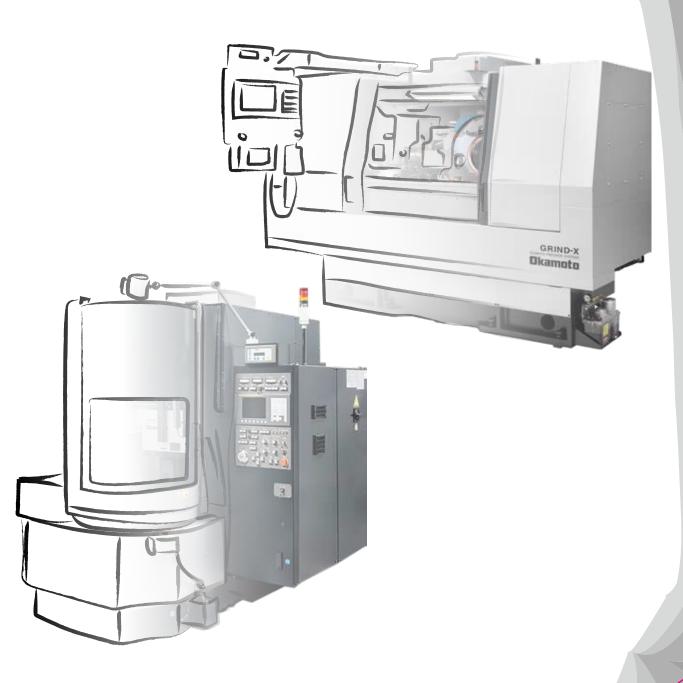
GRIND - X

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.

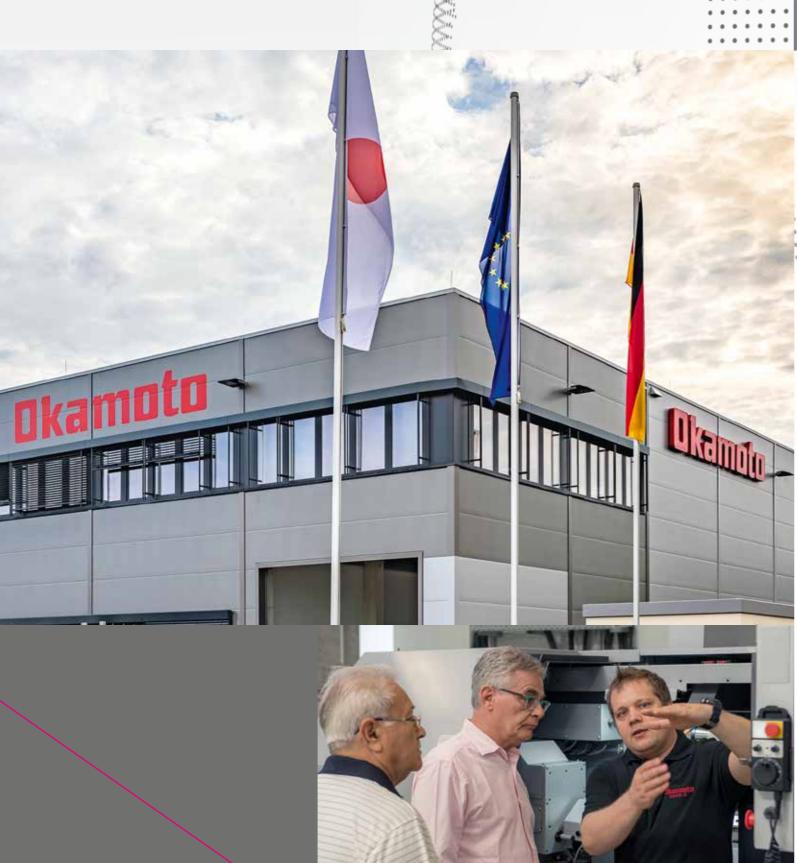
What you can expect from us in detail:

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













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 COMPAN

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







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

		1	
	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)	kg	500
	Specifications of wheel used	mm	Ø 200 x 40 x 50.8
	Opcomeducing of Whiteh about	11111	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
11	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 (aiS40/4000-B)
	Wheel infeed (AC servomotor)	kW	4.5 (aiS22/4000-B)
	Longitudinal wheel feed (AC servomotor)	kW	5.5 (aiS30/4000-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 10101		40	1.010

CATHIDUCAT CHINDING



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

	Description	Unit	UGM 360 NC	UGM 3100 NC	
	Spindle type	0		led live & dead spindle	
	Centre taper	MT	-	5	
	Through bore	mm		28	
Workhead	Spindle speed	min ⁻¹		- 500	
				90	
	Swivel angle exerctor side	Degree		30	
	Swivel angle operator side Trilsteek elegye	Degree			
Tailstock	Tailstock sleeve Sleeve stroke			ntrol type 30	
Talistock		mm		4	
	Taper Wheel enindle (AC meter)	MT kW			
	Wheel spindle (AC motor)		,	irect drive)	
	Internal grinding spindle (AC motor)	kW		0.700001110	
	Workhead Spindle (C-axis/AC motor)	kW	,	2/3000HV)	
Matara	Table feed (Z-axis/AC motor)	kW		/4000HV)	
Motors	Wheelhead infeed (X-axis / AC servo motor)	kW		2/4000HV)	
	Wheelhead swivel Motor (B-axis / AC servo motor)	kW	5.6 (Direct drive: DiS250/250) 3/4		
	Lubricant pump	W/P			
	Oil temperature controller	W		300	
	Oil temperature controller pump	W	400/1500W(0.P) Ø 510 x 63 (0P80) x Ø 203.2		
	Size (Outside - Ø x B x Inside - Ø)	mm	-		
Grinding wheel	Rotational speed min.	min -1		-3200	
	Max. peripheral wheel speed	m/sec		60	
Feed axis	X-axis stroke	mm	360		
(X-axis)	Min. input increment	mm	0.0001		
	Rapid traverse	mm/min		000	
Swivel Axis	Swivel angle	Degree		, 3 Spindle (+0~-240°)	
(B-axis)	Min. input increment	mm		001	
	Rapid traverse	min -1		15	
	Z-axis stroke	mm	850	1250	
Table (Z-axis)	Swivel angle	Degree	0 ~8.5	0 ~6.0	
	Min. input increment	mm		001	
	Rapid traverse	mm/min		000	
Power consumption		kVA	33	36	
Tank capacity	Lubricant	L		3	
	Coolant	L		30	
	Туре			C Oi-TF	
Control	Number of controlled axes		3 (2-axis simultaneously)		
	Coordinates		Polar, Linear, 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 1900	
Total weight net		kg	7000	7900	

CATMOMCAT CHIMO.



OGM 350 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

with 120 litre tank Work light LED

Sizes from 500 mm to 1500 mm between centres



OGM 350 NCIII / UNCIII

	Description		II-:4	Serie	s 200			Serie	s 300		
	Description		Unit	External	universal		External			universal	
				250	250	350	390	3150	350	390	3150
	Swing over tal	ble	mm	220	220	320	320	320	320	320	320
	Centre distanc	ce	mm	500	500	500	900	1500	500	900	1500
Capacity	Max. grinding	diameter	mm	200	200	300	300	300	300	300	300
Cupucity		Between centres	kg	50	50	150	150	150	150	150	150
	Max. weight Chuck (face plate + chuck + load)		kg	20	20	40	40	40	40	40	40
	Size (Outside - Ø x B x Inside - Ø)		mm	Ø 355 x 38 x Ø 127	Ø 305 x 25 x Ø 127	Ø 4	55 x 50 x Ø	127	Ø 4	105 x 38 x Ø	127
Grinding wheel	Rotational speed		min -1	1610/1780/1980	1880/2110/2210		1570/1742			1767/1996	
	Max. periphera	al wheel speed	m/sec	45	45	45	45	45	45	45	45
	Stroke		mm	215	215	300	300	300	300	300	300
Wheelhead	Swivel angle of	degree	Degree	Fixed	±30		Fixed			±30	
· · · · · · · · · · · · · · · · · · ·	Min. Incremen	ıt	mm	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	Rapid traverse	9	m/min	4	4	4	4	4	4	4	4
	Stroke Swivel angle		mm	762	762	870	1270	1870	870	1270	1870
Table			Degree	09	09	010	08.5	05	010	08.5	05
labio	Min. Incremen	ıt	mm	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	Rapid traverse		m/min	8	8	10	10	10	10	10	10
	Spindle type				Hig	h-strength co	mbined live &	dead spindle			
	Centre taper		MT	Nr. 3	Nr. 3	Nr. 4	Nr. 4	Nr. 4	Nr. 4	Nr. 4	Nr. 4
Workhead	Through bore	gh bore		Ø 18	Ø 18	Ø 20	Ø 20	Ø 20	Ø 20	Ø 20	Ø 20
	Spindle speed		min -1	10 - 500	10 - 500	10 - 500	10 - 500	10 - 500	10 - 500	10 - 500	10 - 500
	Swivel angle		Degree	30 ~	-90	Fixed 30 ~ -90					
	Tailstock sleev	ve .					Taper control type				
Tailstock	Sleeve stroke		mm	20	20	30	30	30	30	30	30
	Taper		MT	Nr. 3	Nr. 3	Nr. 4	Nr. 4	Nr. 4	Nr. 4	Nr. 4	Nr. 4
	Wheel spindle	!	kW	3	.7			5.5 (0)	pt. 7.5)		
	Workhead		kW			1,8 (AC servomoto	or)			
Motors	Table feed		kW			1,2 (AC servomoto	or)			
	Wheelhead inf	feed	kW			1,2 (AC servomoto	or)			
	Lubricant pum	пр	W		Г	I	3			1	
	Coolant pump		W/P	180/2	180/2	180/2	180/2	180/2	180/2	180/2	180/2
Required power			kVA	15	15	20	20	20	20	20	20
	t floor - Centre workpiece mm 980 980 1000 1000 1000 1000			1000	1000						
Total weight net		kg	3300	3300	4600	5000	6000	4600	5200	6000	
					Series EX III				1	NC III	
				250	350	390	3150	250	350	390	3150
Space	Width		mm	2920	3400	4200	5600	2920	3400	4200	5600
requirement	Depth		mm	2010	2330	2330	2330	2010	2330	2330	2330
	Height		mm	1950	1950	1950	1950	1950	1950	1950	1950



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	
	Description	UIIIL	IGINTSNOTT	IUW ISNGIII-2	
	Swing on the table	mm	Ø 6	00	
Capacity	Swing under the chuck cover	mm	Ø 2	60	
- Cupuoni	Maximum grinding inner diameter	mm	Ø 6 to 150	Ø 6 to 100	
	Maximum grinding length	mm	12	25	
	X-axis maximum travel amount (infeed)	mm	170	300	
Wheel spindle infeed	Minimum setting unit	mm	Ø 0.0	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	00	
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 140 g7		
	Work spindle tapered hole		Morse taper No. 6		
Work head	Through-hole diameter	mm	Ø 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	DW .	
Power supply	Power requirement		200V, thre 50/60 Hz (
,,,	Power consumption		8 kVA (main unit)	12 kVA (main unit)	
Chang requirement	Width	mm	25	25	
Space requirement	Depth x Height	mm	3092 x	1786	
Total weight net		kg	26	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



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

Self-centring chuck

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	
0	Max. distance between centres	mm	500	
Capacity	Max. grinding diameter	mm	200	
	Max. workpiece weight (between centres)	kg	60	
	Diameter x Width x bore	mm	Ø 305 x 25 x 127	
Grinding wheel	Rotational speed	rpm	2087/2357	
	Max. peripheral grinding speed	m/sec	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	sec. strokes	0-10	
	Stroke	mm	640	
	Swivel range	mm	+4° / -9°	
Table axis	Smallest input increment	mm	0,001	
	Max. table speed	mm/min.	50 - 4000	
	Feed per hand wheel rotation	mm	7.5	
	Work Spindle Taper	M.T.	No. 3	
Workhead	Spindle through bore	mm	14	
workneau	Rotational speed	rpm (3 steps)	150/250/400	
	Swivel range		+30° / -90°	
Tailstock	Sleeve travel	mm	20	
TailStock	Taper	M.T.	No. 3	
	Wheel spindle	kW	1.5	
	Workhead	kW	0.4	
Matara	Table drive	kW (AC servomotor)	0.4	
Motors	Workhead	kW (AC servomotor)	0.4	
	Internal grinding unit	kW	0.75	
	Power supply	kVA	7	
Dimanai	LxWxH	mm	2880 x 1851 x 1640	
Dimensions	Total weight net	kg	1900	

CKIMDRICAL CRIMOTIV



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	kW	2,2	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
Cnoop 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	
		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	
	Hand feed	Graduation	mm	0.0001 / 0.001 / 0.01	
	nanu ieeu	Wheel speed	mm	0.01 / 0.1 / 1.0	
Crinding wheel	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	
MOLOTS	Cross movement		kW	0.85	
	Table feed		kW	3.0 × 2	
Power	Power consumption		kVA	25.5 (varies according to specification)	
Canana ramusima mana	LxWxH		mm	2300 × 2340 × 2237	
Space requirement	Total weight net		kg	4500	

ADDITIONAL EQUIPMENT

- Elektro-permanent magnetic chuck 500 mm x 200 mm
- Paper band filter coolant system
- Mist collector
- 2-point rotary dresser
- Measuring system incl. CCD camera and software



UPZ NC II

NC-controlled surface & profile grinding machine

With a grinding length of 400 - 500 mm and a cross travel of 200 - 250 mm the Okamoto UPC NCII 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. The intuitive operation of the controls simplifies usage and increases productivity considerably.

- FANUC 0i control
- "Teach-in process"
- Scale-Feed-Back for the Z axis
- Temperature-stabilized grinding spindle head



UPZ NC II

	Description	Unit	UPZ 525 NC II
	Work area (L x W) mm	mm	500 x 250
Work area	Table strokes (L x W) mm	mm	650 x 280
	Distance table to new wheel mm	mm	60 - 397,5
Table	Speed	mm/min	0.8 - 25000
Table	Max. load	kg	200
	Rapid traverse	mm/min	1000
Cross movement	Programmed speed	mm/min	1 - 1000
	Hand wheel division	mm	0.01 / 0.1 / 1
Vertical movement	Rapid traverse	mm/min	1000
vertical movement	Hand wheel division mm	mm	0.0001/0.001/0.01
Crinding wheel	Dimensions	mm	Ø 225 x 25 x Ø 50.8
Grinding wheel	Rotational speed	min ⁻¹	0 - 3600 -1
	Grinding wheel	kW	3.7
Motors	Hydraulic pump	kW	1.5
Motors	Cross movement	kW	0.3
	Vertical movement	kW	0.4
Cnoon requirement	Dimensions (L x W x H)	mm	3470 x 3164 x 1850
Space requirement	Total weight net	kg	3500



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
- 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	s	
	Description		UIII	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	e grinding	mm		22.5 - 522.5		-2.5 -	497.5		22.5 - 522.	5	-2.5 - 497.5	-2.5 - 497.5
	Standard size chuck		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. ch	uck			1000		15			1000		1500	1500
	Table height (from	floor)			915								
	T-slots		mm						-				
Table	Speed		rpm						3 - 25				
	Manual	Feed / rotation	mm		().1 / 1.0 / 5.0			0.01/0.1/1.0/5.0				
Cross movement	Manual	Division hand wheel			0.001 / 0.01 / 0.05				0.0001/0.001/0,01 / 0,05				
IIIO VOIII OIII	A	Int. feed	mm	0.5 - 20									
	Automatic	Cont. feed	mm/min		0 - 2000			0 - 1000					
	Manual	Feed / rotation	mm	m 0.01 / 0.1 /1.0									
	Wallual	Division hand wheel	mm					0.0001	/ 0.001 / 0.01				
Vertical		Roughing	mm						0.001 - 0.03				
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				
Onivedien automate	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
Grinding wheel	Speed (inverter)		R.P.M.					50	0 - 2500				
	Grinding wheel sp	indle	kW						7.5				
Motors	Hydraulic pump		kW						2.2 / 4				
Wotors	Infeed		kW						1.5				
	Cross movement		kW						0.75				
	Power consumption (incl. chuck and coolant system)				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 CA2 / 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
 - c & prome grinding macrime
- e.g. 3 axes simultaneously

Wheel flange

Balancing unit with arbour Electromagnetic chuck Coolant systems

- Column feed for cross movement
- Dialogue input system



ACC CA2 / CA3

	Description	Unit	64 CA2	84 CA2	104 CA2	106 CA2			
	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	1000						
movement	Hand wheel division.	mm		0.0001 / 0	.001 / 0.01				
Grinding	Dimensions (D x B x d)	mm		ø 405 x 5	i0 x ø 127				
wheel	Speed	min -1		500 ~	2500 ⁻¹				
	Grinding wheel spindle	kW		7	.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 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	13	800		1800		25	00	
	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	1170 1670				21	70		
Gross movement	Rapid traverse	mm/min	5000							
Vertical movement	Max. traverse path	mm				740				
Vertical inovement	Rapid traverse	mm/min				1500				
	Grinding wheel size (opt.)	mm		Ø 510 (op	otion: 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	
Cnoop 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	

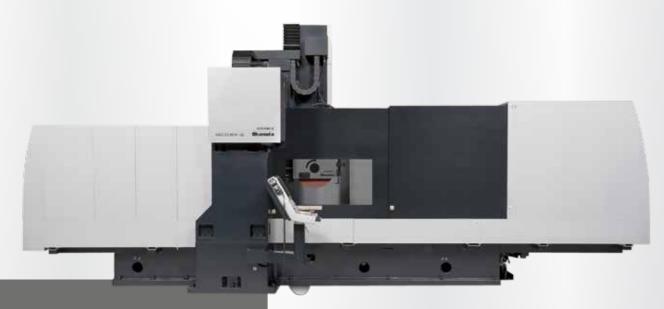


ACC CHIQ

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
- PC 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		
	Chuck working size (Length	x Width)	mm	2000 x 800	2500 x 800	3500 x 800		
	Table cross movement		mm		1050			
Capacity	Table longitudinal movement	i e	mm	2250	3750			
	Table working cap (Length x	Width)	mm	2050 x 850	2550 x 850	3550 x 850		
	Maximum weight of table (In	cluding chuck)	kg	3200 (1390)	3900 (1690)	5500 (2180)		
Longitudinal feed	Chuck size (Length x Width)		mm	2000 x 800	2500 x 800	3500 x 800		
Longitudinal leed	Longitudinal feed rate		m/min		2~30			
	Max. travel feed		mm		910			
	Minimum increment		mm		0.0001			
Crossfeed	Max. rapid feed		mm/m		6000			
Giossiecu	Automatic feed	Continuous feed rate	mm/min	0~1000				
	Manual feed	Hand feed per revolution	mm	0.01/0.1/1.0				
Manual feed	I Waliual leeu	Graduation of hand wheel	mm/m		0.0001/0.001/0.01			
	Max. travel feed		mm	620				
	Minimum increment	nimum increment		0.0001				
	Max. rapid feed		mm/m	2000				
Vertical feed	Automatic feed	Rough grinding	mm	mm 0.0001~0.9999				
	Automatic recu	Fine grinding			0.0001~0.3333			
	Hand adjustment	Hand feed per revolution	mm		0.01/0.1/1.0			
	manu aujusumem	Graduation of hand wheel			0.0001/0.001/ 0.01			
	Size (OD x W x ID)		mm		Ø 510 x 100 x Ø 127			
Grinding wheel	OIZC (OD X W X ID)				(Option: 610 x 50 x 127)			
drinding wheel	Spindle speed		mm ⁻¹		400~1600			
	Motor		kW/P	22/4				
Oil pressure unit	Capacity	Capacity		300				
Machine space	Length x Width x Height		mm	6570 x 3850 x 3550	7750 x 3850 x 3550	10200 x 3850 x 3550		
Machine weight	Standard		kg	15500	17000	20000		



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 width)		mm	550 x 200	650 x 300	650 x 400	650 x 500	850 x 400	1016 x 500
	wax. distance table	205 mm grinding wheel	mm	47.5 ~ 397.5	-	-	-	-	-
		305 mm grinding wheel	mm	-	22.5 ~ 322.5	22.5 ~ 322.5	22.5 ~ 522.5	22.5 ~ 522.5	22.5 ~ 522.5
Table		355 mm grinding wheel	mm	-	22.5 ~ 347.5	47.5 ~ 347.5	47.5 ~ 547.5	47.5 ~ 547.5	47.5 ~ 547.5
	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. mag	nt.)	kg	200	420	420	700	700	700
	T-slots (W x width)		mm	17 x 1			17 x 3		
	Max. traverse path		mm	650	750	750	750	950	1150
Longitudinal feed	Speed		m/min	0.3 ~ 25	0.3 ~ 25	0.3 ~ 25	0.3 ~ 25	0.3 ~ 25	0.3 ~ 25
IGGU	Manual feed/rotation		mm			4	7		
	Max. table cross traverse		mm	230	340	440	540	440	540
	Manual cross feed per rotation of hand value per division	per rotation of hand wheel	mm	5.0					
Crossfeed		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	0.01/0.1/1.0					
	Sparkout		Nr.	0 ~ 5					
	Vertical fast positioning		mm/min		600				
Grinding wheel	ø x width x bore		mm	ø 205 x 19 x ø 50.8	a 355 x 38 x a 12/				
	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 Servermotor)					
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
requirement									



ACC SA

Precision surface grinding machine

With a grinding length of 500 - 600 mm and a cross travel of 200 - 300 mm the Okamoto SA 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 rigid cast iron design and double-V slideways in both table and crossfeed ensure long term precision. The intuitive operation of the controls simplifies usage and increases productivity considerably.

- Reinforced machine design
- Automatic grinding cycles
- Double-V table and cross slideways
- Table dresser option



ADDITIONAL EQUIPMENT

- Elektro-permanent magnetic chuck500 mm x 200 mm / 600 mm x 300 mm
- Coolant system with paper filter
- Temperature stabilized wheelhead
- Fully automated balancing system
- Wheel flange

ACC SA

	Description	Unit	ACC 52 SA	ACC 63 SA	
	Table stroke	mm	650 x 230	750 x 340	
	Magnetic chuck size	mm	500 x 200	600 x 300	
Work area	Table -> new wheel	mm	47,5 ~ 397,5	22,5 ~ 322,5	
	Load	kg	200	420	
Table	T-slots	mm	17 x 1	17 x 3	
lable	Speed	m/min	0,3	~ 25	
	Incr. movement	mm	0,5 ~ 12	0,5 ~ 20	
Cross	Cont. movement	mm/min	0 ~ 1000		
movement	Rapid	mm	10	00	
	Hand wheel division	mm	0,001 / 0	,01 / 0,05	
	Feed	μm	0,5 ~ 30		
Vertical	Rapid	mm/min	1000		
movement	Hand wheel division	mm	0,0001 / 0,001 / 0,01		
	Spark-out passes		0 -	- 5	
Grinding wheel	Dimensions (D x W x d)	mm	ø 205 x 19 x ø 50,8	ø 355 x 38 x ø 127	
dilliuling whice	Speed	min ⁻¹	3000	1500	
	Wheel spindle	kW	1,5	3,7	
Motors	Hydraulic pump	kW	0,75	1,5	
	Vertical movement	kW	0, 55 kW		
Space	Dimensions (L x W x H)	mm	3030 x 1784 x 2276	3350 x 1987 x 2313	
requirement	Total weight net	kg	2100	2900	



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		ı	
	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	22.5~322.5	22.5~522.5	22.5~522.5	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 (in	clude chuck)	kg	200	4:	20		700		
Longitu- dinal Feed	T-Slot (Width x No.)		_			_	_			
(X axis)	Longitudinal Feed Rate	(Average)	m/min			0.3~	~25			
	Hand Feed per Revolution		mm			0.01/0	.1/1.0			
	Manual Feed	Graduation of Hand Feed	mm			0.0001/0.	001/0.01			
Vertical	Automatic Feed Rate	Coarse Grinding	mm	mm 0.0001~0.03						
Feed (Y-AXIS)	(Plunge & Traverse)	mm	0.0001~0.03							
	No. of Spark-out		No.	0~10						
	Vertical Rapid Feed		mm/ min	1~600						
	Mary description	Hand Feed per Revolution	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)		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 50.8					
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	1.5 2.2				
MOTORS	Vertical Feed		kW	0.4			0.4			
	Cross Feed				0.75					
Power Supply			KVA	8	1	11		14		
Floor Space	Width x Depth x 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 SAiQ

ACC 42 SAIQ

New model series of medium size surfacegrinding machines

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



ACC SAiQ

	Description		Unit	ACC 42 SAIQ
	Table working cap. (le	ength 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 cl	nuck size	mm	400 x 200 x 70
	Table load capacity (in	ncl. chuck weight)	kg	120
Table	T-slots (width x No)		mm	17 x 1
Table	Hydaulic feed rate (Li	: linear motor)	m/min	0,1 - 20
	Manual cross feed	Hand feed per revolution	mm	0,01 / 0,1 / 1,0
Crossfeed	Manual cross leed	Graduation of handwheel	mm	0,0001 / 0,001 / 0,01
Grossieed	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-Comman	d)	mm	0 - 2000
	No. of sparkout		Anzahl	0 - 99
	Rapid feed rate		mm/min	0 - 1000
Crinding wheel	Size OD x W x ID		mm	ø 205 x 6 - 25 x ø 31,75
Grinding wheel	Speed (Invertor)		min ⁻¹	1000 - 3600
	Grinding wheel spind	le (reverse-ventilation)	kW/P	2,2 / 2
Motors	Hydraulic pump		kW/P	0,75 / 4
Wiotors	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	LxWxH		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



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	302.5
	Standard magnetic chuck	mm	450 x 200
	Table load capacity approx.	kg	120 (incl. Chuck) 1 x 17
Table	T Slots	(No. x W)	1 x 17
Table	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
Crinding 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
Mataua	Hydraulic Pump	kW	0.75
Motors	Vertical Feed (AC Servomotor)	kW	0.5
	Cross feed	kW	0.5
Downer Committee	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

ADDITIONAL EQUIPMENT

- Coolant System
- Grinding wheel balancer
- Magnetic chuck
- Spare wheel adaptor



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 210
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 reeu	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
dilliuling 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



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		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	T-slots (number x width)	mm	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
Coope requirement	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

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



	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		-	50	00	
	Max. load		kg	150	250	1200	1300	
7-1-1-	Speed (V-constant, steple	ss)	min -1	20 ~ 150	15 ~ 130	8 ~	65	
Table	Inclination		degree	±1	±1	±	4	
	Drive unit				AC servo	motor (NC)		
	Stroke		mm	450	550	800	860	
	Feed		mm/min	0~2000				
Cross movement	Cross Automatic	Rapid traverse	mm/min	4000		5000		
movement	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		5000		
	Stroke		mm	310 500			00	
	Automotio	Feed	mm/min	0~2000				
Vertical movement	Automatic	Rapid traverse	mm/min	4000				
	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: r	max. 75) x Ø 127	
Grinding wheel	Rotational speed		min -1	1500		10	00	
Motors	Grinding wheel		kW		7.5			
iviotors	Table		kW	2.2 3.7 7.5		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

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.

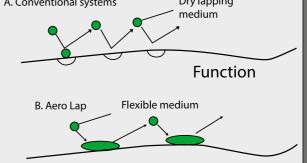
- Easy lapping of irregular profiles
- Improves tool life of all tools (drills, milling cutters, form punches, etc.)
- Suitable for PVD/CVD coating (pre/mirror-gloss lapping)
- Negligible production of dust and odour

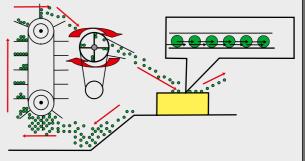


AERO LAP

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

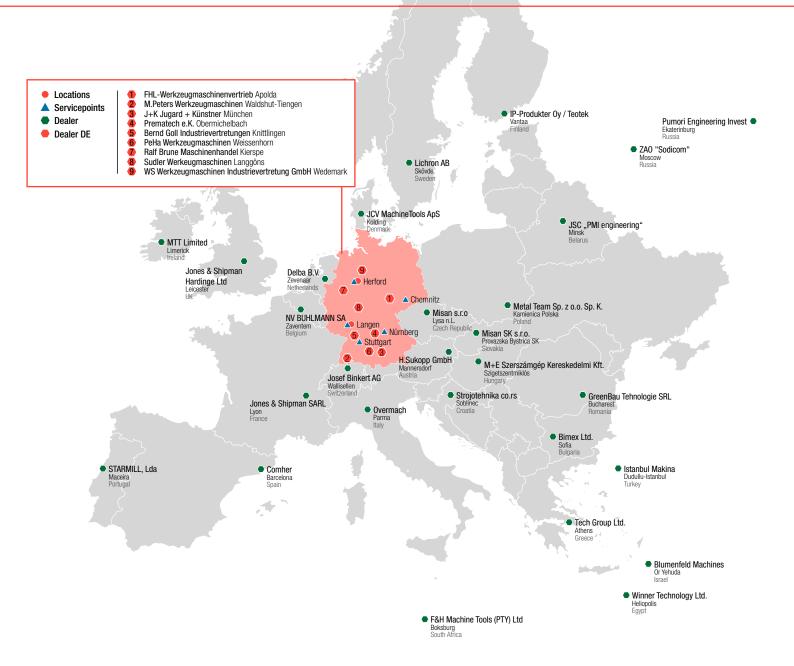






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All data contained herein is based on the technical status of the machines at the time of printing. We reserve the right to change any detail via further development. As a result, dimensions, weights, colours, etc. of the delivered machines may vary. Printed in august 2019.