Foundry Machinery and Spares Limited

Thermal Reclamation

Requirements Questionnaire

Customer Name	
Customer Contact name	
Customer Contact Email	
Customer Contact phone	
Agent Name	
Agent Contact Name	
Agent Contact Email	
Agent Contact Phone	
FMS Contact name	
FMS Contact email	
FMS Contact phone	Fms office + 44 1922 493603
Date of request	
Description	

(1) **Do you already have mechanical reclamation?**

YES		NO	

If the answer was no to the above please answer below, if the answer was yes then please move on to question 2.

Reclamation type required? (low level or high level)

Low Level		High Level	

(A) Will the attrition unit be loaded with the complete mould and casting to be knocked out if so **low level** is required.

(B) Will the casting be knocked out on the floor and loaded via a pay loader (bobcat) if so a **high level** is required?

(2) **Amount of sand to be thermally reclaimed per hour? (kgs)**

250		500		750		1000		1250		1500		2000	

(3) **Chemical Process currently used on sand mixer?**

Furan	1 x Binder (resin) 1 x Catalyst (acid)	
	1 x Binder (resin) 2 x Catalysts (acid)	
Alpha set (Phenolic)	1 x Binder (resin) 1 x Hardener (ester)	
	1 x Binder (resin) 2 x Hardener (ester)	
Cold box (Pepset)	1 x Part 1 - 1 x Part 2	
	1 x Part 1 - 1 x Part 2 - 1 x Part 3	
Silicate (Co2) or Water glass	Silicate (Co2) **gas cured**	
	Silicate (Co2) **hardener (ester) cured**	

(4) **Please ignore questions 4, 5, 6, 8, 9, 10 (only answer question 7 and go straight to question 11) if you answered yes to question 1**

If a low level unit required, what is the largest mould size?
(L x W x H, mm, Top & Bottom)

Size:-

(5) **If a low level unit required, what is the maximum weight of the mould and casting together? (Kgs, top and bottom)**

Weight:-

(6) **What will be the maximum sand temperature when the sand enters the attrition unit?**

Temperature:- _____ºC

(7) **What metals are currently cast?**

Steel	
Cast Iron	
Stainless Steel	
Aluminium	
Bronze	
Other	

(8) **Will the attrition unit feed direct in to a classifier/cooler or will a surge hopper with conveyor be required to convey sand to bulk storage silo prior to classification?**

Cold sand classifier (sand up to 120ºC)	
Cooler classifier (sand up to 300ºC)	
Cold sand surge hopper and conveyor (sand up to 120ºC)	
Hot sand surge hopper and conveyor (sand up to 300ºC)	
None of the above	

(9) **How many destinations will the pneumatic conveyor convey to?**

One (1)	
Two (2)	
Three (3)	
Four (4)	
Five (5)	
Pneumatic Conveyor not required	

(10) **What is the approximate length of the pneumatic sand conveying pipe run (mm) from the <u>mechanically</u> reclaimed sand conveyor to the bulk silo above thermal plant?**

Horizontal?	
Vertical?	
Number of anti wear bends?	

(11) **What is the approximate length of the pneumatic sand conveying pipe run (mm) from the <u>thermally</u> reclaimed sand bulk silo to silos above mixer/core machine?**

Horizontal?	
Vertical?	
Number of anti wear bends?	

(12) **How many destinations will the pneumatic conveyor from the thermal conveyer be conveying to?**

One (1)	
Two (2)	
Three (3)	
Five (5)	
Other	

<u>Additional Comments:</u>