



# Project Definition Information Sheet

MAGMASOFT® is capable of considering many variables. In order to obtain the best results for your project, a detailed process description is required to fill up in this information sheet. If the exact values are not available, please estimate them closely. Please prepare the CAD file in .stl / .stp format for each component respectively and use the common coordinate system when you export from an assembly model. Please provide as cast model but if only machined model is available, please specify all the machined surfaces and drilled holes.

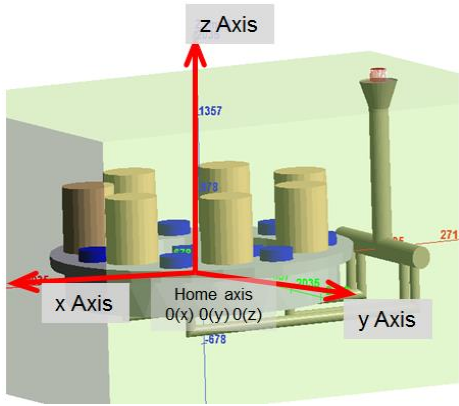
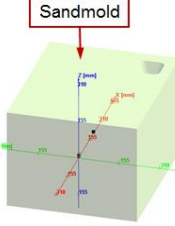
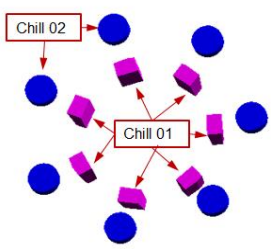
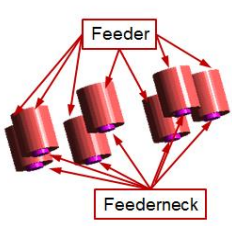
We will contact you shortly prior to starting the project to confirm these parameters.

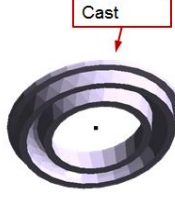
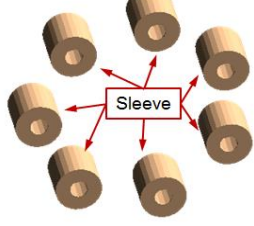
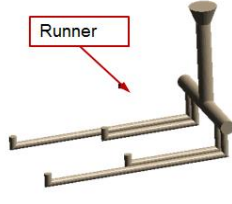
Contact Name	
Company	
Phone No	
Email address	
Project name	
MAGMA Representative	
Objective of the project:	

## Part 1: Project Details

Please ☒ the appropriate box

Project name / Part number		
Drawing	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Unit	<input type="checkbox"/> mm	<input type="checkbox"/> inch
Prepare solid CAD in single co-ordinate based on your purchased interface reader	<input type="checkbox"/> STL <input type="checkbox"/> Step	
Please prepare the CAD file in .stl / .stp format for each component respectively		

Remarks:

Sandmold_CopeBox	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Sandmold_DragBox	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Sand Core	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Pouring Basin	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Runner	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Gate1 Gate2 etc.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Chill	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Feederneck	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Feeder	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Filter	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Sleeve	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Casting	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

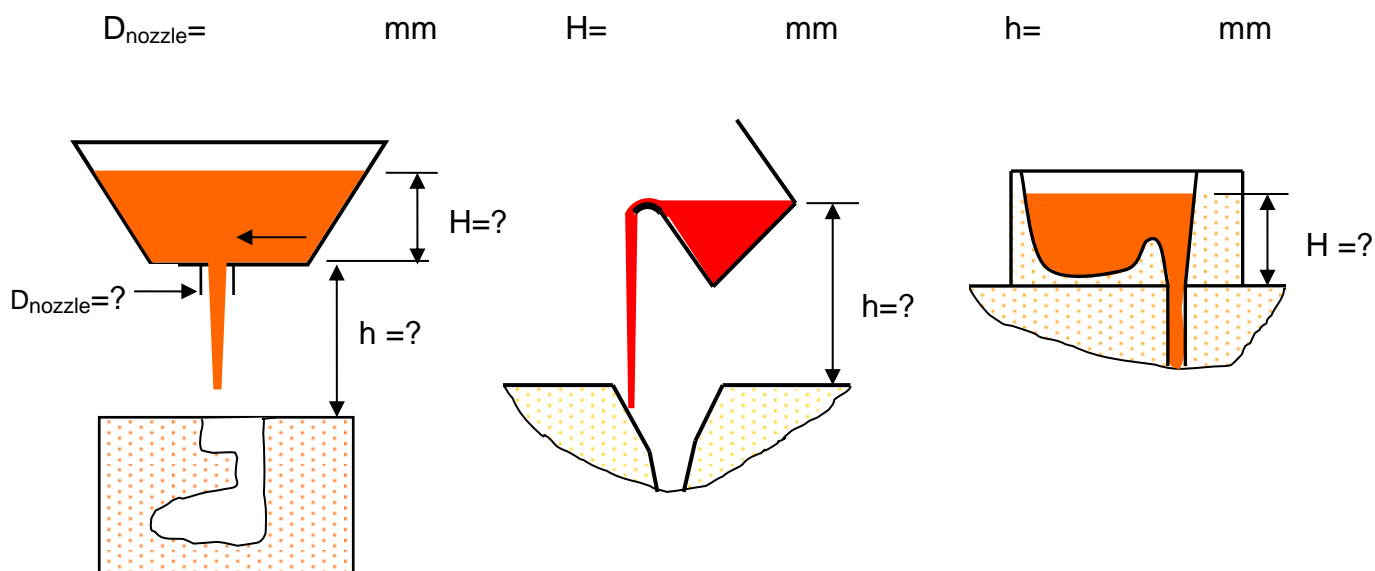
Any other comments:

## Part 2: Process Information

Please ☐ the appropriate box

Cast Material	
Chemistry Composition (Final – after treatment)	Carbon %
	Silicon %
	Manganese %
	Phosphorus %
	Sulfur %
	Chromium %
	Copper %
	Tin %
	Magnesium %
	Molybdenum %
	Nickel %
	Cerium %
	Antimony %
Nitrogen ppm	
Mold or Shell Material	
Core Material (Sand and binder? Are the cores hollow?)	
Sand Properties	Temperature, °C Moisture Content Permeability %
Chill Material	
Insulating sleeves and/or hot topping	<input type="checkbox"/> Insulated <input type="checkbox"/> Exothermic Model No:
Filter	<input type="checkbox"/> Foam <input type="checkbox"/> Sieve Size ppi, cell
Manufacturer and specification	

Shakeout time (Time castings are in contact with sand mold and cores)	sec
Pouring temperature	°C
Pouring time or pouring rate (if neither is available, please contact MAGMA)	<input type="checkbox"/> sec <input type="checkbox"/> m/s
Pouring method (Check one and fill in the information below, Please specify the units used for the measurements)	<input type="checkbox"/> Bottom <input type="checkbox"/> Lip <input type="checkbox"/> Basin



\*Please submit the Heat Treatment Curve together with this form.

### Part 3: Additional Process Information

Please ☐ the appropriate box

Do you use coating? Where?	
Is there anything we should know about your process?	
Do you use special sand (i.e. Zircon or Chromite) in certain areas of the mold?	

### Part 4: Casting Production Information

Please ☐ the appropriate box

How many of this casting are produced in a typical run?	
How frequent is the problem occurring?	
How many do you produce annually?	
What is the scrap rate on this casting per series and annually?	

Please email the completed form and CAD file to us at [project@magmasoft.com.sg](mailto:project@magmasoft.com.sg) or call us at +65 6564 3435 if you need assistance to complete the submission.

In addition, please feel free to share with us if you have the casting results, pictures of casting defects, microstructure or other technical information that you think might be helpful to kick start the project.

You may use MAGMA's upload/download tool for big file size upload thru our website (customer support section): <https://www.magmasoft.com.sg/en/support/intro/>

Note that you would need to register an account before you could access to the feature:  
<https://www.magmasoft.com.sg/en/support/registration/>

**Please feel free to contact us should you have any queries.**

*Last updated on September 2019*