



HC18 High Frequency Concrete saw

Mar. 2025

Internal & Confidential

AGP | HC18 High Frequency Concrete Saw

AGP TAIWAN

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Introduction

Target group & Applications

Introduction

The HC18, together with its P9K Power Converter, is an indispensable tool for concrete cutting.

- Its 6600 W high frequency motor provides the power for the fastest possible cutting.
- PMSM permanent magnet synchronous motor technology for the highest possible output efficiency, which has far superior performance over competitors' induction motor designs.
- The electronic controls grant excellent performance, motor protection, and operator useability.
- 457 mm (18") blade for up to 175 mm depth of cut.
- Incorporates a variety of useful features to maximize work efficiency.

Applications

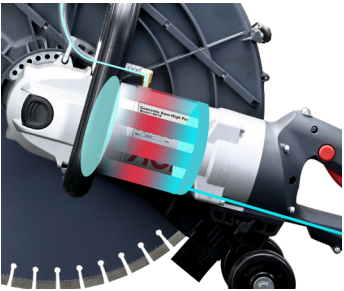
- The HC18 is the go-to tool for cutting concrete, being the fastest and most economical solution in most situations.
- The added depth of cut allows the operator to perform certain cuts not possible with a 16" blade.
- It is capable of flush cutting.
- It is also suitable for pre-cutting, making the operation of ring saws and chainsaws more economical.

Target Groups

The HC18 is an essential tool for specialist concrete cutter's, demolitions specialists, construction professionals, or anyone needing an intensive use concrete saw.



Sales Arguments



Super-Efficient High-Frequency Motor

6600 W, water-cooled permanent magnet motor for outstanding power and efficiency. Constant speed is maintained regardless of load.

Blade Brake

Fast-acting electronic Blade Brake for safety



Flush Cut System

Special design allows very close to flush cutting



Toggle Latches

Blade Guard with Toggle Latches for quick conversion to Flush cutting

Adjustable Blade Guard

Tool-free blade guard angle adjustment.



Guide Rollers

Guide Rollers for stability and perpendicular cutting



LED Load Indicator

Allows the operator to work at maximum efficiency

Waterproof Hall Effect Switch

Hall Effect Switch is impervious to dust and water



Splash Guard Brush

Quick removable brush for slurry

Technical Specifications



Model	HC18
Power Input	3φ~380-480 V 6600 W
No Load Speed	3000 min ⁻¹
Linear speed with 18" blade	70.0 m/s
Blade Diameter	457 mm (18")
Arbor	25.4 mm (1")
Max. Cutting Depth	175 mm (6-7/8")
Ingress Protection Rating	IP66
Cable Length	6 m
Dimensions (LxWxH)	699 x 268 x 491 mm
Weight	11.6 kg (25.5 lb)

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Model	P9K
Power Input (maximum)	3φ~380-480 V : 16A 9000 W
Min. Water Flow (25°C)	3.5 L/min (1 gpm)
Max. Water Pressure	7 bar (100 psi)
Ingress Protection Rating	IP66
Dimensions (LxWxH)	447 x 219 x 251 mm
Weight	6.0 kg (13.2 lb)

Offer Content

Standard Accessories

- ① HC18 High Frequency Concrete Saw
- ② Hex Key (M3)
- ③ Wrench (M17)
- ④a * Flush Cutting Flange Kit - 60 mm bolt hole circle or
- ④b * Flush Cutting Flange Kit - 88.9 mm bolt hole circle + 3-bolt

(* Choose 4a or 4b)



①



②



③



④a 60 mm bolt hole circle



④b 88.9 mm (3-1/2'') bolt hole circle + 3 bolt pattern

Optional Accessories

- ⑤ Flush Cutting Rim Brush
- ⑥ 457 mm (18'') Flush Cutting Blade (88.9 mm bolt hole circle)














⑤ Flush Cutting With Rim Brush



⑥

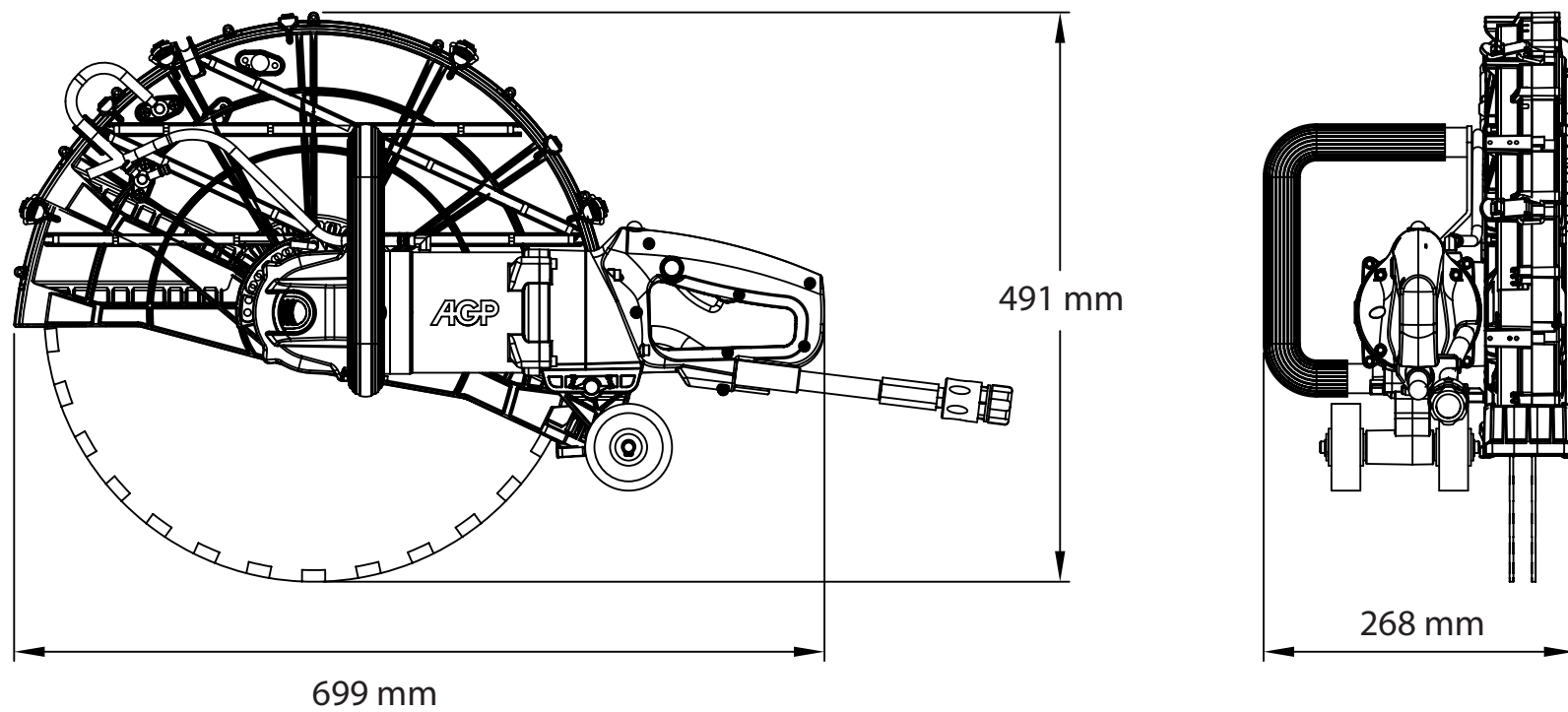
Comparison Table

Brand					
Model	HC18	TS40	K6500	BELUGA SXM + SQUATINA 400 / 400B	HC S18
Motor Type	PMSM	3 Phase Induction , High Frequency	3 Phase Induction , High Frequency	3 Phase Induction , High Frequency	Hydraulic
Power Input 3 ϕ ~380-480 V	6600 W	6500 W / 4800 W	5500 W / 4100 W	8000 W / 5400 W	20 - 34 lpm @ 120 bar
Efficiency 3 ϕ ~380-480 V	90%	74%	75%	67.5%	Not Listed
Blade Diameter	457 mm	400 mm	400 mm	400mm	450 mm - 460 mm
No Load Speed	3000 min ⁻¹	2500 min ⁻¹	4300 min ⁻¹	2800 min ⁻¹	2000 - 3300 min ⁻¹
Linear speed with 18" blade	70.0 m/s	52.3 m/s	90.0 m/s	58.6 m/s	77.8 m/s
Depth Of Cut	175 mm	165 mm	155 mm	165 mm	187 mm
Waterproof / Dustproof Switch	Yes, Hall-Effect Type 	No, (traditional type)	No, (traditional type)	No, (traditional type)	No, (traditional type)
Weight	11.6 kg	9.4 kg	9.8 kg	11.2 kg	9.4 kg
IP Class	IP 66	IP 55	IP 54	IP 67	Not Listed
Blade Guard Material	Plastic	Sheet Metal	Plastic	Plastic	Sheet Metal
Flush Cutting	Yes 	No	No	Yes (Must use different sawhead 400B)	No
Quick-Release Blade Guard	Yes 	No	No	No	No
Blade Brake	Yes 	No	No	No	No
Guide Rollers	Yes 	No	No	No (Tool-Free Sprocket Cover)	No
Splash Guard	Yes (removable) 	No	Yes	No	No
LED Indicator	Yes 	No	No	No	No
Conclusion	The AGP is the best choice for a large, high-powered concrete handsaw. It has the highest efficiency motor of all the tools here. It has many features which the others lack, such as guide wheels, blade brake, LED indicator, dry cutting, and most importantly: flush cutting capability! The AGP HC18 only needs to fit a flush cut flange to convert to flush cutting. The only other tool in this list with flush cutting is the Dr. Bender, and to convert it to flush cutting, you would need to purchase a completely different sawhead, which is expensive.				

Comparison Table

Brand						
						
Model	P9K	FU6 U	PP65	PB RX/SX 12	HPP18E	HPP18V FLEX
Power Input 3ϕ 380 V-480 V	16 A (9000 W) (max)	13.5 A (6500 W)	12 A (6500 W)	15 A (12000 W)	11,000 W 3-400 V	Engine: Vanguard 18 HP
Information Indicator	LCD display	2 Flashing LEDs	LCD display	3 Flashing LEDs	N/A	N/A
Min. Water Flow (25°C)	3.5 l/min (1 gpm)	Not Listed	Not Listed	Not Listed	N/A	N/A
Max. Water Pressure	7 bar (100 psi)	3 bar (45 psi)	(Air Cooled)	3 bar (45 psi)	N/A	N/A
Weight	6.0 kg (13.2 lb)	Not Listed	9.5 kg (20.9 lb)	16.5 kg (36.4 lb)	128 kg	105 kg
Dimensions (LxWxH)	447 x 219 x 251 mm	Not Listed	419 x 184 x 351 mm	469 x 173 x 400 mm	805 x 625 x 695 mm	805 x 625 x 695 mm
Packing	Strong Carton	Not Listed	Wooden case	Not Listed	Not Listed	Not Listed
Conclusion	<p>The P9K gives excellent power with a useful information interface and features a tough, water resistant enclosure.</p> <p>The Hycon is a very capable machine, but it is expensive and the operator needs to transport a power pack to the jobsite which weighs over 100kg, plus the hydraulic hoses, etc.</p> <p>The AGP HC18 + P9K is clearly the best and most versatile machine.</p>					

Tool Dimensions



Tool Dimensions

