

AVERICH

AUTO CENTERING CYLINDER HEAD VALVE SEAT AND VALVE GUIDE MACHINE

Model SG60 Features

Fitted with the tooling that decreases the cutting force by 30%, this machine will cut the hardest seats.

Machine bed structure optimized by static and dynamic calculation, with a functional design

Machining capacity from 0.551" / 14mm to 2.36" / 60mm

Fully integrated spindle motor: infinitely variable spindle speed. 0 to 1,000 rpm with sensor less Vector Flux Control in open loop (Extremely broad torque ratings from lowest rpm)

Rigid, low- inertial workhead, Easy to use due to an automatic reset system

Air-floated table fixture with 400mm lengthwise and 40mm crosswise travel

PRECISION*SPEED***VERSATILITY**

SG60 is a high precision machine featuring the latest technology incorporating air-float automatic centering and motorspindle.

Air-floated table fixture can make the movement of workpiece more flexible.

Especially developed for the repair of small motorcycle and automotive multi-valve cylinder head.



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Standard Equipment

- U Parallel
- Universal Quick Clamping
- Neon Light on Base of Machine
- Vacuum Checker with Set of 7 Pads
- Tool Setting Gauge
- Tool Holder 5100
- Tip Holder 2000
- Tip Holder 2001
- Tip Holder 2002
- 10 Carbide Pilot Dia (5.5mm – 7.99mm)
- 10 Form Carbide Tip
- 2 Counter Boring Carbide Tip
- Set of Allen Key
- T-8 Torx Screw Driver
- Instruction Manual

Suggested Optional Equipment

- Tipholder 1999
- Tip Sharpener with Diamond Wheel
- Micrometer for Counter Boring



Air-floated workpiece table

TECHNICAL SPECIFICATIONS:

Machine Capabilities

Max length of the cylinder head	mm / inch	Unlimited
Max width of the cylinder head	mm / inch	500 / 19.7
Max height of the cylinder head	mm / inch	450 / 17.7
Crosswise work piece tilting	mm / inch	-15° - +4°
Machining capacity dia. (min-max)	mm / inch	16-60/0.6-2.36

Work Head Displacement

Lengthwise	mm / inch	930 / 36.6
Crosswise	mm / inch	40 / 1.6
Sphere-Cylinder Travel	mm / inch	9 / 0.4

Spindle

Max. spindle inclination	degrees	5
Spindle Travel	mm / inch	200 / 8
Power of the Spindle	KW	1.5
Spindle Rotation Speed	rpm	60 - 1200

Alimentations

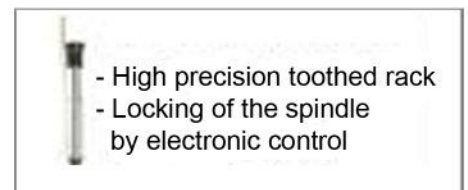
Electric Supply	230V/50 - 60Hz 4Ph	
Air Pressure	bar / psi	6 / 87
Net Weight (approx)	kg / lbs	1050 / 2310

Machine Space Requirements

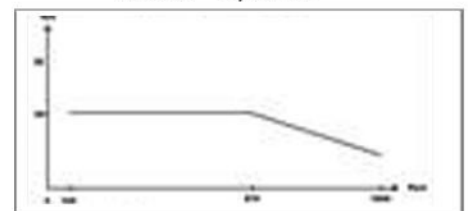
Length	mm / inch	1440 / 56.7
Width	mm / inch	1050 / 41.3
Height	mm / inch	2170 / 85.4



Air-floated table fixture



Motor - Spindle



Spindle motor torque curve