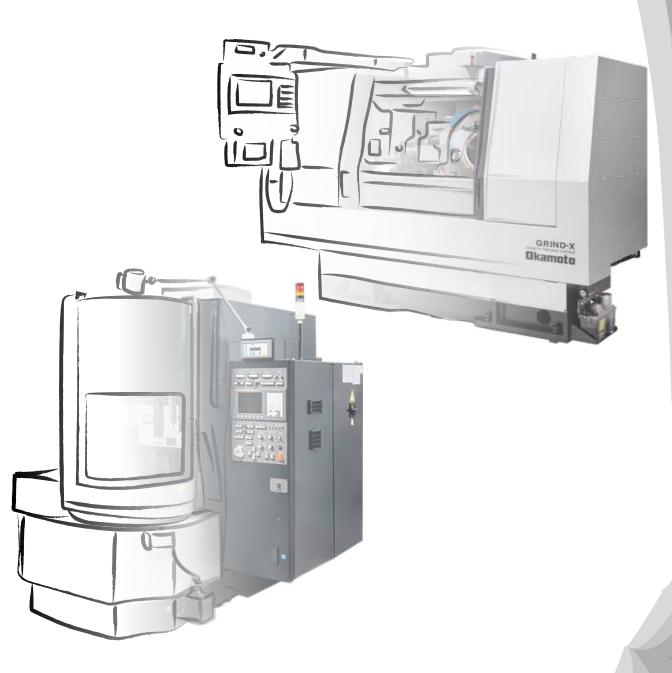
GRIND - X

OKAMOTO PRECISION SYSTEMS

Okamoto

GRINDING SOLUTIONS



PERFECTION

IN FORM & TECHNOLOGY

WORLD OF OKAMOTO











The Company

World leading.

Our grinding machines guarantee safety through the highest precision.

Okamoto Machine Tool Works Ltd. Japan has been the world's leading manufacturer of high-quality grinding machines and related equipment since 1926. OKAMOTO MACHINE TOOL EUROPE GMBH headquartered in Langen near Frankfurt am Main has been serving the European market since 1992 as its main office. The continued growth of the company has given rise to a network of subsidiaries and sales organizations in over 70 countries. Major production facilities are in Japan, Singapore and Thailand.

The intensive cooperation of Okamoto Machine Tool Works Ltd. Japan and Okamoto Machine Tool Europe GmbH in Langen is a guarantor for the development and production of innovative grinding machines with highest precision. In our work, we strive to respond positively to the developments in the market and use investments for future growth for the overall success of our company.

Okamoto Machine Tool Works Ltd. Japan, as well as Okamoto Machine Tool Europe GmbH is a customer-oriented, internationally operating company - a modern service provider with high service quality. Our full service strategy focuses on the customer with his needs. The aim is to provide our customers with innovative products with the highest precision, reliability, quality and handling. In our modern demonstration and application center at Okamoto Machine Tool Europe GmbH in Langen, we present an interesting cross section of our product range.

We rely on a long-term, reliable, successful, trusting and partnership-based cooperation with our customers and partners.

Okamoto
Machine Tool Europe GmbH
Frankfurt (Germany)



WORLD OF OKAMOTO



Proximity to customers

Always in line with customers' needs – that makes all the difference.

Efficient advice and after-sales-service.

Okamoto Machine Tool Works Ltd. Japan and Okamoto Machine Tool Europe GmbH, is a customer-oriented, internationally operating company — a modern service provider with high service quality. Our full service strategy focuses on the customer and their needs. Our aim is to provide our customers with top quality innovative products that offer the highest precision, a high degree of reliability, and easy operation. In our modern demonstration and application centre at Okamoto Machine Tool Europe GmbH in Langen, Germany, we are ready to demonstrate a wide selection of the products in our delivery programme.

We put great emphasis on a long-term, reliable, successful, trusting and fair cooperation with our customers and partners.

What you can expect from us in detail:

- User-specific advice from professionals
- Improving the profitability of your production
- Efficient solutions that lead to competitive advantages





THE COMPAN









Internationality

Worldwide security and competence.

Our grinding machines set international standards.

Based in the centre of Europe, Okamoto Machine Tool Europe GmbH employs staff from several different European countries as well as Germany and Japan. Together with our partners and dealers in each European country, we are able to understand the cultural and application-specific characteristics of all of our customer's needs. Because you know that we speak your language, and because you know that we understand your local market, you can be sure that you will save time and money when buying an Okamoto machine. Okamoto Europe and our partners provide a noticeable competitive advantage. With us you can feel "at home".

What you can expect from us in detail:

- A single contact partner
- Excellent knowledge of the foreign market
- Cultural experience

HE COMPAI

WORLD OF OKAMOTO



Long Life through Top Quality.

Guarantees for the safety of your production.

1. Uncompromising competence

Any company that makes so many machines per year and which offers such a wide range of grinding machines, must be able to master each production step precisely. Okamoto has 4 different factories in and around Japan, and these factories share production seamlessly. All castings are made by Okamoto Thailand. Medium sized machined parts are made by Okamoto Singapore. Our largest and most sophisticated machines are made by Okamoto Japan. All Okamoto factories share the assembly of different machine ranges. The quality of Okamoto machines is overseen from casting to the end product. All Okamoto facilities follow the guidelines of DIN EN ISO 9001:2008. The perfect interaction between motivated and competent employees is not only what makes our company stand out, but also an existential component of our company philosophy.

2. Certification and additional checks

The quality management is certified according to DIN EN ISO 9001:TS 16949 and meets all international standards. Moreover, we carry out additional extensive checks in order to guarantee to our customers the utmost quality. Likewise, tool test certificates according to DIN 50049 are naturally provided by our company.

3. Documentation

We continuously document our quality control, not only in order to secure quality, but also to further optimise it. Because the same goes for us: anyone who stops getting better, has stopped being good.

What you can expect from us in detail:

- Constant overwatch by TÜV
- DIN EN ISO 9001:TS 16949
- DIN 50049
- Product manufacturing documentation





Universal Grinding Machine



UGM 5V

Precision vertical universal cylindrical grinding machine with B axis

With the introduction of this new universal series of vertical and internal grinding machines, Okamoto combines its extensive know-how in the field of internal and external grinding in an entirely new design.

- CNC universal vertical grinding machine
- Pivoting wheel head (B axis)
- Automatic Tool Changer for 4 wheels
- Roundness 0.9 µm



ADDITIONAL EQUIPMENT

- 3-jaw chuck 500mm diameter manual
- Wheel mounts / holder with clamping cone BT40
- Coolant system with paper belt filter SBF 60
- Coolant system with magnet separator and temperature controller

UGM 5V

	Description	Unit	UGM 5V
	Swing on the table	mm	Ø 550
	Grinding inner diameter	mm	Ø 75~400
Capacity	Grinding outer diameter	mm	to Ø 550
	Maximum grinding length	mm	300
	Maximum load (on table)	mm	
	Specifications of wheel used	mm	Ø 200 x 40 x 50.8
	openioadono or wheel asca	111111	Ø 50-100 x 50 x 22.5
Wheel spindle	Revolution speed	min ⁻¹	500-8000
	Maximum circumferential speed	m/sec	50
	Taper hole		BT40 two-face contact (without drive key)
	X-axis maximum travel amount	mm	1100
Wheel spindle infeed	Minimum setting unit	mm	Ø 0.0001
(X-axis)	Grinding feed rate	mm/min	0.001 - 20000
	Rapid feed rate (manual, automatic)	mm/min	20000
	Z-axis maximum travel amount	mm	450
Longitudinal wheel feed	Minimum setting unit	mm	0.0001
(Z-axis)	Grinding feed rate	mm/min	0.001 - 15000
	Rapid feed rate (manual, automatic)	mm/min	15000
Wheel head (B-axis)	B-axis maximum swivel angle	Degree	0 or 30
	Table size	mm	Ø 500
Work spindle	Revolution speed	min ⁻¹	10~150
	T slot	mm	18 x 8s lot
Undraulia unit	Discharge pressure	MPa	11.0
Hydraulic unit	Tank capacity	L	60
	For wheel spindle (AC built-in motor)	kW	11 (βil112S/15000)
	Work spindle (AC servomotor)	kW	5.5 (αiS40/4000-B)
	Wheel infeed (AC servomotor)	kW	4.5 (αiS22/4000-B)
	Longitudinal wheel feed (AC servomotor)	kW	5.5 (αiS30/4000-B)
	For driving the ATC (AC servomotor)	kW	0.5 (βiS1/6000-B-B)
	Hydraulic pump	kW	5
Motor	For driving the dresser (option)	W /P/min ⁻¹ (Hz)	60/2/2650/3200 (50/60)
	Grinding coolant injection pump (option)	kW/P	1.1/2
	Dressing coolant injection pump (option)	W/P	250/2
	Pump-up pump (option)	W/P	250/2
	Magnetic separator (option)	W/P	25/2
	Automatie liquid temperature controller (option)	W	max. 1160
	Dust collector (option)	W	750
Installation space	Width x Depth x Height	mm	2650 x 2380 X 3032
Weight		kg	9000
	Power requirement	V / Hz	200, (three-phase), 50/60 (main unit)
Power supply	Power consumption	kVA (main unit)	45
Air pressure	Pressure requirement	MPa	0.5
requirement	Flow rate requirement	L/min	160 (during air blow 420)
Noise level		dB	70-75
110100 10401			

CATHIDUCAT CHINDING

Universal Grinding Machine



UGM 360 NC

Precision cylindrical grinding machine with B-axis

Standard software with 10-step grinding program. Software for profile grinding optionally available. Entry of grinding data via touchscreen. Wheel and work spindles driven by Fanuc AC servomotors. A swing down wheel dressing device for internal grinding is included in the standard equipment.

- Double V table slideways
- T-shaped machine bed
- Temperature-stabilized spindles
- Low-maintenance B-axis motor with direct drive
- Directly powered ball screws



UGM 360 NC

				l e		
	Description	Unit	UGM 360 NC	UGM 3100 NC		
	Spindle type		High-strength combin	ed live & dead spindle		
	Centre taper	MT	!	5		
Workhead	Through bore	mm	Ø	28		
	Spindle speed	min ⁻¹	10 ~	- 500		
	Swivel angle (Option)	Degree	-90	~ 30		
	Tailstock sleeve		Taper co	ntrol type		
Tailstock	Sleeve stroke	mm	3	80		
	Taper	MT		4		
	Wheel spindle (AC motor)	kW	11.0/4 (D	irect drive)		
	Internal grinding spindle (AC motor)	kW	3	.7		
	Workhead Spindle (C-axis/AC motor)	kW	1.8 (βiS1:	2/3000HV)		
	Table feed (Z-axis/AC motor)	kW	4.5 (αiS ₀	/4000HV)		
Motors	Wheelhead infeed (X-axis / AC servo motor)	kW	3.0 (aiF12/4000HV)			
	Wheelhead swivel Motor (B-axis / AC servo motor)	kW	5.6 (Direct driv	re: DiS250/250)		
	Lubricant pump	W/P	3	/4		
	Oil temperature controller	W	28	300		
	Oil temperature controller pump	W	400/150	00W(0.P)		
	Size (Outside - Ø x B x Inside - Ø)	mm	Ø 510 x 63 (0	P80) x Ø 203.2		
Grinding wheel	Rotational speed min.	min -1	900~	-3200		
	Max. peripheral wheel speed	m/sec	6	60		
	X-axis stroke	mm	3	60		
Feed axis (X-axis)	Min. input increment	mm	0.0001			
(A-dais)	Rapid traverse	mm/min	10	000		
	Swivel angle	Degree	2 Spindle (+0~-180°)	, 3 Spindle (+0~-240°)		
Swivel Axis (B-axis)	Min. input increment	mm	0.0	001		
(D dxi3)	Rapid traverse	min -1	1	5		
	Z-axis stroke	mm	850	1250		
Table (Z-axis)	Swivel angle	Degree	0 ~8.5	0 ~6.0		
Table (Z-axis)	Min. input increment	mm	0.0	001		
	Rapid traverse	mm/min	20	000		
Power consumption		kVA	33	36		
Tonk conceits	Lubricant	L		3		
Tank capacity	Coolant	L	3	30		
	Туре		FANU	C Oi-TF		
Control	Number of controlled axes		3 (2-axis sin	nultaneously)		
	Coordinates		Polar, Li	near, Arc		
Work height	High floor - Centre workpiece	mm	1135			
Space requirement	Width x Depth x Height	mm	2780 x 2750 x 1900 3650 x 2750 x			
Total weight net		kg	7000	7900		

CATHOLICAT CHIME

Cylindrical Grinding Machine



OGM NCIII / UNCIII

Precision cylindrical grinding machine

Standard software with 10-step grinding program. Software for profile grinding optionally available. Entry of grinding data via touchscreen. Wheel and work spindles driven by Fanuc AC servomotors. Shoulder locator and gap eliminator are included in the standard equipment.

- External / universal cylindrical grinding machine
- FANUC touchscreen control featuring easy to use software

Self centring 3-jaw chuck with adaptor Ø 200 mm Paper filter coolant system

Work light LED

 Sizes from 500 mm to 1500 mm between centres



OGM NCIII / UNCIII

	Centre taper Through hole diameter		Series	s 200			Serie	s 300				
	Description	1	Unit	external	universal		external			universal		
				250	250	350	390	3150	350	390	3150	
	Work swing o	ver table	mm	22	20	3			20		-	
	Distance betv	veen centers	mm	50	00	500	900	1500	500	900	1500	
Capacity	Max. grinding	diameter	mm	20	00			30	00			
Сараспу	Workhood	Center	kg	5	0		150					
			kg	2	0			4	0			
Grinding wheel	Size (OD x W	x ID)	mm	Ø 355 x 50 x Ø 127	Ø 305 x 50 x Ø 127	Ø 4	155 x 75 x Ø 1	127	Ø	405 x 75 x Ø 1	27	
drillallig Wilcol	Max. peripher	al speed	m/sec			45 (in	verter standa	rd)				
	X axis travel o	listance	mm	21	15		300					
Wheelhead	Swivel angle		degree	fixed	±30		fixed			±30		
Wilcomedu	Least travel ir	ncrement	mm				0.0001					
	Rapid feed ra	te	mm/min				4000					
	Z axis travel d	distance	mm	76	62	870	1270	1870	870	1270	1870	
Table	Swivel angle		degree	0 ~	-9	0 ~ -10	0 ~ -8.5	0 ~ -5	0 ~ -10	0 ~ -8.5	0 ~ -5	
lubio	Least travel ir	ncrement	mm				0.0001					
	Rapid feed ra	te	m/min	80	00	10000						
	Spindle type				Rigid	ligidity spindle for dead and live combined use						
	Centre taper		MT	3	3			4	1			
Work head	Through hole	diameter	mm	Ø-	18			Ø	Ø 20			
	Spindle speed	i	min -1				10 ~ 500					
	Swivel angle		degree	30 ~	-90		Fixed			30 ~ -90		
	Tailstock spin					Manual tape	er fine adjustn			,		
Tailstock	Spindle stroke	В	mm	2				3				
	Center taper		MT	3					1			
	Grinding whe	•	kW/P	5.	5			7.	5			
	Workhead spi	ndle	kW				AC servomoto					
Motors	Table feed		kW				AC servomoto					
	Grinding whe		kW			1.2 (AC servomoto	r)				
	Lubricating po	-	W/P			1	3					
Requ		cal power consumption	kVA									
	Height floor - Centre workpiece mm 980				1000							
		Total weight net	kg	33		4600	5000	6000	4600	5200	6000	
Space	Width		mm	29		3400	4200	5400	3400	4200	5400	
requirement	Depth		mm	20				23				
	Height		mm	19	50			19	50			

C.K.INDECAL CENTON

Internal Grinding Machine



IGM 15 NCIII / NCIII-2

Internal grinding machine with single or twin spindles

Standard software with 10-step grinding program Software for plain bore, taper and contour grinding with 2-axis control. Entry of grinding data via touchscreen with easy to use software. Wheel and workhead spindles are driven by AC servomotors. High precision is further optimized via thermally stabilized infeed ball screw.

- Internal cylindrical grinding machine for bore lengths up to 150 mm
- FANUC touchscreen with easy to use software input

 Single spindle or Twin spindle model with high frequence motor-driven spindles



IGM 15 NCIII / NCIII-2

	Description	Unit	IGM15NCIII	IGM15NCIII-2	
	Swing on the table	mm	Ø 6	00	
Conneity	Swing under the chuck cover	mm	Ø 2	60	
Capacity	Maximum grinding inner diameter	mm	Ø 6 to 150	Ø 6 to 100	
	Maximum grinding length	mm	12	5	
	X-axis maximum travel amount (infeed)	mm	170	300	
Wheel spindle infeed	Minimum setting unit	mm	Ø 0.0001		
(X-axis)	Grinding feed rate	mm/min	0.001 - 10 000		
	Rapid feed rate (manual, automatic)	mm/min	10 000		
	Z-axis maximum travel amount	mm	50	0	
Table longitudinal feed	Minimum setting unit	mm	0.00	001	
(Z-axis)	Grinding feed rate	mm/min	0.001 to	15 000	
	Rapid feed rate (manual, automatic)	mm/min	15 000		
	Work spindle top outer diamenter	mm	Ø 14	0 g7	
Work head	Work spindle tapered hole		Morse tap	per No. 6	
	Through-hole diameter	mm	0.5	50	
	Revolution speed	min ⁻¹	100 to 850		
	Swifel angel		-5° to	15°	
	Wheel spindle (AC spindle motor)		Bil3/10 000	2.2 - 5.5 kW/2P	
	Work spindle (AC servomotor)		B12/3	000iS	
	Wheel head feed (AC servomotor)		α C8/2	2000i	
	Table feed (AC servomotor)		α C8/2	2000i	
Motors	Coolant injection pump (option)		180V	V/2P	
	Pump-up pump (option)		180V	V/2P	
	Automatic liquid temperature controller (option)		1740W (5	50Hz)/2P	
	Dust collector (option)		400)W	
Power supply	Power requirement		200V, thre 50/60 Hz (
,	Power consumption		8 kVA (main unit)	12 kVA (main unit)	
Chase remuirement	Width	mm	252	25	
Space requirement	Depth x Height	mm	3092 x	1786	
Total weight net		kg	260	00	

ADDITIONAL EQUIPMENT

- 3-jaw chuck
- Selection of internal spindles with quill
- Coolant system with paper belt filter
- Coolant system with magnetic separator and temperature controller

Cylindrical Grinding Machine



OGM 250 UDXB

Universal cylindrical grinding machine

A Universal cylindrical grinding machine having a diameter capacity of 200 mm and with 500 mm between centres, the OGM 250 UDXB is ideally suited for toolroom small batch production. It is delivered with a comprehensive level of standard equipment to suit toolroom production and allows quick and easy setup. The stable design of the spindle head together with double-V table slideways provides for a robust machine with long-term precision. The intuitive operation of the controls simplifies usage and increases productivity considerably.

- Proven PLC type Okamoto DX control
- With internal grinding unit in the standard equipment

Manual type 2- and 3-point steady rests

 AC motor ball screw table drive mounted on a T-shaped cast iron machine bed



OGM 250 UDXB

	Description	Unit	OGM-250UDXB
	Max. swing diameter	mm	220
Canacity	Max. distance between centres	mm	500
Capacity	Max. grinding diameter	mm	200
	Max. workpiece weight (between centres)	mm mm	60
	Diameter x Width x bore	mm	Ø 305 x 25 x 127
Grinding wheel	Rotational speed	rpm	2087/2357
	Max. peripheral grinding speed	mm mm mm kg mm kg mm Ø 31 rpm grm grm m/sec mm mm mm/min mm	33
	Infeed stroke	mm	203
	Swivel range		+/- 30°
Grinding	Smallest input increment	mm	0,001
spindle head	Feed speed	mm/min	1000
	Electronic hand wheel	mm	0.001 / 0.01
	Spark out		
	Stroke	mm	640
	Swivel range	mm	+4° / -9°
Table axis	Smallest input increment	mm	0,001
	Max. table speed	mm 200 sen centres) kg 60 mm 0 305 x 25 x rpm 2087/238 d m/sec 33 mm 203 +/- 30° mm 0,001 mm/min 1000 mm 0,001 mm 640 mm 640 mm 640 mm 1,44° / -9 mm 0,001 mm/min. 50 - 400 mm 7.5 M.T. No. 3 mm 14 rpm (3 steps) 150/250/4 1-30° / -9 mm 20 M.T. No. 3 kW 1.5 kW 0.4 kW (AC servomotor) 0.4 kW (AC servomotor) 0.4 kW (AC servomotor) 0.4 kW 0.75 kVA 7 mm 2880 x 1851	50 - 4000
	Feed per hand wheel rotation	ween centres) kg mm rpm rpm eed m/sec mm mm mm/min mm sec. strokes mm mm mm mm mm mm mm mm mm	7.5
	Work Spindle Taper	M.T.	No. 3
Workhead	Spindle through bore	mm +4 mm 50 mm/min. 50 mm M.T. mm rpm (3 steps) 150	14
Workneau	Rotational speed	rpm (3 steps)	150/250/400
	Swivel range		+30° / -90°
Tailstock	Sleeve travel	mm	20
Ialistock	Taper	M.T.	No. 3
	Wheel spindle	kW	1.5
	Workhead	kW	0.4
	Table drive	kW (AC servomotor)	0.4
Motors	Workhead	kW (AC servomotor)	0.4
	Internal grinding unit	kW	0.75
	Power supply	kVA	7
Dimonstruc	LxWxH	mm	2880 x 1851 x 1640
Dimensions	Total weight net	kg	1900

CATHOLICAT CEMPULA

Profile Grinding Machine



UPZ 210 Lill / Lill-2

Ultra Precision surface and profile grinding machine

Weighing in at 5700 kg, the design of this machine offers an excellent low-vibration base for ultra-precision grinding of surfaces and profiles. High-precision linear slideways (optionally with hydrostatic slideways) paired with linear motors in all axes offer ultra high speed and precision. The linear motor table drive acheives an oscillation rate of up to 250 double strokes per minute. Two independently working grinding heads enable roughing and finishing operations to be carried out concurrently.

In combination with a CCD camera option, this machine is capable of completely automatic cycle including re-grinding with compensation and final partt measurement without having to remove the part from the machine, thereby guarantee the very highest precision.

- CNC Fast Reciprocation Profile Grinding Machine
- with linear motor drive
- carbide grinding with 520 oscillation strokes per minute

 Roughing and finish grinding, measuring, compensating independently one after the other



UPZ 210 Lill / Lill-2

	Description	Unit	UPZ 210 Lill	UPZ 210 Lill-2
	Table clamping surface	mm	200 x 110	200 x 105
	Table path (L x W)	mm	270 x 120	500 x 120
Work area	Max. distance wheel to table	mm	235 (Ø 80 mm)	225 (Ø 80 mm)
	Max. load incl. chuck	kg	5	5
	Magnetic Chuck Size (L x W x H)	mm	175 x 105 x 49	175 x 105 x 49
Table	Speed	mm/min	0,1 - 60	0,1 - 60
	Rapid traverse	mm/min	1000	1000
Cross movement	Speed	mm/min	1 - 1	1000
	Smallest input increment	mm	0.0001	0.0001
	Rapid traverse	mm/min	1000	1000
Vertical movement	Speed	mm/min	1 - 1	1000
	Smallest input increment	mm	0.0001	0.0001
	Wheel spindle motor	mm/min 1 - 100	1,5	
	Table oscillation (linear motor)	kW	2,0 x 2	2,0 x 2
	Cross movement	kW	2,0 (linear motor)	2,0 (linear motor)
Motors	Vertical movement	kW	2,0	2,0
	Coolant pump (optional)	kW	0,06	0,06
	Coolant temperature control	kW	1,6	1,6
	Oil temperature control	kW	1,6	1,6
Power consumption (incl. chuck and coolant system)		kVA	21	31
Choos requirement	Dimensions (L x W x H)	mm	1750 x 1850 x 1880	1883 x 2694 x 1907
Space requirement	Total weight net	kg	6000	4600



UPZ 52 Li

Ultra Precision surface and profile grinding machine

With a grinding length of 500 mm and a cross travel of 200 mm the Okamoto UPZ-52Li is equally suited to the toolroom, small or large batch production. It features a high level of standard equipment to ensure easy handling, quick and precise small part production. The robust cast iron construction and linear guideways in both table and crossfeed provide for fast and accurate grinding. The intuitive operation of the controls simplifies usage and increases productivity considerably.

- Linear motor table drive
- Workpiece measurement system
- CCD camera

- High-speed reciprocation (500/min)
- Temperature-stabilized grinding wheel spindle head



UPZ 52 Li

	Description		Unit	UPZ 52Li	
	Work table size		mm	550 × 220	
	Table traverse path		mm	600	
Work area	Max. distance Table to Wheel		mm	12.5 ~ 395	
	Magnetic chuck size (Length x Wi	dth x Height)	mm	500 × 200 × 80	
	Max. table load		kg	60 (41)	
	Feed		m/min	Feed 0.1 ~ 25 (average)	
	Max. traverse path		mm	600	
Table	Rapid traverse		mm/min	5000	
lable	Smallest input unit		mm	0.0001	
	Hand feed	Graduation	mm	0.0001 / 0.001 / 0.01 / 0.05	
	nanu ieeu	Wheel speed	mm	0.1 / 0.1 / 1.0 / 5.0	
	Feed		m/min	1 ~ 2000	
	Max. stroke		mm	230	
Cross	Rapid		mm/min	2000	
movement	Smallest input unit		mm	0.0001	
	Hand food	Graduation	mm	0.0001 / 0.001 / 0.01 / 0.05	
	Hand feed	Wheel speed	mm	0.01 / 0.1 / 1.0 / 5.0	
	Feed		m/min	1 ~ 2000	
	Max. stroke		mm	382.5	
Vertical	Rapid		mm/min	2000	
movement	Smallest input unit		mm	0.0001	
	Lland food	Graduation	mm	0.0001 / 0.001 / 0.01	
	Hand feed	Wheel speed	mm	0.01 / 0.1 / 1.0	
Orientia t 1	Grinding wheel size		mm	ø 205 × 13 × ø 31.75	
Grinding wheel	Speed		min ⁻¹	0 ~ 3600	
	Grinding wheel spindle		kW	3.7/2 Liquid cool. motor	
Motors	Vertical movement		kW	1.3	
IVIOTORS	Cross movement		kW	0.85	
	Table feed		kW	3.0 × 2	
Power	Power consumption		kVA	25.5 (varies according to specification)	
Canada vannsina	LxWxH		mm	2300 × 2340 × 2237	
Space requirement	Total weight net		kg	4500	

ADDITIONAL EQUIPMENT

- Elektro-permanent magnetic chuck500 mm x 200 mm
- Paper band filter coolant system
- Mist collector
- 2-point rotary dresser
- Measuring system incl. CCD camera and software

* shown with optional closed top cover



ACC CA / CAiQ

Precision surface and profile grinding machine

With a grinding length of 600 - 1000 mm and a cross travel of 400 - 600 mm the Okamoto ACC-CA/CAiQ is ideally suited for the toolroom. It features a high level of standard equipment to ensure easy handling, quick and precise small part production. The robust cast iron design and double-V slideways in the table ensure long term precision. The intuitive operation of the controls simplifies usage and increases productivity considerably.

- Surface and profile grinding machine
 Chains of touch parson control or
- Choice of touch screen control or simple PLC controller
- Moving column design
- Magnetic chuck sizes from 600 x 400 to 1000 x 600 mm



ACC CA / CAiQ

	Description		Unit			CA series			CAIQ series				
	Description		Unit	64CA	84CA	104CA	66CA	106CA	64CA-iQ	84CA-iQ	104CA-iQ	66CA-iQ	106CA-iQ
	Table length x wid	th	mm	605 x 400	805 x 400	1016 x 400	605 x 600	1016 x 600	605 x 400	805 x 400	1016 x 400	605 x 600	1016 x 600
	Table stroke length x width		mm	800 x 440	1000 x 440	1200 x 440	800 x 652	1200 x 652	800 x 440	1000 x 440	1200 x 440	800 x 652	1200 x 652
Work area	Maximum distance wheel - table	grinding	mm		22.5 - 522.5 -2.5 - 497.5				22.5 - 522.5			-2.5 - 497.5	
	Standard size chuc	ck	kg	600 x 400 x 90	800 x 400 x 90	1000 x 400 x 90	600 x 600 x 90	1000 x 600 x 90	600 x 400 x 85	800 x 400 x 85	1000 x 400 x 85	600 x 600 x 85	1000 x 600 x 85
	Table load incl. chu	ıck		1000 1500 1000 1500					1500	1500			
	Table height (from	floor)							915				•
Table	T-slots		mm						-				
lable	Speed		rpm						3 - 25				
	Manual	Feed / rotation	mm		(0.1 / 1.0 / 5.0					0.01 / 0.1 / 1.0	/ 5.0	
Cross movement	Waliual	Division hand wheel			0.0	01 / 0.01 / 0.	05		0.0001/0.001/0,01 / 0,05				
	Automatic	Int. feed	mm	0.5 - 20									
	Automatic	Cont. feed	mm/min		0 - 2000						0 - 1000		
	Feed / rotation							0.01	/ 0.1 /1.0				
	Manual Division hand wheel	Division hand wheel	mm	0.0001 / 0.001 / 0.01									
Vertical	A	Roughing	mm		0.000	1 000/15	.t)				0.001 - 0.03	3	
movement	Automatic	Finishing	mm/min.		0.000	1 - 0.03 (15 s	steps)		0.0001 - 0.01				
	Feed (F command)		mm			-					1000		
	Number of spark-o	out passes				0 - 5					0 - 99		
	Rapid traverse							0	- 1000				
Grinding wheel	D x Width x d		mm	Ø 3	55 x 38 x Ø 1	27	Ø 405 x 5	0 x Ø 127	Ø	355 x 38 x Ø	127	Ø 405 x	50 x Ø 127
diffiding wheel	Speed (inverter)		R.P.M.					50	0 - 2500				
	Grinding wheel spi	ndle	kW						7.5				
Motors	Hydraulic pump		kW						2.2 / 4				
Wiotors	Infeed		kW						1.5				
	Cross movement		kW						0.75				
Power consumpt (incl. chuck and o					13		1	6			24		
	Length		mm	3550	4000	4480	3550	4480	3710	4000	4500	4000	4500
Space	Depth		mm	2700	2900	2800	3350	3350	3439	3500	3500	3700	3610
requirement	Height		mm	2203	2203	2203	2275	2275	2203	2203	2203	2275	2275
	Total weight net		kg	4950	5500	7000	6300	7300	4950	5500	7000	6300	7500



ACC CA3

Precision surface grinding machine

With a grinding length of 600 - 1000 mm and a cross travel of 400 - 600 mm the Okamoto ACC-CA2/CA3 is ideally suited for the toolroom. It features a high level of standard equipment to ensure easy handling, quick and precise small part production. The robust cast iron construction and double-V table slideways (CA2) ensure long term precision. The intuitive operation of the controls simplifies usage and increases productivity considerably.

- CNC surface & profile grinding machine
- e.g. 3 axes simultaneously

Wheel flange

Balancing unit with arbour Electromagnetic chuck Coolant systems

- Column feed for cross movement
- Dialogue input system



ACC CA3

	Description	Unit	64 CA3	84 CA3	104 CA3	106 CA3			
	Table path	mm	800 x 440	1000 x 440	1200 x 440	1200 x 652			
Work area	Magnetic chuck size	mm	600 x 400	800 x 400	1000 x 400	1000 x 600			
work area	New wheel to table	mm		-2.5 ~	497.5				
	Table load	kg		1000		1500			
Table	Speed	m/min		3 ~	- 25				
	Int. movement	mm		0.5	~ 20				
Cross movement	Cont. movement	mm/min		0 ~	2000				
	Hand wheel division.	mm	0.001 / 0.01 / 0.05						
Vertical	Rapid	mm/min		10	100				
movement	Hand wheel division.	mm		0.0001 / 0	.001 / 0.01				
Grinding	Dimensions (D x B x d)	mm		ø 355 x	38 x 127				
wheel	Speed	min -1		500 ~	2500 ⁻¹				
	Grinding wheel spindle	kW		5	.5				
Motors	Hydraulic pump	kW		2	.2				
	Vertical movement	kW	0.75						
Space	LxWxH	mm	3710 x 3300 x 2200	3950 x 3300 x 2200	4500 x 3300 x 2200	4440 x 3650 x 2280			
requirement	Total weight net	kg	4500	5500	7000	7500			



ACC CHNC

Double column surface and profile grinding machine

With a grinding length of 2000 - 4000 mm and a cross travel of 1050 - 2050 mm the Okamoto ACC-CHNC Series is ideally suited for both toolroom and production use. It features a high level of standard equipment to ensure easy handling, quick and precise part production. The robust cast iron construction and double-V table slideways together with gantry cross slide ensure long term precision. The intuitive operation of the controls simplifies usage and increases productivity considerably.

Double column machine

Elektro-permanent magnetic chuck
Paper band filter coolant system
Overhead dresser with compensation

- Robust construction for the very highest geometry requirements
- Precision surface processing
- Conversation software



ACC CHNC

	Description	Unit	1000	Series		1500 Series		2000	2000 Series	
		-	2010CHNC	3010CHNC	2015CHNC	3015CHNC	4015CHNC	3020CHNC	4020CHNC	
	Table size, length x width	mm	2000 x 1050	3000 x 1050	2000 x 1550 3000 x 1550 4000 x 1550		3000 x 2050	4000 x 2050		
Work area	Max. grinding height	mm				700				
	Clearance width	mm	1300			1800		25	500	
	Work area	mm	2050 x 1050	3050 x 1050	2050 x 1550	3050 x 1550	4050 x 1550	3050 x 2050	4050 x 2050	
Table	Max. load	kg	4600	6900	5400	8100	10800	9200	12300	
	Magnet weight	kg	1560	2340	2360	3540	4720	4620	6160	
Longitudinal	Max. traverse path	mm	2250	3250	2250	3250	4250	3250	4250	
movement	Feed	m/min	2-30							
Cross movement	Max. traverse path	mm	11	70		1670		21	70	
Cross movement	Rapid traverse	mm/min				5000				
Vertical movement	Max. traverse path	mm	740							
vertical movement	Rapid traverse	mm/min				1500				
	Grinding wheel size (opt.)	mm		Ø 510 (op	tion: Ø 610) x 100	x Ø 203.2		Ø 610 x 10	0 x Ø 203.2	
Grinding wheel	Speed (opt.)	min -1			980 (option: 850)			8	50	
	Grinding wheel motor (opt.)	kW				15 (option: 22)				
	Length	mm	7300	8650	7300	8650	10950	8650	11310	
Cnoos requirement	Width	mm	4100	4100	4600	4600	4600	4800	6833	
Space requirement	Height	mm	4100	4100	4100	4100	4100	4100	4100	
	Total weight net	kg	18500	21000	21500	24500	28000	35000	40000	

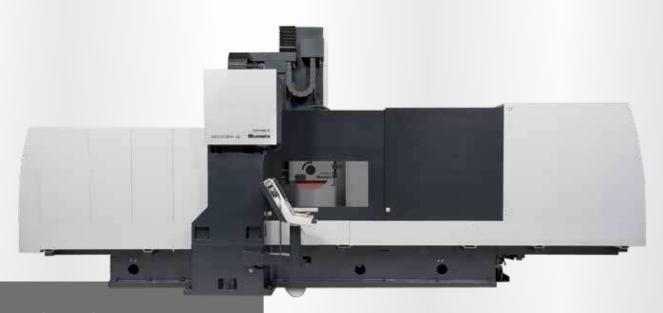


ACC CHIQ

Precision double column machine

The ACC-CHiQ series meets the very highest requirements in terms of precision to be found in the manufacture for parts in tool and mould construction, in hot runner technology and punching die construction. The cross slideways can be adjusted mechanically and can be realigned at any time as needed. In doing so, the CNC does not need to be compensated which in turn affords advantages in a higher surface quality and smoothness.

- Double column machine
- NC control with touchscreen
- Simple data input via symbols
- Stable construction for the very highest geometry requirements
- Mechanically adjustable cross slideways



ADDITIONAL EQUIPMENT

- Electro-permanent magnetic chuck
- Paper band filter coolant system
- Overhead dresser with compensation
- Column increase 200mm

ACC CHIQ

	Description		Unit	208CHiQ	258CHiQ	358CHiQ	458CHiQ		
	Chuck working size (Length	x Width)	mm	2000 x 800	2500 x 800	3500 x 800	4500 x 800		
	Table cross movement		mm		10	50			
Capacity	Table longitudinal movemen	t .	mm	2250	2750	3750	4750		
	Table working cap (Length x	Width)	mm	2050 x 850	2550 x 850	3550 x 850	4550 x 850		
	Maximum weight of table (In	cluding chuck)	kg	3200 (1390)	3900 (1690)	5500 (2180)	6000 (2680)		
Longitudinal feed	Chuck size (Length x Width)		mm	2000 x 800 2500 x 800 3500 x 800 4500 x 800					
Longituumar ieeu	Longitudinal feed rate		m/min		2~	30			
	Max. travel feed		mm		9-	10			
	Minimum increment		mm		0.0	001			
Crossfeed	Max. rapid feed		mm/m	6000					
Giossiecu	Automatic feed	Continuous feed rate	mm/min		0~1	000			
	Manual feed	Hand feed per revolution	mm		0.01/0).1/1.0			
	Wallual leeu	Graduation of hand wheel	mm/m		0.0001/0.001				
	Max. travel feed		mm	620					
	Minimum increment		mm	0.0001					
	Max. rapid feed		mm/m		20	00			
Vertical feed	Automatic feed	Rough grinding	mm	0.0001~0.9999					
	Automatic leed	Fine grinding	111111	0.0001~0.9999					
	Hand adjustment	Hand feed per revolution	mm		0.01/0).1/1.0			
	manu aujusumem	Graduation of hand wheel	111111		0.0001/0.	001/ 0.01			
	Size (OD x W x ID)		mm		Ø 510 x 10	00 x Ø 127			
Grinding wheel	OLO (OD X III X ID)				(Option: 610	x 50 x 127)			
diffiding wheel	Spindle speed		mm ⁻¹		400~	1600			
	Motor		kW/P		22	2/4			
Oil pressure unit	Capacity		L		30	00			
Machine space	Length x Width x Height		mm	7450 x 3850 x 3595	7750 x 3850 x 3550	10200 x 3850 x 3550	13200 x 3850 x 3550		
Machine weight	Standard		kg	15500	17000	20000	23000		



ACC GX

Precision surface grinding machine

With a grinding length of 500 - 1000 mm and a cross travel of 200 - 500 mm the Okamoto GX Series is ideally suited for the toolroom. It features a high level of standard equipment to ensure easy handling, quick and precise small part production. The robust cast iron construction and double-V slideways in both table and crossfeed ensure long term precision.

- Hydraulic surface grinder with automatic feed
- Moving saddle design

Paper band filter with coolant system

Cross-feed digital readout
Spindle speed inverter

- Double-V slideways longitudinal and cross
- PLC controller with proven reliability



ACC GX

	Description		Unit	52 GX	63 GX	64 GX	65 GX	84 GX	105 GX	
	Machine table (length x wi	dth)	mm	550 x 200	650 x 300	650 x 400	650 x 500	850 x 400	1016 x 500	
	Max. distance table > whe	el	mm	47.5 ~ 397.5	22.5 ~	322.5		22.5 ~ 522.5		
Table	Standard size of magnetic	chuck (L x W x H)	mm	500 x 200 x 90	600 x 300 x 90	600 x 400 x 90	600 x 500 x 90	800 x 400 x 90	1000 x 500 x 90	
	Max. table load (incl. magnt.) T-slots (W x width)		kg	200	420	420	700	700	700	
			mm	17 x 1			17 x 3			
	Max. traverse path		mm	650	750	750	750	950	1150	
Longitudinal	Speed		m/min	0.3 ~ 25	0.3 ~ 25	0.3 ~ 25	0.3 ~ 25	0.3 ~ 25	0.3 ~ 25	
feed	Manual feed/rotation		mm			4	7			
	Max. table cross traverse		mm	230	340	440	540	440	540	
	Manual cross feed	per rotation of hand wheel	mm			5.	.0			
Crossfeed	manual cross feed	per division	mm		0.02					
	Autom. cross movement	step-wise	mm	0.5 ~ 12	0.5 ~ 20	0.5 ~ 20	0.5 ~ 20	0.5 ~ 20	0.5 ~ 20	
		continuous	m/min	0.1 ~ 1.0	0.1 ~1.0	0.1 ~ 1.0	01 ~ 1.0	0.1 ~ 1.0	0.1 ~ 1.0	
	Automatic feed		mm			0.0001	~ 0.03			
	Manual feed	per rotation of hand wheel 0.1x1x10x	mm	0.0001 / 0.001 / 0.01						
Vertical feed		per impulse 0.1x1x10x	mm			0.01 / 0	0.1 / 1.0			
	Sparkout		Nr.			0 -	~ 5			
	Vertical fast positioning		mm/min			60	00			
Grinding wheel	ø x width x bore		mm	ø 205 x 19 x ø 50.8			ø 355 x 38 x ø 127			
	Speed		min ⁻¹	3000			1500			
	Wheel spindle		kW/P	1.5 / 2			3.7 / 4			
Motors	Hydraulic pump		kW/P	0.75/4	1.5/4	1.5 / 4		2.2 / 4		
	Vertical movement		kW			0.4 (AC Se	rvermotor)			
Power supply	Connection value		kVA	4.5	7.5		8	.0		
Space requirement	Length x Width x Height		mm	3030x1593x1800	3350x1929x1800	3350x2180x1800	3350x2450x2060	4220x2205x2060	4870x2264x2060	
Total weight net			kg	2100	2800	3000	3500	3900	4800	



ACC SA1

Next Generation

Standard surface grinder series equipped with a newly developed user friendly controller.

- Best step up from the ever popular Okamoto ACC-DX Series
- Crossfeed setting by Teach-In
- Compact footprint design

Wheel flange

- New control with LCD touch screen allows for easy monitoring of the machine functions and grind process
- Auto dress with compensation is standard
- Spindle inverter unit is standard
- Auto-retract function is standard



ACC SA1

								ı	1	
	Description		Unit	52SA1	63SA1	64SA1	65SA1	84SA1	105SA1	
	Table Working Capacity		mm	505×200	605×300	605×400	610×500	805×400	1016×500	
	Max. Table Travel		mm	650×230	750×340	750×440	750×540	950×440	1150×540	
Capacity	Distance under new wh	neel to table top	mm	47.5~397.5	22.5~322.5 22.5~522.5					
	Standard chuck size		mm	500×200×75	600×300×75	600×400×85	600×500×100	800×400×85	1000×500×100	
	Table Load capacity (include chuck)		kg	200 420 700						
Longitu- dinal Feed	T-Slot (Width x No.)		_		-					
(X axis)	Longitudinal Feed Rate (Average)		m/min		0.3~25					
	Manual Feed Hand Feed per Revolution Graduation of Hand Feed			0.01/0.1/1.0						
				0.0001/0.001/0.01						
Vertical	Automatic Feed Rate (Plunge & Traverse)	Coarse Grinding	mm	0.0001~0.03						
Feed (Y-AXIS)		Fine Grinding	mm	0.0001~0.03						
	No. of Spark-out		No.	0~10						
	Vertical Rapid Feed			1~600						
	Hand Feed per Revolution Manual Feed Rate		mm	0.1/1.0/5.0						
Cross	Manual Feed Rate	Graduation of Hand Feed	mm	0.001/0.01/0.05						
Feed (Z axis)	A to so Po Food Pole	Intermittent Feed	mm	0.5~15	0.5 ~20	0.5 ~20	0.5~20	0.5~20	0.5~20	
	Automatic Feed Rate	Continuous Feed Rate	mm/ min	0.1~1000						
Grinding	Diameter x Width x Bor	e	mm	Ø 205×19× Ø 50.8	Ø 355×38× Ø 127					
Wheel	Speed		min ⁻¹	1000~3600	200 ~2500	200~2500	200~2500	200~2500	200~2500	
	Grinding Wheel Spindle		kW/P	2.2/2	3.7/4					
Motors	Hydraulic Oil Pump		kW/P	0.75/2	1.5 2.2					
Wotors	Vertical Feed		kW	0.4	0.4					
	Cross Feed		kW		0.75					
	Power Supply		KVA	8	1	11		14		
Floor Space	I Width y Denth y Height		mm	2430×2000×1850	2740×2250×1850	2740×2450×1850	2740×2600×2120	3330×2450×2120	4330×2600×2120	
Weight	Net Weight		Kg	2100	2800	3000	3500	3900	4600	



ACC 42 SAiQ

New model series of medium size surface grinding machines

Better operability and repeatable accuracy are considered as the most important factor.



ACC 42 SAiQ

	Description		Unit	ACC 42 SAIQ	
	Table working cap. (length x width)		mm	530 x 200	
	Maximum travel (manual : longitudinal x cross)		mm	530 x 200	
Capacity	Distance new wheel	- table	mm	22,5 - 357,5	
	Standard magnetic c	huck size	mm	400 x 200 x 70	
	Table load capacity (i	ncl. chuck weight)	kg	120	
Table	T-slots (width x No)	T-slots (width x No)		17 x 1	
lable	Hydaulic feed rate (Li	: linear motor)	m/min	0,1 - 20	
	Manual areas from	Hand feed per revolution	mm	0,01 / 0,1 / 1,0	
Overeford	Manual cross feed	Graduation of handwheel	mm	0,0001 / 0,001 / 0,01	
Crossfeed	Automatic cross	Intermittent feed	mm	0,5 - 12	
	feed	Continuous feed	mm/min	0,1 - 1000	
	Manual pulse feed	Hand feed per revolution	μm	0,01 / 0,1 / 5,0	
		Graduation of handwheel	mm	0,0001 / 0,001 / 0,05	
	Automatic downf- eed (traverse & plunge)	Rough grinding	mm	0,001 - 0,03 (15 steps)	
Wheel head		Fine grinding	mm	0,0001 - 0,01 (11 steps)	
	Feedrate (F-Command)		mm	0 - 2000	
	No. of sparkout		Anzahl	0 - 99	
	Rapid feed rate		mm/min	0 - 1000	
Onimalina anti	Grinding wheel Size OD x W x ID Speed (Invertor)		mm	ø 205 x 6 - 25 x ø 31,75	
Grinding wheel			min ⁻¹	1000 - 3600	
	Grinding wheel spind	le (reverse-ventilation)	kW/P	2,2 / 2	
	Hydraulic pump		kW/P	0,75 / 4	
Motors	Vertical feed (AC serv	0)	kW	0,75	
	Cross feed (AC servo		kW	0,75	
Destred power supply	including electro mag	& coolant system	kVA	14	
Floor space	LxWxH		mm	2470 x 2900 x 2093	
Net weight			kg	2100	



ACC 818 NC

Endless challenge to Zero

Simply the best CNC profile grinding machine developed from our long experience in the grinding machine market. The advantages are manifold: Compact Moving Saddle Design, Fanuc CNC Control with dialogue software, 1/10 Micron AC Servo Motors, Fully Automatie Grind Cycle, automatie profile wheel dressing with Compensation, for the purpose of long lifetime and maintenance free operation, oil lubrication with automatic lubrication is applied to the guide and slide way, combination of both scraped V-V slide way and low friction Turcite assure accurate grinding for life, all castings exhibit high static and dynamic stiffness and excellent damping qualities.

- Grinding wheel (205 x 13 x 31.75 mm)
- Grinding wheel adaptor for wheels
- Levelling screws and plates
- Necessary Tools
- Worklight

Coolant System

Magnetic chuck Spare wheel adaptor

Grinding wheel balancer



ACC 818 NC

	Description	Unit	ACC 818 NC
	Table Area (ground)	mm	500 x 200
	Table Movements (longitudinal/cross)	mm	530 x 230
Capacity	Max. grinding height between table and new wheel (Ø 205)	mm	357.5
	Standard magnetic chuck	mm	400 x 200
	Table load capacity approx.	kg	120 (incl. Chuck) 1 x 17
Table	T Slots	(No. x W)	1 x 17
lable	Max Table feed, hydraulic, continuously adjustable, m/min	m/min	1. ~ 20
	Intermittent feed	mm	0.4 – 8
Cross Feed	Continuous feed	mm/min	0-2000
	Electronic hand wheel graduations	μm	0.1 / 1 / 10 / 50
	Automatic Down Feed	mm	0.0001 - 0.030
Down Feed	Electronic hand wheel graduations	μm	0.1 / 1 / 10
	Rapid Positioning	mm/min	2000
Coinding wheel	Grinding Wheel - OD x width x bore	mm	205 x 6-25 x 31.75
Grinding wheel	Rotational speed	rpm	100 - 3600
	Grinding spindle	kW	2.2
	Hydraulic Pump	kW	0.75
Motors	Vertical Feed (AC Servomotor)	kW	0.5
	Cross feed	kW	0.5
Danier Const.	Operating voltage/frequency	v/Hz	400 / 50
Power Supply	Connected load, approx.	kVA	15
Space requirement	Length x Depth x Height, approx.	mm	2270 x 2780 x 2090
Total weight net		kg	2100



ACC 450 AV

Precision surface and profile grinding machine

To avoid effects of heat expansion and vibration, the hydraulic unit is isolated from the main unit. For the purpose of long lifetime and maintenance free operation, oil lubrication with automatic lubrication is applied to the guide and slide way. Combination of both scraped V-V slide way and low friction Turcite assure accurate grinding for life. All castings exhibit high static and dynamic stiffness and excellent damping qualities.

Surface and profile grinding machine

Simple PLC controller

ADDITIONAL EQUIPMENT

Dust Suction System
Coolant System

Magnetic chuck

Spare wheel adaptor

Grinding wheel balancer

Overhead Dresser – Manual Digital Readout for Crossfeed



ACC 450 AV

	Description	Unit	ACC 450 AV
	Table Area (ground)	mm	450 x 150
	Table Movements (longitudinal/cross)	mm	530 x 165
Capacity	Max. grinding height between table and new wheel (Ø 205)	mm	397.5
	Standard magnetic chuck	mm	450 x 150
	Table load capacity approx.	kg	120 (incl. Chuck)
	T Slots	(No. x W)	1x17
Table	Max Table feed, hydraulic, continuously adjustable, m/min	m/min	1. ~ 20
	Feed / Rev of longitudinal handwheel	mm	100
	Feed / Rev of cross handwheel	mm	5
Cross Feed	Feed / Division of dial	mm	0.02
Gross reed	Intermittent feed	mm	0.5 – 5
	Continuous feed	m/min	0.1- 0.4
	Automatic Down Feed	mm	0.0001 - 0.030
	Manual Micro Feed	mm	0.0001 / 0.001 / 0.01
Down Feed	Down Feed Handwheel Rev	mm	0.01 / 0.1 / 1
	Spark out	No.	0 – 5
	Rapid Positioning	mm/min	600
Grinding wheel	Grinding Wheel - OD x width x bore	mm	205 x 6-19 x 31.75
drilluling wheel	Rotational speed	rpm	3000
	Grinding spindle	kW	1.5
Motors	Hydraulic Pump	kW	0.75
Motors	Vertical Feed (AC Servomotor)	kW	0.4
	Cross feed	kW	0.2
Dower Comple	Operating voltage/frequency	v/Hz	400/50
Power Supply	Connected load, approx.	kVA	7
Space requirement	Length x Depth x Height, approx.	cm	2004 x 1430 x 2264
Total weight net		kg	1250

CHRFACE & PROFILE



LINEAR 350 B

Manual precision surface grinding machine

With a grinding length of 350 mm and a cross travel of 150 mm the Linear 350B is ideally suited for the toolroom. It features a high level of standard equipment to ensure easy handling and the manual control allows quick and precise small part production.

- Machine base made of cast iron
- Vibration -reducing construction
- Table slideway with linear rollers

Dkamoto

LINEAR 350 B

	Description	Unit	LINEAR 350 B	
	Max. table stroke	mm	390	
	Max. cross table movement	mm	210	
Work area	Max. height capacity New wheel -> Table	mm	362,5	
	Magnetic chuck size	mm	350 x 150	
	Max. table load (including chuck)	kg	120	
Table	Table T-slots (number x width)		1 x 17	
Cross	Feed per rotation on hand wheel	mm	3	
movement	Division of hand wheel	mm	0.02	
Vertical movement	Crossfeed per division hand wheel	mm	0.005	
Grinding wheel spindle	Dimensions (D x B x d)	mm	Ø 205 x 25 x Ø 31.75	
drillaling wheel spinale	Speed	min ⁻¹	3000	
Motors	Grinding wheel spindle	kW	1.5	
Power supply	Connection values incl. electromagnetic chuck and coolant system	KVA	3	
Canan manifestant	LxWxH	mm	1526 x 1405 x 1727	
Space requirement	Total weight net	kg	840	

ADDITIONAL EQUIPMENT

- Electro-magnetic chuck
- Balancing unit with arbour
- Wheel flange

Rotary Table Grinding Machine



PRG DXNC

Precision rotary table grinding machine

Horizontal spindle CNC rotary table grinding machine. This machine has a portal design, with moving column crossfeed. The table is in constant rotary motion, which adapts automatically to the changing grinding diameter.

- Rotary table grinding machine with horizontal spindle
- Variable table speed with constant cutting speed

- Portal design with cast iron construction
- FANUC control



PRG DXNC

	Description		Unit	PRG6DXNC	PRG8DXNC	PRG10DXNC	PRG120DXNC	
	Magnetic chuck diameter		mm	Ø 600	Ø 800	Ø 1000	Ø 1200	
	Swing diameter		mm	Ø 750	Ø 900	Ø 952	Ø 1130	
Work area	Distance between chuck	Ø 355 Grinding wheel	mm	-60 ~ 250		-		
	and wheel	Ø 510 Grinding Wheel	mm	-		500		
	Max. load		kg	150 250		1200	1300	
	Speed (V-constant, steple	SS)	min -1	20 ~ 150	20 ~ 150		8 ~ 65	
Table	Inclination		degree	±1	±1	±	4	
	Drive unit			AC servo motor (NC)				
	Stroke		mm	450	550	800	860	
	A	Feed	mm/min	0~2000				
Cross movement	Automatic	Rapid traverse	mm/min	4000		5000		
Illovellielit	Manual	Per rotation	mm	0.01 (x 1), 0.1 (x 10), 1 (x 100)				
		Hand wheel division	mm	0.0001 (x 1), 0.001 (x 10), 0.01 (x 100)				
		Rapid traverse	mm/min	4000		50	00	
	Stroke		mm	310 500			0	
	Feed		mm/min	0~2000				
Vertical movement	Automatic	Rapid traverse	mm/min	4000				
Inovenient	Hand adjustment	Per rotation	mm	0.01 (x 1), 0.1 (x 10), 1 (x 100)				
	Hand adjustment	Hand wheel division	mm	0.0001 (x 1), 0.001 (x 10), 0.01 (x 100)				
Crinding wheel	Dimensions		mm	Ø 355 x 38 (max. 50) x Ø 127		Ø 510 x 50 (OP: max. 75) x Ø 127		
Grinding wheel Rotational speed			min ⁻¹	1500		1000		
Motors	Grinding wheel		kW	7.5				
IVIOTORS	Table		kW	2.2	3.7 7.		5	
Space	Dimensions (L x W x H)		mm	1665 x 2560 x 2586	1810 x 2931 x 2586	4535 x 42	96 x 3581	
requirement	Total weight net		kg	4000	5000	12800	13000	

ADDITIONAL EQUIPMENT

- Variable speed control for the grinding wheel
- Work light LED
- Oil mist extraction
- Coolant system with paper filter and magnet separator

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Lapping Machine



AERO LAP

Finishing system for polishing / lapping irregular profiles

For extremely fine lapping of irregular profiles, AERO LAP is also equipped for small tools and parts. The special suspension multicone enables an automated lapping process without changing the geometry of the components to be worked. Multicone is a special elastic carrier medium to which diamond powder has been added. The media is directed onto the workpiece via a nozzle from a special turbine.

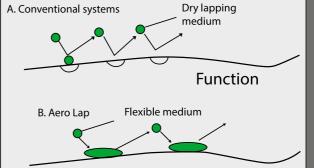
- Easy lapping of irregular profiles
- Improves tool life of all tools (drills, milling cutters, form punches, etc.)
- Suitable for PVD/CVD coating (pre/mirror-gloss lapping)
- Negligible production of dust and odour

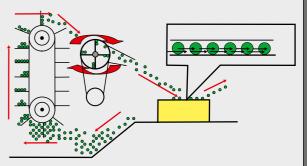


AERO LAP

Description	Unit	YT300
Workpiece dimensions	mm	300 x 300
Air connection	bar	0.5 - 0.8
Power supply 3 phases 50 Hz 16 A	V	400
Machine size W x H x D	mm	700 x 1600 x 900







Our locations







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All data contained herein is based on the technical status of the machines at the time of printing. We reserve the right to change any detail via further development. As a result, dimensions, weights, colours, etc. of the delivered machines may vary. Printed in May 2021.