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Aluminum Casting Process

For high quality casting production

Solutions for high quality casting production in a variety of aluminum casting processes



Environmental protection

Improved productivity

ENVIRONMENTAL PROTECTION EQUIPMENT

Differential pressure

die casting machine SAAT series Pinhole defect is prevented by pressurized pouring Feature Combined advantages of high productivity by green sand molding and high quality by

Please consult with us regarding incorporation of low pressure

Molter

low pressure casting

casting units in your existing green sand molding line

D-FLOW improves defects by poor die quality and prevents yield ratio reduction

Improved defect: Peel-off Improved defect: Burn-on

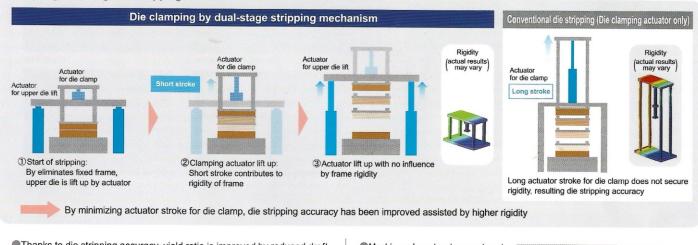
Low Pressure Diecasting Machine LPD series

Improving yield ratio & Downsizing by unique structure

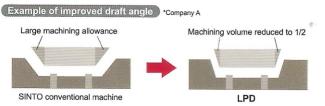
Conventional machine used long stroke actuator for die strip, requiring larger draft angle.

By adopting new die strip mechanism, LPD has achieved downsized body with higher die strip accuracy and higher yield ratio.

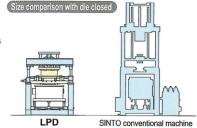




Thanks to die stripping accuracy, yield ratio is improved by reduced draft angle, and thus minimizing metal consumption.



Machine volume has been reduced by 50% compared to conventional machine, providing advantages of shortened installation period thanks to possible transportation without being disassembled.



Reduces casting defects such as shrinkage cavity by excellent metal flow control and orientation solidification control

Metal pressurization control and die cooling control prevent casting defect, achieving stable production.

Metal pressurization control

Production of high quality casting is achieved by controlling pressure against molten metal. Since pressurization condition can be set to each casting, this system is optimum for production of small lot casting.

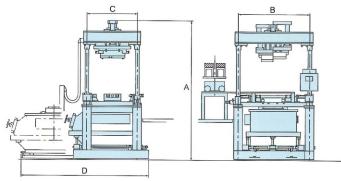
Die cooling control

By water cooling system through die achieves high quality casting by orientational solidification.



Most optimum pressurization conditions for each product is possible

Specifications



Model No.		LPD-I	LPD-II
Moveable die plate (mm)		1200×1000	1400×1260
Stationary die plate (mm)		1900×1200	2500×1400
Open/Shut height (mm)		1200/400	1800/600
Metal holding weight (mm)		500	1000
Dimensions (mm)	A	4000	4735
	В	1800	2400
	С	1000	1700
	D	4000	4400

Target castings (Example)

Cylinder blocks, cylinder heads, intake manifolds, aluminum wheels, air conditioner parts, hydraulic pump casings, etc.

Option



Automatic die clamping mechanism Simplified replacement and maintenance of die requiring precision.



Casting unloader

Automated product unloading reduces labor.