



HCS19 High Frequency Concrete Chainsaw

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Internal & Confidential

AGP | HCS19 High Frequency Concrete Chainsaw

AGP TAIWAN

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Introduction

Target group & Applications

Introduction

The HCS19, together with its P9K Power Converter, is a uniquely capable tool for concrete cutting.

- Its 6600 W high frequency water cooled 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' asynchronous induction motor designs.
- The electronic controls grant excellent performance, motor protection, and operator useability.
- Time saving features such as tool-free tension adjustment and dual plane spirit levels.

Applications

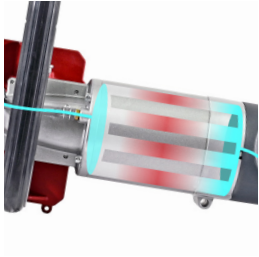
- A concrete chainsaw has unique capabilities, being able to perform many types of cuts in reinforced concrete which are not possible with any other method.
- It allows corners to be cut perfectly cleanly, with no overcuts.
- It also allows very small cutouts to be made, as small as the width of the guide bar.
- Its special design allows very near to flush cuts.
- Depending on the guide bar used, it enables very deep depths of cut, achieving an impressive 470 mm with a 19" bar.
- Often operators will precut as much as possible with a hand saw first; to save time and cost.
- It's very useful in finishing door or window cut outs in extra thick walls.
- Perfect for deep cuts in confined spaces where a wall saw cannot fit.

Target Groups

The HCS19 is an essential tool for specialist concrete cutter's, demolitions specialists, construction professionals, or anyone needing 470 mm depth of cut and the special capabilities of a concrete chainsaw.



Sales Arguments



Super-Efficient High-Frequency Motor

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



Dual Plane Spirit Levels

Dual plane horizontal and vertical spirit levels for precise alignment



Side Handle with Hand Protector

The ergonomic side handle allows excellent control in many positions and includes a hand protector



Waterproof Hall Effect Switch

Hall Effect Switch is impervious to dust and water

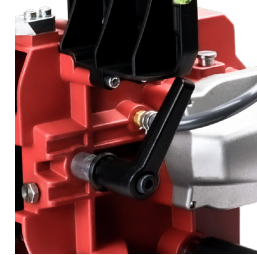
LED Load Indicator

LED Indicator Indicates load conditions



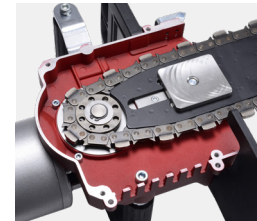
Bumper Spike

Bumper Spike for increased leverage



Tool-Free Chain Adjustment

Tool-free bar clamp lever for faster chain tension adjustment enables a huge time savings



Flush cut system

Special design allows very close to flush cutting



Main Handle Hand Protector

Unique main handle design gives enhanced protection for the operator's right hand from chain breakage

Technical Specifications



Model	HCS19
Power Input	3ϕ~380-480 V 6600 W
No Load Speed	8500 min ⁻¹
Linear speed	20.7 m/s (3/8"), 25.7 m/s (0.444")
Pitch	3/8" or 0.444"
Guide Bar Nominal Length	12" , 14" , 16" or 19"
Max. Cutting Depth	406 mm (w/ 16" Bar)
Max. Cutting Depth	470 mm (w/ 19" Bar)
Ingress Protection Rating	IP66
Dimensions (LxWxH)	656 x 215 x 317 mm
Weight	8.7 kg (19.1 lb)



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

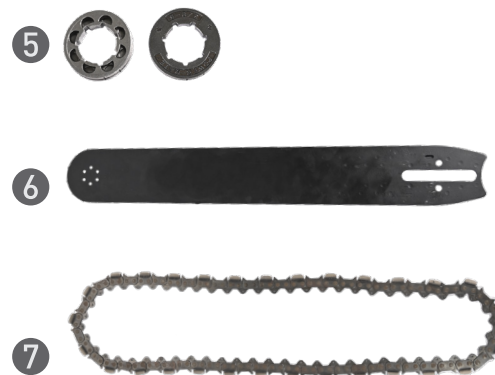
Standard Accessories

- ① HCS19 High Frequency Concrete Chainsaw
- ② Snap Ring Pliers
- ③ T-Wrench
- ④ Hex Key (M4)





















Optional Accessories







- ⑤ Sprocket
- ⑥ Guide Bar
- ⑦ Diamond Chain



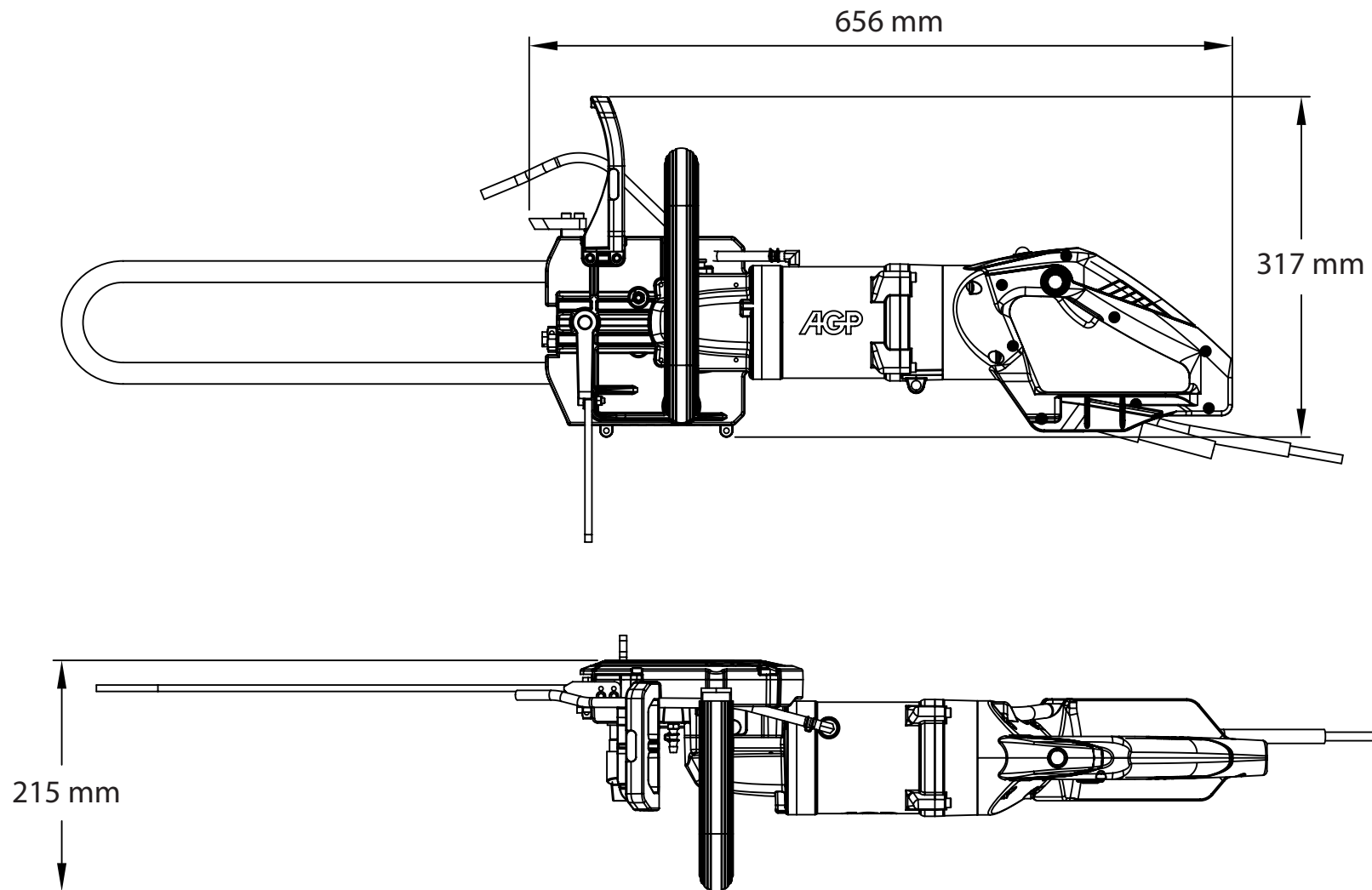
Comparison Table

Brand						
Hf Chainsaws						
Model	HCS19	TK40	K6500 Chain	Beluga SXM + Espada 400	Spider Chainsaw	CWF 630 Hf
Motor Type	PMSM 	3~ Induction, High Frequency	3~ Induction, High Frequency	3~ Induction, High Frequency	Servo Drive	3~ Induction, High Frequency
Power Input 3~380 V	6600 W	6500 W	5500 W	8000 W	6500 W	9000 W
Efficiency 3~380 V	90%	74%	75%	67.5%	[Not Quoted]	[Not Quoted]
Bar Length	300 mm / 350 mm / 400 mm / 480mm (12" / 14" / 16" / 19")	300mm / 350mm / 400mm (12" / 14" / 16")	300mm / 350mm / 400mm (12" / 14" / 16")	400mm / 500mm / 600mm (16" / 20" / 25")	300mm / 400mm (12" / 16")	250 / 380 / 500 / 630mm (10" / 15" / 20" / 25")
Sprocket / Chain Pitch	3/8" - 9T or F4 (0.444")	3/8" - 8T (ICS Force3) or F4 (0.444") (ICS ProForce)	3/8" - 9T or 0.444" - 7T	F4 (0.444") (ICS ProForce)	3/8" - 8T (ICS Force3) or F4 (0.444") (ICS ProForce)	F4 (0.444") (ICS ProForce)
No Load Speed	8500 min ⁻¹	5500 min ⁻¹	8800 min ⁻¹	2800 min ⁻¹	[Not Quoted]	6500 min ⁻¹
Linear Speed	22.33 m/s (3/8") - 25.7 m/s (0.444")	21 m/s (3/8") - 24 m/s (0.444")	24 m/s (3/8") - 26 m/s (0.444")	20 m/s	[Not Quoted]	[Not Quoted]
Depth Of Cut	305 / 356 / 406 / 470 mm	320 / 370 / 420 mm	350 / 400 / 450 mm	380 / 480 / 600 mm	300 / 400 mm	260 / 380 / 500 / 630 mm
Weight (w/o Bar & Chain)	8.7 kg	9.8 kg	9.1 kg	7.5 kg + 5.2 kg = (12.7 kg)	12.0 kg	14.0 kg
IP Class	IP 66	IP 55	IP 54	IP 67	IP 64	IP 54
Waterproof Hall-Effect Switch	Yes 	no	no	no	no	no
Bumper Spike	Yes 	Yes	No	No	Yes	Yes (ICS Wall Walker)
Splash Guard	Yes 	No	Yes	No	No	No
Led Indicator	Yes 	Yes	No	No [Tool-Free Sprocket Cover]	No	No
Tool-Free Chain Adjustment	Yes 	Yes	No	Yes	Yes	Yes
Slurry Collector	Yes 	No	No	No	No	No
Flush Cutting	Yes (+4.0 mm) 	Yes (+ ?)	No	Yes (+ ?)	Yes (+ ?)	Yes (+ 4.0 mm)
Conclusion	The AGP is the lightest and most efficient chainsaw in this group. Its very high power output allows it to run at a higher linear speed, for more efficient cutting. It includes many useful features, such as tool-free chain adjustment, bumper spike, and flush cutting. The main handle is at the most ergonomic angle for best control and low fatigue operation.					

Comparison Table

Brand						
Model	P9K	FU6 U	PP65	PB RX/SX 12	SPIDER POWER PACK	Pentpack 427
Power Input 3 ϕ 380 V-480 V	16 A (9000 W) (max)	13.5 A (6500 W)	12 A (6500 W)	15 A (12000 W)	16 A (11000 W)	16 / 32 A (18000 W) (31 kW max)
Information Indicator	LCD display	2 Flashing LEDs	LCD display	3 Flashing LEDs	LCD display	4 Flashing LEDs
Min. Water Flow (25°C)	3.5 l/min (1 gpm)	Not Listed	Not Listed	Not Listed	Not Listed	4 l/Min (1 gpm)
Max. Water Pressure	7 bar (100 psi)	3 bar (45 psi)	(Air Cooled)	3 bar (45 psi)	4 bar	min. 1.5 bar (20 psi)
Weight	6.0 kg (13.2 lb)	Not Listed	9.5 kg (20.9 lb)	16.5 kg (36.4 lb)	11 kg	26 kg
Dimensions (LxWxH)	447 x 219 x 251 mm	Not Listed	419 x 184 x 351 mm	469 x 173 x 400 mm	430 x 200 x 320 mm	680 x 300 x 280 mm
Packing	Strong Carton	Not Listed	Wooden case	Not Listed	Not Listed	Not Listed
Conclusion	The P9K gives excellent power with a useful information interface and features a tough, water resistant enclosure. The AGP HCS19 + P9K is clearly the best and most versatile machine.					

Tool Dimensions



Tool Dimensions

