

Standard accessories

Grinding wheel adaptor
Foundation plate or Anchor bolt
Filling nozzle for 100 mm wide grinding wheel
Lifting bolt for grinding wheel adaptor
Hydraulic upper dresser (with automatic dress correction function)
Dresser stand with diamond tool
Spindle speed controller 22 kW
Automatic oil temperature regulator
iQ-Software

Optional accessories

Item	Specifications	Model		
		208	258	358
Coolant system 600 L	With magnetic dust separator	○		
	Magnetic dust separator with temperature regulator	○		
	Magnetic dust separator with auto. paper filter	○		
	Magnetic dust separator with auto. paper filter and temperature regulator	○		
Oil mist dust collector	· Dust collector motor: 1,5 kW/2P · Air flow: 19/23 (50/60 Hz) m³/min · Dust collection port: ø 150 mm	○		
Permanent electro-magnetic chuck	2000x800x100 mm	○	-	-
	2500x800x100 mm	-	○	-
	3500x800x100 mm	-	-	○
Demagnetizing controller	With automatic 20-A electro-magnetic adjustment · Chuck „rated current“ applicable range Max: 16 A	○		
Large wheel option for grinding wheels with ø 610 mm	· Applicable grinding wheel: ø610x100xø127 mm	○		
Grinding wheel external diameter ø 510 mm	100 mm · ø510x100xø127 mm (both concave)	○		
Grinding wheel external diameter ø 610 mm	· ø610x100xø127 mm	○		
Grinding wheel adaptor	For standard · ø510x100xø127 mm	○		
Table T groove grinding	Number of grooves: 3 · Size of T groove and pitch: Okamoto's standard	○		
High column specification	200 mm	○		
Hydraulic oil	· Required amount: 300 L	○		
Cycle end power shut off	For 22 kW spindle motor · Power shut-off at cycle end	○		
Grinding head meter relay		○		
Calendar timer	· A weekly timer turns the hydraulics „ON“ at a set time	○		
Three-stage signal tower	Red, Yellow, Green Signal meaning · Yellow: Lights at the end of a cycle · Green: Lights during a cycle.	○		
Working light (LED)	· Mounted on the underside of the cross rail	○		
iQ-Software	Forming dressing software (with 3 point dresser)	○		
	G code program	○		
	Automatic programming UP CAM	○		

Specifications

Item		Unit	208CH-iQ	258CH-iQ	358CH-iQ	
Capacity	Table working size (Length×Width×Height)	mm	2000x800x600	2500x800x600	3500x800x600	
	Max. pass width	mm	1050			
	Table working cap (Length×Width)	mm	2050x850	2550x850	3550x850	
	Maximum weight of table (Including chuck)	kg	3200 (1390)	3900 (1690)	5500 (2180)	
	Chuck size (Length×Width)	mm	2000x800	2500x800	3500x800	
Longitudinal feed	Max. travel feed	mm	2250	2750	3750	
	Longitudinal feed rate	m/min	2~30			
Cross feed	Max. travel feed	mm	910			
	Minimum increment	mm	0.0001			
	Max. rapid feed	mm/m	6000			
	Automatic feed	Continuous feed rate	mm/min	0~1000		
		Hand feed per revolution	mm	0.01/0.1/1.0		
Manual feed	Graduation of hand wheel	mm/m	0.0001/0.001/0.01			
	Max. travel feed	mm	620			
Vertical feed	Minimum increment	mm	0.0001			
	Max. rapid feed	mm/m	2000			
	Automatic feed	Rough grinding	mm	0.0001~0.9999		
		Fine grinding				
	Manual feed	Hand feed per revolution	mm	0.01/0.1/1.0		
Graduation of hand wheel		mm/m	0.0001/0.001/ 0.01			
Grinding wheel	Size (OD×W×ID)	mm	ø510x100x ø127 (Option: 610x50x127)			
	Spindle speed	mm ⁻¹	400~1600			
	Motor	kW/P	22/4			
Oil pressure unit	Capacity	L	300			
Machine space	Length×Width×Height	mm	6570x3850x3550	7750x3850x3550	10200x3850x3550	
Machine weight	Standard	kg	15500	17000	20000	

DOUBLE COLUMN GRINDING MACHINE

ACC-CHiQ SERIES



OKAMOTO MACHINE TOOL WORKS, LTD.

3-5-7 Nakamachidai, Tsuzuki-ku, Yokohama, Kanagawa, 224-0041 Japan
 TEL: +81-45-949-3881 FAX: +81-45-949-3787
www.okamoto.co.jp

OKAMOTO MACHINE TOOL EUROPE GMBH

Paul-Ehrlich-Str. 9, D-63225 Langen, Federal Republic of Germany
 TEL: +49-6103-201100 FAX: +49-6103-2011020
www.okamoto-europe.de

⚠ CAUTION

* When and before using our products, you are requested to well go through the articles on danger, warning and attention for the sake of safety described in operation manual attached to the machine and also in the warning plates mounted on the machine.

* Specifications subject to change without notice.

* When a product manufactured at our factory comes under the Foreign Exchange And Foreign Trade Control Law and is exported or carried overseas, it is necessary to receive permission or approval of the Japanese Government.

Okamoto

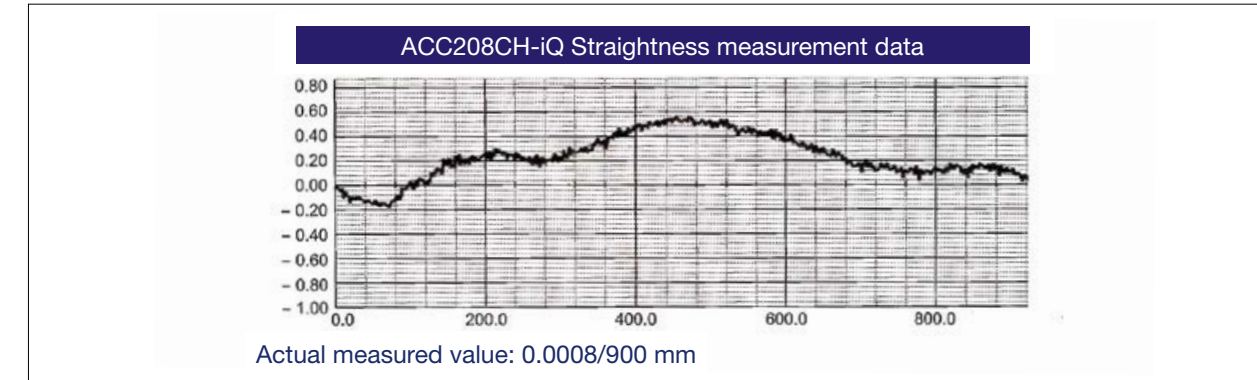
ACC-CHiQ Series

This double-column grinding machine satisfies demands for high accuracy and high efficiency.

The ACC-CH iQ Series satisfies the demands for high accuracy required for machining the progressive dies used for motor cores or LC processing, while also offering the high efficiency needed by the die base processing industry.

Highly accurate process

The accuracy of a double-column grinding machine depends on the crossrail. We have developed a crossrail mechanism that enables mechanical adjustments without NC correction. Extremely high degrees of flatness can be obtained along the entire width of the working surface. Accuracy can be adjusted with the cross rail attached after installation.



Highly efficient process

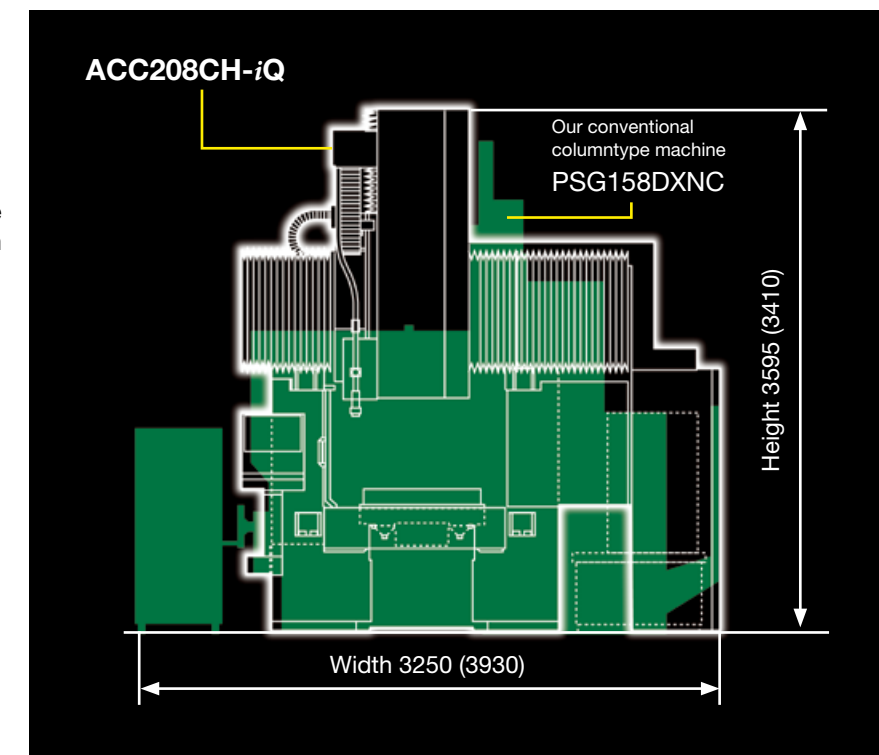
- 1 Pass width with extra space enables the processing of cross lengths of up to 1000 mm.
- 2 The 22 kW spindle motor offers the maximum horsepower in this class, with approximately 3 times the power of our conventional column-type machines.
- 3 Dressing time has been shortened by combining upper dressing (option: dress correction function provided as standard) for rough dressing with tabletop dressing for finishing. Also, the shift-plunge grinding cycle contributes to reducing the processing time.



ACC208CH-iQ

Space-saving design minimizes footprint

This double-column grinding machine requires no more installation space than our CNC column-type machine.



iQ software facilitates the processing of large workpieces with the double-column grinding machine.

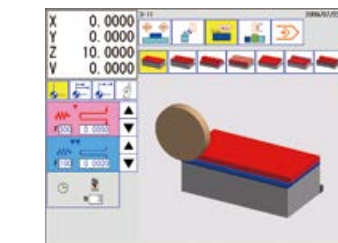
The innovative iQ software radically simplifies data input. Cycle time has been dramatically shortened.

iQ data is automatically generated by inputting the grinding wheel's grain size.

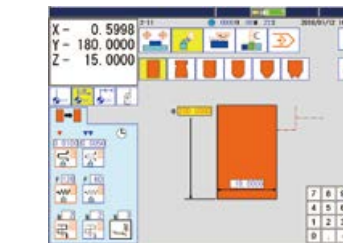
Input the total machining allowance and precision machining allowance. Then, simply input the grinding wheel size to automatically create the optimum grinding wheel conditions based on our know-how and grinding process theory.

Data input can be completed using only two screens.

There is no text on the screen. The panel buttons cover the full range of surface grinding and complicated grinding operations.



Grinding data setting screen



Dress data setting screen



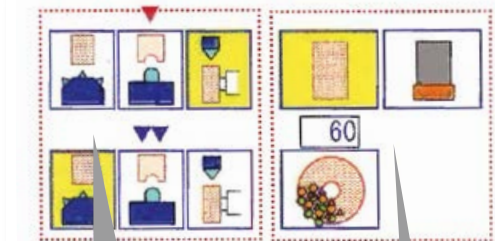
Diversified iQ-Functions

- **Keys to shortening cycle time (Fine- and rough-dressing selection)**
Optimum combination of upper dress for rough dressing and table top dress for finishing. An automatic diamond tracking device is provided with the upper dresser with dress cycle function (optional). By using shift plunge grinding, the cycle time can be effectively shortened.

- **Automatic setting of process conditions**
Grinding processes used to rely on the user's skill and intuition. To automate this processing, we developed a function for automatically setting the recommended process conditions based on grinding process theory and our know-how. The basic data on which this automatic setting is based is the grain size of the grinding wheel. This software supports the use of both Alundum-type grinding wheels and ultra-abrasive-coating grinding wheels. Users can also input their own condition settings.

- **iQ graphical display of actual grinding position**
The position at which grinding is to be performed is displayed on the screen.

- **iQ cycle type projection**
The cycle end time is displayed, thus saving setup time.



Fine and rough dress setting
Supports an optimal combination of upper dress for rough dressing and on-the-table dress for fine dressing.

Automatic setting of process conditions
Select either a general grinding wheel or ultra abrasive coating grinding wheel, and then enter the grain size in the column below. The optimal grinding/dressing conditions are automatically set based on the grain size.