



WEIJING®

Casting Grinder



SUZHOU WEIJING AUTOMATION CO., LTD

WEIJING >>>

WEIJING AUTOMATION, established in 2008, is a foundry machine manufacturer dedicating to provide professional machines, services and solutions with premium quality and competitive price for global foundries.

WEIJING has two premises. One is in Suzhou, another is in Jining. Total area is up to 9000 SQM.

WEIJING foundry machines covers degating wedge, runner cutter/breaker, degating hammer, CNC grinding machine, Auto tilting pouring machine and Auto molten metal transferring machine.

By end of 2023, WEIJING has delivered 1007 wedge breakers, 47 runner cutters, 196 air hammers, 131 auto grinding machines, 61 tilting pouring machines to foundries worldwide. And WEIJING foundry customers already covers 25 countries.

Positive action, honest communicating, transparent collaboration, is WEIJING Conduct Code.

WEIJING people firmly believe from the heart THE MATCHED IS THE BEST.

Patents >>>



Certificates >>>



Suzhou premises



Jining premises



WEIJING®

Auto Grinding Machine

2 axis grinding machine customized to debur round parts



CNC grinding machine with loading capacity from 20 kg to 200 kg





WEIJING®

2 Axis Grinder for Round Castings



Introduction

Weijing 2 axis grinding machine with 2 grinding stations is designed to fettle the ingates, parting lines and flashes on the round surface of round castings.

Grinding sparks are covered for better safety.

Diamond wheel saves time cost of grinding wheel replacement.

Repeatable grinding accuracy is controlled by 4 position sensors.

Safer, faster, more repeatable and controllable than manual grinding.

Casting requirements

Material: iron castings

Shape: round castings

Casting Diameter: 95-380 mm

Casting Height < 170 mm, grinding areas/parting lines height < 70 mm

Casting Weight: < 30 Kg

Gate areas: up to 1000 mm² (could be removed once by two grinding station in total)

Typical examples: brake disc castings, auto flywheel casting

If your casting diameter is down to 80 mm or up to 460 mm, please tell Weijing in advance, Weijing can customise the machine for you without any extra cost.

GV120



Items	Parameters
Casting size requirements	Turning radius: up to 175 mm, Part height: up to 200 mm
Casting weight requirements	Part weight: up to 20 KG Total loading capacity is up to 25 kg
Big grinding wheel size	Diamond wheel $\Phi 305 \times T12 \times \Phi 80$
Big grinding wheel driving motor	3.7 KW (AC servomotor drive)
Small grinding wheel driving motor	3.5 KW high speed
Big wheel tilting angle up to	105° (NC control drive)
Axis quantity of NC control driving motor	6 axes AC servo
Total power capacity	14 KVA
Machine size	L2141*W1864*H2340 mm
Machine weight	2085 KG
Features & benefits	1, suitable to fettle small size parts. 2, complete CNC programming system and manual teaching mode, quite easy to learn and operate. 3, one people can operate two machines to improve productivity.

GV130



Items	Parameters
Casting size requirements	Turning radius: up to 250 mm, Part height: up to 250 mm
Casting weight requirements	Part weight: up to 30 KG Total loading capacity up to 40 KG
Big grinding wheel size	Diamond wheel $\Phi 355 \times T12 \times \Phi 80$
Big grinding wheel driving motor	5.5 KW (AC servomotor drive)
Small grinding wheel driving motor	3.5 KW high speed
Big wheel tilting angle up to	120° (NC control drive)
Axis quantity of NC control driving motor	6 axes AC servo
Total power capacity	17 KVA
Machine size	L2555*W2120*H2588 mm
Machine weight	2554 KG
Features & benefits	1, suitable to fettle middle size parts. 2, complete CNC programing system and manual teaching mode, quite easy to learn and operate. 3, one people can operate two machines to improve productivity.

GV230



Items	Parameters
Casting size requirements	Turning radius: up to 250 mm, Part height: up to 300 mm
Casting weight requirements	Part weight: up to 30 KG Total loading capacity up to 40 KG
Big grinding wheel size	Diamond wheel $\Phi 355 \times T12 \times \Phi 80$
Big grinding wheel driving motor	7.5 KW (AC servomotor drive)
Small grinding wheel driving motor	3.5 KW high speed
Big wheel tilting angle up to	120° (NC control drive)
Axis quantity of NC control driving motor	7 axes AC servo
Total power capacity	21 KVA
Machine size	L3030*W2122*H2545 mm
Machine weight	3840 KG
Features & benefits	1, suitable to fettle middle size parts. 2, complete CNC programing system and manual teaching mode, quite easy to learn and operate. 3, AB two pallets could be used for fettling two different parts.

Notes: for ensuring the absolutely right machine for you, please send 3D drawings of your parts to WEIJING for double checking first. Thanks for your cooperation.
Since WEIJING continues improving the machine, so the final you receive could be different with on this brochure, but definitely it will be better.



WEIJING®

CNC Grinding Machine

GV270



Items	Parameters
Casting size requirements	Turning radius: up to 350 mm, Part height: up to 400 mm
Casting weight requirements	Part weight: up to 70 Kg Total loading capacity up to 90kg
Big grinding wheel size	Diamond wheel $\Phi 405 \times T12 \times \Phi 80$
Big grinding wheel driving motor	7.5 KW (AC servomotor drive)
Small grinding wheel driving motor	6 KW high speed
Big wheel tilting angle up to	120° (NC control drive)
Axis quantity of NC control driving motor	7 axes AC servo
Total power capacity	31 KVA
Machine size	L3948*W2223*H2953 mm
Machine weight	6210 KG
Features & benefits	1, suitable to fettle big size parts. 2, complete CNC programing system and manual teaching mode, quite easy to learn and operate. 3, AB two pallets could be used for fettling two different parts. 4, equipped with hoisting to move heavy parts for workload saving and high productivity.

GV2100



Items	Parameters
Casting size requirements	Turning radius: up to 500 mm Part height: up to 400 mm
Casting weight requirements	Part weight: up to 100 kg Total loading capacity up to 120kg
Big grinding wheel size	Diamond wheel $\Phi 355 \times T12 \times \Phi 80$
Big grinding wheel driving motor	7.5 KW (AC servomotor drive)
Small grinding wheel driving motor	6 KW high speed
Big wheel tilting angle up to	120° (NC control drive)
Axis quantity of NC control driving motor	7 axis AC servo
Total power capacity	31 KVA
Machine size	L4528*W2920*H2922 mm
Machine weight	6420 KG
Features & benefits	1, suitable to fettle big size parts. 2, complete CNC programing system and manual teaching mode, quite easy to learn and operate 3, AB two pallets could be used for fettling two different parts. 4, equipped with hoisting to move heavy parts for workload saving and high productivity.

GH160



Items	Parameters
Casting size requirements	Turning radius: up to 300 mm, Part height: up to 300 mm
Casting weight requirements	Part weight: up to 150 KG Total loading capacity up to 200 KG
Big grinding wheel size	Diamond wheel $\Phi 355 \times T12 \times \Phi 80$
Big grinding wheel driving motor	9.6 KW (AC servomotor drive)
Small grinding wheel driving motor	3.5 KW high speed
Big wheel tilting angle up to	180° (NC control drive)
Axis quantity of NC control driving motor	6 axes AC servo
Total power capacity	28 KVA
Machine size	W3690*D3070*H2530 mm
Machine weight	8500 KG
Features & benefits	1, horizontal bed born for heavy grinding work. 2, complete CNC programing system and manual teaching mode, quite easy to learn and operate. 3, equipped with hoisting to move heavy parts for workload saving and high productivity.

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GH260



Items	Parameters
Casting size requirements	Turning radius: up to 300 mm Part height: up to 300 mm
Casting weight requirements	Part weight: up to 150 KG Total loading capacity up to 200 KG
Big grinding wheel size	Diamond wheel $\Phi 355 \times T12 \times \Phi 80$
Big grinding wheel driving motor	9.6 KW (AC servomotor drive)
Small grinding wheel driving motor	3.5 KW high speed
Big wheel tilting angle up to	180° (NC control drive)
Axis quantity of NC control driving motor	7 axes AC servo
Total power capacity	33 KVA
Machine size	W3210*D2440*H2800 mm
Machine weight	9600 KG
Features & benefits	1, horizontal bed born for heavy grinding work. 2, complete CNC programing system and manual teaching mode, quite easy to learn and operate. 3, equipped with hoisting to move heavy parts for workload saving and high productivity.

GR275



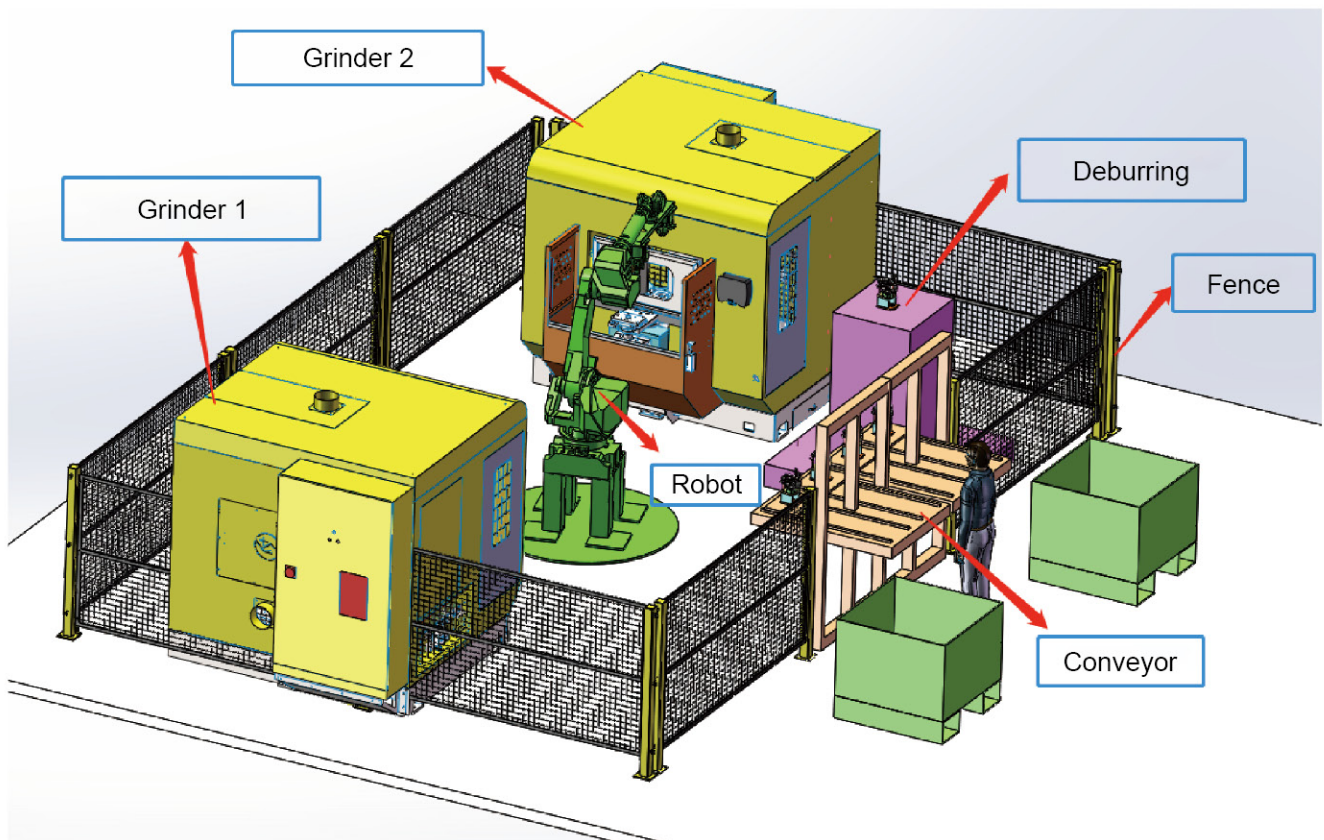
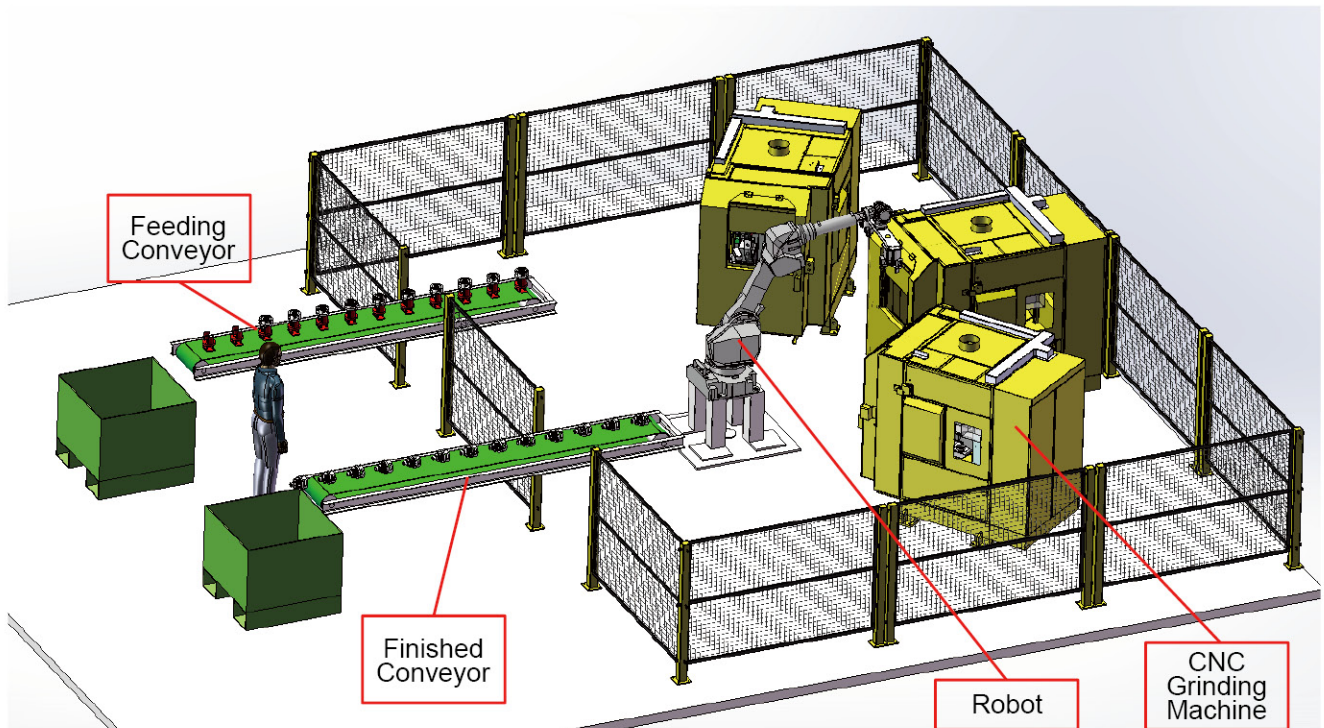
Items	Parameters
Casting size requirements	Turning radius: up to 375 mm Part height: up to 550 mm
Casting weight requirements	Part weight: up to 150 KG Total loading capacity up to 200 KG
Big grinding wheel size	Diamond wheel $\Phi 305 \times T12 \times \Phi 80$
Big grinding wheel driving motor	7.5 KW (AC servomotor drive)
Small grinding wheel driving motor	4 KW high speed
Repeated Accuracy	± 0.02
Axis quantity of NC control driving motor	8 axes AC servo
Total power capacity	36 KVA
Machine size	W2800*D1850*H2800 mm
Machine weight	5500 kg
Features & benefits	1, robot carrying tools, part on rotating fixture, born for best flexibility. 2, complete CNC programing system and manual teaching mode, quite easy to learn and operate. 3, equipped with hoisting to move heavy parts for workload saving and high productivity.

GR360



Items	Parameters
Casting size requirements	Turning radius: up to 300 mm Part height: up to 350 mm
Casting weight requirements	Part weight: up to 100 KG Total loading capacity up to 150 KG
Big grinding wheel size	Diamond wheel $\Phi 355 \times T12 \times \Phi 80$
Big grinding wheel driving motor	7.5 KW (AC servomotor drive)
Small grinding wheel driving motor	4 KW high speed
Repeated Accuracy	± 0.02
Axis quantity of NC control driving motor	14 axes AC servo
Total power capacity	55 KVA
Machine size	W4600*D3000*H2800 mm
Machine weight	7800 KG
Features & benefits	1, robot carrying tools, part on rotating fixture, born for best flexibility. 2, complete CNC programing system and manual teaching mode, quite easy to learn and operate. 3, equipped with hoisting to move heavy parts for workload saving and high productivity.

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Unique features:

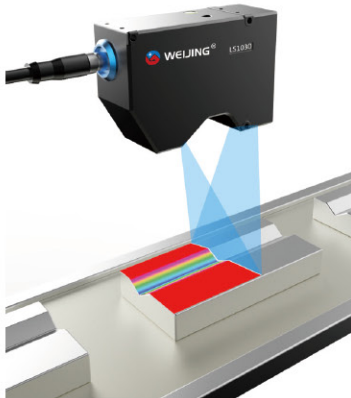
- 1, customized complete CNC programming system, easy to learn, quick to program and modify.
- 2, two physical operation panels avoid wrong operations maximumly, comparing to small touch screens, increase uttermost accurate.
- 3, MST shortcut keys help the operator to program high efficiently.
- 4, 3 ways of programming.

This system supports teaching programming, manual programming, and software programming.

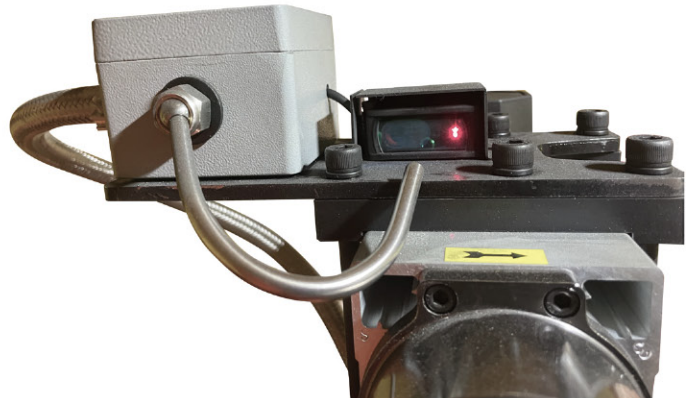
Teaching programming includes features such as rapid positioning, linear feed, and three-point circular mode. Users are guided through the interface and prompted to manually or manually move to the target position. Point coordinates are directly inserted to generate rapid movement, straight line, circular arc, and other machining programs, making it convenient for users to quickly machine without the need to learn G code, saving programming time.

Manual programming methods include programming for machining centers, CNC lathes, etc., which are easy to understand and use, and support macro programming, etc.

Software programming supports UG, Power Mill, caxa, mastercam, etc.



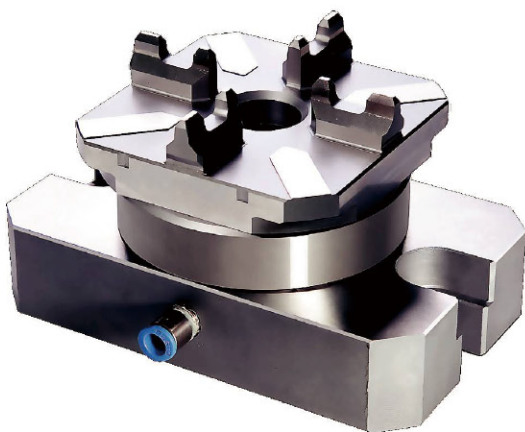
Camera



Laser



Rotator



Air Fixture



Tools

Brake Disc Grinding Machine

- This automatic grinding machine is customized to grinding brake discs
- More suitable to grinding riser's stubs of auto brake discs
- The brake discs could be inspected and packaged automatically after grinding. All could be customized based on requirements



Two Grinding Station Machine



Weijing Grinding machine can work with manipulator together via receiving signal from manipulator. During the whole grinding process, casting could be pressed, be rotated, be fed to be grinded automatically. Casting could be fed by manipulator, replacing manual operation. It could save lot of workload, increase safety and could be helpful to improve the quality of next process at foundries.

WEIJING GRINDING MACHINE, YOUR WISE CHOICE



Suzhou Weijing Automation Co., Ltd

Address: Building 9th, No. 156, Xinyang Avenue, Chuangjin
Industrial Park, Changshu, Suzhou, China

Tel: +86 0512- 5153 7059

Fax: +86 0512- 5153 7059

Mobile: +86 153 0612 4775

E-mail: roc.hang@weijingsz.com

Website: www.weijingsz.com



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