



MOBILE MANUFACTURING UNIT

FAST, ACCURATE, RELIABLE LOADING

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

Orica 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 bulk product supply models.

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 quarrying operations
- Vistis™ and Vistan™ capability available on selected models
- Delivery systems can be selected to enable the delivery of Orica'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	–	–	–
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	Tetrametal SSE 20T	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	Tetrametal SSE 20T	Tread 4118	Tread 4118 *Tetrametal SSE 20T
Truck/<200 t shovel or backhoe or wheel loader	Small scale mines/ quarries	On and off-road payload, accuracy at low delivery rates	Tetrametal SSE 11T	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	Tetrametal SSE 11T	Minimaster™	Minimaster™ Tradestar SME

*Indicates the added requirement of a Vist. Pre Blend unit.

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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
Tetrametal SSE 20T	Large/medium scale mines	High delivery rates. Off-road payload
Tread 3216	Small scale mines/quarries	Accurate low delivery rates. On and off-road payload
Tetrametal SSE 11T	Small scale mines/quarries	Accurate low delivery rates. On and off-road payload
Minimaster™	Remote scale mines or mine development	Accurate low delivery rates. Manoeuvrability
Tradestar SME	Remote scale mines or mine development	Accurate low delivery rates. Manoeuvrability

MMU™ Type	Product Capacity			Delivery Rates				Options		
	ANFO	Fortan™	Fortis™	Augured	Pumped	Bin Type	Control System	DHR	THR	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	17,591 kg	19,027 kg	800 kg/min	350 kg/min	Convertible	Problast	✓	✓	✓
Tetrametal SSE 20T	Emulsion Only 20T capacity			–	145 kg/min	Fixed	PLC	–	–	*
Tread 3216	12,150 kg	14,100 kg	15,100 kg	500 kg/min	350 kg/min	Convertible	Problast	–	✓	–
Tetrametal SSE 11T	Emulsion Only 10.5T capacity			–	145 kg/min	Fixed	PLC	–	✓	*
Minimaster™	1,400 kg	2,000 kg	4,200 kg	100 kg/min	100 kg/min	Fixed	LOADPlus™ MM	–	✓	–
Tradestar SME	Emulsion only 17T capacity			–	425 kg/min	Site mixed emulsion	EC200	–	–	–

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

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Brazilian Region recommended surface delivery system standards.