Woosung Precision Co., Ltd.

Company introduction

Woosung Precision is one of the best two-shot mold suppliers in the world. We meet our customers' needs by providing optimized two-shot solutions based on our accumulated knowhow and capabilities of producing all the types of two-shot mold in the globe.

We give top priorities to our customers' success. We made the critical contribution to the success of realizing Samsung TOC TV & Monitor design through our Core-index axis two shot solution. In addition, we assisted Samsung Electronics to reduce their injection molding cost and increase in productivity with our TI-mold. We try to make our customers take the No.1 spot in the global market.

History

2015	Developed Color Form Mold.			
2014	 Acquired Injection Supplier Qualification of HYUNDAI and KIA Motors 			
2013	 New factory built for larger tools manufacturing 			
2012	 Acquired Mold Supplier Qualification of HYUNDAI and KIA Motors 			
2011	 Developed TI-TC three-shot Mold first in the world 			
2010	 Awarded Presidential Commendation for Excellent Capital Goods Development Established Branch office, WOOSUNG U.S.A. & Began Business with Delphi(2shot-Toolings) 			
2009	 Awarded Supplier Distinguished Service Medal from Samsung. Established 3rd factory in needs of manufacturing larger tools. Developed TI Mold which increases productivity by reducing clamping force 			
2008	 Set up I-Manufacturing, Collaborative Production System based on the web. Acquired TS16949. 			
2006	 Began to provide TOC two-shot mold for Samsung Video & Display Division. Awarded The Best Innovative Mold Supplier of Year from Samsung. Acquired ISO 9002, QS9000. 			
2004	 Began to provide two-shot mold for Samsung Home appliance Division. Established the subsidiary for two-shot injection molding. 			
2003	 Signed Business partnership with Mouldgroup in Sweden. Began to export Fuso-koki in Japan. 			
2000	Began to export to Europe and Japan.			
1993	Founded as a plastic injection mold provider of Samsung Electronics.			
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Maker	Туре	Operation	Clamping force	Qty
	Tura alcat	Spin Form	1300 Tons	1
Krauss Maffei	Two-shot	Color form dosing equipment	1300 1005	
Krauss Maffei	Three-shot	Turning Inside	1300 Tons	1
Battenfield	Three-shot	Core-index rotation	650 Tons	1
Krauss Maffei	Two-shot	Core-index rotation	650 Tons	3
Krauss Maffei	Two-shot	Core-index rotation	500 Tons	2
ENGEL	Two-shot	Core-index rotation	400 Tons	1
Krauss Maffei	Two-shot	Core-index rotation	350 Tons	1
Krauss Maffei	Two-shot	Core-index rotation	200 Tons	1
BMK	Two-shot	Rotary	120 Tons	1

[Two-shot molding Machine for Test-run & production]













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WOOSUNG PREGISION The world best Two shot mold supplier



Woosung Precision Co., Ltd.

We produce all the realizable types of two-shot mold in the world

- Two-shot molding is producing multi-material parts composed of different resins or colors in one cycle by means of mechanical movement of rotating cores in a mold.
- Required to use heat-treated steel with high processing accuracy.

[Benefits of two-shot mold]

- Diverse choices in design for visible exterior & functional parts.
- Decrease in defect rate of part production by preventing geometry bump, flash & assembly errors.
- Increase in productivity of part production by removing secondary processing steps, coating, gluing, mounting & etc.









[Core-index Axis type]



[Turning-inside type]

We play key roles to our customers' success





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Introduction of Two-shot molds

Over mold is the most primitive stage of two-shot molding. It is recommended to choose over-molding if the production quantity is not much, the part geometry is simple or for inside part.

On the other hand, if the part you need is exterior, high volume and complicated, two-shot molding will be better option.



[Figure 1. Over-mold vs. Core-index]

	FEATURES	OVER MOLD	TWO-SHOT MOLD	
		Inserted into the core of 2nd mold by operators or robot actions.	Moved into the 2 nd shot core by the rotating index axis in the same mold.	
	Design versatilityLimited to applicable part geometries and under-cuts.Exterior design qualityFlash & bump happen to exterior design parts due to inserting 1st show part into right position of the 2nd mold.		Much more applicable than over mold because of being able to set up different parting lines of 1 st shot and 2 nd shot.	
			Flash ≎ can be extremely minimized because 1 st show parts are moved into 2 nd shot exactly.	

[Figure 2. Case study, NEW CASE-DRUM of Vacuum cleaner]

ITEMS		OVER MOLDING	TWO-SHOT MOLDING
	Cavity or molds	One part out / 2molds	Two parts out / 1 mold
Completed part	Resin	1st part : PC / 2nd part : TPE	1st part : PC / 2nd part : TPE
	Machine tonnage	650 Ton	Two-shot press 650 Ton
	Cycle time	1st shot : 45sec, 2nd shot : 50 sec	2-shot molding : 47 sec
1 st shot part	Tooling cost	100%	135%
	Defect rate	7%	5%
2 nd shot part	Extra cost	Labor , poor quality & stock cost	Need new two-shot press



Brush of Vacuum Cleaner Two-shot part



Cover frame, High glossy Weldless two-shot part



Stand base, High glossy Weldless two-shot part

Introduction of Two-shot molds

Rotary platen and Core-index type has the similar principle of two-shot molding which is called "rotating". Both types are mutually complementary to each other when it comes to tooling cost, molding productivity and part feasibility.

You can choose which one you need to use considering part feasibility, initial cost and production infrastructure.





[Figure 3. Rotary vs. Core-index]



Temp door / Air handle unit Two-shot part



Charger coupler / Electric car Two-shot part



Control Panel/Printer Weldless two-shot part