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# New Cutters HAVE THE FLOOR

***Concrete cutting techniques are truly universal. Specialist contractors in every corner of the world now use them and the geography of those who manufacture this specialized equipment is also expanding. Andrei Bushmarin reports on the latest developments in the floor sawing sector.***

Australia is not exactly famous as a concrete cutting hub. There is a common perception that cutting-edge hardware is devised predominantly in Europe, while Asia accounts for most of the world's output of diamond consumables. But is this true?

## **Meet Makinex and its floor saws**

The Australian company Makinex based in Sydney has been providing equipment to the construction, landscaping, infrastructure and related industries since 2004. Makinex's latest range of floor sawing machinery includes three petrol and electric models. They boast a number of improvements aimed at enhancing ergonomics and productivity. Sturdy and easy-to-operate, the machines are designed for concrete cutting at a depth of up to 153mm using a 350 or 400mm diameter blade without needing to reconfigure the pulley system.

The new petrol model comes standard with a

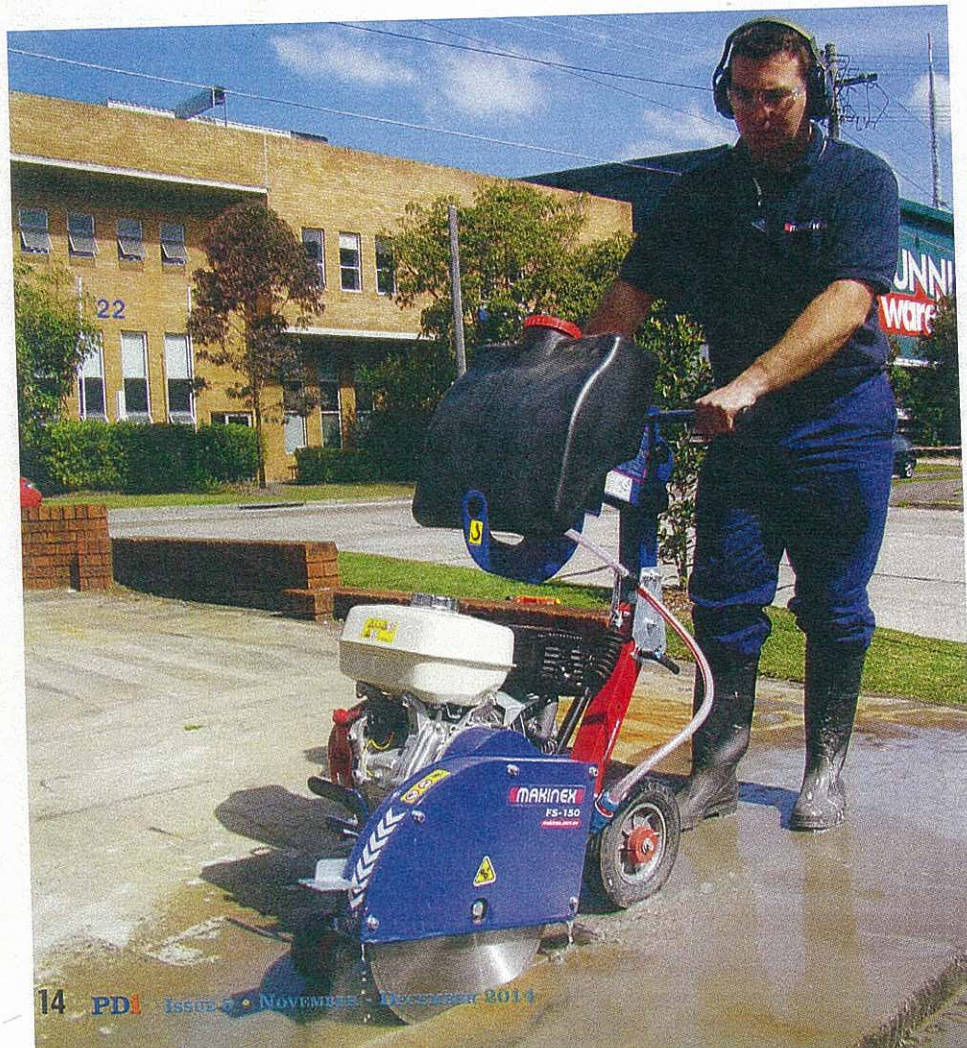
Honda GX270 series motor that has greater fuel efficiency, lower emission level and quieter performance. The FS-130SP electric 356mm, FS-150P petrol 406mm and FS-150ETP electric 406mm models complete the range. Thanks to the in-house flush cutting system, which allows greater depths with less force, and the pneumatic shock absorber adjusting the cut depth to suit the application, Makinex floor saws are ideal for cutting concrete slabs, pavements, crack chasing, roads and footpaths.

An adjustable rear axle enabling the blade to cut flush against walls and curbs makes them easy to use on constrained job sites. Other features include a depth indicator, guided sight for straighter cutting and adjustable handle bar height for ergonomic operation.

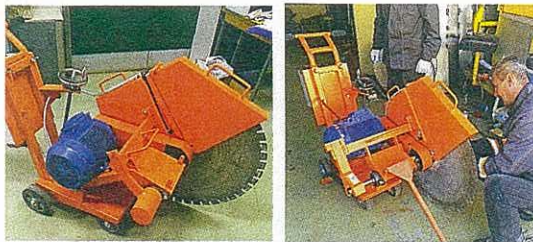
**[www.makinex.com.au](http://www.makinex.com.au)**

## **From Russia with...a floor saw**

Russia is another example of an economy, which relies on the import of machinery rather than export. There is a handful of diamond tooling manufacturers in the country, but no company has made a stab at building concrete cutting hardware, except St. Petersburg-based DUS. Headed by Maxim Petrov, who is also one of the co-founders of Russia's Sawing and Drilling Association, DUS has been supplying







concrete cutting and demolition equipment to local contractors for over 10 years.

Having consolidated its position as one of the domestic industry's prime suppliers, DUS took a bold decision to try its hand at making cutting equipment. Research and development efforts went on for 10 months and resulted in the electric floor

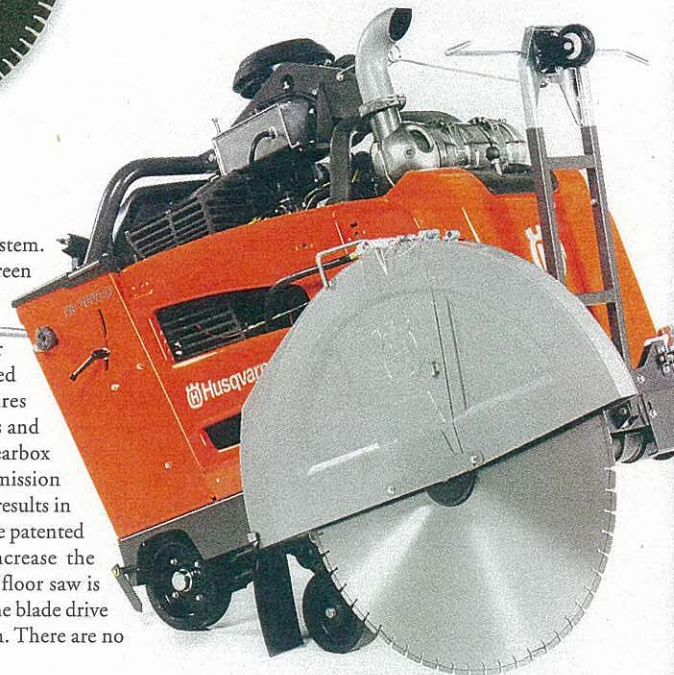
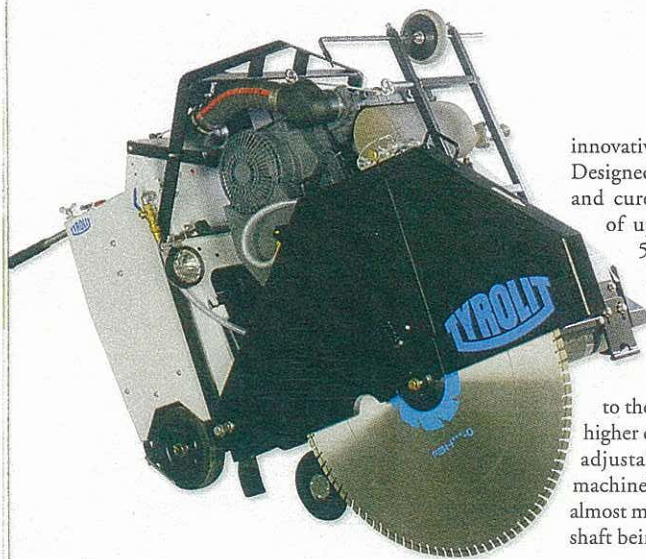
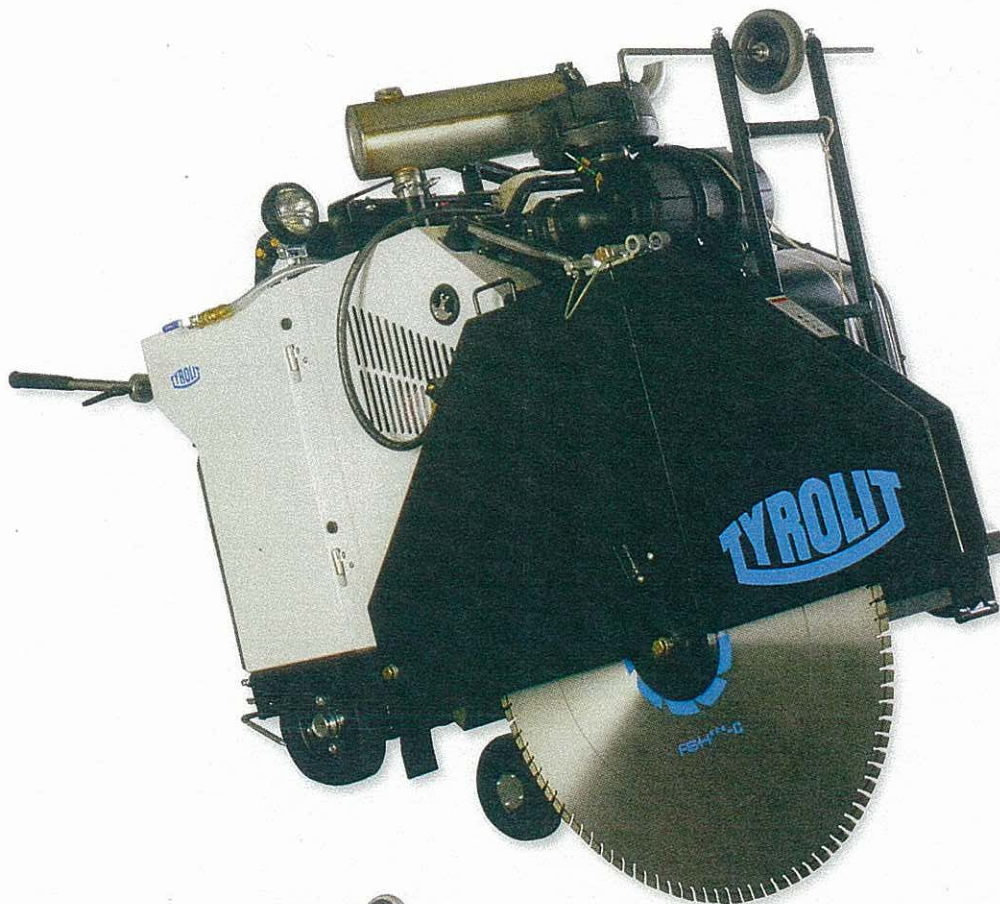
saw DUSFS 270. Powered by a 7.5kW electric motor, the floor saw accommodates diamond blades up to 800mm in diameter and has a maximum cutting depth of 320mm.

Due to its compact dimensions, the machine fits into any standard-size doorway, easy to manoeuvre onsite and, once the job is done, can be dismantled into three pieces within 10 minutes for transportation. The DUSFS 270 comes, as standard with the conventional electric motor, but it is also available with a HF speed regulator.

[www.dus.ru](http://www.dus.ru)

### Innovative power transmission on Tyrolit machines

Tyrolit Hydrostress has expanded its floor sawing range with another model featuring the company's



innovative power transmission system. Designed for cutting asphalt, green and cured concrete to a depth of up to 480mm, the new 55kW FSD1274\*\*\* floor saw boasts a three-speed gearbox, which ensures optimum blade speeds and long blade life. The gearbox enhances power transmission to the saw blade shaft, which results in higher cutting performance. The patented adjustable handles serve to increase the machine's manoeuvrability. The floor saw is almost maintenance-free due to the blade drive shaft being located in the oil bath. There are no



lubrication points and the driving belts do not come into contact with slurry.

The FSD1274\*\*\* is powered by a Kubota turbo diesel engine, with the cutting depth being adjusted electromechanically. An automatic water shut-off system is installed to reduce water consumption. For operational safety, the saw is fitted with an electronic saw blade clutch. A re-designed cover protects the operator from hot and moving engine parts and helps reduce the noise level.

[www.tyrolit.com](http://www.tyrolit.com)

### Two Tier 4 Final-compliant models from Husqvarna

Husqvarna Construction Products used the last World of Concrete show to unveil two new floor saws complying with the latest Tier4 Final/Stage III B emission regulations. Sturdy and powerful, the FS 5000 D and FS 7000 D are designed for heavy-duty applications. The bigger FS 7000 D is a walk-behind model suitable for roadwork, large sawing jobs and deep floor sawing. The smaller FS 5000 D is perfect for small to mid-size jobs, service work and floor sawing. As with all Husqvarna machines, great importance is

Most importantly, cutting performance has been boosted through a more even weight distribution. This balance has been achieved by replacing the metal water tank with a plastic one. It also has a beneficial side effect of reduced vibration. The cutters have been re-designed to give them a sleek modern look. Available in four versions, depending on the maximum diameter of diamond blade of 350, 400, 450 and 500mm, the machines can be fitted with different engines.

[www.cutsdiamant.com](http://www.cutsdiamant.com)

attached to ergonomics and user-friendliness. The electronically controlled engines feature digital displays showing all operational parameters. The new floor saws are available with either a three or single speed transmission system.

[www.husqvarna.com](http://www.husqvarna.com)

### New cutters from Cuts Diamant

The new range of walk-behind floor saws from Italian company Cuts Diamant boasts a number of improvements on its forerunners.

### Sea Technology launches Seafloor 500

Another Italian manufacturer, Sea Technology, used Samoter to present its new model Seafloor 500. Powered by a 10kW Honda engine, the compact and powerful Sea-

floor 500 has a cutting depth of up to 190mm and comes standard with a 500mm diamond blade. According to the manufacturer, the new machine has excellent cutting precision and stability thanks to the short wheelbase and the position of the water tank, which is now mounted above the blade.

[www.seatechnology.eu](http://www.seatechnology.eu)

