

QUESTIONNAIRE – MIXER

Please complete the form fields and return the questionnaire to **biuro@interprocess.pl** – we will prepare our quotation on this basis. Any questions: tel. +48 787 783 590.

CONTACT DETAILS

Full name:		Phone number:	
Company:		E-mail address:	
Street and number:		Country:	
Postcode, town:		Date completed:	

ORDER

Quantity:		Required delivery date:	
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PROCESS

Application:	☐ new product / process	☐ new line	☐ replacement of existing mixer – type:			
Process type:	☐ dry mixing	☐ mixing with liquid addition	☐ granulation / agglomeration			
	☐ coating	☐ drying	☐ reaction	☐ dispersing	☐ other:	
Operating mode:	☐ batch	☐ continuous	operation:	☐ manual	☐ automatic	
Capacity:	[kg/h]:	batch weight [kg]:	working volume [l]:	batches/h:		
Operating time:	[h/day]:	[days/year]:	required mixing time [min]:			
Required mix homogeneity:		quality assessment method:				
Recipes:	smallest component share [%]:	recipe change frequency:				
Particle size reduction in process:	☐ permissible	☐ not permissible	sticky phase during process:	☐ no	☐ yes	
Product build-up on walls:	☐ no	☐ yes →	☐ slight	☐ moderate	☐ heavy	
		☐ easy to remove	☐ hard to remove	☐ hardening		
Thermal effect of process:	☐ none	☐ endothermic	☐ exothermic	gas / vapour release:	☐ no	☐ yes
Product moisture [%]:	initial:	required final:	product pH:			
Permissible product temp. [°C]:	in process:	at discharge:				

RECIPE AND PRODUCT

No.	Component (name)	Share [% w/w]	Bulk density [kg/m³]	Particle size [mm]	Moisture [%]	Form and properties (e.g. powder, sticky, abrasive, liquid)
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

Liquid addition:	☐ no	☐ yes → type:	share [%]:	viscosity [mPa·s]:	
		feed method:	☐ spray nozzles	☐ lance	☐ to be selected
Final product form:	☐ dry:	☐ dusty	☐ free-flowing	☐ granules / agglomerate	☐ dust-free
	☐ wet:	☐ pasty, sticky	☐ liquid, pumpable	granule size [mm]:	

MIXER

Mixer type:	☐ single-shaft paddle	☐ twin-shaft paddle	☐ ribbon	☐ ploughshare
	☐ conical screw	☐ tumble (V, double-cone, drum)	☐ to be selected	
Loading:	☐ manual (sacks)	☐ big-bag station	☐ pneumatic conveying	☐ feeders
	☐ gravity from hopper	number of inlet nozzles:		
Discharge:	☐ discharge flap	☐ ball valve	☐ butterfly valve	
	actuation:	☐ manual	☐ pneumatic	discharge to:
Equipment:	☐ side choppers	☐ liquid spray nozzles	☐ sampler	
	☐ heating/cooling jacket	☐ batch weighing (load cells)		
	☐ dedusting / venting nozzle			

Operating pressure: ☐ atmospheric ☐ vacuum ☐ overpressure → design pressure [bar]:
design temperature [°C]: regulations (e.g. PED, ASME):

Shaft seal: ☐ gland packing ☐ air / nitrogen purged ☐ mechanical ☐ to be selected

Product-contact parts: ☐ stainless steel 1.4301 (AISI 304) ☐ stainless steel 1.4404 (AISI 316L)
☐ carbon steel ☐ lining / coating:

Surface finish: internal: ☐ glass-bead blasted ☐ ground Ra < 0.8 µm ☐ polished
external: ☐ glass-bead blasted ☐ polished ☐ painted

Cleaning: ☐ dry ☐ wet ☐ clean-in-place (CIP) ☐ large inspection door

Space constraints [mm]: length: width: height:

HEATING AND COOLING MEDIA (for jacketed mixer)

Function	Medium	Supply temperature [°C]	Pressure [bar]
Heating	☐ water ☐ steam ☐ thermal oil		
Cooling	☐ water ☐ brine / glycol		

DRIVE AND POWER SUPPLY

Power supply: voltage [V]: frequency: ☐ 50 Hz ☐ 60 Hz control voltage [V]:
Drive: ☐ fixed speed ☐ frequency inverter (VFD) IP protection rating:

OPERATING ENVIRONMENT

Ambient temperature [°C]: ☐ 0–40 ☐ other:

Installation site: ☐ indoors ☐ outdoors, under cover ☐ outdoors, uncovered

ATEX – explosion hazard zone: ☐ no ☐ yes → please specify below:
gases, flammable liquid vapours inside equipment: ☐ 0 ☐ 1 ☐ 2 outside: ☐ 1 ☐ 2
explosion group and temperature class:
name: flash point [°C]: LEL / UEL [% v/v]:
inside equipment: ☐ 20 ☐ 21 ☐ 22 outside: ☐ 21 ☐ 22
dust explosion class: ☐ St 1 ☐ St 2 ☐ St 3 ☐ conductive dust (IIIC)
min. ignition energy [mJ]: Kst [bar·m/s]: Pmax [bar]:
min. ignition temp. [°C] – dust cloud: 5 mm dust layer:

CONTROL SYSTEM

Scope of supply: ☐ with control cabinet and control system ☐ without (control by customer)

HMI operator panel: ☐ no ☐ yes recipe management: ☐ no ☐ yes

Control cabinet IP65: ☐ powder-coated steel ☐ stainless steel 1.4301 (AISI 304) ☐ other:

Communication: ☐ Modbus TCP ☐ Modbus RTU ☐ EtherNet/IP ☐ PROFIBUS DP
☐ PROFINET ☐ other:

INSTALLATION SITE AND ADDITIONAL REMARKS

Description of installation site and process (component feeding sequence, temperature profile, associated equipment):

Additional remarks/requirements (e.g. process description, special requirements, scope of supply, documentation, installation, commissioning):

If possible, please attach drawings, a plant layout or photos of the installation site and the material safety data sheet (SDS).