

Inquiry No. / Quotation No. _____

**To be filled
in by ystral**

Representative _____

Date _____

Customer No. _____

Report No. _____



Customer Process Questionnaire
- End product / Components -

Page 1 of 2

Customer name _____ Contact person _____
 Division / function _____
 Address _____ Telephone No. _____
 _____ Extension _____
 _____ Fax No. _____

Which end product do you want to produce, ...

- Name _____
- Quantity _____ kg Ltr.
- normal process temperature _____ °C
- max. permitted temperature _____ °C
- max. viscosity _____ mPas (=cP) at _____ °C
measuring method _____ (for all given viscosities)
- spec. weight _____ kg/dm³
- Is the end product abrasive?
 no yes: strong weak
- Has the end product the tendency to foam?
 no yes: strong weak
- Is the end product sticky or lumpy?
 no yes
- What particle size and/or particle size distribution do you want to reach in the end product?
_____ µm

...which components are to be treated?

Information about the basic liquid (initial conditions)

- Name _____
- Quantity _____ kg Ltr.
- Temperature _____ °C
- Flow characteristics similar to... _____
- Viscosity _____ mPas (=cP)
- spec. weight _____ kg/dm³

Information about further liquid components

Name			
Quantity	<input type="checkbox"/> kg <input type="checkbox"/> Ltr.	<input type="checkbox"/> kg <input type="checkbox"/> Ltr.	<input type="checkbox"/> kg <input type="checkbox"/> Ltr.
Adding temperature	_____ °C	_____ °C	_____ °C
Adding viscosity	_____ mPas (=cP)	_____ mPas (=cP)	_____ mPas (=cP)

Information about solid / powder components

Name			
Quantity	_____ kg	_____ kg	_____ kg
Bulk density	_____ kg/dm ³	_____ kg/dm ³	_____ kg/dm ³
Does the solid / powder have the ability to flow?	<input type="checkbox"/> no <input type="checkbox"/> yes: <input type="checkbox"/> good <input type="checkbox"/> bad	<input type="checkbox"/> no <input type="checkbox"/> yes: <input type="checkbox"/> good <input type="checkbox"/> bad	<input type="checkbox"/> no <input type="checkbox"/> yes: <input type="checkbox"/> good <input type="checkbox"/> bad
Has the solid / powder the tendency to create dust?	<input type="checkbox"/> no <input type="checkbox"/> yes	<input type="checkbox"/> no <input type="checkbox"/> yes	<input type="checkbox"/> no <input type="checkbox"/> yes
What is the initial particle size of the solid / powder?	Primary grain _____ mm Agglomerate _____ mm	Primary grain _____ mm Agglomerate _____ mm	Primary grain _____ mm Agglomerate _____ mm
From what type of container is the solid / powder processed?	<input type="checkbox"/> Bag <input type="checkbox"/> Big Bag <input type="checkbox"/> Drum <input type="checkbox"/> Silo	<input type="checkbox"/> Bag <input type="checkbox"/> Big Bag <input type="checkbox"/> Drum <input type="checkbox"/> Silo	<input type="checkbox"/> Bag <input type="checkbox"/> Big Bag <input type="checkbox"/> Drum <input type="checkbox"/> Silo

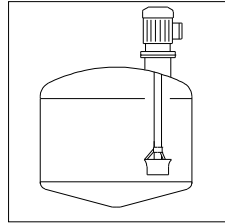
Information about other components

What processes are required?

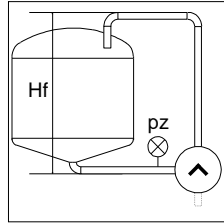
- Mixing Homogenizing Suspending Dissolving Inducting and wetting powder
 Dispersing Emulsifying Wet milling Aerating Others _____

What type of production process will be suitable?

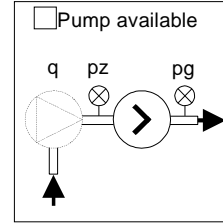
- Batch production Production in circulation Continuous production (Inline)



Number of batches in 8h: _____



Pumping height Hf _____ mm
 Static pressure pz _____ bar



Pump available
 Throughput q
 min. _____ m³/h
 max. _____ m³/h
 Static pressure pz _____ bar
 Conter pressure pg _____ bar

Please give a short description of the task

What is the present process and what improvements do you want to achieve?

Further technical requirements

- Voltage/Frequency
 - unknown/ standard
 - _____ V _____ Hz
- Ex-class motor
 - No Ex-class
 - EEx e T3
 - EEx de T4
- Explosion class for the machine ?
 - Non-Ex Dust-Ex T135°C
 - Dust-Ex T200°C
 - Gas-Ex T4
 - Gas-Ex T3
- Motor speed
 - Single speed motor _____
 - Two speed motor _____
 - Variable motor speed adjustable by...
 - Frequency converter
 - Gear box
- Material in contact with the product
 - 1.4571 (316Ti) (Standard)
 - others _____
- Elastomeres in contact with product
 - FPM Fluorelastomer ("Viton") (Standard)
 - EPDM
 - FFKM Perfluorelastomer ("Kalrez") resp. FPM (Viton) - FEP coated
- Further requirements _____

Contact



Powder Handling Associates of Yardley
 1200 Knox Drive, Suite B
 Yardley, PA 19067

Phone: 609-265-8008
Fax: 609-265-0110
Email: sales@phaynet.com
Web: phaynet.com

Machine data (filled in by ystral)

Mitarbeiter _____
 Datum _____

Is a process vessel available, and what is its specification?

- Existing vessel with the following specifications...
 Vessel does not exist yet, but is planned with the following specifications...
 Vessel does not exist yet, no detailed specifications available.

● Vessel form

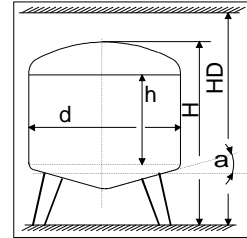
- cylindrical vessel
 cylindrical height h _____ mm
 Diameter d _____ mm
 Height H _____ mm
- rectangular vessel
 Length _____ mm
 Width _____ mm
 Height _____ mm

● Bottom form

- dished Diffuseur
 conical: $a = \text{_____}^\circ$ flat

● Top form

- dished open
 conical: $a = \text{_____}^\circ$ flat



● Is the vessel equipped with a heating / cooling jacket?

- yes no

● Please give the overall room height HD in the area of the vessel:

_____ mm

● Pressure in the vessel

- atmospheric pressure
 excess pressure _____ bar _____ %
 Vacuum _____ bar _____ %

● Which minimum / maximum filling volumes do you want to handle ?

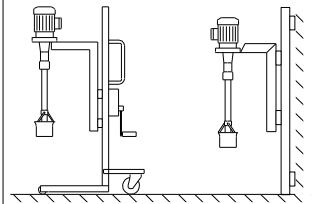
min. Volume _____ dm³
 max. Volume _____ dm³

● Is there any additional equipment mounted in the vessel (e.g. stirrer, baffles)?

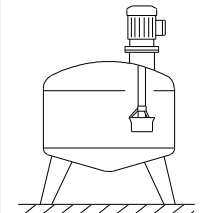
- no
 yes (please give drawings)

Which type of installation is foreseen or required?

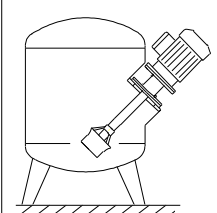
- Installation on a lifting stand
 mobile stationary



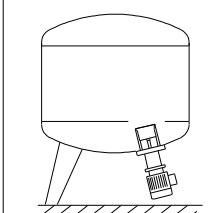
- Top entry with flange



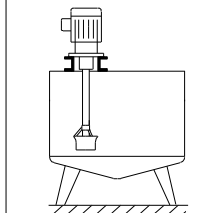
- Side entry with flange



- Bottom entry with flange

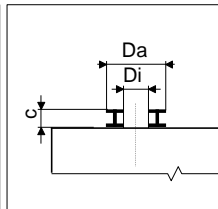
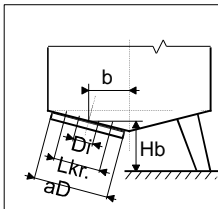
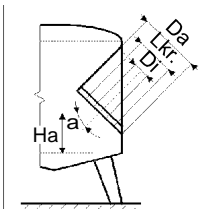
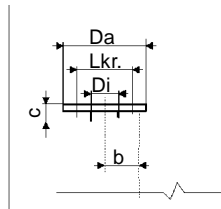


- Installation from top on a traverse



Which installation facilities on the vessel are existing or planned?

- No installation facilities existing or planned on the vessel



External diameter	Da	_____ mm	_____ mm	_____ mm	_____ mm
Bolt circle diameter	Lkr	_____ mm	_____ mm	_____ mm	_____ mm
Number and diameter of drill holes / threads in bolt circle					
Internal diameter	Di	_____ mm	_____ mm	_____ mm	_____ mm
Distance to center axis	b	_____ mm		_____ mm	
Height above top	c	_____ mm	_____ mm		_____ mm
Height in cylindrical part	Ha		_____ mm		
Distance from bottom	Hb			_____ mm	

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Customer Process Questionnaire

- Further information / sketch -

Appendix 2

Further information / sketch

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