D A T E N B L A T T

CRG, CRG-AW, CRG-A

CNC RUNDSCHLEIFMASCHINE

KAAST

DE

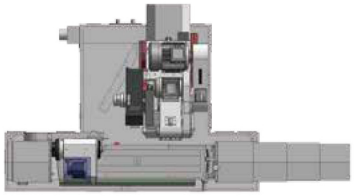
2022

CRG, CRG-AW & CRG-A Series High Precision CNC cylindrical Grinder

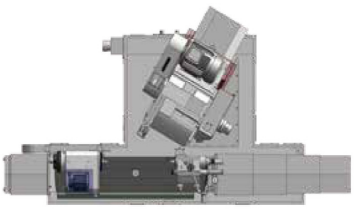
CRG, CRG-AW & CRG-A Series ginders are designed for high precision, high efficiency, and ease of operation. They are suitable for various applications including but not limited automotive, aero-space, medical instrument, tooling, job shop, and mold industries.

Features

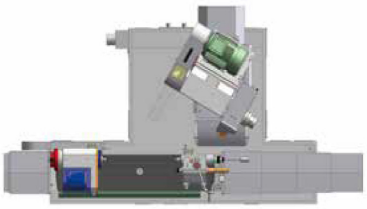
Kaast Werkzeugmaschinen GmbH introduces CRG, CRG-AW & CRG-A series CNC cylindrical grinders with superb grinding capabilities and choice of control options. The customers' requirements can be met with a choice of many machine options such as a touch probe, autmatic sizing device, or swing down ID grinding attachment. The complete product line offers a wide range of between center distances and center heights in both plunge and angular wheelhead designs. Automation and turnkey solutions can be offered optional equipment.



CRG - Plunge Wheelhead
Max. Grinding OD: 230-480 mm
Distance between Centers: 500-3000 mm



CRG-AW - Angular Wheelhead
Max. Grinding OD: 230-480 mm
Distance between Centers: 500-2000 mm



CRG-A - Angular Wheelhead Plunge type
Max. Grinding OD: 330-480 mm
Distance between Centers: 600-2000 mm

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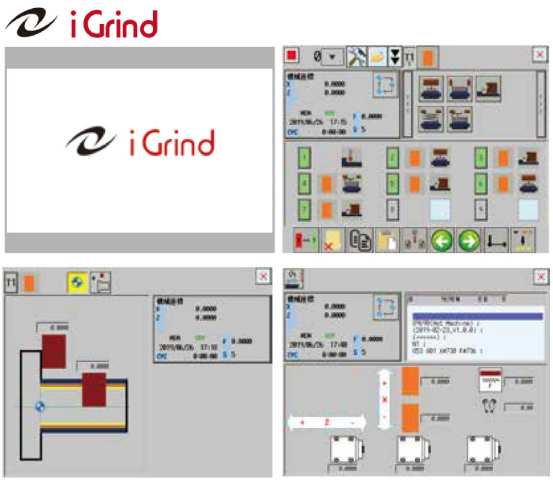
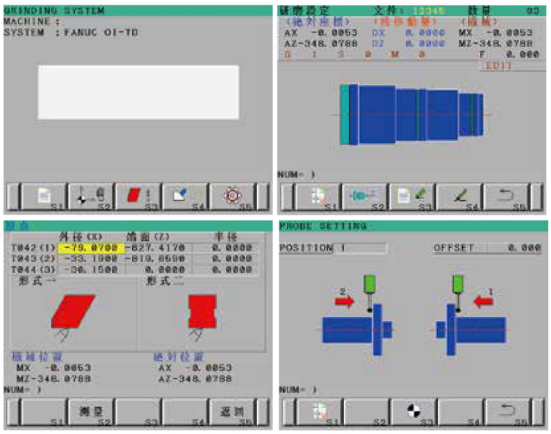
CNC Controller

A selection of CNC control systems including Fanuc, Mitsubi-shi, Siemens, PC-BASE are available. For small and medium size workpiece grinding operations, e-tech incorporates the iGrind graphic conversational pro-graming software.



• FANUC Controller

• Mitsubishi Controller



- OD Grinding / End Face Grinding / Form Grinding
- Form Dressing w/ Auto Compensation
- Multiple Section Grinding Sequences
- Setup Parameter Storage
- Graphic Parameter Instruction

*Die oben genannten Spezifikationen können ohne vorherige Ankündigung geändert werden, keine Haftung für Druckfehler. Die Maschine kann mit optionaler Ausstattung gezeigt werden.

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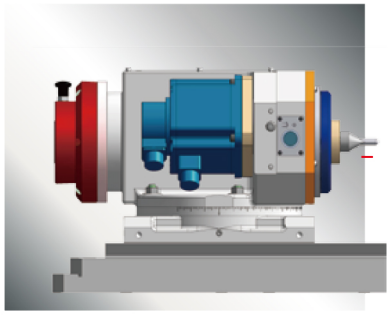
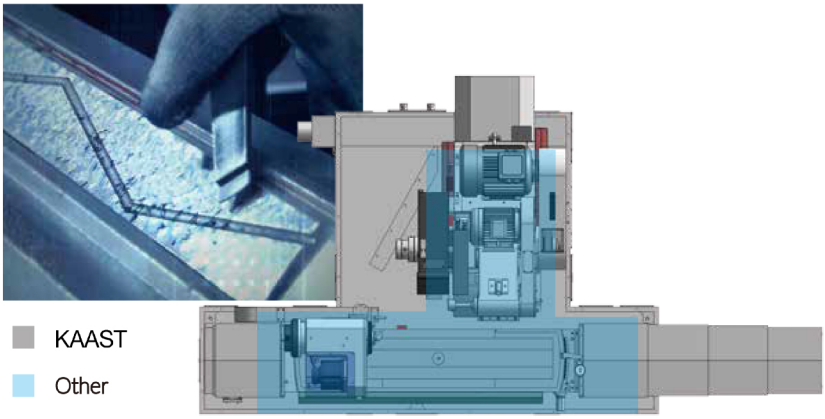
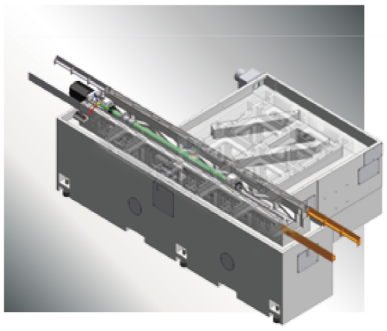


Work Head

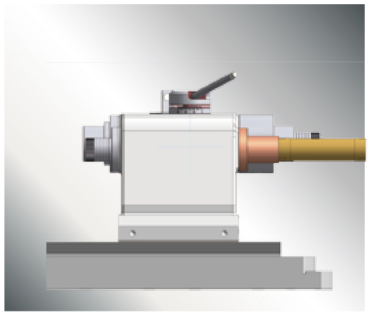
NN bearing designed work spindle offers heavy duty load capacity, optimal rotation accuracy, and high rigidity. The servo motor drive offers steady speed and torque during the grinding operation. A positive air purge system keeps grinding swarf and coolant out of the work head, thus it prolongs its life.





Rigid Machine Base

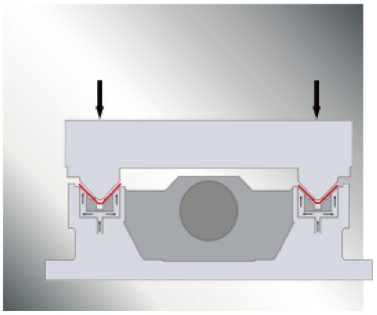
The machine based is designed to ensure the table is fully supported on both ends. The heavily ribbed box-type base is made of Meehanite casting, providing excellent rigidity and stability of the machine.



Tail Stock

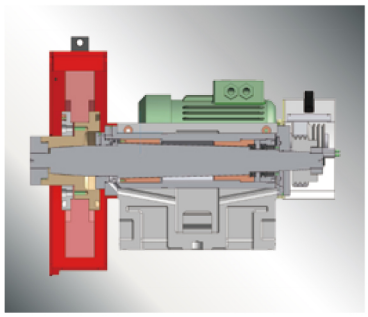
A coolant nozzle is installed on the top of the tailstock for cooling the center tip. An air floating devise allows for smoother movement and protection of the table.

- An optional tailstock quill travel of 75mm helps to load/unload the workpiece with ease. The quill is oil-bathed to ensure smooth movement.
- An optional tailstock taper adjustment feature allows the operator to easily adjust for taper error.



X-axis Guideway

The hand scraped Double V guideways provide maximum support to the wheel head for greater stability and grinding capacity. This design insures superior accuracy over the life of the machine.



Wheel head Spindle Bearing Options:

Standard — Contact Bearing Type Spindle is easy to maintain, environmentally friendly and minimizes thermal growth issues.

Optional — Hydrodynamic Babbit Bearing Type Spindle applies SNCM220 super alloy steel with multiple heat treatments makes the surface hardness of spindle up to HRC 62. These features ensure maximum cutting capability and best part finish performance in the grinding operation.

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Plunge Grinding Example :

Model CRG 320/600 CNC

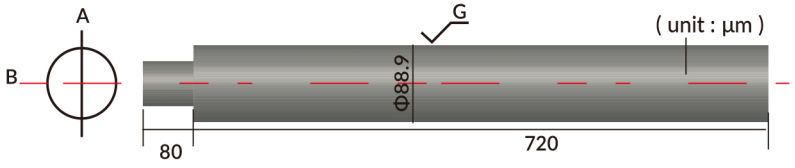
Grinding Conditions :

Wheel : WA60K(Φ405mm)

Workpiece

Name: Standard Grinding Test Workpiece

Material: SCM435



(unit : μm)	1	2	3	4	5	6	7	8	9
A	0.0	0.0	0.0	+1.0	+1.0	+1.0	0.0	0.0	0.0
B	0.0	0.0	0.0	+1.0	+1.0	+1.0	0.0	0.0	0.0

Cylindricity

Traverse Grinding Example :

Model CRG 320/600 CNC

Grinding Conditions :

Wheel : WA60K(Φ405mm)

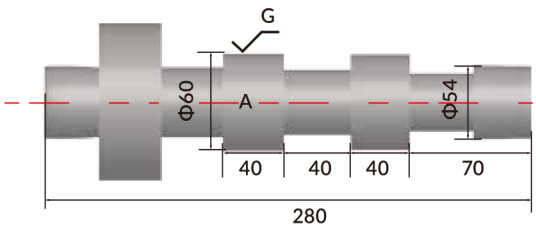
Workpiece

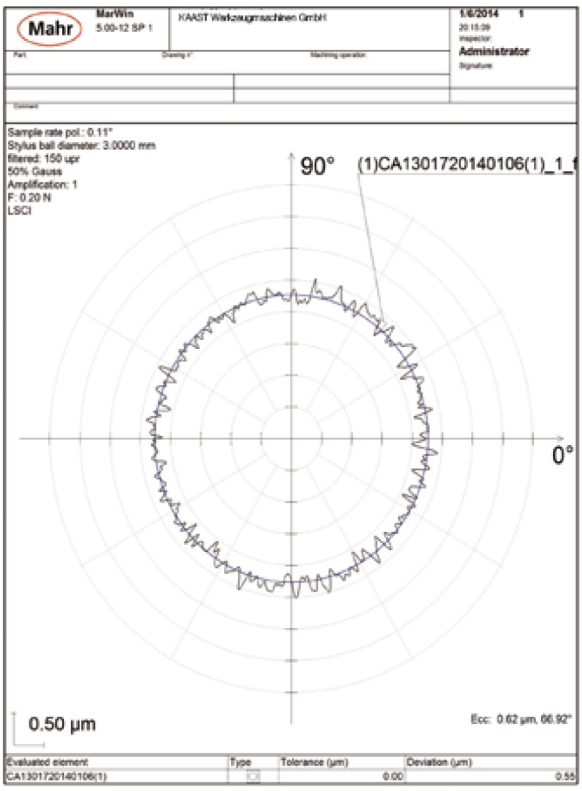
Name: Standard Grinding Test Workpiece

Material: SCM435

Roundness :

Part A 0.50 μm





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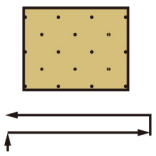
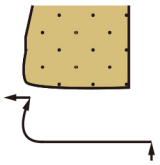
Wheel Dressing Cycle

Plunge Type

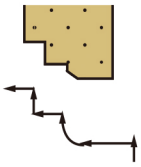
Straight – Parallel



LHS Radius and Concave below

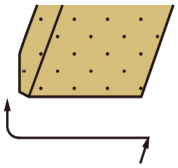


Steps Wheel (option) (Under 15 points)



Angular Type

Wheel with radius



Steps Wheel (option) (Under 15 points)

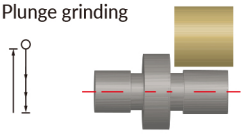
Remarks :

1. Max. 5 types of wheel profile can be saved.
2. Dressing condition can setup rough, intermediate and fine dressing
3. Machine with ID attachment, the dressing operation of ID wheel is manual operated.

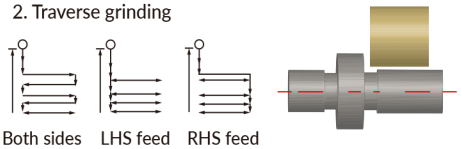
Grinding Cycle

Plunge Type

1. Plunge grinding

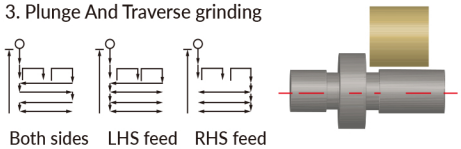


2. Traverse grinding



Both sides feed | LHS feed | RHS feed

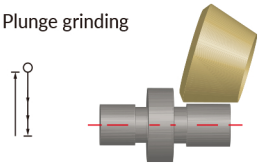
3. Plunge And Traverse grinding



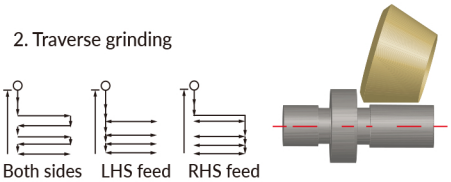
Both sides feed | LHS feed | RHS feed

Angular Type

1. Plunge grinding

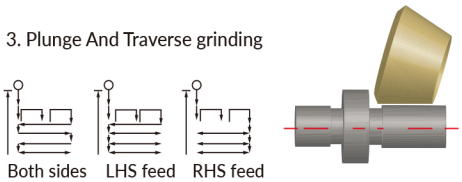


2. Traverse grinding



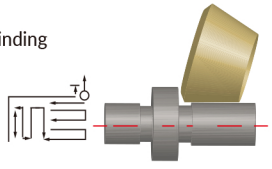
Both sides feed | LHS feed | RHS feed

3. Plunge And Traverse grinding



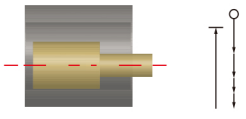
Both sides feed | LHS feed | RHS feed

4. OD +End Face Grinding

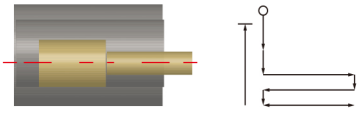


ID Grinding Cycle (using OD Grinding Cycle)

1. Plunge



2. Traverse



Remarks :

1. All cycles can be separated into rough grinding and fine grinding cycles.
2. Plunge type end face grinding can be implemented by manual operation and offsets.
3. ID grinding coordinate display is not the same to the dimension of the workpiece
4. Multiple steps ID grinding can be implemented by manual operation.

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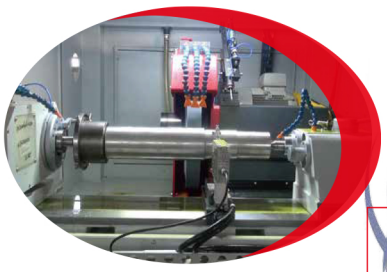
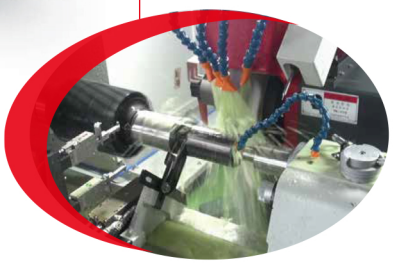
Spindle Shaft
Model: CRG-3802000CNC



Rotor
Model: CRG-320600CNC

Printer Roller
Model: CRG-3802000CNC

Crank Shaft
Model: CRG-320600AW CNC



Gear Box Helical Gear Model:
CRG-320600CNC

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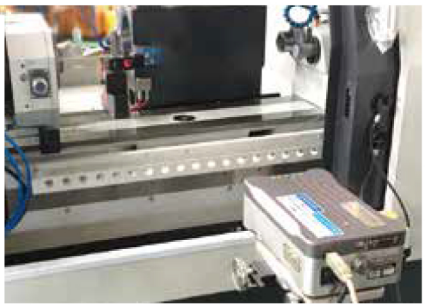
Accumulated inspection time of over 100 hours for each machine produced.

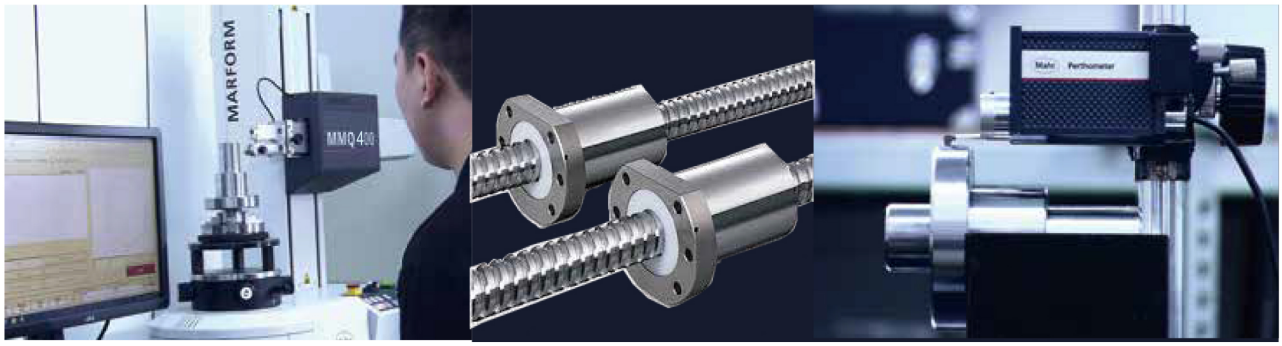
We know how it runs and we know how it is inspected

In-Process Inspections

(Wenzel CMM LH65)



Workpiece Inspections



Mahr cylinder formtester: MMQ400
Mahr Surface Roughness Tester: PERTHOETER M2

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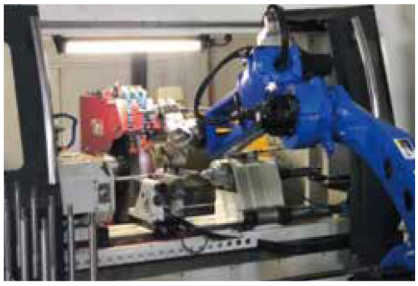
Automation Solutions

Due to our extensive engineering knowledge and vast supplier network, we can provide the best grinding solutions.

1. In Process Gauging/Automation

> General purpose production

2. Standard Automation Systems

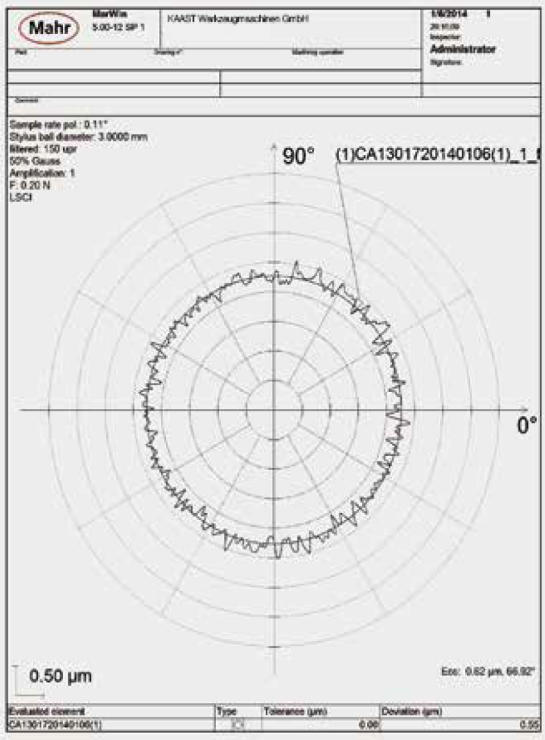


> Load / Unloading solutions
> Gantry Type and 6-axis Robot solution

3. Flexible Automation

> High Production Units
> Offers total solution for customized production process, grinders with the automation system, and turnkey operations.

MAHR MMQ400 Roundness Measurement



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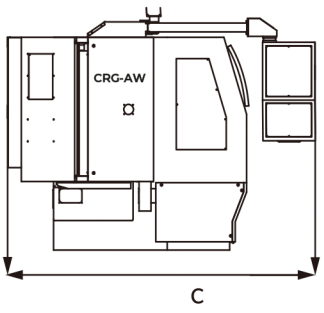
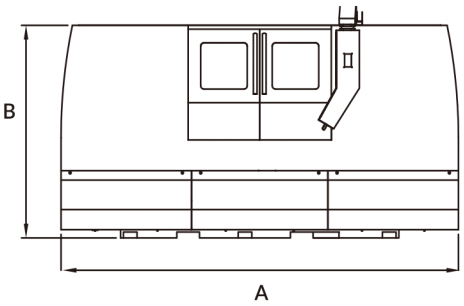
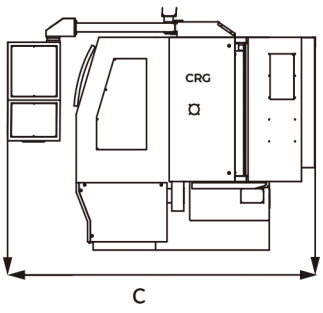
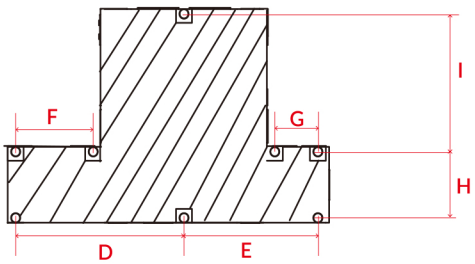
CRG, CRG-AW, CRG-A

Model			CRG 250/500	CRG 320/600	CRG 320/1000	CRG 320/1500	CRG 320/2000	CRG 320/2500	CRG 320/3000	CRG 380/600	CRG 380/1000
Grinding	Swing over table	mm	Ø250	Ø320	Ø320	Ø320	Ø320	Ø320	Ø320	Ø380	Ø380
Capacity	Distance between centers	mm	500	600	1000	1500	2000	2500	3000	600	1000
	Max. grinding daimeter	mm	Ø230	Ø300	Ø300	Ø300	Ø300	Ø300	Ø300	Ø360	Ø360
	Max. load held between center	kg	80	150	150	150	250	250	250	150	150
	Center distance between spindle & slide table	mm	130	162	162	162	162	162	162	192	192
Grinding Wheel	Diameter x Width x Bore	mm	Ø455x50xØ127 (5") Opt.Ø455x50xØ152.4 (6")	Ø510x50-100xØ152.4(6") Opt.Ø510x50 ~ 100xØ203.2(8")						Ø510x50-100xØ152.4(6") Opt.Ø610x50 ~ 100xØ203.2(8")	
	Motor rated power / max. torque	Kw/Nm	3.75kw / 13Nm	7.5kw/49Nm(Opt.11Kw/ 71Nm)						7.5kw/49Nm(Opt.11Kw/ 71Nm)	
	Wheel speed	rpm	1400	1250 (Opt.1650)						1250 (Opt.1650)	
Workhead	Swiveling angle	deg	90	90						90	
	Spindle speed (infinite variable)	rpm	10 ~ 600	10 ~ 600						10 ~ 600	
	Motor rated power / max. torque	kw	0.75	1.5						1.5	
	Center taper	-	MT3(Opt.MT4)	MT4 (Opt. MT5)						MT4 (Opt. MT5)	
	Spindle type	-	Fixed or Rotary	Fixed or Rotary						Fixed or Rotary	
	Diameter of bore	mm	Ø20	Ø23						Ø23	
Tailstock	Quill travel	mm	25	25 (Opt.50/75)						25 (Opt.50/75)	
	Cente taper	-	MT3(Opt.MT4)	MT4 (Opt. MT5)						MT4 (Opt. MT5)	
X Axis	Travel	mm	200	270						270	
	Max. rapid feedrate	m/min	6	6						6	
	Heidenhain linear scale resolution	um	0.05	0.05						0.05	
	Min. increment	mm	0.0001	0.0001						0.0001	
	Servo motor rated power	kw	1.2(F)/1.5(M)	1.8(F)/2.2(M)						1.8(F)/2.2(M)	
Z Axis	Travel	mm	750	850	1250	1850	2450	3050	3650	850	1250
	Swiveling angle	deg	±7	±9	±7	±5	±5	±3	±2	±9	±7
	Max. rapid feedrate	m/min	8	10						10	
	Min. increment	mm	0.0001	0.0001						0.0001	
	Servo motor rated power	kw	1.2(F)/1.5(M)	1.8(F)/2.2(M)		2.5(F)/3.5(M)				1.8(F)/2.2(M)	
Motor	Hydraulic pump	kw	0.38	0.38						0.38	
	Hydrodynamic GW spindle lubrication pump	kw	0.2	0.2						0.2	
	Guide way lubrication pump	kw	0.2	0.2						0.2	
	Coolant pump	kw	0.2	0.2						0.2	
Machine	Net Weight (semi-enclosed splash guard)	kg	3100	5600	5900	6300	6700	7100	7500	5700	6000
	Gross Weight	kg	3800	6400	6700	7100	7500	7900	8300	6500	6800
Artikel-Nr.			3100054	3100053	3100055	3100050	3100051	3100056	3100057	3100058	3100059









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CRG, CRG-AW, CRG-A

			CRG 380/1500	CRG 380/2000	CRG 380/2500	CRG 380/3000	CRG 500/600	CRG 500/1000	CRG 500/1500	CRG 500/2000	CRG 500/2500	CRG 500/3000
Grinding Capacity	Swing over table	mm	Ø380	Ø380	Ø380	Ø380	Ø500	Ø500	Ø500	Ø500	Ø500	Ø500
	Distance between centers	mm	1500	2000	2500	3000	600	1000	1500	2000	2500	3000
	Max. grinding daimeter	mm	Ø360	Ø360	Ø360	Ø360	Ø480	Ø480	Ø480	Ø480	Ø480	Ø480
	Max. load held between center	kg	150	250	250	250	150	150	150	250	250	250
	Center distance between spindle & slide table	mm	192	192	192	192	255	255	255	255	255	255
Grinding Wheel	Diameter x Width x Bore	mm	Ø510x50-100xØ152.4(6") Opt.Ø610x50 ~ 100xØ203.2(8")				Ø510x50-100xØ152.4(6") Opt.Ø610x50 ~ 100xØ203.2(8")					
	Motor rated power / max. torque	Kw/Nm	7.5kw/49Nm(Opt.11Kw/ 71Nm)				7.5kw/49Nm(Opt.11Kw/ 71Nm)					
	Wheel speed	rpm	1250 (Opt.1650)				1250 (Opt.1650)					
Workhead	Swiveling angle	deg	90				90					
	Spindle speed (infinite variable)	rpm	10 ~ 600				10 ~600					
	Motor rated power / max. torque	kw	1.5				1.5					
	Center taper	-	MT4 (Opt. MT5)				MT4 (Opt. MT5)					
	Spindle type	-	Fixed or Rotary				Fixed or Rotary					
	Diameter of bore	mm	Ø23				Ø23					
Tailstock	Quill travel	mm	25 (Opt.50/75)				25 (Opt.50/75)					
	Cente taper	-	MT4 (Opt. MT5)				MT4 (Opt. MT5)					
X Axis	Travel	mm	270				270					
	Max. rapid feedrate	m/min	6				6					
	Heidenhain linear scale resolution	um	0.05				0.05					
	Min. increment	mm	0.0001				0.0001					
	Servo motor rated power	kw	1.8(F)/2.2(M)				1.8(F)/2.2(M)					
Z Axis	Travel	mm	1850	2450	3050	3650	850	1250	1850	2450	3050	3650
	Swiveling angle	deg	±5	±5	±3	±2	±9	±7	±5	±5	±3	±2
	Max. rapid feedrate	m/min	10				10					
	Min. increment	mm	0.0001				0.0001					
	Servo motor rated power	kw	2.5(F)/3.5(M)				1.8(F)/2.2(M) | 2.5(F)/3.5(M)					
Motor	Hydraulic pump	kw	0.38				0.38					
	Hydrodynamic GW spindle lubrication pump	kw	0.2				0.2					
	Guide way lubrication pump	kw	0.2				0.2					
	Coolant pump	kw	0.2				0.2					
Machine	Net Weight (semi-enclosed splash guard)	kg	6400	6800	7200	7600	5800	6100	6500	6900	7300	7700
	Gross Weight	kg	7200	7600	8000	8400	6600	6900	7300	7700	8100	8500
Artikel-Nr.			3100066	3100067	3100068	3100069	3100075	3100076	3100077	3100078	3100079	3100086

CRG	A	B	C	D	E	F	G	H	I
250/500	3125	1810	2300	850	566	309	260	320	860
320/600	3500	1800	2760	1270	1010	585	325	480	1000
320/1000	4300	1800	2760	1670	1410	985	725	480	1000
320/1500	5600	1800	2760	2270	2010	1585	1325	480	1000
320/2000	7055	1800	2850	2890	2630	2205	1945	560	1000
320/2500	8560	1800	2850	3390	3150	2700	2445	560	1000
320/3000	10060	1800	2850	3890	3630	3205	2945	560	1000
380/600	3500	1800	2760	1270	1010	585	385	480	1000
380/1000	4300	1800	2760	1670	1410	985	725	480	1000
380/1500	5600	1800	2760	2270	2010	1325	1585	480	1000
380/2000	7055	1800	2850	2890	2630	1945	2205	560	1000
380/2500	8560	1800	2850	3390	3150	2700	2445	560	1000
380/3000	10060	1800	2850	3890	3630	3205	2945	560	1000
500/600	3500	1800	2760	1270	1010	585	385	480	1000
500/1000	4300	1800	2760	1670	1410	985	725	480	1000
500/1500	5600	1800	2760	2270	2010	1325	1585	480	1000
500/2000	7055	1800	2850	2890	2630	1945	2205	560	1000
500/2500	8560	1800	2850	3390	3150	2700	2445	560	1000
500/3000	10060	1800	2850	3890	3630	3205	2945	560	1000

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CRG, CRG-AW, CRG-A

Model			CRG-AW 250/500	CRG-AW 320/600	CRG-AW 320/1000	CRG-AW 320/1500	CRG-AW 320/2000	CRG-AW 380/600	CRG-AW 380/1000
Grinding Capacity	Swing over table	mm	Ø250	Ø320	Ø320	Ø320	Ø320	Ø380	Ø380
	Distance between centers	mm	500	600	1000	1500	2000	600	1000
	Max. grinding daimeter	mm	Ø230	Ø300	Ø300	Ø300	Ø300	Ø360	Ø360
	Max. grinding length - dresser on workhead side	mm	350	450	850	1350	1850	450	850
	- dresser on tailstock side (Opt.)	mm	500	600	1000	1500	2000	600	1000
	Max. load held between center	kg	80	150	150	150	250	150	150
	Center distance between spindle and slide table	mm	130	162	162	162	162	192	192
Grinding Wheel	Infeed angle	deg	60*	60	60	60	60	60	60
	Diameter x Width x Bore	mm	Ø510x50xØ127 (5")	Ø510x50-100xØ152.4 (6") Opt. Ø510x50～100xØ203.2 (8")				Ø510x50-100xØ152.4 (6") Opt. Ø610x50～100xØ203.2 (8")	
	Motor rated power / max. torque	Kw/Nm	3.75kw / 13Nm	7.5kw/49Nm(Opt.11Kw/ 71Nm)				7.5kw/49Nm(Opt.11Kw/ 71Nm)	
	Wheel speed	rpm	1400	1250 (Opt.1650)				1250 (Opt.1650)	
Workhead	Swiveling angle	deg	90	90				90	
	Spindle speed (infinite variable)	rpm	10～600	10～600				10～600	
	Motor rated power / max. torque	kw	0.75	1.5				1.5	
	Center taper	-	MT3	MT4 (Opt. MT5)				MT4 (Opt. MT5)	
	Spindle type	-	Fixed or Rotary	Fixed or Rotary				Fixed or Rotary	
	Diameter of bore	mm	Ø20	Ø23				Ø23	
Tailstock	Quill travel	mm	25	25 (Opt.50/75)				25 (Opt.50/75)	
	Cente taper	-	MT3	MT4 (Opt. MT5)				MT4 (Opt. MT5)	
X Axis	Travel	mm	200	270				270	
	Max. rapid feedrate	m/min	6	6				6	
	Heidenhain linear scale resolution	um	0.05	0.05				0.05	
	Min. increment	mm	0.0001	0.0001				0.0001	
	Servo motor rated power	kw	1.2(F)/1.5(M)	1.8(F)/2.2(M)				1.8(F)/2.2(M)	
Z Axis	Travel	mm	750	850	1250	1850	2450	850	1250
	Swiveling angle	deg	±7	±9	±7	±5	±5	±9	±7
	Max. rapid feedrate	m/min	8	10				10	
	Min. increment	mm	0.0001	0.0001				0.0001	
	Servo motor rated power	kw	1.2(F)/1.5(M)	1.8(F)/2.2(M) | 2.5(F)/3.5(M)				1.8(F)/2.2(M)	
Motor	Hydraulic pump	kw	0.38	0.38				0.38	
	Hydrodynamic GW spindle lubrication pump	kw	0.2	0.2				0.2	
	Guide way lubrication pump	kw	0.2	0.2				0.2	
	Coolant pump	kw	0.2	0.2				0.2	
Machine	Net Weight (semi-enclosed splash guard)	kg	3100	5600	5800	6300	6700	5600	5800
	Gross Weight	kg	3500	6420	7500	7800	8200	6420	7500
Artikel-Nr.			3100089	3100090	3100091	3100092	3100093	3100094	3100095

Standard Accessories

- Infinite variable workhead w/servo motor
- Diamond Dresser and Stand
- Automatic wheel speed change (15 steps)
- Carbide tip center
- X Axis Heidenhain/Mitsubishi linear scale (resolution 0.05 um)
- Levelling bolts and blocks
- Operation manual and part lists
- Fanuc CNC Controller (0i TF)
- Grinding Wheel + Wheel Flange
- Standard oil cooler (cooling fan)
- Standard coolant tank 140L
- MPG handwheel 2 Axes control
- Touch probe (for EGA series only)
- LED working light
- Tools and Tool Box
- Electricity cabinet w/ heat exchanger
- Semi-enclosed splash guard
- Wheel Extractor
- 4-color indication signal light
- Electrical wiring diagram

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CRG, CRG-AW, CRG-A

Model			CRG-AW 380/1500	CRG-AW 380/2000	CRG-AW 500/600	CRG-AW 500/1000	CRG-AW 500/1500	CRG-AW 500/2000
Grinding	Swing over table	mm	Ø380	Ø380	Ø500	Ø500	Ø500	Ø500
Capacity	Distance between centers	mm	1500	2000	600	1000	1500	2000
	Max. grinding daimeter	mm	Ø360	Ø360	Ø480	Ø480	Ø480	Ø480
	Max. grinding length - dresser on workhead side	mm	1350	1850	450	850	1350	1850
	- dresser on tailstock side (Opt.)	mm	1500	2000	600	1000	1500	2000
	Max. load held between center	kg	150	250	150	150	150	250
	Center distance between spindle and slide table	mm	192	192	255	255	255	255
Grinding	Infeed angle	deg	60	60	60	60	60	60
Wheel	Diameter x Width x Bore	mm	Ø510x50-100xØ152.4 (6")		Ø510x50-100xØ152.4 (6")			
			Opt. Ø610x50～100xØ203.2 (8")		Opt. Ø610x50～100xØ203.2 (8")			
	Motor rated power / max. torque	Kw/Nm	7.5kw/49Nm(Opt.11Kw/ 71Nm)		7.5kw/49Nm(Opt.11Kw/ 71Nm)			
	Wheel speed	rpm	1250 (Opt.1650)		1250 (Opt.1650)			
Workhead	Swiveling angle	deg	90		90			
	Spindle speed (infinite variable)	rpm	10～600		10～600			
	Motor rated power / max. torque	kw	1.5		1.5			
	Center taper	-	MT4 (Opt. MT5)		MT4 (Opt. MT5)			
	Spindle type	-	Fixed or Rotary		Fixed or Rotary			
	Diameter of bore	mm	Ø23		Ø23			
Tailstock	Quill travel	mm	25 (Opt.50/75)		25 (Opt.50/75)			
	Cente taper	-	MT4 (Opt. MT5)		MT4 (Opt. MT5)			
X Axis	Travel	mm	270		270			
	Max. rapid feedrate	m/min	6		6			
	Heidenhain linear scale resolution	um	0.05		0.05			
	Min. increment	mm	0.0001		0.0001			
	Servo motor rated power	kw	1.8(F)/2.2(M)		1.8(F)/2.2(M)			
Z Axis	Travel	mm	1850	2450	850	1250	1850	2450
	Swiveling angle	deg	±5	±5	±9	±7	±5	±5
	Max. rapid feedrate	m/min	10		10			
	Min. increment	mm	0.0001		0.0001			
	Servo motor rated power	kw	2.5(F)/3.5(M)		1.8(F)/2.2(M)|2.5(F)/3.5(M)			
Motor	Hydraulic pump	kw	0.38		0.38			
	Hydrodynamic GW spindle lubrication pump	kw	0.2		0.2			
	Guide way lubrication pump	kw	0.2		0.2			
	Coolant pump	kw	0.2		0.2			
Machine	Net Weight (semi-enclosed splash guard)	kg	6300	6700	5600	5800	6300	6700
	Gross Weight	kg	7800	8200	6420	7500	7800	8200
Artikel-Nr.			3100094	3100095	3100096	3100097	3100098	3100099

Optional Accessories

BS VM25 Integration system
(OD gauging+ crash & gap control + dynamic balance system)
BS VM15 Integration system
(OD gauging+ crash & gap control)
Hydraulic tailstock (w/ foot pedal)
Z Axis Heidenhain/Mitsubishi linear scale (resolution 0.05 um)
Manual grinding wheel balance system (vibrator)
Grinding wheel dynamic balance system
Wheel spindle lubrication oil cooler for hydrodynamic spindle
Gap & crash control device
Safety door lock
Workhead spindle adjustment arbor
Auto gauging device
Coolant system with magnetic separator & paper filter
Coolant system with magnetic separator
Coolant system with paper filter
Oil & mist collecting system
Spare grinding wheel flange
Full-Carbide center tip

FANUC 0i-TF iGrind program
Mitsubishi controller (M80) iGrind program
Electrical cabinet air conditioner
Interanl grinding attachment (for EGP series only)
Workhead upgrade to MT5 (not suitable for 25 ser
Tailstock upgrade to MT5 (not suitable for 25 serie
Roller type balancing stand/ arbor
Automatic 3-jaw hydraulic chuck
CE standard electrical cabinet
Touch probe
Transformer
Workpiece carrier
Full-enclosed splash guard
Workpiece supporting seat, 2pc / set
2 Point Steady Rest
3-point steady rest
3-jaw scroll chuck
4-jaw scroll chuck

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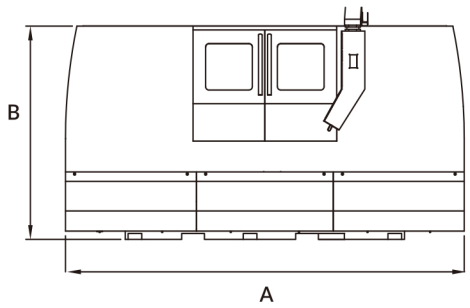
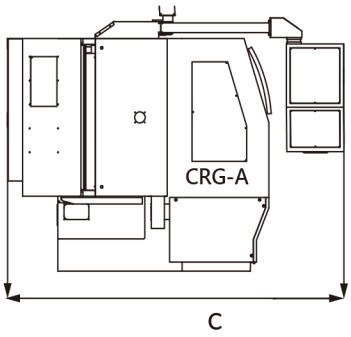
CRG, CRG-AW, CRG-A

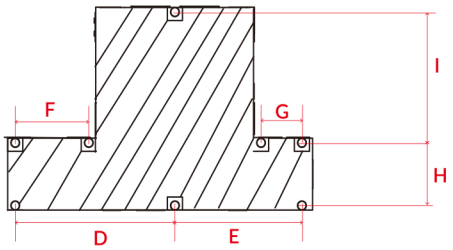
Model			CRG 380/600A	CRG 380/1000A	CRG 380/1500A	CRG 380/2000A	CRG 500/600A	CRG 500/1000A	CRG 500/1500A	CRG 500/2000A
Grinding	Swing over table	mm	Ø380	Ø380	Ø380	Ø380	Ø500	Ø500	Ø500	Ø500
Capacity	Distance between centers	mm	600	1000	1500	2000	600	1000	1500	2000
	Max. grinding diameter	mm	Ø360	Ø360	Ø360	Ø360	Ø480	Ø480	Ø480	Ø480
	Max. load held between center	kg	150	150	150	250	150	150	150	250
	Center distance between spindle & slide table	mm	192	192	192	192	255	255	255	255
Grinding Wheel	Diameter x Width x Bore	mm	Ø510x50-100xØ152.4(6")				Ø510x50-100xØ152.4(6") Opt.Ø610x50 ~ 80xØ152.4(6")			
	Motor rated power / max. torque	Kw/Nm	7.5kw/49Nm(Opt.11Kw/ 71Nm)				7.5kw/49Nm(Opt.11Kw/ 71Nm)			
	Wheel speed	rpm	1250 (Opt.1650)				1250 (Opt.1650)			
Workhead	Swiveling angle	deg	90				90			
	Spindle speed (infinite variable)	rpm	10 ~ 600				10 ~600			
	Motor rated power / max. torque	kw	1.5				1.5			
	Center taper	-	MT4 (Opt. MT5)				MT4 (Opt. MT5)			
	Spindle type	-	Fixed or Rotary				Fixed or Rotary			
	Diameter of bore	mm	Ø23				Ø23			
Tailstock	Quill travel	mm	25 (Opt.50/75)				25 (Opt.50/75)			
	Center taper	-	MT4 (Opt. MT5)				MT4 (Opt. MT5)			
X Axis	Travel	mm	270				270			
	Max. rapid feedrate	m/min	6				6			
	Heidenhain linear scale resolution	um	0.05				0.05			
	Min. increment	mm	0.0001				0.0001			
	Servo motor rated power	kw	1.8(F)/2.2(M)				1.8(F)/2.2(M)			
Z Axis	Travel	mm	850	1250	1850	2450	850	1250	1850	2450
	Swiveling angle	deg	±9	±7	±5	±5	±9	±7	±5	±5
	Max. rapid feedrate	m/min	10				10			
	Min. increment	mm	0.0001				0.0001			
	Servo motor rated power	kw	1.8(F)/2.2(M) | 2.5(F)/3.5(M)				1.8(F)/2.2(M) | 2.5(F)/3.5(M)			
Motor	Hydraulic pump	kw	0.38				0.38			
	Hydrodynamic GW spindle lubrication pump	kw	0.2				0.2			
	Guide way lubrication pump	kw	0.2				0.2			
	Coolant pump	kw	0.2				0.2			
Machine	Net Weight (semi-enclosed splash guard)	kg	5700	6000	6400	6800	5800	6100	6500	6900
	Gross Weight	kg	6500	6800	7200	7600	6600	6900	7300	7700
Artikel-Nr.			3100109	3100110	3100111	3100112	3100113	3100114	3100115	3100116

Measurement





CRG-A	A	B	C	D	E	F	G	H	I
380/600	3500	1800	2760	1270	1010	585	385	480	1000
380/1000	4300	1800	2760	1670	1410	985	725	480	1000
380/1500	5600	1800	2760	2270	2010	1325	1585	480	1000
380/2000	7055	1800	2850	2890	2630	1945	2205	560	1000
500/600	3500	1800	2760	1270	1010	585	385	480	1000
500/1000	4300	1800	2760	1670	1410	985	725	480	1000
500/1500	5600	1800	2760	2270	2010	1325	1585	480	1000
500/2000	7055	1800	2850	2890	2630	1945	2205	560	1000



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