



FETTLING AUTOMATION[®]

Casting Grinder



www.fettlingautomation.com



Introduction

Weijing 2 axis grinding machine with 2 grinding station 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: 95-380mm

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

Casting Weight: <30kg

Gate areas: up to 1000 sqmm (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 80mm or up to 400mm, 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 175mm Part height: up to 200mm
Casting weight requirements	Part weight: up to 20 kg (Total loading capacity is up to 25 kg)
Big / small grinding wheel driving motor	3.7KW(AC servomotor drive) / 3.5KW high speed
Big wheel tilt angle up to	105° (NC control drive)
Axis quantity of NC control driving motor	6 axes AC servo
Total power capacity	14KVA
Machine size/weight	L2141 W1864 H2340mm / 2085KG
Features & benefits	1. Suitable to fettle small 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 250mm Part height: up to 300mm
Casting weight requirements	Part weight: up to 30 kg (Total loading capacity is up to 40 kg)
Big / small grinding wheel driving motor	7.5KW(AC servomotor drive) / 3.5KW highspeed
Big wheel tilt angle up to	120° (NC control drive)
Axis quantity of NC control driving motor	7 axes AC servo
Total power capacity	21KVA
Machine size/weight	L3030 W2122 H2545mm / 3840KG
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.

GV270



Items	Parameters
Casting size requirements	Turning radius: up to 350mm Part height: up to 400mm
Casting weight requirements	Part weight: up to 70 kg (Total loading capacity is up to 90 kg)
Big / small grinding wheel driving motor	7.5KW(AC servomotor drive) / 6KW highspeed
Big wheel tilt angle up to	120° (NC control drive)
Axis quantity of NC control driving motor	7 axes AC servo
Total power capacity	31KVA
Machine size/weight	L3948 W2223 H2953mm / 6210KG
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 500mm Part height: up to 400mm
Casting weight requirements	Part weight: up to 100 kg (Total loading capacity is up to 120 kg)
Big / small grinding wheel driving motor	7.5KW(AC servomotor drive) / 6KW highspeed
Big wheel tilt angle up to	120° (NC control drive)
Axis quantity of NC control driving motor	7 axes AC servo
Total power capacity	31KVA
Machine size/weight	L4528 W2590 H2922mm / 6240KG
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 300mm Part height: up to 300mm
Casting weight requirements	Part weight: up to 150 kg (Total loading capacity is up to 200 kg)
Big / small grinding wheel driving motor	9.6KW(AC servomotor drive) / 3.5KW highspeed
Big wheel tilt angle up to	180° (NC control drive)
Axis quantity of NC control driving motor	6 axes AC servo
Total power capacity	28KVA
Machine size/weight	L3690 W3070 H2530mm / 8500KG
Features & benefits	1. Stable machine center base, quite suitable for heavy fettling 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

GH260



Items	Parameters
Casting size requirements	Turning radius: up to 300mm Part height: up to 300mm
Casting weight requirements	Part weight: up to 150 kg (Total loading capacity is up to 200 kg)
Big / small grinding wheel driving motor	9.6KW(AC servomotor drive) / 3.5KW highspeed
Big wheel tilt angle up to	180° (NC control drive)
Axis quantity of NC control driving motor	6 axes AC servo
Total power capacity	33KVA
Machine size/weight	L3210 W2440 H2800mm / 9600KG
Features & benefits	1. Stable machine center base, quite suitable for heavy fettling 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



Model	Impacting power (Joules)	Neck-down (∅ diameter)	Riser Height (mm)	Net Weight (KG)
QC65	500	35mm / 1.37"	90	95
QC85	900	55mm / 2.16"	140	160
QC135	1800	85mm / 3.34"	260	345
QC155	3000	110mm / 4.33"	300	600
QC195	4000	130mm / 5.11"	350	815
QC295	6000	160mm / 6.29"	450	1520
QC295P	8500	180mm / 7.08"	480	1700
QC355	9500	210mm / 8.26"	480	2250
QC431	18000	250mm / 9.84"	610	2740
QC499	28000	350mm / 13.77"	680	6300



Vertical Wedge



Horizontal Wedge



Runner Cutter



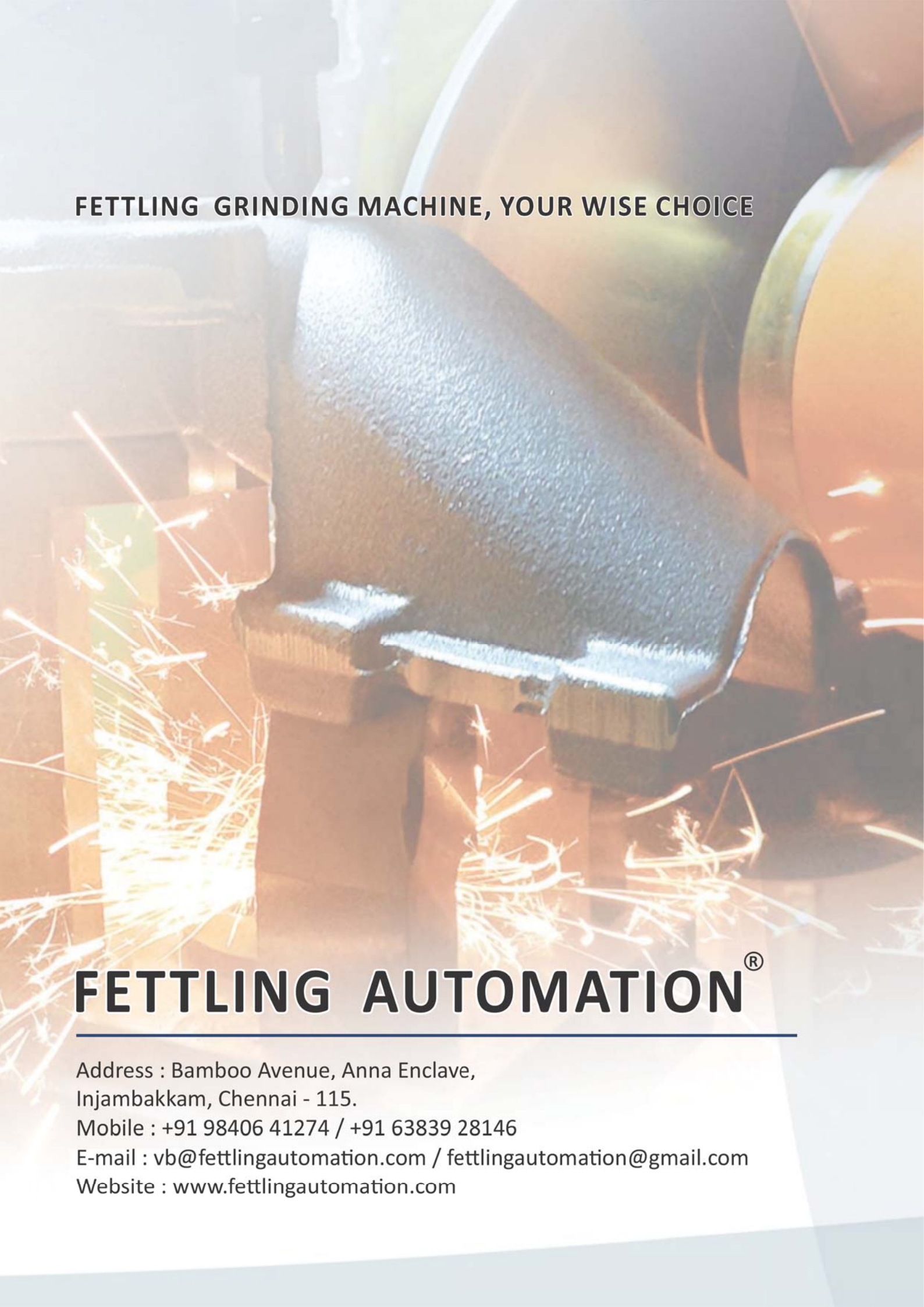
Sleeve Breaker

Model of WL Type	Force (T)	Section Area (mm*mm)	Weight (KG)	Wedge Dimensions : mm				
				L	A	B	C	D
GT40-WL	9T	15*15	13	380	50	10/14	48	34/40
GT55-WL	16T	35*40	27	495	75	12/24	71	53/65
GT65-WL	25T	55*60	30	499	75	12/24	71	52/63
GT80-WL	35T	60*65	43	584	75	21/24	71	59/62

Model of FL Type	Force (T)	Section Area (mm*mm)	Weight (KG)	Wedge Dimensions : mm				
				L	A	B	C	D
GT40-FL-T	9T	15*15	15	700	50	10/14	48	34/40
GT45-FL	12T	20*30	29	830	69	18	52	43
GT55-FL	16T	35*40	32	840	69	28	62	52
GT55-FL-T	16T	35*40	32	788	75	12/24	71	53/65
GT65-FL-T	25T	55*60	35	801	75	12/24	71	52/63

Model of FLT Type	Force (T)	Section Area (mm*mm)	Weight (KG)	Wedge Dimensions : mm				
				L	A	B	C	D
GT55-RH+	16T	35*40	39	729	50	21	64	41
GT63-RH+	20T	50*55	25	513	50	19	60	39
GT80-RH+	35T	60*65	38	751	40	14	66	34

Type	Force (T)	Maximal runner size (Ø)	Circle time	Weight (KG)	Cutter Dimensions	Remarks
RC1650	16T	Ø40	12/min	55	725*378*390	For straight bars
RC1660	16T	Ø40	12/min	55	735*378*390	For curved bars
RC2580	25T	Ø40	8/min	66	767*683*428	



FETTLING GRINDING MACHINE, YOUR WISE CHOICE

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