

AGP®



R13 Ring Saw

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Internal & Confidential

AGP | R13 Ring Saw

AGP TAIWAN

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Introduction

Target group & Applications

Introduction & Target Group

The R13 is a uniquely capable tool for professional concrete cutters and contractors. Its 3200 W universal motor provides the power for the fastest possible deep cutting in reinforced concrete, and its electronic controls grant excellent performance, motor protection, and operator useability. Since it uses a universal motor, you can just plug it in to the mains and get to work cutting. There is a lot of time saved in setting up.

The R13 is a special tool in a concrete cutter's arsenal, being able to perform extremely deep cuts due to its blade being driven from the side, rather than the center, as other saws do. This allows its 330 mm blade to achieve a full 220 mm depth of cut; a depth that would need a wall saw with at least a 540 mm blade to perform otherwise. Being able to take the place of a wall saw in certain circumstances means that having a ring saw can save a huge amount of time and cost. The offset drive of the blade also allows the blade to plunge past its center, allowing corners without overcuts. These capabilities are also possible with a diamond chainsaw, but with a ring saw, the speed of cutting is faster, and the cost per linear meter is much less.

The R13 is a unique ring saw in the industry with its patented blade drive design. This allows easy and accurate drive tension adjustment (even on the fly), as well as easier blade changes.

Applications

The R13 will generally be used in situations that require cutting depths beyond what is possible with a hand saw, as well as cutting clean corners without overcuts. Often operators will pre-cut as much as possible with a hand saw first; to save time and cost. A ring saw is very useful in finishing door or window cut outs in extra thick walls. When you have a job that requires a ring saw, and you only have single phase electricity available, the R13 is your best choice.



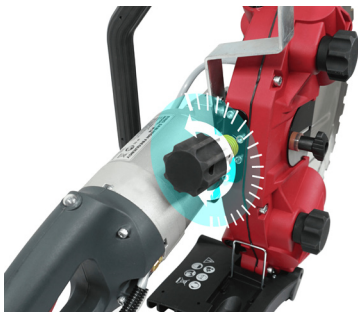
Sales Arguments



Simple Side-Thrust Tuning
Maximum-stability guide-roller design keeps the blade centralized.



Splash Guards
Flexible upper and bottom splash guards prevent splashing slurry.



One-Step Blade Tensioning System
Patented One Step Drive Tensioner makes fast and easy blade adjustment and keeps tension equalized.



Ergonomic Handle Design
Optimum control and minimized fatigue.



LED Load Indicator
LED Indicator Indicates load conditions (electronic & thermal protection).
Waterproof Hall Effect Switch
Hall Effect Switch is impervious to dust or water



Quick & Easy Blade Changing
No need to strip the drive cover to change the blade.

Technical Specification



| | |
|-----------------------------|---|
| Model | R13 |
| Power Input | 220 V : 3000 W (certificate), 230-240 V : 3200 W (certificate), 110-120 V : 2800 W (certificate), |
| No Load Speed | 3900 min ⁻¹ |
| Linear Speed with 16" blade | 67.4 m/s |
| Blade Diameter | 330 mm (13") |
| Max. Cutting Depth | 220 mm (8.7") |
| Insulation Class | Class I, (220 V models with PRCD / GFCI) |
| Dimensions (LxWxH) | 730 x 280 x 450 mm |
| Weight | 12.4 kg (27.3 lb)(Not incl. blade) |

Offer Content

Standard Accessories

- 1 R13 Ring Saw
- 2 330mm Ring Saw Blade
- 3 T-Wrench
- 4 Lock Nut Wrench



Comparison Table



| Brand | AGP | DragonSaw | DragonSaw |
|--|----------------------------|---|--|
| Model | R13 | Mini Dragon Saw EMDS-230 | Dragon Saw EDS-60-220 |
| Power Input | 3200 W | 2800 W | 3200 W |
| No Load Speed | 2850 min ⁻¹ | 2600 min ⁻¹ | not listed |
| Blade Ø | 330 mm (13") | 305 mm (12") or 406 mm (16") | 406 mm (16") or 508 mm (20") |
| Depth of Cut | 220 mm (8.7") | 216 mm (8.5") w/ 12" blade or 318 mm (12.5") w/ 16" blade | 305 mm (12") w/ 16" blade or 406 mm (16") w/ 20" blade |
| Waterproof / Dustproof Hall Effect Switch | Yes | No | No |
| Overload Protection | Yes | Yes | Yes |
| Thermal Protection | Yes | Yes | Yes |
| LED Load Indicator | Yes | Yes | No |
| Blade Change | No disassembly required | Disassembly required | Disassembly required |
| Running Friction | Minimal | High | High |
| Adjustable Guide Roller Thrust | Yes | No | No |
| Adjustable Drive Tension | Yes (one central adjuster) | Automatic (high parasitic losses) | Automatic (high parasitic losses) |
| Weight, w/o blade | 12.4 kg (27.3 lb) | 13.6 kg (29.9 lb) | 15.5 kg (34 lb) |

Conclusion The Dragon Saw offers the choice of 2 blade diameters, but its automatic anti-slip drive tension system results in very high parasitic drive losses, resulting in less power available to cut the concrete. The patented **AGP** design allows the drive tension to be easily adjusted on the fly, compensating for wear and giving just enough tension, without excessive losses. This allows balanced tension on both rollers and the absolute minimum drive losses. Allowing the maximum power to the blade to cut the concrete. On the **AGP** R13, blade changes require no disassembly of the tool and can be performed very quickly. The Dragon Saw system requires a fair amount of disassembly of the mechanism, taking significantly longer.

Tool Dimensions

