QUESTIONNAIRE – VOLUMETRIC SCREW FEEDER

*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:	

MATERIAL

Material name:			
Particle size [mm]:		Bulk density [kg/m³]:	
Moisture content [%]:		Angle of repose [°]:	
Material temperature [°C]:	☐ 0–40 ☐ other:		
Material properties:	☐ free-flowing ☐ medium-flowing ☐ poor-flowing ☐ dusty ☐ abrasive ☐ friable ☐ sticky ☐ cohesive (caking) ☐ hanging up, bridging ☐ hygroscopic ☐ aeratable (flooding) ☐ toxic ☐ chemically aggressive (corrosive) ☐ intended for food contact / pharmaceutical product		

REQUIREMENTS

Feed rate [kg/h]:	min.:	max.:	nominal:
Feeding mode:	☐ continuous ☐ batch (discontinuous)		

DESIGN

Hopper refill:	☐ manual (hinged lid with handle and inlet grid) ☐ automatic (inlet connection and vent connection)
Feeder location:	
Feeder application:	
Product-contact parts:	☐ stainless steel 1.4301 (AISI 304) ☐ stainless steel 1.4404 (AISI 316L)
Non-contact parts:	☐ powder-coated carbon steel (polyester coating) ☐ stainless steel 1.4301 (AISI 304) ☐ stainless steel 1.4404 (AISI 316L)
Standard finish:	electropolished or glass-bead blasted surfaces, continuous internal welds, non-steel product-contact parts with FDA certificate

Hygienic design – options (please tick each option separately)

☐ continuous external welds
☐ easy internal access – removable front panel with hand knobs
☐ easy internal access – removable hopper lid with hook latches
☐ 'easy-clean' support frame (hollow sections set diamond-wise, easy access for cleaning, minimised dust-collecting surfaces)
☐ internal surfaces ground to roughness Ra < 0.8 µm
☐ seals and non-steel parts with declaration of compliance with Regulation (EC) No 1935/2004
☐ Rittal HD (Hygienic Design) series electrical enclosures
☐ aseptic drive (smooth-housing motor, no cooling fins)

DRIVE

Geared motor:	☐ SEW 3×400 V AC ☐ SEW 3×500 V AC ☐ other:
Supply frequency:	☐ 50 Hz ☐ 60 Hz

The feeding element drive is controlled via a frequency inverter (VFD).

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:

combustible dusts: inside equipment: ☐ 20 ☐ 21 ☐ 22 outside: ☐ 21 ☐ 22

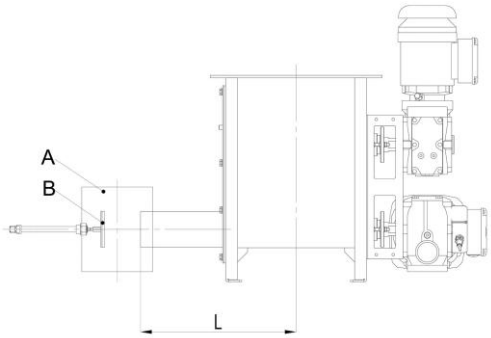
dust parameters: dust explosion class: ☐ St 1 ☐ St 2 ☐ St 3 ☐ conductive dust (IIIC)
minimum ignition energy [mJ]:
min. ignition temp. [°C] – dust cloud: 5 mm dust layer:

ADDITIONAL OPTIONS

Vertical outlet pipe (A):
☐ no ☐ yes

Material shut-off valve (B) – for batch feeding improves feeding accuracy and repeatability:
☐ no ☐ yes

Extended outlet pipe:
☐ no ☐ yes → L [mm]:



CONTROL SYSTEM

Scope of supply: ☐ without control system ☐ control system with feed range linearisation

HMI operator panel: ☐ no ☐ yes → ☐ on control cabinet ☐ in separate enclosure at feeder

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

Control cabinet location: ☐ on feeder – left side ☐ on feeder – right side
☐ away from feeder – cable run length [m]:
☐ in customer's control cabinet (controller with switchgear) – cable run [m]:

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

INSTALLATION SITE AND ADDITIONAL REMARKS

Description of feeder installation site (e.g. upstream and downstream equipment, available space and operator access, method of mounting, available utilities):

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).