

# QUARRY

## INDUSTRY SOLUTIONS

### ROADMAP

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Solutions For Every Application

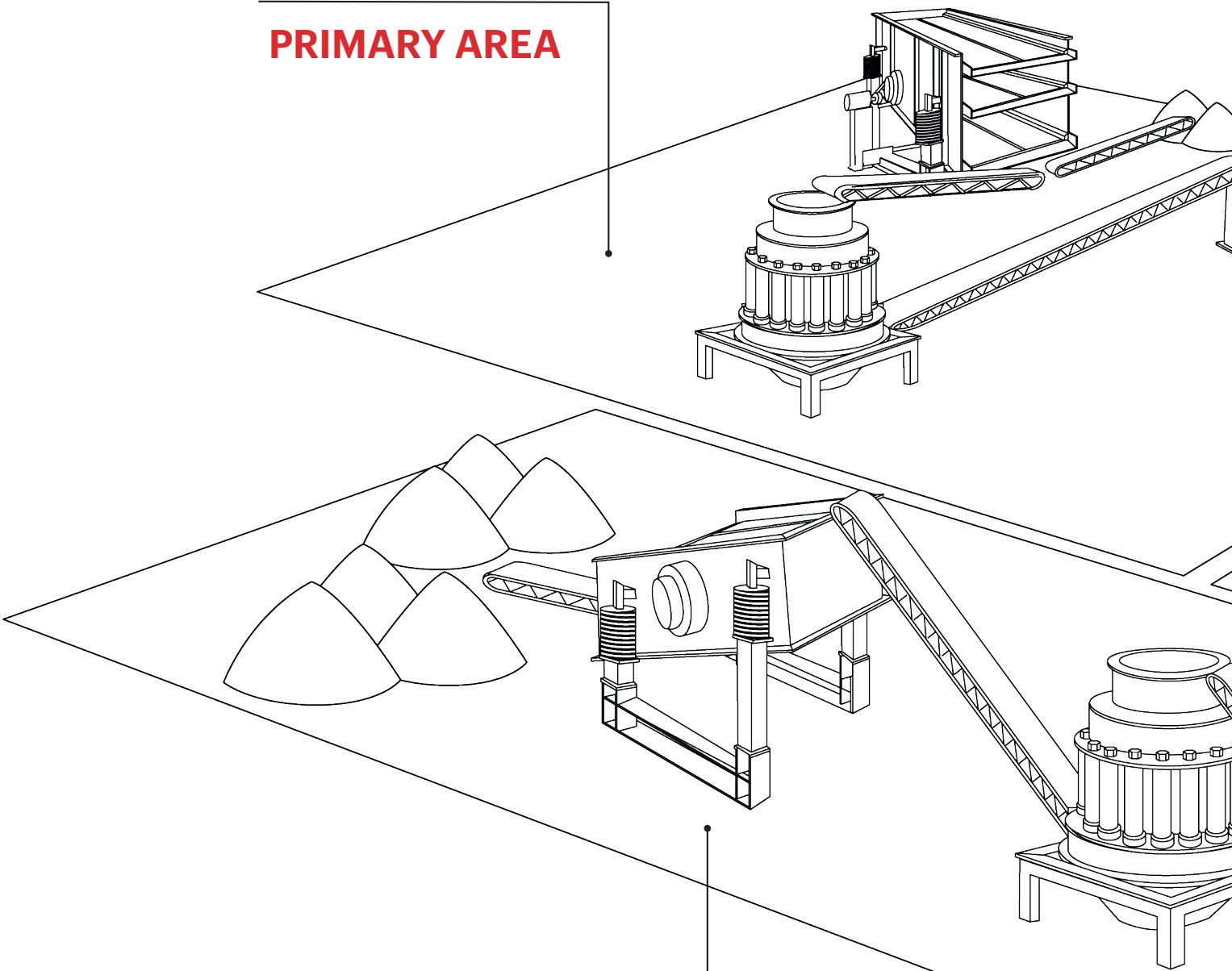


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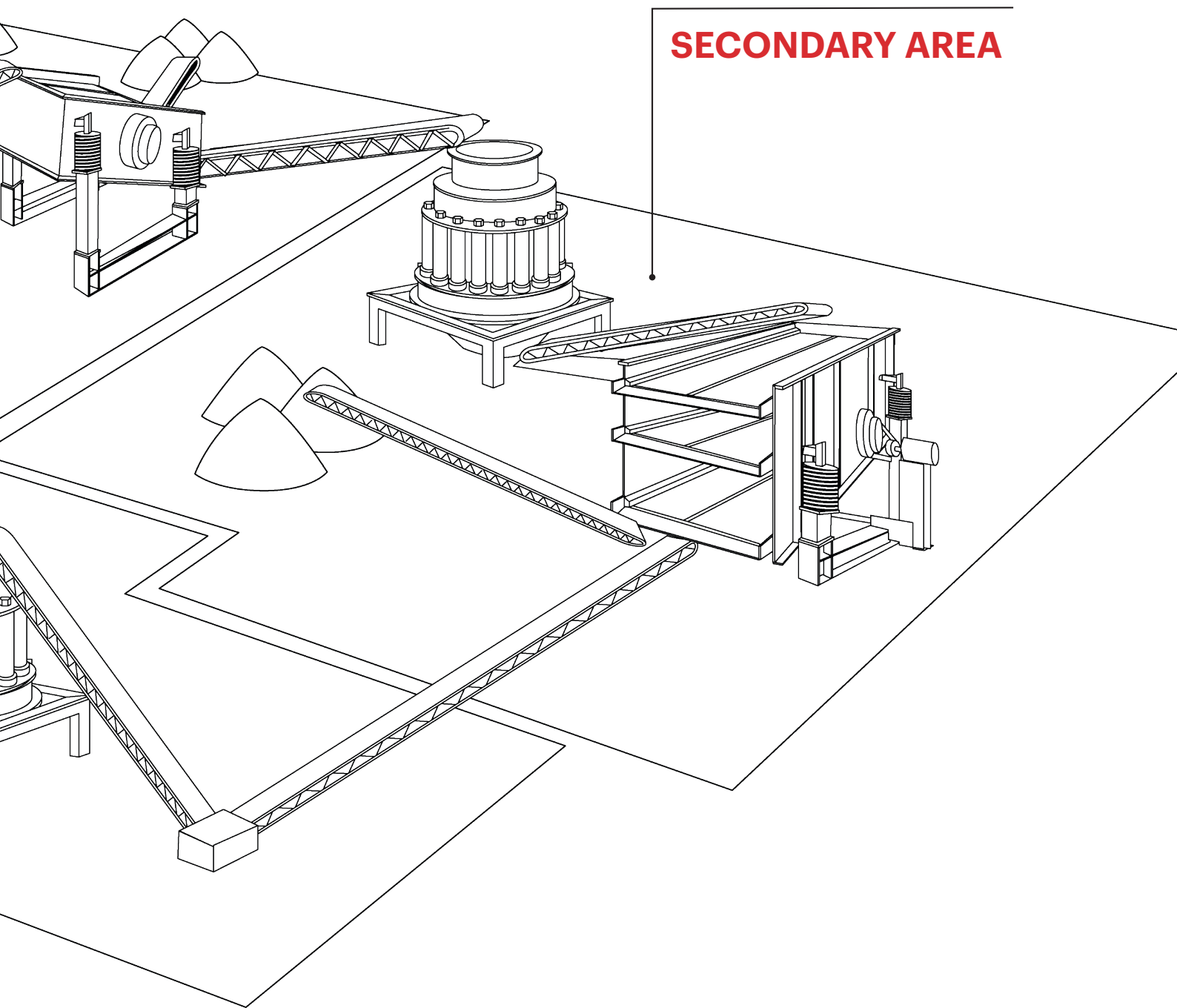


# QUARRY ROADMAP

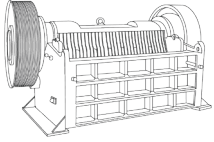
PRIMARY AREA



TERTIARY AREA

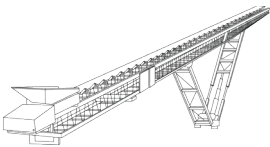


**SECONDARY AREA**



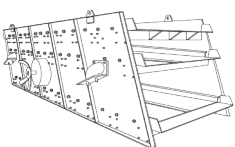
## 01 | Primary Crusher

- Accumulators – HYDAC, STAUFF
- Actuators – PARKER, ENERPAC
- Cooling Systems – HYDAC
- Couplings – **TIMKEN, FALK**, MARTIN
- Desiccant Filter Breathers – PULSARLUBE
- Electric Motors – **TECO**, WEG
- Filtration – HYDAC, STAUFF, PARKER
- Fasteners – HOBSON ENGINEERING, ICCONS, BRIGHTON BEST
- Hydraulic Accessories – STAUFF, HYDAC
- Gearboxes – NORD, DODGE, **BONFIGLIOLI**
- Lubrication – MOLYKOTE, **SHELL, CRC**
- Lubrication Systems – PERMA, **ALEMLUBE**
- Pulleys – MARTIN, FENNER
- Pumps – REXROTH, PARKER, HYDAC, ENERPAC
- Variable Speed Drives – **TECO**
- V-Belts – **GATES, TIMKEN**
- Valves – REXROTH, PARKER, HYDAC
- Wearing Compounds – **LOCTITE**



## 02 | Belt Conveyor

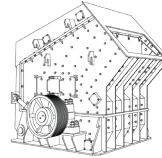
- Belt Guards – DODGE, SPECFAST
- Belt Scrapers – ROSTA
- Couplings – **TIMKEN, FALK**, MARTIN
- Conveyor Belt Repair – **LOCTITE**
- Conveyor Drums – DODGE
- Desiccant Filter Breathers – PULSARLUBE
- Electric Motors – **TECO**, WEG
- Fasteners – HOBSON ENGINEERING, ICCONS, BRIGHTON BEST
- Gearboxes – NORD, DODGE, **BONFIGLIOLI**
- Molded Oil Bearing – NTN, NSK
- Motor Mount Tensioners – ROSTA
- Locking Assemblies – MAV, TAS
- Lubrication – MOLYKOTE, **SHELL, CRC**
- Lubrication Systems – PERMA, **ALEMLUBE**
- Pulleys – MARTIN, FENNER
- Split Roller Bearing – COOPER, **SCHAEFFLER**
- SRB Solid-Block House Unit – **TIMKEN**
- Triple Lip Bearing – NTN
- Variable Speed Drives – **TECO**
- V-Belts – **GATES, TIMKEN**
- Wearing Compounds – **LOCTITE**



## 03 | Vibration Screen

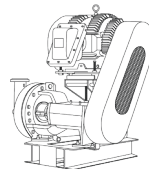
- Belt Guards – DODGE, SPECFAST
- Desiccant Filter Breathers – PULSARLUBE
- Driveshafts – HARDY SPICER

- Electric Motors – **TECO**, WEG
- Fasteners – HOBSON ENGINEERING, ICCONS, BRIGHTON BEST
- Motor Mount Tensioners – ROSTA
- Lubrication – MOLYKOTE, **SHELL, CRC**
- Lubrication Systems – PERMA, **ALEMLUBE**
- Variable Speed Drivers – **TECO**
- Pulleys – MARTIN, FENNER
- T41D Vibrating Screen Bearings – **SCHAEFFLER**
- V-Belts – **GATES, TIMKEN**
- Vibration Mounts – **MACKAY RUBBER**
- Wearing Compounds – **LOCTITE**



## 04 | Secondary Crusher

- Accumulators – HYDAC, STAUFF
- Actuators – PARKER, ENERPAC
- Belt Guards – DODGE, SPECFAST
- Cooling Systems – HYDAC
- Desiccant Filter Breathers – PULSARLUBE
- Electric Motors – **TECO**, WEG
- Fasteners – HOBSON ENGINEERING, ICCONS, BRIGHTON BEST
- Filtration – HYDAC, STAUFF, PARKER
- Hydraulic Accessories – STAUFF, HYDAC
- Lubrication – MOLYKOTE, **SHELL, CRC**
- Lubrication Systems – PERMA, **ALEMLUBE**
- Pulleys – MARTIN, FENNER
- Pumps – REXROTH, PARKER, HYDAC, ENERPAC
- V-Belts – **GATES, TIMKEN**
- Valves – REXROTH, PARKER, HYDAC
- Variable Speed Drives – **TECO**
- Vibration Mounts – **MACKAY RUBBER**
- Wearing Compounds – **LOCTITE**



## 05 | Pumps

- Belt Guards – DODGE, SPECFAST
- Desiccant Filter Breathers – PULSARLUBE
- Driveshafts – HARDY SPICER
- Electric Motors – **TECO**, WEG
- Fasteners – HOBSON ENGINEERING, ICCONS, BRIGHTON BEST
- Molded Oil Bearing – NTN, NSK
- Lubrication – MOLYKOTE, **SHELL, CRC**
- Lubrication Systems – PERMA, **ALEMLUBE**
- Pulleys – MARTIN, FENNER
- V-Belts – **GATES, TIMKEN**
- Variable Speed Drives – **TECO**
- Wearing Compounds – **LOCTITE**

# PROBLEM SOLVERS



## Timken Belts

Match-free quality belts, Timken Super II V-Belts are known as the problem solver. The Super II belt is designed for the toughest heavy duty applications.

### Leading Questions

- What problems are you experiencing with your belts?
- Have you considered reducing your long term belt cost?
- What brands are you using?
- What belt problem would you like to improve?



## Hydac Condition Monitoring

The CMExpert Hydraulic fluid condition monitoring unit was designed to provide a complete package solution for hydraulic and lubrication system monitoring.

Typical default Monitored Parameters include particle count, absolute conductivity value, change in electrical conductivity, absolute dielectric constant value, relative change in dielectric constant value, saturation level, and temperature.

### Leading Questions

- Have you experienced downtime operation due to fluid contamination?
- Have you considered 24/7 monitoring?



## Schaeffler T41 Vibrating Screen Bearing

The bearing that's designed for shaker screens. Schaeffler T41 Spherical Roller bearing extends bearing life with a special coating on the bore.

The bearings operate 70% longer than 'normal' bearings in the same installation position.

### Leading Questions

- What brand of shaker screen bearings do you use?
- Is extended bearing life important in this quarry?



## Solid Grease Bearings

Contaminated applications, areas where greasing is not possible, wet and flooded applications.

### Leading Questions

- Contamination is the major contributor to bearing failures in quarrying?
- What steps are you undertaking to address or prevent this problem?
- Is over or under lubrication an issue?
- Are these due to access issues or frequency or skill level?



## NTN Sealed Spherical Roller Bearings

With seals integral with the bearing, and designed to accept misalignment, provides the most effective contaminant exclusion solution by supplementing existing housing sealing devices. Replaces conventional 222 series Spherical Roller bearings, comes pre-lubricated, and can be mounted in standard SNG type plummer blocks.



## Gates Predator V-Belts

High quality belts, Gates Predator® V-belts are unique in their extreme robustness and high load carrying capability, they are unrivaled.

### Leading Questions

- What problems are you experiencing with your belts?
- Have you considered reducing your long term belt cost?
- What brands are you using?
- What belt problem would you like to improve?



## Timken Spherical Roller Bearing Solid-Block Housed Units

Excellent in high contamination applications such as conveyor tail pulleys, subject to belt spillage and burial. The Timken Spherical Roller Bearing Solid-Block Housed Units are the easiest on/off bearing on the market.



## Timken Quick-Flex Couplings

Quick-Flex couplings are direct replacements for virtually all comparably sized couplings in use. Requiring no lubrication and easy to install and maintain.

### Leading Questions

- Coupling alignment and access can be a major issue, are you aware of the Timken Quick-Flex coupling?
- Do you currently laser align your couplings?
- Are they the latest easy fit product?



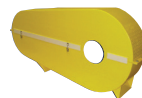
## TECO MAX e3 Mining Motor

Built for the Mining and Quarrying market.

The ultimate machine, with the features and performance desired by the world's top mining enterprises. Mining Spec IP66 protects against the elements. High efficiency reduces running costs.

### Leading Questions

- Do you use Mining Spec IP66 motors?



## Belt Guards

Easy Fitting – Light Weight – No Corrosion custom made to Australian standards for pumps, motors, gearboxes, screens, conveyors.

### Leading Questions

- Do you have easy fit corrosion and vibration resistant belt and motor guards?

## Service & Engineering

### Condition Based Assessment

- Site Surveys
- Condition Monitoring
- Predictive Maintenance
- Return Part Analysis
- Load Simulation and Finite Element Analysis
- Fall Mode Effect Analysis

### Process Improvements

- Design and Drafting
- Product Application Engineering
- Reverse Engineering
- Installation and Commissioning
- Corrective Services
- Special Purpose Manufacture
- Component Standardisation
- Asset Care and Rotables





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