



CS18 High Frequency Concrete Chainsaw

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Internal & Confidential

AGP | CS18 High Frequency Concrete Chainsaw

AGP TAIWAN

Lee Yeong Industrial Co., Ltd.

No.2, Kejia Rd., Douliu City, 64057, Taiwan

Tel: 886-5-5518689 Fax: 886-5-5518635

AGP EUROPE BV

Evenbroekveld 16D, 9420 Erpe-Mere, Belgium Tel: +32 53 21 62 22 Fax: +32 53 83 88 20



Introduction Target group & Applications

Introduction & Target Group

This saw, together with its P8K Power Converter, is an indispensable tool for professional concrete cutters. Its 6600 W, PMSM motor has significantly higher 90% efficiency than the induction type motors used by competitors, providing the necessary power to easily drive long guide bars. Its electronic controls grant excellent performance, motor protection, and operator useability. It incorporates a variety of useful features to maximize work efficiency, especially its tool-free chain tensioning system and dual-plane spirit levels.

The P8K Converter is unique in the industry in having 32A input capacity, allowing far higher power on single phase supply than the 16A of competitors' converters.



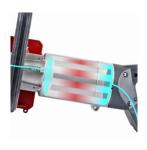
A concrete chainsaw has unique capabilities, being able to perform many types of cuts in reinforced concrete which are not possible with any other method. It allows corners to be cut cleanly, with no overcuts. It also allows very small cutouts to be made, as small as the width of the guide bar. With patience and skill, it is even possible to make curved cuts. Its special design allows very near to flush cuts. And of course, depending on the guide bar used, it enables very deep depths of cut, achieving an impressive 470 mm with a 19" bar.

When a special concrete cutting challenge is encountered, the CS18 wins the day.





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



Main Handle Hand Protector

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



Side Handle with Hand Protector

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



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



Waterproof Hall Effect Switch

Hall Effect Switch is completely waterproof and dustproof

LED Load Indicator

LED Indicator Indicates load conditions

Technical Specifications





Model	CS18			
Power Input	3 ⊘ ~380-480 V 6600 W 1 ⊘ ~200-240 V 5500 W (32 A), 3600 W (16 A)			
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)			
Dimensions (LxWxH)	635 x 250 x 316 mm			
Weight	8.9 kg (19.5 lb)			

Model	P8K		
Power Input (maximum)	3 ⊘ ~380-480 V 16 A 8000 W 1 ⊘ ~200-240 V 32 A 7000 W		
Min. Water Flow (25°C)	3.5 L/min (1 gpm)		
Max. Water Pressure	7 bar (100 psi)		
Dimensions (LxWxH)	460 x 220 x 260 mm		
Weight	7.1 kg (15.6 lb)		

Offer Content

Standard Accessories

- **1** CS18 High Frequency Concrete Chainsaw
- 2 Snap Ring Pliers
- **3** T-Wrench
- 4 Hex Key (M4)



Optional Accessory

- **5** Sprocket
- **6** Guide Bar
- Diamond Chain



Comparison Table

HHusqvarna[®] Pentruder **Brand Hf Chainsaws** Model **CS18** TK40 K6500 Chain Beluga SXM + Espada 400 Spider Chainsaw CWF 630 Hf 3~ Induction, High 3~ Induction, High 3~ Induction, High **Motor Type PMSM** 3~ Induction, High Frequency Servo Drive Frequency Frequency Frequency Power (Input) 3~380 V 6600 W 5500 W 8000 W 6500 W 9000 W 6500 W Efficiency 3~380 V 90% 74% 75% 67.5% (Not Quoted) (Not Quoted) At Decreased Power Power (Input) 3~230 V 6200 W / 5500 W N/A N/A N/A N/A (Not Quoted) 5500 W (32 A) Wired Direct 3000 W N/A (3 Phase Only) Power (Input) 1~230 V 3700 W 3500 W 3500 W 3700 W (16 A) W/ Adaptor 90% 73% 74% 69% (Not Quoted) N/A Efficiency 1~230 V **300 mm / 350 mm / 400 mm / 480mm** 300mm / 350mm / 400mm 300mm / 350mm / 400mm 400mm / 500mm / 600mm 300mm / 400mm 250 / 380 / 500 / 630mm Bar Length (12" / 14" / 16" / 19") [12" / 14" / 16"] [12" / 14" / 16"] [16" / 20" / 25"] [12" / 16"] [10" / 15" / 20" / 25"] 3/8" - 8T (ICS Force3) or 3/8" - 8T (ICS Force3) or Sprocket / Chain Pitch 3/8" - 9T or F4 (0.444") 3/8" - 9T or 0.444" - 7T F4 (0.444") (ICS ProForce) F4 (0.444") (ICS ProForce) F4 (0.444") (ICS ProForce) F4 (0.444") (ICS ProForce) No Load Speed 9 960 min⁻¹ 5 500 min⁻¹ 8800 min⁻¹ 2800 min⁻¹ 6500 min⁻¹ (Not Quoted) 24 m/s (3/8") - 26 m/s 22.33 m/s (3/8") - 25.7 m/s (0.444") 21 m/s (3/8") - 24 m/s (0.444" 20 m/s **Linear Speed** (Not Quoted) (Not Quoted) [0.444"]**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) 8.85 kg 9.8 kg 9.1 ka $7.5 \text{ kg} + 5.2 \text{ kg} = (12.7 \text{ kg}) \quad 12.0 \text{ kg}$ 14.0 ka **IP Class IP 55** IP 54 IP 64 IP 54 IP 55 IP 67 Waterproof Hall-Effect Switch Yes no no no no no **Bumper Spike** Nο Yes (ICS Wall Walker) Yes Yes No Yes Νo Splash Guard Nο Yes Nο Nο No (Tool-Free Sprocket Led Indicator No No Yes No Yes Cover) **Tool-Free Chain Adjustment** Yes Nο Yes Yes Yes **Slurry Collector** Yes Nο Nο No No No Flush Cutting Yes (+4.0 mm) 🚣 Yes [+?] Νo Yes [+ ?] Yes [+ ?] Yes (+ 4.0 mm) 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 Conclusion 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



















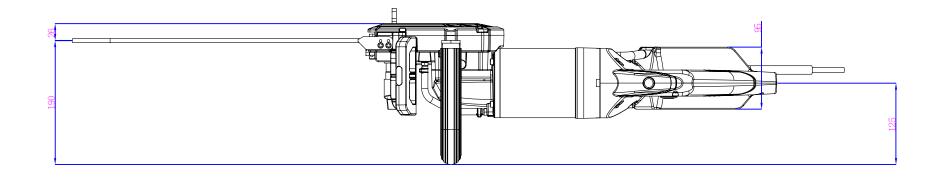


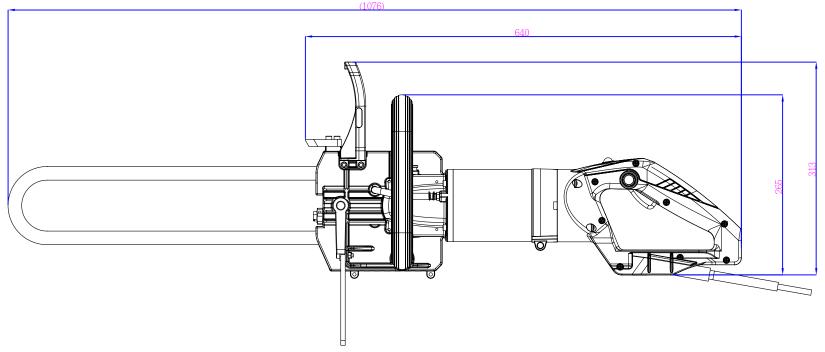




Model	P8K	FU6 U	PP65	PB RX/SX 12	SPIDER POWER PACK	Pentpack 427		
Power 3Ø 380 V-480 V	16 A (8000 W) (max)	13.5 A (6500 W)	12 A (6500 W)	15 A (12000 W)	16 A (11000 W)	16 / 32 A (18000 W) (31 kW max)		
Power 3Ø 220 V-240 V	32 A (7000 W) (max)	N/A	At Decreased Power (not quoted)	N/A	N/A	N/A		
Power 1Ø 220 V-240 V	32 A (7000 W) (max)	16 A (3700 W)	16 A (3500 W)	16 A (4000 W)	16 A (3000 W)	N/A		
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	7.1 kg (15.6 lb)	Not Listed	9.5 kg (20.9 lb)	16.5 kg (36.4 lb)	11 kg	26 kg		
Dimensions (LxWxH)	460 x 220 x 260 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 AGP P8K converter is the only one in this group which is designed to run at 32A on single phase, so it can give much higher output on single phase supply in situations where 3 phase supply is not available.							

Tool Dimensions





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