



GEAR WHISPERS

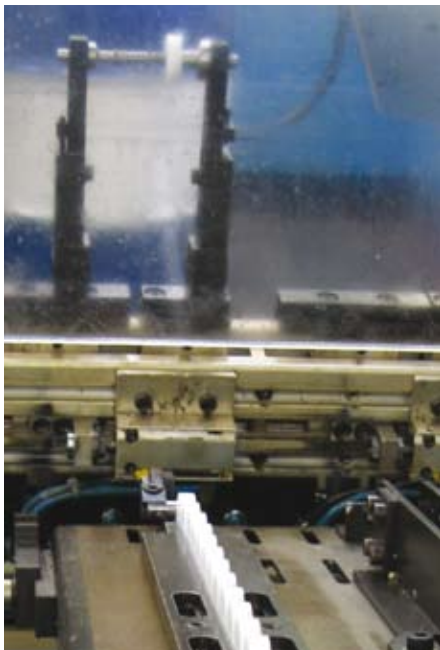
Ronson Gears: Quality Vision Skills Technology

Huge success on a small scale

It seems no challenge is too great
(or small) for the team at Ronson Gears!



The acetal and brass gear set



Auto-feed: Less handling when auto-loading the acetal gears

Recently, Ronson filled an export order from the UK to manufacture a batch of tiny gear sets consisting of a gear and two pinions.

We're extremely proud of the finished product – a small acetal gear that has 60 teeth and is 0.4 module, and brass pinions that have 10 teeth and a diameter of just 4.8mm.

Although the task was challenging, with some minor adjustments to special tooling and the skill and knowledge of our gear cutting team, our Koepfer 160 CNC gear hobbing machine cut the small gears effortlessly and quickly.

'At Ronson, the staff have state-of-the-art technology at their fingertips'

All three parts made use of the auto-feed table, reducing handling, with the tiny brass pinions being deburred whilst in the machine, saving hours of labour. In addition, our Wenzel CNC gear measuring machine was able to measure all three gears. Seeing our machine, capable of measuring gears up to 1.4 metres in diameter, measure gears so small was quite remarkable.



The acetal gears (three at a time) in readiness for gear cutting



One of the small brass gears, all 4.8mm of it, being measured in our CNC gear measuring machine

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The capabilities of our Wenzel machine, it seems, are endless.

What was also exciting about the export project was the way our gear cutting team was able to adapt to the circumstances and apply its knowledge of the capabilities of Ronson's machines to operate them accordingly.

The result reinforced in the minds of our staff that at Ronson, they have state-of-the-art technology at their fingertips that is capable of almost anything. Without Ronson's vision to invest in such technology, not only would this outstanding result not have been possible, but we would never have been considered for the job in the first place by our friends in England. Repeat orders for thousands of these parts have since been received.





Mr Sulaiman Jamal and Mr Mushtaq Jamal from Bevel Gears (India)



The Hon. Dr Brendan Nelson MP Minister for Defence alongside Ronson's pod at the Australian International Airshow



Talking shop! L-R: Gordon New, Steve Drummond (Rolls Royce), Scott Reeve (JSF Industry Team), Steve Pollard (Rolls Royce) and Terry New

Welcome to another edition of Gear Whispers. When last I put pen to paper in May 2006, I noted what a busy start to the year it had been. I also spoke of our vision



and continual improvement. Well, the first half of this year has brought more of the same! A special thanks to all our customers and suppliers for your continued support.

Following a recent trade mission to German gear manufacturers with the AGMA, our managing director, Gordon New, reported on how advanced those companies are in addressing world best practices, and what systems and cultures they have in place for them to be at the pinnacle of gear manufacturing.

As we push forward in the never-ending search for new customers and new markets, we understand the need for continual change and improvement as we strive for gear manufacturing excellence.

Our business continues to grow. We have recently seen an increase in international enquiries and have shipped gears to the United Kingdom, Malaysia, Trinidad & Tobago and have quoted to companies in the USA. Locally it is no surprise the mining industry is keeping us busy, as is the construction industry, with customers increasing their exports to areas such as the Middle East.

With the current growth of our business, excellent forward orders in place, and a long 'wish list' of new equipment, our planned trip to the world's largest machine tool exhibition, EMO, Hanover in September, will be very interesting to say the least.

Terry New, *Director Sales/Marketing*

seen unprecedented growth with DORMA consolidating its position as Australia's market leader in automatic doors and other doorcontrol products and systems. DORMA Australia exports to many countries in Asia Pacific, with major growth coming from the Middle East.

So next time you pass through a sliding door, check the sticker and there's a good chance you will see the DORMA red crown.

For further information about DORMA Automatics and its diverse range of door products, visit www.dorma.com.au .



Destination Ronson

Global visitors to Ronson Gears highlight Ronson's success at building and strengthening international relationships.

Ronson Gears recently welcomed guests from companies based in Europe, India and New Zealand to our facility at 18 Teton Court Highett (Victoria, Australia).

Following on from becoming an official member of the Australian Industry & Defence Network (AIDN) last year, in 2007 Ronson exhibited at the Australian International Aerospace & Defence Exposition for the first time. Staged at Avalon Airport (Victoria) in conjunction with the Australian International Airshow, it gave us an opportunity to explore the defence and aviation markets in more depth.

'Rolls Royce was interested to learn more about Australian gear manufacturing'

Our presence at the airshow led to Rolls Royce (UK) asking to pay Ronson a visit. Accompanied by Steve Munford, a senior advisor for the Australian Government Department of Defence based in London, the Rolls Royce representatives were interested to learn more about Australia's manufacturing capabilities, specifically gear manufacturing.

Another esteemed guest included Armin Wacker, Sales and Marketing President of Koepfer (Germany), a world-renowned manufacturer of gear machines and tools with which we've established a great relationship over the years. Armin was instrumental in the sale of the two auto-loading Koepfer CNC gear hobbing machines we have at our facility, which enable us to ensure greater precision over large batch quantities with shorter lead times.

In June, we welcomed Mr Sulaiman Jamal and Mr Mushtaq Jamal from Bevel Gears (India) to our facility. As members of the AGMA we often cross paths with our friends from the sub-continent, but this time we were honoured that they came and visited us on their recent trip to Australia.

Other visitors we were privileged to see were our associates from AW Frazer and AH Gear, both from New Zealand, as well as a number of our local customers.

Ronson Gears' 'open door' policy is based on our belief that being open and frank with the people we deal with (be they customers, suppliers or competitors) forms a level of trust and respect that would otherwise take years to develop. We believe that facilitating the sharing of knowledge will only benefit Australian industry, which we hope will in turn keep work in Australia.

Customer profile: DORMA Automatics Pty Ltd

Ronson Gears gains much satisfaction in working with many of Australia's most renowned manufacturers such as DORMA Automatics.

DORMA Automatics, formerly BWN Industries, is a supplier of automatic swing and sliding door operators to the Australian market.



DORMA Automatics' sliding doors at Monash University



Over the years, Ronson Gears has played a major role in the development and manufacture of the gearboxes in DORMA's range of Australian made automatic sliding doors.

The 01 Series is the leading automatic door operator range on the market, with 95% Australian made content and is unsurpassed in quality and performance. The fully sealed gear box with 8:1 ratio steel cut gears, completely redesigned at Ronson, forms part of the purpose-built high torque motor in the EL301 and AL401 models.

This ideal combination of heavy duty motor and gear box is engineered to operate doors up to 400kg and cater for high pedestrian traffic applications.

Our two companies have been working together since 1995 and in that time have

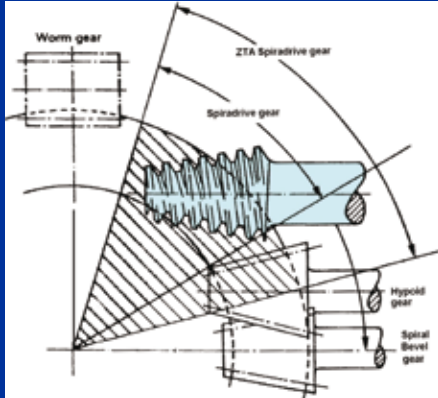
Top gears – Ronson launches Spiradrive Gear Systems



Spiradrive components are available without the housing



Spiradrive's versatility makes it ideal for a wide range of industries, including aerospace



How the Spiradrive gear set looks compared to traditional methods

Looking for a compact, light, quiet gear box with high power transmission, high accuracy and positive backlash control?

Found: Spiradrive Gear Systems!

Recognising the industry demand for gears possessing the above qualities, Ronson Gears has introduced Spiradrive Gear Systems to Australia. Our inspiration for doing so is to offer an innovative solution to meet the needs of industry.

The aerospace, defence, transport and machinery industries can benefit from the versatility of Spiradrive for rotary translation and power transmission applications. Spiradrive is available in a standard range of gearboxes (motorised and overload protected), loose gear sets, or custom designed and manufactured to specifications.

Launched at Austech 2007 (Australia's premier manufacturing technology exhibition) in May, Ronson allowed the products to speak for themselves. And they did, creating plenty of interest amongst visitors to Ronson's display.

'Spiradrive results in higher strength and smoothness of action with greater efficiency'

Spiradrive products are manufactured by English company Davall Gears, which has been designing and producing gears for over 100 years. Spiradrive represents a significant technological advance on traditional 'worm gears'.

Spiradrive is a right angled/offset drive, consisting of a gear and pinion. The pinion has fewer teeth than the gear and is of parallel or tapered screw form. The gear is a face type similar to a hypoid-offset spiral bevel. This arrangement offers a wide range of gear ratios (6:1 to 360:1), with a greater number of continuously meshing teeth (than for a worm gear of similar size), resulting in higher strength and smoothness of action with greater efficiency. Also, mounting requirements for Spiradrive are not as critical as for bevel or hypoid gears, ensuring maximum accuracy and positive backlash control.

For aerospace, Spiradrive can: actuate flight control surfaces, missile fins, engine nozzles, fuselage utilities, including screw jacks, hoists, engine stands, cameras, etc.

For defence, Spiradrive can: accurately control azimuth and elevation motion of gun systems or satellite antennae and electro-mechanically operate doors, hatches and ancillary equipment, especially where hydraulic systems are impractical.

For transport, Spiradrive can: be applied to urban transport, electric vehicles, golf buggies, stair lifts and passenger conveyor systems.

For machine control, Spiradrive can: be put to work in machine tool measuring machines, and is an automatic choice for robotic system manufacturers.

For further information please call us on +61 3 9555 9822 or email us at enquiries@ronsongears.com.au .

Online catalogue

Ronson Gears' stock catalogue is online at www.ronsongears.com.au .

You can browse the range of gears and racks available from Ronson and identify the part that best suits your application, making ordering even easier.

Naturally, special requirements can be made to order!

www.ronsongears.com.au

Ronson congratulates...

Adam Loveday, recently promoted to the newly-formed position of project engineer. He will assist the production and sales teams in new projects. Adam, who we have sent to Europe and the USA for specialist training, is highly regarded at Ronson for his attention to detail and his success in running our bevel gear cutting section over a number of years. Adam started as an apprentice in 1997, and is just one of the fine young employees we have here at Ronson. The future certainly looks bright for our company!

Richard Wolfe, our despatch officer, who recently notched up 10 years of service. The laconic style of 'Speed', as he's affectionately



Adam Loveday, promoted to project engineer

known, bares well in what can sometimes be a high pressure position, especially at the end of each month! Congratulations Richard.

Stephen Bell, our production manager, who reached five years of service earlier this year. We thank Steve for his continued dedication and his ability to run such a 'tight ship' on the factory floor.

CNC gear measuring machine better than ever



The new rotary table in action

Recently, a number of upgrades to our CNC gear measuring machine took place. Andy Nagel, of Wenzel Geartec, made the long trip over from Germany to install a new rotary table that gives us the capability of now measuring up to 1.4m in diameter. Software was also updated, along with a new hydraulic system to support the functionality of the new rotary table.

As well as the installation of a new probe head and an automatic probe changer, the machine also had calibration checks done.

We have had our CNC gear measuring machine for two and a half years now and it has afforded Ronson an unbelievable amount of credibility worldwide. Whilst its sole purpose is to measure gears, it also has the flexibility to act as a CMM as well.

Experience the difference!

A friendly reminder that we offer this measuring service to Australian industry – competitors and customers alike.



Gordon New, managing director, presents at the World Gear Summit in Germany

9th World Gear Summit

Ronson managing director Gordon New's recent travels to Hanover, Germany saw him visit the Hannover Messe (Hanover Fair), the world's leading showcase for industrial technology; report to the World Gear Summit; and absorb the expertise of German companies that are world leaders in gear manufacturing.

Taking place at Hannover Messe was the World Gear Summit, hosted by Eurotrans (of which Ronson Gears is an associate member). For a number of years, members of Eurotrans, along with members of the AGMA, Japan Gear Manufacturers Association (JGMA) and the Chinese Gear Manufacturers Association (CGMA) have come together for the summit to exchange technical and economical information about the gear profession.

Gordon was once again asked to address the summit, talking about the impact of

Australia's economic situation on gear manufacturing. He thanks those Australian gear companies that responded to his questionnaire, which enabled him to speak with great accuracy on the topic.

In another highlight, Gordon joined an AGMA delegation to tour the facilities of Flender, Liebherr and SEW-Eurodrive, to name just a few. Eight companies in total were visited, many involved in producing wind turbine gearing and, without exception, all displaying world's best practice in operational systems and techniques.

"Germany 2007 proved to be one of my most successful trips of the past 10 years," Gordon said. "This is largely due to the knowledge gained from visiting internationally-renowned German gear companies, and the insights shared between my peers from other gear manufacturers associations."