DOOYOUNG ENG CO., LTD.



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GREETINGS

Since est. 1990,

DooYoung Engineering has been a leading supplier of foundry specialized engineering, machineries and environmental related facilities in Korea.

DooYoung ENG is pursuing developing leading technologies and researching for new products in such field.

Now we are proudly introducing Casting Burring M/C, Casting Transport or Scrap Iron Transport System, Dust Disposal Systems and other product in Foundry businesses, and Global Markets.

DooYoung ENG will promise to the customers to meet their needs and requirements with our products.

And DooYoung ENG will move forward with innovative and creative sprit at all the time for our customer's needs.

Thank You



1990. 03.	Est. DooYoung Foundry Engineering
1995. 05.	Renamed DooYoung as company's name
2004. 10.	Start the DooYoung ENG CO., LTD.
2005. 06.	Registered Air Pollution Prevention Business
2005. 05.	Patent registered - Return Scrap Transport System
2005. 05.	Patent registered – Weigh Censored Turn Table system
2005. 04.	Patent registered - Dust Disposal System
2005. 04.	Patent registered - Furnace Dust Collecting Hood
2006. 09.	Patent registered – Foundry Sand Recycling System
2008. 11.	ISO 14001:2004 / KS A 14001:2004 Certified
2008. 06.	Venture Company Recognized
2008.05.	Innovative Small Company (INNO-BIZ) Selected
2008. 03.	Research Department Certified
2008.01.	Patent registered - Furnace Slag Removal Device
2012. 01.	Acquired Grinding Machine Technical Divisions
2012. 02.	Developed SPINDLE MOTOR (KD-62 MODEL)
2012. 10.	Developed AUTO BURRING M/C (KD-62 MODEL)
2013. 01.	Developed AUTO BURRING M/C (KD-70 MODEL)
2013. 02.	Developed AUTO GANTRY LINE
2013. 06.	Developed AUTO ROTOR GRIND & AUTO STOCKER LINE (ROBOT)
2013. 12.	Achieved 5 Million US\$ export foundry project to USA
2014. 11.	Achieved 5 Million US\$ export foundry project to India



KD-62 AUTO BURRING M/C & Aluminum Die Casting

Features

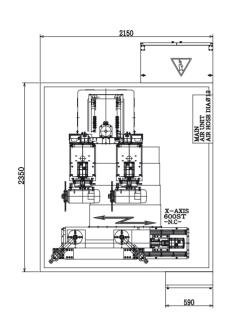
This KD-62 AUTO BURRING M/C equipped with six – axis rotating high speed diamond wheel and the grinding tools.

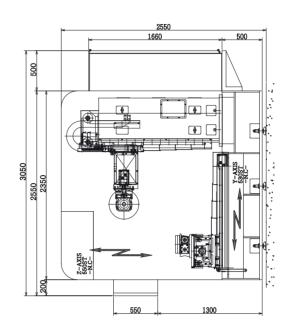
The spindle head can rotate to remove complex features and grind burs that are inside of castings





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Specifications		Unit	KD-62	Remark
Table				
Max. Travel	X-Axis	mm	600	
	Y-Axis	mm	530	
	Z-Axis	mm	550	
	A-Axis	mm	0 ° ~360 °	
	B-Axis	mm	0 ° ~360 °	
	C-Axis	mm	0 ° ~360 °	
	X-Axis	mm/min	0~30000	
	Y-Axis	mm/min	0~30000	
Davis Constant	Z-Axis	mm/min	0~15000	
Power Speed	A-Axis	sec/rev	1.6 sec/rev	80 : 1
	B-Axis	sec/rev	3.2 sec/rev	161 : 1
	C-Axis	sec/rev	3.2 sec/rev	161 : 1
Main Spindl	е			
0 : 11 0 1		rnno	0.400	50Hz
Spindle Spe	ea	rpm	3600	60Hz
Motor				
Main Spindle Motor		kw	11 or 15	
Tool			Diamond Wheel	
	X-Axis	kw	1.48 (NC-Siemens)	
	Y-Axis	kw	2.29 (NC-Siemens)	
	Z-Axis	kw	2.14 (NC-Siemens)	
Feed Motor	A-Axis	kw	0.82 (NC-Siemens)	80 : 1
	B-Axis	kw	1.48 (NC-Siemens)	161 : 1
	C-Axis	kw	1.48 (NC-Siemens)	161 : 1
Floor Space (W × L)		mm	2200 × 3050	
Net Weight		kg	8000	



KD-70 AUTO BURRING M/C

Features

This KD-70 AUTO BURRING M/C equipped with seven - axis rotating high speed diamond wheel and the grinding tools.

The spindle head can rotate, and the Index can be set up individually to work for more complex shapes and features of grinding burs that are inside of castings.



SPINDLE



Bed Plate





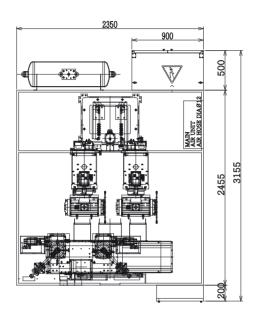


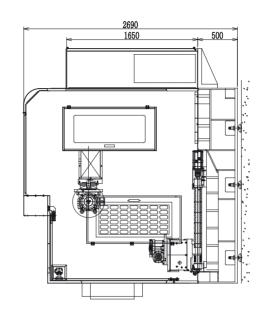






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Specifications		Unit	KD-70	Remark
Table				
	X-Axis	mm	600	
	Y-Axis	mm	530	
M T 1	Z-Axis	mm	550	
Max. Travel	A-Axis	mm	0 ° ~360 °	2-Axis
	B-Axis	mm	0 ° ~360 °	
	C-Axis	mm	0 ° ~360 °	
	X-Axis	mm/min	0~30000	
	Y-Axis	mm/min	0~30000	
Dawer Creed	Z-Axis	mm/min	0~15000	
Power Speed	A-Axis	sec/rev	1.6 sec/rev	80 : 1
	B-Axis	sec/rev	3.42 sec/rev	171 : 1
	C-Axis	sec/rev	3.42 sec/rev	171 : 1
Main Spindl	е			
Spindle Speed		rpm	3600	50Hz
Spiriale Spec		I pili	3000	60Hz
Motor				
Main Spindle Motor		kw	15 or 22	
Tool			Diamond Wheel	
	X-Axis	kw	2.29 (NC-Siemens)	
	Y-Axis	kw	2.29 (NC-Siemens)	
Food Motor	Z-Axis	kw	3.3 (NC-Siemens)	
Feed Motor	A-Axis	kw	0.82 (NC-Siemens)	80 : 1
	B-Axis	kw	1.48 (NC-Siemens)	171 : 1
	C-Axis	kw	1.48 (NC-Siemens)	171 : 1
Floor Space (W × L)		mm	2350 × 3155	
Net Weight		kg	8500	



GANTRY LOADER LINE FOR AUTO BURRING MACHINE

Features

This line set up is for Auto Supply system of casting for 2 or more Auto Burring machines.

This line set up reduces the intensity of labor and chance accident occurred by the workers in the job site.

Also this system will boost up the productivity of the casting grinding line.



GLIPPER (Crank Shaft)



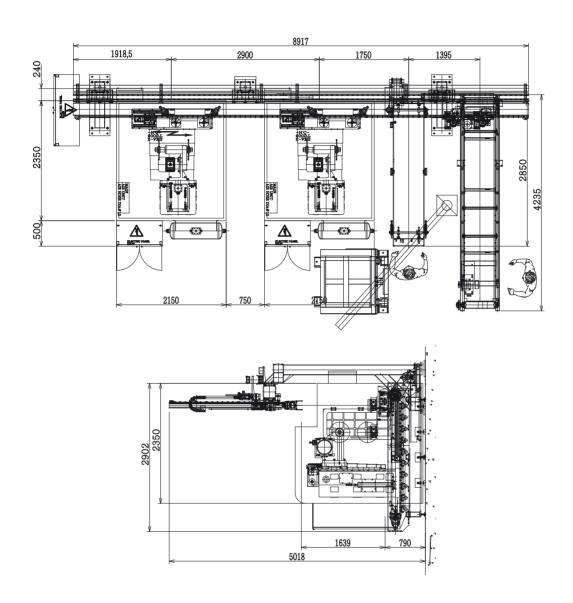
GLIPPER (Engine Block)



GLIPPER (Diff Case)



MAIN PRODUCTS (Dedicated Line)



MODEL: KD-62, KD-70 AUTO BURRING MACHINE

MODEL : KD-62, KD	- 10 A010 BC	JRRING MACE	TINE	
Specificatio	ins	Unit	GANTRY	Remark
Table				
	Y-Axis	mm	3000~10000	
Max. Travel	Z 1-Axis	mm	1500~2500	
	Z 2-Axis	mm	1500~2500	
Power Speed	Y-Axis	mm/min	0~70000	
	Z 1-Axis	mm/min	0~120000	
	Z 2-Axis	mm/min	0~120000	
Motor				
	Y-Axis	kw	1.5 (Servo)	
Feed Motor	Z 1-Axis	kw	1.5 (Servo)	
	Z 2-Axis	kw	1.5 (Servo)	
Floor Space (W × L)		mm		
Net Weight		kg	5000	



KDPHS-80 TRIMMING PRESS

Features

This Bur removing press is patent registered;

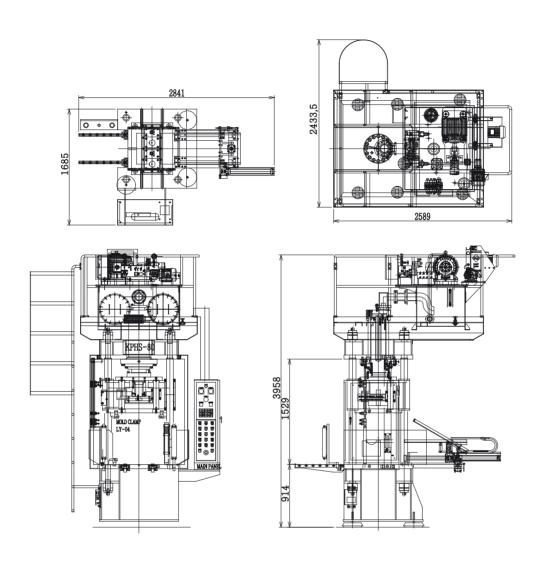
it will remove various parts of BURs on one casting at once.

The press has capacity of 80tons depending on the type of the castings.









NO	Item		Specifications	Remark
1	Model		KDPHS-80	
2	Cap	acity	80 ton	
3	MAIN CYLI	NDER (HYD')	ϕ 240 × ϕ 80 × 500st	
/ \//		ng Press	Max : 240 kg/cm	
4	VVOIKII	19 11 655	Nor: 180 kg/cm	
5	Open Height		752 mm	
6	Stroke		500 mm	
7		Descending	180 mm/sec	
8	Speed	Pressing	10 ~ 15 mm/sec	
9		Ascending	180 mm/sec	
10	Table Area		900 × 700 mm	
11	Power	Main	Option	
12	Power	Operate	AC 220W 1Φ	
13	HYD' Motor		22 kw × 4p	
14	Floor Space		1200 × 2300 mm	
15	Net Weight		7600 kg	



KDPHS-100 & 120 TRIMMING PRESS

Features

This Bur removing press is patent registered; it will remove various parts of BURs on one casting at once. The press has capacity of 100tons and 120tons depending on the type of the castings.



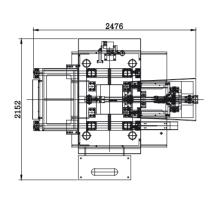
CONTROLL PANEL (TOUCH SCREEN)

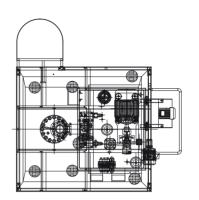


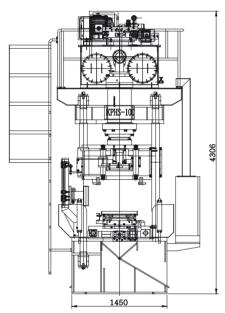
HYD'TANK

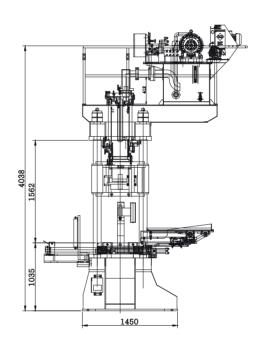












NO	Item		Specifications		Remark
1	Model		KDPHS-100	KDPHS-120	
2	Сар	acity	100 ton	120 ton	
3	MAIN CYLINDER (HYD')		ϕ 280 × ϕ 80 × 500st	Φ300 × Φ80 × 500st	
, Mantria		a Droce	Max: 240 kg/cm	Max: 240 kg/cm	
4	4 Working Press		Nor: 160 kg/cm	Nor: 170 kg/cm	
5	Open Height		852 mm	794 mm	
6	Stroke		500 mm	500 mm	
7		Descending	200 mm/sec	180 mm/sec	
8	Speed	Pressing	10 ~ 15 mm/sec	10 ~ 15 mm/sec	
9		Ascending	220 mm/sec	200 mm/sec	
10	Table Area		1850 × 700 mm	1850 × 700 mm	
11	Power	Main	Option	Option	
12	Power	Operate	AC 220W 1 <i>Ф</i>	AC 220W 1 <i>Ф</i>	
13	HYD' Motor		22 kw × 4p	30 kw × 4p	
14	Floor Space		2150 × 2450 mm	2150 × 2450 mm	
15	Net Weight		8000 kg	8000 kg	



TILTING INDEX

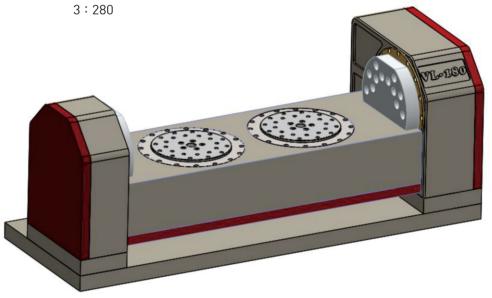
Features

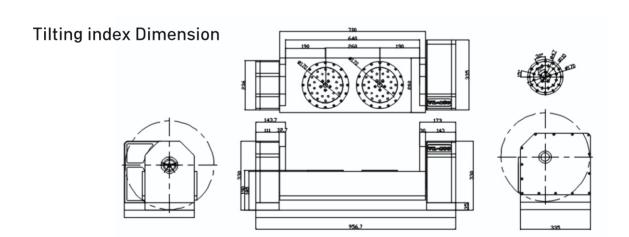
VL - 180 - *S - P**

TILTING INDEX CENTER HEIGHT 1S: 1SPINDLE PICH : SPINDEL 축간거리

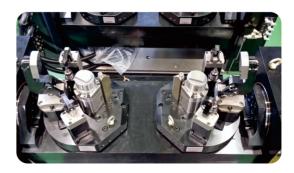
1:180 2S: 2SPINDLE

2:250









TILTING INDEX

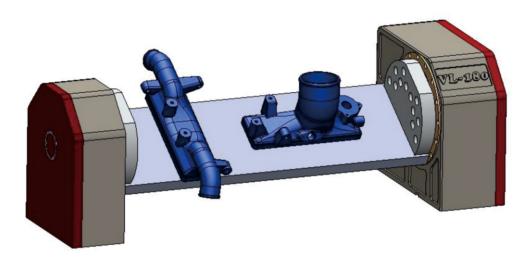
VL - 180 - H - ST

TILTING INDEX CENTER HEIGHT Tail Type Materials

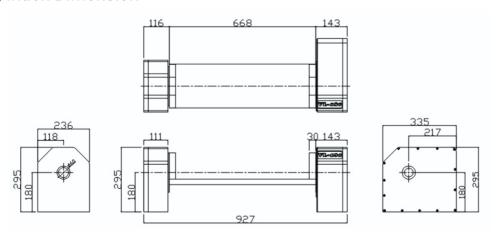
1:180 H:Gear Brake - AL

2:250 T: None Brake - STEEL

3:280



Tilting index Dimension





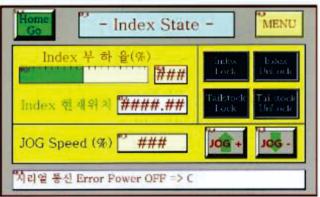




TILTING INDEX

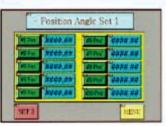
Index Table Touch Screen





Index State

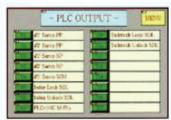
- Index Status can be controlled by Touch Screen OP panel.
- Index Working Load can be checked by Touch Screen OP panel.
- Index Clamp/Unclamp can be controlled by Touch Screen OP panel.
- Index Rotation can be operated by Touch Screen OP panel.



Position Angle Set 1, 2

- Index Angle Display
- Simple and Easy Angle Adjustment and Angle Position Input







PLC Input /Output

 PLC Input/Out signal is blinking which will give direct response for trouble shooting.

Index Alarm

- Index Alarm will be displayed on Touch Screen OP Panel

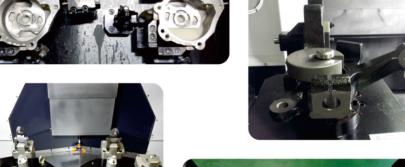
Touch Screen Advantages

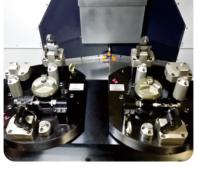
- Simple Operation and Control
- Easy to notice all index operating status such as alarm, I/O signals displays.
- Servo axis card can be used.







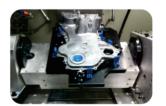




















Rotor Auto Grinding Machine and Auto Stocker Line

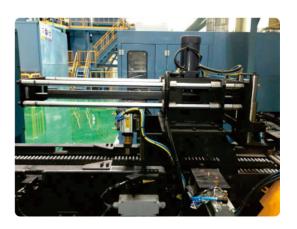
Features

This fully automated system is for Rotor or circular casting to maximize the productivity with auto supplying unit by lot control with auto grinding process, and automated packaging using a robot unit.

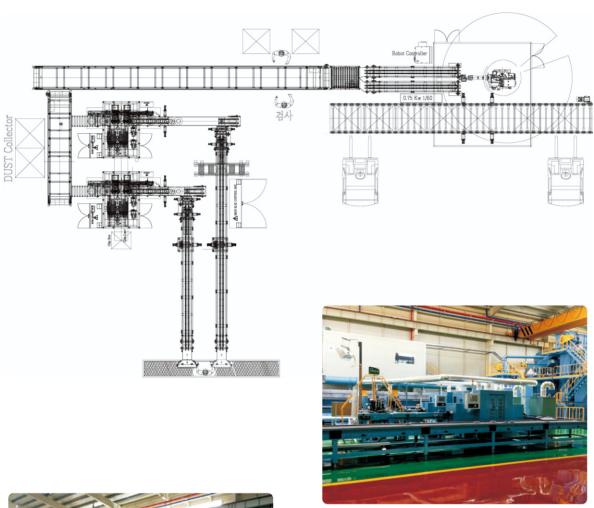








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Pallet Auto Transport and Discharging System with (Press and NC system)

Features

This system is fully automated Pallet loading and transporting that the casting finishing can be managed with cost efficient and lot controls for each pallet.







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Charging Feeder (3~10 ton/Batch)





Transport Car For Meltern Iron (1~5 ton Batch)

Capture Hood (3~12 ton/FECS)



Sand Plant & Moulding Line

Sand Plant System (150 ton/HR)





Moulding Line(200 Mould/HR) 750×900×300/300

Cooling Drum & Casting Transport System





Return Cast Iron Transport System

Features

Foundry produces Cast Iron scraps as byproducts of final castings, and this huge amount of scraps can be transported to Melting Zone or Scrap Store Areas by fully automated system with selected Materials for each assigned area.

(Capacity: 5~10 TON/HR × 5 Assigned Materials)

Loading Return Cast Iron
In the Transport Bucket





Moving Transport Bucket

Unloading Bunkear at Electric F. C. E. S Area



Dust Disposer System

Features

Sand dust or other dust materials can be produced as part of casting manufacturing, and each process required Dust Collectors at different positions.

And it can be hard to process with clean condition of Dust Collecting site. The Dust Disposal System can solve such problems with Closed On Line System at each Dust Collecting Points.



Collecting Dust from each Dust Collecting points using by Suction Pipe Lines.



Central Dust Collecting System from Local Dust Collecting Points



Dust Mixer for Central Dust Processing Unit



Final Dust can be loaded on the disposal truck by loading divice.





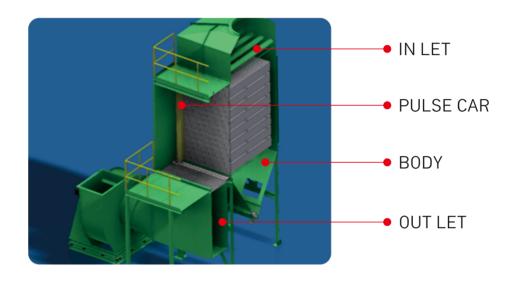
Dust Collector System(Bag Filter)

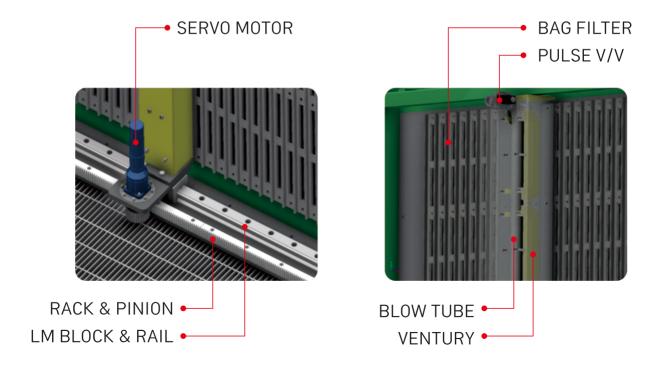
Features

To minimize attraction of dust by down current of air which is same direction of dust traveling.

Fixed PULSE V/V(multi type) to One Unit Type which is drove by SERVO MOTOR that moves precise control system.

Size Miniaturized by Standardization and Modularity.





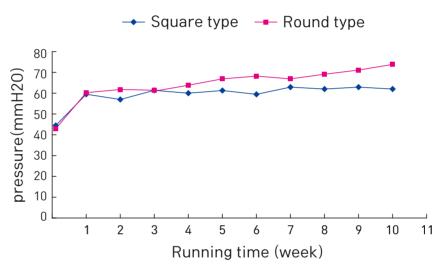
MOVING PULSE SYSTEM

Pressure Change on the Filters

Round bag filter 6kgf/cm², square bag filter 4kgf/cm² run for 3months at the same time Even low pressure on square filter,

it was running $15\%(\triangle P = 11 \text{mmH}_2 0)$ low compare to round filter Therefore, the square bag type is more efficient than the round bag type











3000CMM





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