Questionnaire
for design of dynamical mixers
M-P-S-H-FS (liquid-liquid, liquid-gas, liquid-solid)

INDAG
Maschinenbau GmbH

Client:
Date:

1.A	**Product A**		name viscosity [mPas] temperature [°C] density [kg/ l] pH-value solid content [%] solid size [mm] vapour pressure
1.B	**Product B**		name viscosity [mPas] temperature [°C] density [kg/ l] pH-value solid content [%] solid size [mm] vapour pressure
1.C	**Product C / Solid**		name viscosity [mPas] temperature [°C] density [kg/ l] pH-value solid content [%] solid size [mm] vapour pressure
2.A	**Flow rate A**		Min. flow rate [l/h] Max. flow rate [l/h]
2.B	**Flow rate B**		Min. flow rate [l/h] Max. flow rate [l/h]
2.C	**Flow rate C**		Min. flow rate [l/h] Max. flow rate [l/h]
2.C.1	**Solid characteristics**		bridge-building, abrasive, hygroscopic
3.	**Mixing task**		Mix, emulsify, disperse, deagglomerate
4.	**Increase of product temperature**		[C°] needed, not relevant, must be avoided
5.	**Viscosity of mixed product**		[mPas]
6.	**When chemical reactions (potting time)**		[seconds, minutes]
7.	**Type of cleaning**		Manually, CIP, SIP
8.	**Installation**		Horizontal / Vertical
9.	**Operating temperature**		[°C]
10.	**Design temperature**		[°C]

11.	**Operating pressure**		[bar(g)]
12.	**Design pressure**		[bar(g)]
13.	**Dynamic seal**		Single- or double acting mechanical seal, magnetic coupling, stuffing box
14.	**Double jacket**		For heating or cooling
15.	**Connections**		Flange DIN 2633, Tri-Clamp ANSI flange, Dairy 11851, eg.
16.	**Surface**		Ra 1,6; Ra 1,0, Ra 0,5, e-polished, blasted
17.	**Material In contact with product**		AISI 304, AISI 316, PVDF etc.
18.	**Material static seal**		FKM(Viton), EPDM, (FFKM)Kalrez, PTFE, graphite.
19.	**Drive**		50Hz/ 60Hz 400V/ 500V/ 690V
20.	**Installation site**		Indoor, Outdoor
21.	**Installation country**		
22.	**Ex- Proof**		Which zone? Which classification? ATEX, NEC, etc.
23.	**Process step after mixer**		Pipe length, Dipositor, pressure stage, pump,…
23.	**On aeration tasks**		Target density of mixed product [kg/l]
24.	**Additional information**		

25. Drawing / Sketch