

AIMEX 2007 PREVIEW



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UME sets record pace in Queensland

Experienced driller Brian Eltherington didn't think he'd ever hear himself saying 15,000 production drill-hole metres in a calendar month was "a breeze".

But the leading hand at the greenfields Mt Wright gold project site in north Queensland probably didn't expect to find himself in the middle of a "perfect storm" either – a set of conditions and factors conducive to drilling so many metres in the one place at the one time.

Experienced, motivated and hard-working crews, excellent drilling conditions, continuous operation without unscheduled delays, high-tech equipment and high equipment availability, and top-level field support, were all factors that came into play in May when specialised contractor UME Australia drilled 15,206.9m

of long-hole stope holes at Mt Wright, the emerging flagship underground mine set to start feeding ore to Resolute Ltd's Ravenswood mill ahead of schedule this month.

"When you've got all those things happening, and everyone is working together – the crews, the mine operator and the people providing back-up – it makes it a breeze. At this site we've had a really good set-up in terms of the nature of the work, and the logistics and ground conditions. It all came together, which doesn't happen very often," UME leading hand Eltherington said.



The result, says Resolute project manager for the Carpentaria Gold operations Craig Delany, will be an early start to production at Mt Wright where the company is targeting output of up to 800,000 tonnes in fiscal 2008 and one million tonnes per annum thereafter. The project, about 14km from the Ravenswood plant, has total resources estimated at 9.8Mt grading 3.4gpt. Its development significantly extends the life of the Ravenswood operation.

“Getting that first stope drilled out means we’ll start producing from Mt Wright this financial year. That’s not something we expected to do,” Delany said.

“It also puts us on track to achieve higher production in the new financial year.

“It’s an unbelievable number of metres for one month. Given your typical operational issues, your maintenance issues – there are always mechanical problems with machinery because of the underground environment – it’s been an extremely good performance by the UME lads.”

Further enhancing its reputation as an industry leader, UME shifted rapidly into high gear at Mt Wright after mobilising on site in mid-April. The



ON THE COVER: (Left to right) John Bawden Jnr – UME Driller, Jason Barrett – UME Fitter, Brian Eltherington – Driller, Garry Stewart – Driller, Phil Tolley – Carpentaria Gold Management and Craig Delaney – Carpentaria Gold Management.

new production drilling contract marks a return by the company to Ravenswood where it has worked previously for Carpentaria.

UME contracts and projects manager Stephen Bryant said excellent ground conditions – the drilling was in a weathered rhyolite breccia – and drilling team performance coupled with good support and co-operation from the Carpentaria Gold management team and UME logistics management all were key factors in attaining the latest drilling milestone.

“It’s a pretty good mark and it sets the pace for the rest of the company,” he said.

“Most of our sites are pretty competitive with each other. This will be a hard target to beat I think.”

Using an Atlas Copco Simba L6 automated production drill to drill 89mm-diameter holes in standard up-hole and down-hole rings in Mt Wright’s 40m-spaced production sub-levels, the UME crews worked continuous 12-hour shifts in May. There were no safety incidents during the month.

Bryant said the Simba L6 was “without a doubt one of the best rigs around”.

“We’ve operated all sorts of rigs. The L6 is one of the best rigs I’ve ever seen,” he said.

“We’ve only had it for a year or so and we’ve had some excellent results from it and hence it is our intention as part of a strategy to continually renew and modernise our drilling fleet to progressively replace our [older] Simbas with the L6 model.”

UME has grown significantly since it was established in 2001, more than trebling


the size of its full-time workforce in the past three years to more than 30 people. It will soon have six underground development jumbos and currently has five contracts in progress in Queensland and South Australia.

“We’ve got a few Australian records and a few world records already for metres per shift and things like that, and we’ve consistently achieved our targets at every site we’ve been to. And that comes down to the equipment, and the people and the back-up. Without them you wouldn’t get those sorts of drilling numbers.”

“These [Simba L6] are very user friendly. They are fully automatic - the machine is drilling the hole, pulling the rods and then it sits there and waits for the operator to set up the next hole.”

“All of the operators, as far as I’m aware, really like this machine. The operator comfort features - roominess in the cab, visibility and general comfort – are outstanding.”

Eltherington said six weeks of on-site maintenance support from an Atlas Copco team headed by Rudy Smith was another important factor in the drilling performance. Record metreage for a shift of 426.4m had been posted since the end of May.

“Having spare parts available when needed, and the general good service from Atlas Copco, does make a difference,” he said. 



Atlas Copco Simba L6C production drill.

Wombat shows no sign of slowing down

THIRTY-SIX years in the job, but there are no thoughts of retirement yet for one of Mount Isa's mining stalwarts.

In fact, the Robbins 81R nicknamed "The wombat" remains one of the strongest performers in the mine's large fleet of raise boring machines.

Xstrata Mount Isa Mines raise drilling manager Graham Mulder said a new milestone for the 81R-1164 the north Queensland mine bought Robbins Company Seattle in April 1971 was achieved earlier this year when the machine completed a 5m-diameter, 593m-deep ventilation shaft on the Enterprise copper complex. It went into the eight-month project straight after finishing a 4.5m-diameter, 530m-long underground raise.

Mulder, who has been involved with raise drilling since 1988, said the 81R had demonstrated its versatility, reliability and certainly durability, and had a solid workload ahead of it in the next few years.

"It's been a first class performer really. It's always gone very well," he said.

"We bought our Robbins machines (four of seven raise drills in the Xstrata Mount Isa fleet) in 1971 through to 1986. All of those machines are very well engineered and are a credit to the people who built them.

"I think it [the 81R] will keep on going – I can't see any reason why we'd retire it because it's just performing very well. We've done work on it and we continue to do work on it to try to upgrade it or take advantage of the latest technology available.

"We've got a fairly good program of raise drilling coming up; really, we have had for many years, but there is a busy period coming up."

Mulder has up to 30 people working in his division at Australia's major zinc-lead and copper producing underground mining complex. While previous significant mine-owned raise drill populations at WMC and Pasminco were transferred into privately-owned contractors, Mount Isa has endured as a fleet owner in its own right.

Mulder paid tribute to the operating team and Atlas Copco Robbins support personnel, led by the company's long-time Robbins product manager, Mike Antoszkiw, involved in recent shaft projects in which the 81R was used.

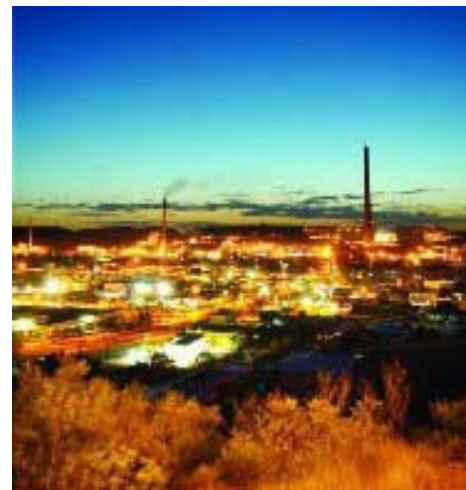
He said it was no mean feat shifting the 60-tonne-plus machine – among the raise-boring machine world's heavyweights – underground.

"We have taken it underground on two occasions for shaft boring projects," he said.

"You have really got the option of utilising the equipment you've got or bringing in another unit from elsewhere. In our case we had to dismantle the machine and take it underground and reassemble it. The biggest exercise there is the logistical one, not just in transferring all the equipment underground, but in preparation of what is a huge underground chamber to work in.

"I'm not sure if the last one we did was the biggest pulled from underground, but it would be up among the larger ones ever undertaken underground."

Back on the surface after a short mid-year break, the machine started work on the major new



Isa in north-west Queensland.

ventilation shaft project early in August last year.

The penetration rate during the reaming cycle averaged 0.283m per hour, which Mulder said was extremely pleasing.

"After initially being used to drill its own pilot hole and achieving an accuracy range within 1% over the near-600m journey."

"That was the largest raise, in terms of hole diameter and length, ever completed at Mount Isa," he said.

"The way the exercise went is a credit to the professionalism of the whole raiseboring team involved. With this machine and type of job we have our better operators on and they've again performed exceptionally well.

"Mike Antoszkiw is also quite a valuable resource to have available to help out as required. We have been able to work with Mike on any issues that might arise from a machine perspective and that relationship is a positive for us.

"On the most recent project when we started the reaming cycle it was extremely hot in Mount Isa, with days consistently well in the 40s [celsius]. The machine was running particularly hot and there were concerns about the main bearing and the gearbox oil breaking down under the extreme heat, so we explored the option of using synthetic oil instead of mineral-based oil, in conjunction with Mike and our oil supplier's engineer, and made that switch. And it went very well."

Mulder said modifications and refurbishment had kept the unit in excellent shape to take on whatever the Isa could throw at it in terms of conditions and technical challenges going forward.



Mount Isa's raiseboring fleet is one of the largest mine-owned fleets in Australia.

GBF on the move

A growing supply and service alliance built around GBF Underground Mining Company's underground "truck of choice" has Atlas Copco figuring heavily in the Western Australian mining contractor's fleet renewal program.

GBF, which itself has grown strongly in recent years on the back of its long-term partnership with South African-based gold miner Gold Fields in the Kambalda district of WA, is now hauling most of the ore and waste at the Junction, Argo, Leviathan and Belleisle mines with Atlas Copco MT5010 50-tonne-payload articulated dump trucks.

The contractor has seven MT5010s and two more on order. Next month it will start working at the new Cave Rocks underground gold mine – another Gold Fields operation – with the Atlas Copco trucks and also the manufacturer's ST1520 loader and M2D development drills.

GBF general manager Ron Ellis said the

company was in the middle of a "reasonable" capital investment program to rejuvenate its mining fleet and prepare for further expansion. Its workforce had grown to about 240 people, including managers, operators and maintenance personnel. The company does its own equipment maintenance but has engaged Atlas Copco for major component rebuilds.

Ellis said the supplier had impressed with its field support and the performance of equipment.

"They (the MT5010 trucks) have been performing well," he said.

"The TKMs (tonne kilometres) per hour achieved by the MT5010 trucks are very competitive, which results in a unit cost benefit to GBF and Gold Fields – that's what I think is attracting people to them. They are probably GBF's preferred truck of choice at the moment. We have used other trucks in the past but we

see the MT5010 as the truck of the future for our company.

"The relationship between Atlas Copco and GBF is very good. They've been able to assist GBF on various critical issues such as securing major pieces of plant and also finance assistance when required. Atlas Copco's product support seems to be superior to their competitors at the moment."

GBF maintenance manager John Brookes said the component rebuild arrangement with Atlas Copco worked well for the contractor in terms of cost benefit, scheduling, and, as a result, ensuring it had better control of outcomes.

"We have been maintaining our own equipment for some time and do that well, but obviously we also need the support of the OEM," he said.

"If we need a part we need to get it there and then and Atlas Copco is taking on board our requests for keeping stores up to date and stocking items that need to be stocked. So it is a collaborative type of arrangement."

"Our target availability level for the trucks is 85% and we've generally been above that, particularly since we started with the component rebuild program."

Working closely with the supplier on major component refurbishment scheduling and job turnaround had helped GBF exceed availability targets for the truck fleet, Brookes said.

"As an OEM they [Atlas Copco] had to be on board with that and to understand what our process was, and make sure components are available. They've been very good in that regard.

"Having trucks coming up for, say, engine rebuilds at the same time means you have to be pretty good with your scheduling because you usually have only one refurbished truck engine at a time. You've got to have the components to rotate through and do the rebuilds. There has got to be a clear focus on objectives and targets.

"I would say the support Atlas Copco has provided has helped us achieve a high level of utilisation of the equipment.

"Our target availability level for the trucks is 85% and we've generally been above that, particularly since we started with the component rebuild program."



Atlas Copco MT5010 ... GBF Underground Mining's choice as mine truck of the future.

AIMEX 2007

Productivity leader on full display

Innovating for superior productivity is the theme for the Atlas Copco Construction and Mining Australia display at AIMEX 2007 (Asia Pacific's International Mining Exhibition), to be held at Sydney's Olympic Park from September 4-7.

Advanced drilling technology, training systems and rock-bolting products will take centre stage at Atlas Copco's Stand 316 in the Dome. The company will also have information and video presentations on the Australian mining market's leading underground dump trucks, loaders and raise-drilling machines.

The **Pit Viper PV 275** multi-pass rotary blast-hole drilling rig will go on display at an Australian mining expo for the first time. Ideally suited to overburden drilling, the PV 275 tophead-drive, track-mounted unit can drill to about 60m and deliver bit load force up to 311.4kN. Standard drill pipe diameter is 270mm.

Atlas Copco's PV-270 series drills use proven systems and technology, ensuring excellent reliability, while some new features enhance the productive capacity of the units. They include:

- A four-part cooling system rated for 51.7C ambient operating temperatures, with sections providing cooling for the engine, air-end, hydraulics and turbocharger. The cooler is at the non-drill end of the machine to make servicing easier, improve airflow and reduce noise around the cab.
- An auxiliary breakout wrench that can be operated from the cab to break tight joints quickly and easily and avoid time wasting.



Atlas Copco Pit Viper PV275

- A travelling hose tray that keeps hydraulic and air hoses in place at all times, ensuring they are not damaged during drilling and tramming, for increased hose life.
- An optional four-jack machine lifting system for optimum stability.

As at other mining shows around the world, all eyes are expected to be on the world's fastest rock drill, the **COP 3038** hydraulic unit that operates at 102 Hz – almost twice the blow frequency of its predecessor, the COP 1838 ME, for a 50% higher penetration rate.

Designed for face drilling and rock reinforcement applications, where significant benefits are being attained courtesy of the drill's superior net penetration rates, the COP 3038 is 5kg lighter and 15mm shorter than its predecessor, and has 10% fewer parts, all of which equates to an exceptionally compact 30kW drill.

Hole range is the same at 43-51mm using T38 drifter rods and 64mm using T38 rods.

Building on well proven features such as Atlas Copco's unique double dampener system, the COP 3038 has a patented valve design which forces the piston to turn rapidly in its rear position – just like a "bouncing chamber" – and modified hydraulic oil channels.

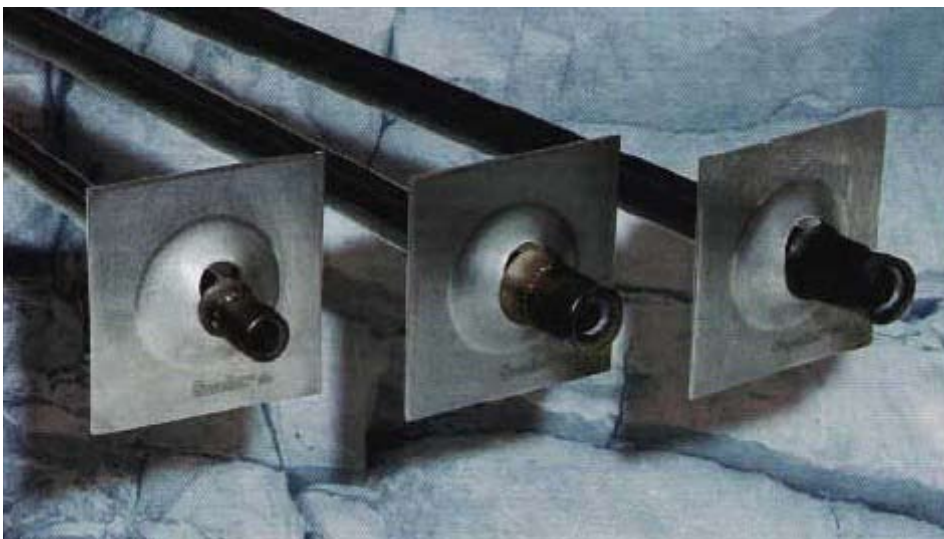
Silence please

In a quiet corner of the stand at AIMEX, Atlas Copco will also have on show a ROC D9 "Silenced" SmartRig, one of the new generation range of ground-breaking rigs with a noise level about 10 dB(A) below that of other drills on the market.

With an advanced silencing system made up of several components which work to reduce the overall noise level, the ROC D9 can operate close to urban areas and other sound-sensitive locations.

The SmartRig also features Atlas Copco's ROC Manager drill and blast planning and control system, used to design drill patterns, log deviation data with the help of a probe, and analyse MWD (Measure While Drilling) results. While ROC Probe accurately determines drilling direction and MWD logs key parameters at specified intervals while drilling, job data can be readily analysed via reports generated automatically by ROC Manager.

The SmartRig's Automatic Feed Alignment and Rod Adding systems reduce set-up time and eliminate operator error by setting feed angles, and automatically add rods to enable drilling to a given depth, respectively. A 10-15% increase in rig utilisation results. The rig can also be



New generation Swellex roof bolts.

equipped with a laser plane receiver that generates an accurate reference height so all holes can be drilled to exactly the same depth without sight rods or manual marking of bench heights.

Smarter drilling with the ROC D9 also means fuel savings via the unit's Stage 3/Tier III engine, integrated control of all rig system with Atlas Copco's computerised Rig Control System, industry leading operator ergonomics and safety, and significantly reduced hosing and maintenance.

Another productivity enhancing innovation is Atlas Copco's **ProCom** technology, a satellite-based communication and supervision system for surface drill rigs and compressors able to provide daily performance and service data, as well as exact equipment position information.

Accessible via the internet, the data can help make planning and scheduling of production easier and simplify routine service and maintenance scheduling. Engine and percussion hours, drilled metres, and service indicators for engines, compressors and hydraulic oil are all transmitted, along with rig position on a map or as latitude/longitude readings.

Advanced training

A new generation portable **drill jumbo simulator** offers an advanced training tool for putting new and experienced operators through realistic exercises and scenarios.

Speeding delivery of training and allowing it to occur safely without exposing trainees and actual production machines during employee upskilling, the jumbo simulator has six simulation modules mimicking an Atlas Copco twin-boom drill jumbo in action underground.

High-fidelity controls and simulated mine views give trainees a realistic 'work' environment – they get to line up drill holes and adjust key work parameters – but the simulator also provides impartial feedback on drilling accuracy, speed, drill pattern selection and the adroitness of machine movements.

Making a comeback at AIMEX is the Atlas

Copco **Swellex rock bolt** brand.

A new type of rock bolt that can adapt to rock deformation or displacement underground, while maintaining a constant load capacity, has been developed by the company as part of its commitment to safer and more productive solutions in ground engineering and rock reinforcement.

The **Roofex bolt** is a new type of deep mine rock bolt that adapts itself to various types of rock movement.

Further down the path of Swellex rock bolts and MAI self-drilling anchors, the Roofex deep mine rock bolt meets a need for effective bolting in difficult underground applications such as tunnelling in squeezing ground or deep mining in poor quality rock.

The new bolt is a high quality steel bar inside a smooth plastic sheathing which is fixed inside the borehole with cement or resin grout. The bolt also has a patented energy absorber which functions as a sliding element over the high quality steel bar. This allows the bolt to extend outwards under load while still ensuring that the load capacity remains constant. In this way, the bolt can absorb sudden displacements such as rock burst or seismic events.

This makes the Roofex especially suitable for developing new, deep underground excavations in poor quality rock or in areas where rock burst or seismic events are frequent. The bolt can be produced in standard lengths typically used in mining and tunnelling, and

the displacement capacity can be pre-selected during manufacturing.

Atlas Copco will also introduce the Swellex Manganese Line – new rock bolts that represent a radical departure from previous product development.

Made from high-strength, higher-manganese-



Grind Matic Jazz bit grinder.

content steel specially engineered for rock reinforcement, the Manganese Line rock bolts are designed to take stress and deformation that would make other bolts fail.

Instant rock support, high anchorage capacity, tolerance to hole-diameter variation ... are all still there. A Manganese Line bolt delivers up to 20% more load capacity than previous Swellex products. But the new bolt absorbs strain and stretches to accommodate movements – elongating up to 50% further than its predecessor.

All that Jazz

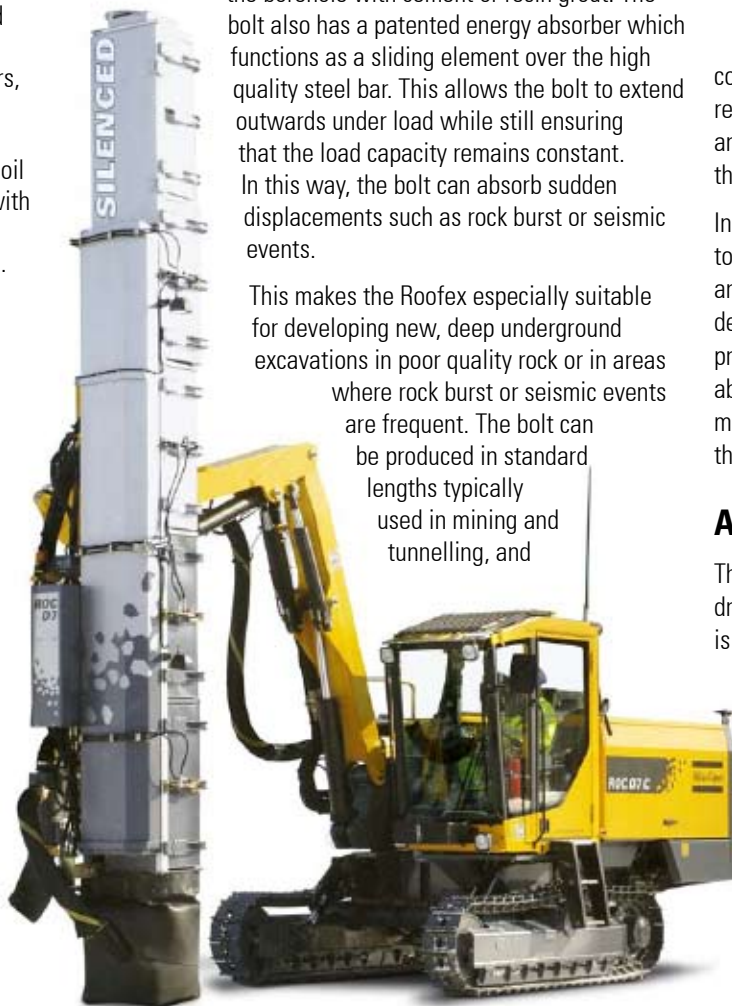
The latest addition to the Secoroc range of drill bit grinding equipment, Grind Matic Jazz, is a rig-mounted, semi-automatic unit that uses Atlas Copco's patented profiled diamond grinding wheels to restore work spherical and ballistic button bits to new condition.

Designed to economically grind cemented carbide and steel in a single operation, the **Grind Matic Jazz** swings out on its drill-cabin front mounting for easy access when it's time to sharpen bits.

The unit is simply hooked up to an air hose, electrical connection and water, and grinding can start. It can be easily retrofitted to most rigs currently in use.

A big hit

Meanwhile, the mantle of "world's biggest volume-produced hydraulic breaker" has finally been passed on from **Atlas Copco's HB 7000**



and now rests with the **10-tonne HB 10000** unit launched earlier this year in Europe and set to make its Australian debut at AIMEX.

The giant new machine is not just a record breaker. Delivering up to 50% higher



productivity than the HB 7000, the HB 10000 opens the door to the use of hydraulic breakers as cost-efficient production tools for primary breaking and as a true alternative to drilling and blasting.

The HB 10000 is not just a blunt instrument. Technical features developed by Atlas Copco for its hydraulic breakers include:

- * StartSelect, which enables the breaker's start-up and shut-down behaviour to be adapted to suit conditions.
- * AutoControl, which ensures an optimal balance of impact energy and impact frequency to maximise percussive performance. AutoControl reduces blank firing force and controls energy recovery.
- * PowerAdapt automatically shuts down the breaker if oil pressure is too high, preventing downtime, and is particularly useful when breakers are used on different carriers.
- * DustProtector II, a combination of multiple strippers, which prevents abrasive rock dust and foreign bodies from penetrating the lower breaker section.



* ContiLube ® II, Atlas Copco's automatic lubrication unit.

Another key to the high productivity of the HB 10000 is the Atlas Copco ProCare proactive service and availability concept, which guarantees dependable production. **h**

Reverse Circulation hammer to be released at AIMEX

The Secoroc RC50 reverse circulation drill hammer will launch in September when the product is presented to the global mining community at the AIMEX 2007 expo in Sydney, Australia.

"Australia is the largest market in the world for this product," Claes Hillblom, Atlas Copco Construction & Mining Australia business line manager Secoroc tools (RDT), told Headway.

"This is a very important market and a very important launch."

Hillblom said a long-term development program had aimed to deliver an RC hammer which set new standards in performance, reliability and simplicity.

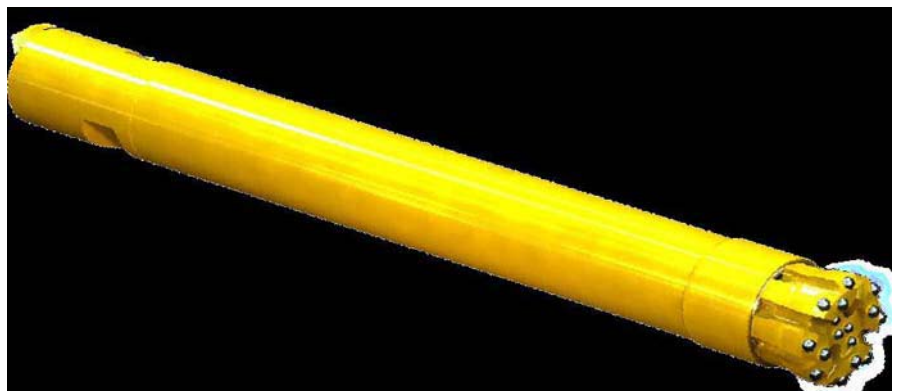
The company's engineers came up with the patented Quantum Leap cycle design to maximise drilling efficiency and develop more power for any available compressor capacity. The result is 10-15% faster penetration rates in suitable ground.

"The frequency [blows per minute] of the Secoroc RC50 is as much as 34% higher than some competitors," Hillblom said.

"This translates into faster drilling and

outstanding performance in all [rock] formations, though it has been performing best in hard rock formations."

According to the manufacturer, the Quantum Leap air cycle maximises efficiency and



develops greater power for large or small compressor capacities. The air cycle uses a special poppet valve to drive air pressure to accelerate the piston to higher energy levels, with the valve allowing pressure to transfer through to the piston for as much as 80% of the stroke.

Longevity and reliability were improved by

a larger piston struck-end, a heat-treated collection tube and the use of the Quantum Leap valve cycle.

"Comparison tests have shown the [RC50] sample tube having up to 70% longer service

life compared to present market leaders in the segment," Hillblom said.

The RC50's unique collector tube assembly was easier to service thanks in part to the patent-pending tube retention system. Replacing wearable parts doesn't require complete disassembly. **h**

New mining and tunnelling manager

Stevan Topalovic, Atlas Copco Construction and Mining Australia's new business line manager, tunnelling and mining, will waste no time getting into stride in pursuit of his primary objective. Barely in the country to take up the role, the former Rocket Boomer product manager at Orebro, Sweden, is feeling confident and excited about the potential in the Australian market.

His main goal: extending the company's international leadership in the underground drilling market to Australia.

"We have the products for this market now. The success of these new Rocket Boomer jumbos over the past 12 months in Australia, and the work we are doing right now, will be reflected in what we are delivering in a year from now, because that is how long it is taking with delivery delays [due to unprecedented demand for equipment]."

"But right now is the important time because the demand is there, the product is successful, and we at Atlas Copco are not in this business to be second. We are the big ones [in the market]. We are the oldest, in the end."

Approaching his 10-year anniversary with the company, Topalovic joined Atlas Copco from an Atlas Copco Wagner dealer in Serbia, late in 1997. Based in Belgrade, he was responsible for underground truck and loader sales and support in Europe and the CIS. In mid-1999 he moved to Almaty in Kazakhstan to open the company's first Central Asia office and be its manager. He spent

about 3.5 years in the role.

Since early 2003 Topalovic's working life has been about drills.

"First I was based in Orebro as product manager for Boomers," he said.

"Then I was regional business manager for Asia and Australia for underground equipment."

"Most of the other markets can be characterised as being one colour or another. There are the lower-tech equipment markets, and those where the demand is for high-tech equipment," he said.

"In Australia you have both extremes. Because of a chronic lack of skilled workers, a few big companies are looking very seriously at automated mining. But the one extreme is the high-tech end. And then you have had contractor mining. Contractors have a different task to big mining companies and are looking for basic equipment. As one of our customers put it to me: I want to be able to take a guy from the street, put him on a machine and make him an operator in two hours."

Wasn't technology helping the customer achieve this outcome more effectively?

"Yes," said Topalovic. "But it takes time till advantages of new technologies become visible to everybody."

A change has been leading underground mining contractor Barmincos use of a new generation,



Stevan Topalovic.

automated Rocket Boomer E2C with Atlas Copco COP 3038 drifters, at the same time as Newcrest Mining has had success with a similar L2C unit. Barmincos believes the technology can

help give it a competitive advantage in deep underground mine development.

"Barmincos is the first contractor to buy a rig control system, or computerised machine," Topalovic said. "And the Cadia [Newcrest] machine is already working very successfully. So we need to really communicate this effectively to customers, and internally, to build on these developments."

Topalovic's view of the Australian market hasn't changed much over the years. It was a more complex market for underground equipment than most others in the world.

"This is a very important market, and region, for this company. We have a product which much better suits the market [than in the past]. We were learning from our mistakes and that's the most expensive way to learn, but we have it now and it is time to really make some ground." h

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