 |
| Truck/100 t shovel or backhoe or wheel loader | Remote small mines or mine development | Accuracy at low delivery rate, manoeuvrability | – | Minimaster™ | Tradestar |

MOBILE MANUFACTURING UNIT

SPECIFICATIONS

| MMU™ Type | Application | Features |
|---------------|--|--|
| Tread 4219 | Large scale mines | High delivery rates. Triple product capability. Off-road payload |
| Tread 4118 | Large scale mines | High delivery rates. Triple product capability. Off-road payload |
| Tradestar 914 | Medium/large scale mines | Low to high delivery rate. Triple product capability. Off-road payload |
| Tread SSE | Small scale mines/quarries | Accurate low delivery rates. On and off-road payload |
| Tread 3216 | Small scale mines/quarries | Accurate low delivery rates. On and off-road payload |
| Tradestar 148 | Small scale mines/quarries | Accurate low delivery rates. On and off-road payload |
| Minimaster™ | Remote small mines or mine development | Accurate low delivery rates. Manoeuvrability |
| Tradestar SME | Remote small mines or mine development | Accurate low delivery rates |

| MMU™ Type | Product Capacity | | | Delivery Rates | | | Options | | | | |
|---------------|------------------------------|-----------|-----------|----------------|------------|-------------|----------------|-----|-----|-----|------|
| | ANFO | Fortan™ | Fortis™ | Augured | Pumped | Bin Type | Control System | DHR | THR | CWP | VIST |
| Tread 4219 | 19,400 kg | 22,500 kg | 24,000 kg | 800 kg/min | 350 kg/min | Convertible | Problast | ✓ | ✓ | ✓ | – |
| Tread 4118 | 14,714 kg | 1,7591 kg | 19,027 kg | 800 kg/min | 350 kg/min | Convertible | Problast | ✓ | ✓ | ✓ | ✓ |
| Tradestar 914 | – | – | 22,000 kg | 1,000kg/min | 500 kg/min | Fixed | EC200 PLC | – | – | ✓ | – |
| Tread SSE | Emulsion Only 10.9T capacity | | | – | 200 kg/min | Fixed | PLC | – | – | – | – |
| Tread 3216 | 12,150 kg | 14,100 kg | 15,100 kg | 500 kg/min | 350 kg/min | Convertible | Problast | – | ✓ | ✓ | – |
| Tradestar 148 | – | – | 12,000 kg | 750 kg/min | 500 kg/min | Fixed | EC200 PLC | – | ✓ | ✓ | – |
| Minimaster™ | 1,400 kg | 2,000 kg | 4,200 kg | 100 kg/min | 100 kg/min | Fixed | LoadPlus™ MM | – | ✓ | ✓ | – |
| Tradestar SME | 17,000 kg | | | – | 425 kg/min | Fixed | EC200 PLC | – | – | ✓ | – |

DHR -2" Diameter hose 80m long, HR -2.5" hose 60m long, THR-Twin 1" Manual Hose Reel, CWP - Cold Weather Pack, VIST-Has the ability to deliver Vistan™ and Visti™ products.

For more information visit orica.com or contact your local Orica representative

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LATAM (excluding Brazil) recommended surface delivery system standards.