



TESMEC SOLUTIONS FOR SURFACE MINING

Tesmec Surface Miners mean Controlled Mining. Solutions to deliver better results than all other forms of controlled mining like dozer rips, drill&blast, mobile crushing or jack hammers



Precise Mining Profiles, no over-dig nor waste



Predictable material sizing in mined products



Minimal impacts in noise, dust, vibrations and emissions



Lower cost

SIMPLIFY THE PROCESS.
REDUCE MINING FOOTPRINT.



MAIN APPLICATION FIELDS

BULK EXCAVATION



CIVIL WORKS



SURFACE MINING



TUNNELING





Tesmec Surface Miners demonstrate **superior capacity in mining sandstone, limestone, bauxite and phosphates** in quarries, mines and major infrastructure projects in Australia and around the world.

Sandstone is tough to break. While massive and medium strength material properties make its mining problematic for other equipment:

- Abrasive and tough material
- High energy requirement to ensure breakage
- Highly variability in properties

Tesmec Surface Miners provide a remarkable cutting performance in many sandstone examples:

- Lower unit cost than ripping, track rolling, hammers and blasting
- Often the dimensions and placement of hard rock lens preclude blasting
- Integrated dust management solution fitted to the machine
- No matter variability of rock properties, Tesmec delivers consistent sizing



In producing a consistent smaller rock sizing, the key opportunity is to use a Tesmec Surface Miner to **increase the resource recovery beyond current levels**. This will deliver increased revenues for the producers.

Tesmec Surface Miners replace multiple mining / crushing process steps, delivering a **simpler process**, with the potential to reduce production footprint:



CONTROLLED EXCAVATION

- With tight excavation control, contractors **eliminate waste** and **improve margins**
- Tesmec provides a **specialised service**, allowing contractors to deliver specific outcomes
- Tesmec globally work with Contractors to maximise the machine efficiency to deliver **effective results** for asset owners and principal contractors.
- Simplification of excavation process allows contractors to **better manage costs** and overall project delivery

REDUCE PROJECT COSTS AND IMPROVE MARGINS

- Superior **rock breakage** improves loading and transport costs
- Eliminate **over dig** and costly replacement
- Excavate **exactly to design**, eliminate rework
- Do **not suffer hard dig penalties**
- Selective mining allows **recovering potential saleable materials**

OUTSTANDING BENEFITS



CUT VERTICAL WALLS

A slim design and a wider-than-frame drum allow Tesmec Surface Miners to cut perfectly vertical walls.

LOW TO HIGH SPEED DRUM ROTATION

Various cutting options to target effective rock cutting:

- Variable drum rotation
- UpCutting or DownCutting mode
- Low Chain Speed = Low teeth consumption
- Full power utilisation with chain drive



SIZING

Special drum design provide favourable sizing of muck pile.

TECHNOLOGY

Ultimate technologic features onboard

- **TrenchTronic 5.0:** simplify operations and exploit the full potential of Tesmec Surface Miners
- **Re.M:** provides on-demand retrieval of operating, maintenance and troubleshooting information



A COMPLETE RANGE OF SOLUTIONS

975 EVO



ENGINE OPTIONS:

- CAT C9.3B US EPA
TIER 4 - 375 HP
- CAT C9.3B LRC
TIER 3 - 375 HP

WEIGHT: 44 tons

DIGGING WIDTH: 290 cm

DIGGING DEPTH: 0 - 350 mm

1150 EVO



ENGINE OPTIONS:

- CUMMINS X12 EPA
TIER 4 - 451 HP
- CAT C13 ACERT
TIER 3 - 440 HP

WEIGHT: 58-59.7 tons

DIGGING WIDTH: 320 cm

DIGGING DEPTH: 0 - 500 mm

1475XL EVO



ENGINE OPTIONS:

- CAT C18 ACERT
TIER 4- 630 HP
- CAT C18 ACERT
TIER 3 - 630 HP

WEIGHT: 108.8 - 115.6 tons

DIGGING WIDTH: 420 cm

DIGGING DEPTH: 0 - 500 mm



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