Automatic Honing Machine

H1000 series



H 1000-A
PLC-Controlled Economy Solution



H 1000-CNC
Industrial CNC Control

The Benefits of Precision

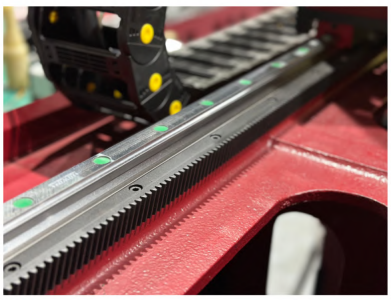


All models equipped latest automation feature match different requirements from the market but follow AMC-SCHOU decades' experience of machinery manufacturing and precision and life lasting design spirit.

Casting iron machine base: continue AMC-SCHOU machines strong, stable, life lasting feature, compact floor space.

H1000A features easy operating cross joystick for hone head left-right and up-down moving to find the correct position by your fingers, hit the start button to hone after simple setting up few specifications of the workpiece in few seconds time. The 15" Siemens touch screen shows the bore shape instantly and allow manual/auto sizing, dwell functions etc. It makes high precision honing job simple as playing a cell phone.
Honing and dripping afterwards.







High precision ball screws for up-down and rack&pinion for left-right moving terminate noise and only the invoice of stone cutting can be heard.

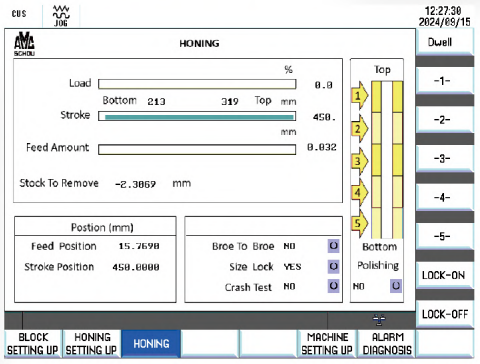
200L draw coolant tank Underneath the working table, offer compact working floor, clean area and easy for maintenance. Filter system makes coolant clean from dust with pressure sensor tells operator clean or replace

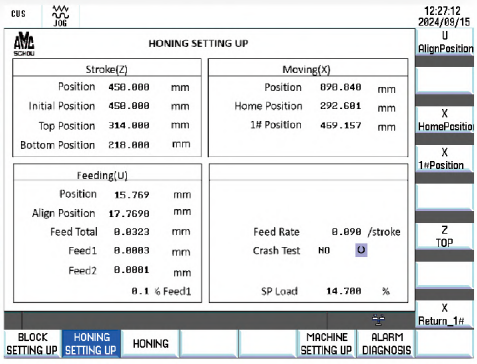


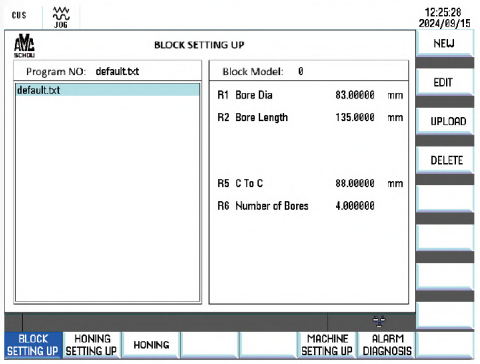


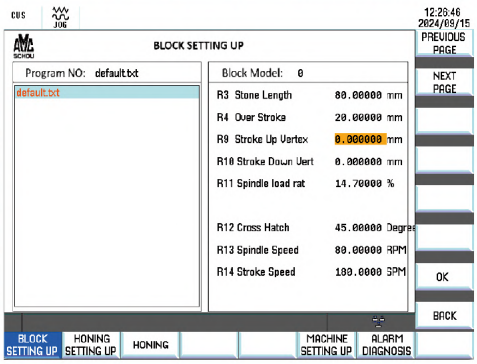
AMC-SCHOU featured light honing oil keeps the best balance of precision, efficiency,surface finish, stone life and oil consumption.

H1000CNC is prepared for more industrial applications as production honing procedure, equipped with SIEMENS 828D industrial standard CNC system, besides AMC-SCHOU easy-to-use honing program, it allows operator set up professional parameters, realize automatic bore to bore, servo fixture, dual stages honing etc. functions. The 828D is proved worldwide safe, stable with Siemens global service networks.





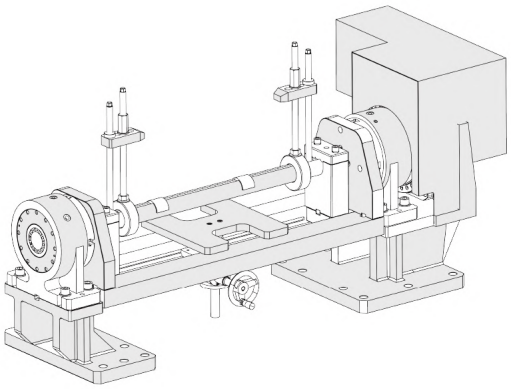




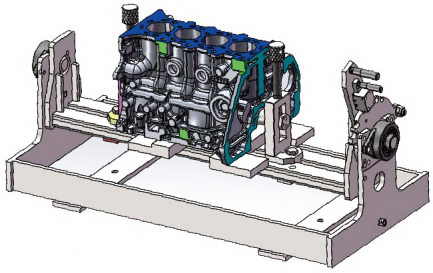


Siemens PLC or CNC electricity is used for A or CNC model, same as AMC-SCHOU's choice in decades, free of breakdown, bugs happened in the system, benefit of instant service support from global networks.

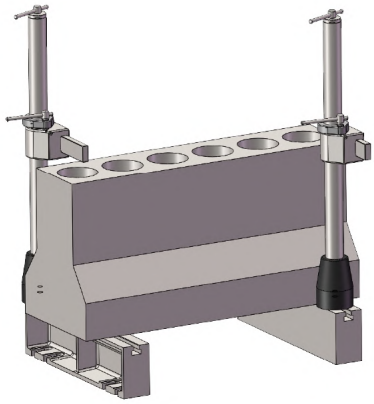
Fixtures can be chosen for inline or V block, cylinder liners, industrial applications with manual or servo driven automatically under program control.



Servo driven
automatic rollover fixture

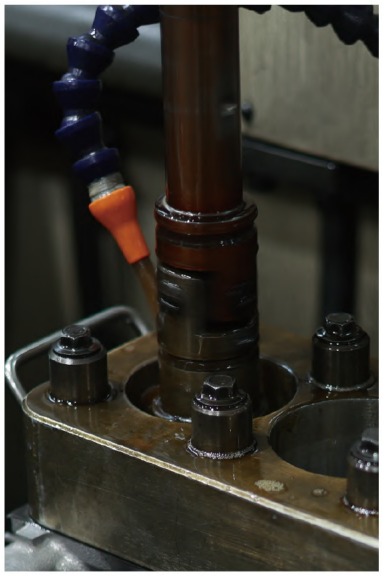


Setting-up fixture for V-engine
incl. 3 bars, 2 quick acting clamps



Set of quick acting clamps
set of setting-up blocks 100 mm
set of setting-up blocks 200 mm

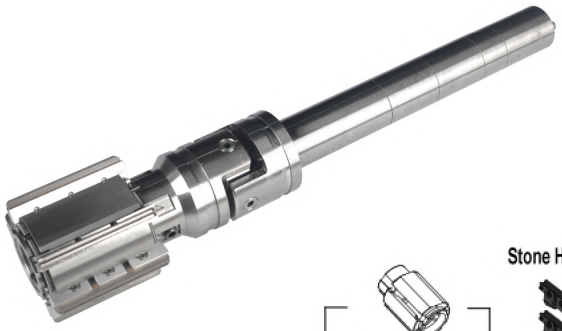




AH hone head standard with variable grits and hardness of 4pcs per set diamond stones and plateau brush could made any kind of surface for engine bore or industrial workpiece. Multi stone up to 12 pcs with dual stages hone head is possible due to customers' demanding for production honing job.

Optional adapters are available for exchanging to honing tools made by other manufacturers, make H1000 Serious friendly for customers use their stock honing tools.

AH2.0 Series HONING TOOLS





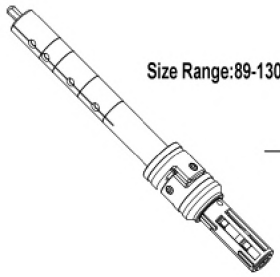
Size Range:68.87-95.44 mm

AH 53081110
(4 Stones Sleeve)

AH 53081100
(6 Stones Sleeve)

Stone Holder

AH 53082010(68.87-82.44 mm)
AH 53082020 (75.37-88.94 mm)
AH 53082030 (81.87-95.44 mm)



Size Range:89-130.57 mm

AH 53081111
(4 Stones Sleeve)

AH 53081101
(6 Stones Sleeve)

Stone Holder

AH 53082040 (89-102.57 mm)
AH 53082050 (96-109.57 mm)
AH 53082060 (103-116.57 mm)
AH 53082070(110-123.57 mm)
AH 53082080 (117-130.57 mm)

Mandrel-4 stones (Range:68.87-193.57 mm)
AH 53080002

Mandrel-6 stones (Range:68.87-193.57 mm)
AH 53080001

Size Range:124-193.57 mm

A

AH 53081112
(4 Stones Sleeve)

AH 53081102
(6 Stones Sleeve)

Stone Holder

AH 53082090 (124-137.57 mm)
AH 53082100 (131-144.57 mm)
AH 53082110(138-151.57 mm)
AH 53082120 (145-158.57 mm)
AH 53082130 (152-165.57 mm)
AH 53082140 (159-172.57 mm)
AH 53082150 (166-179.57 mm)
AH 53082160 (173-186.57 mm)
AH 53082170(180-193.57 mm)

B

C

How to order:

A + B + C

+Honing stone

*Stone holder and
Honing brush is a set
of 4 pcs
*Brush:320grits

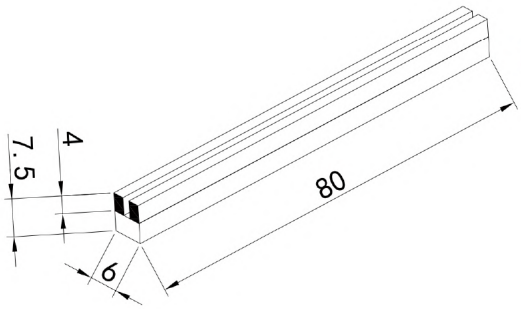
Honing Tool Configuration

Job Shop Applications
- 4-stone configuration
- Economical solution
- Easy changeover between different workpiece series

Mass Production Applications
- 6-stone configuration
- Higher efficiency and productivity
- Recommended for continuous production

Honing Stone Selection Guide

Grit	1	2	3	4	5	6	7	8	9	0	80	90	10	00
	70	80	100	150	220	280	320	400	500	600	800	900	1000	1200



Hardness	1	3	5	7	9	11	13	15

DM-Diamond is Recommended for cast iron honing
NM-CBN is Recommended for steel honing

***For example DM55 Diamond stone Grit 220 middle hardness**
***Honing stone a set of 4pcs**

AMC-SCHOU HONING MACHINES - H1000 SERIES
CURRENT STANDARD MODELS

TECHNICAL SPECIFICATIONS			H 1000-A	H 1000-CNC
Diameter Range		mm	45 – 300	
Horizontal Travel (X Axis)		mm	1,200	
Spindle	Speed	rpm	1 – 500	
	Motor Power	kW	2.5	
	Motor Torque	Nm	11.9	
Torque at Hone Head		Nm	70	
Stoke	Speed	m/mim	0 – 30	
	Length	mm	500	
	Acceleration	m/s²	8	
	Motor Power	kW	2.0	
	Motor Torque	Nm	9.55	
Electrical Supply		-	400V/50Hz/3Ph	
Control System Model		-	PLC	828D
Screen Size		inch	16	15.6
Coolant Capacity		L	160	
Coolant Pump Motor Power		kW	0.12	
Machine Dimensions (L×W×H)		mm	2,200×1,650×2,550	
Weight		kg	1,950	
Standard Color		-	Red and Gray	

*Standard machine comes with a semi-enclosure, our full enclosure is available upon request.

Specifications, descriptions, dimensions and illustrations are subject to change without prior notice.

The Benefits of Precision

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