**GRAVIMETRIC SCREW FEEDER QUESTIONNAIRE**

**CONTACT DETAILS**

Name and Surname: Click to enter name and surname.
Company Click to enter company.
Street: Click to enter street.
City: Click to enter city.
Country: Click to enter country.
Phone number: Click to enter phone number.
E-mail: Click to enter email address.
Date: Click to enter the date.

 **ORDER**

The number of items: Click to enter the number of items.

** MATERIAL**

Material name: Click to enter material name.
Grain size [mm]: Click to enter grain size.
Bulk density [kg/m3]: Click to enter bulk density.
Moisture content [%]: Click to enter moisture content.
Angle of repose [o]: Click to enter angle of repose.
Material temperature [oC]: [ ]  0 ÷ 40 [ ]  other: Click to enter other temperature.
Material description: [ ]  well- flowing [ ]  medium flowing [ ]  difficult-flowing [ ]  abrasive [ ]  fragile [ ]  sticky [ ]  cohesive [ ]  dusty [ ]  easily aerating (“ uncontrolled flowing”) [ ]  bridging, ratholing

 **REQUIREMENTS**

Feed rate [kg/h]: min.: Enter V min. max.: Enter V max.

Dosing mode [ ]  continuous → maximum dosing error [% of set value]:

 Click to enter dosing error in %.
 [ ]  batch

 → batch weight [kg]

 Click to enter portion weight.

 → number of batches per hour

 Click to enter number of portions per hour.

 → maximum dosing error [kg, g]

 Click to enter dosing error in kg, g.

** CONSTRUCTION**

***Reffilling the hooper***

[ ]  manual (hinged cover with a handle and a safety grate)

[ ]  automatic (two round spigots, for material refill and ventilation)

***Place of installation of the feeder e.g. under a Big-Bag emptying station, under a buffer hopper etc.***

Click to enter the exact place of installation of the feeder.

***Application description (e.g working as a separate device, in mixing lines, as an element of packaging system etc.)***

Click to enter the application of the feeder.

***Execution***

Components in contact with the material:[ ]  stainless steel 1.4301 (AISI304) [ ]  stainless steel 1.4404 (AISI 316L)

Components not in contact with the material:
[ ]  carbon steel, powder coated with polyester paint, coating thickness min. 70-80 μm [ ]  stainless steel 1.4301 (AISI304) [ ]  stainless steel 1.4404 (AISI316L)

***Design***

[ ]  standard – steel surfaces electropolished or bead-blasted, continous internal weld seams, non-steel components in contact with the material FDA-certified

[ ]  hygienic - continuous internal and external welds, non-steel components in contact with the material FDA-certified, steel surfaces in contact with the material ground (Ra<0.8μm) and electropolished, internal weld seams ground; gearmotors in aseptic version (does not apply to ATEX version); support frame in easy-to-clean design; Rittal HD series enclosures

 **MOTOR**

[ ]  SEW gearmotor 3x400 V AC with protection degree IP65

[ ]  SEW gearmotor 3x500 V AC with protection degree IP65

[ ]  SEW gearmotor in aseptic version, protection degree IP66

[ ]  Other: Click to enter other type of motor.

Frequency [Hz]: Click to enter frequency.

***The feeding device’s gearmotor is controlled by an inverter.***

 **ENVIRONMENT**

Ambient temperature [oC]: [ ]  0 ÷ 40 [ ]  Other: Click to enter the other temperature.
ATEX (explosion risk zone): [ ]  no [ ]  yes → Gases, liquids and their vapors
 Inside the device: [ ]  0 [ ]  1 [ ]  2
 Outside the device: [ ]  1 [ ]  2

 → Explosive dusts:
 Inside the device: [ ]  20 [ ]  21 [ ]  22
 Outside the device: [ ]  21 [ ]  22 [ ]  conductive dust (IIIC)

 Dust explosion classification:

 [ ]  ST1 [ ]  ST2 [ ]  ST3

 Minimal ignition temperature [°C]

 Click to enter minimum ignition temperature [oC].

 Minimal ignition energy [mJ].

 Click to enter ignition temperature [mJ].

 **ADDITIONAL OPTIONS**

Vertical outlet pipe (A):
[ ]  no [ ]  yes

Material flow shut-off valve for batch feeding that improves batch accuracy and repeatability (B):
[ ]  no [ ]  yes

Extended outlet pipe:
[ ]  no [ ]  yes → L [mm]: Click to enter L.

 **SYSTEM CONTROL**

[ ]  With Control System [ ]  Without Control System

RITTAL Control Cabinet IP65
[ ]  Powder- coated RAL 7035 [ ]  Stainless steel 1.4301 (AISI304)

[ ]  Other Click to enter type.

Control cabinet installation place: [ ]  on the feeder (left side)

 [ ]  on the feeder (right side)

 [ ]  separately. The length of the cable routes [m]

 Click to enter the length of the cable routes.

 [ ]  in Client’s control cabinet. The length of the cable routes [m]

 Click to enter the length of the cable routes.
Fieldbus: [ ]  Modbus TCP [ ]  Modbus RTU [ ]  EthernetIP [ ]  Profibus DP [ ]  Profinet

** ADDITIONAL COMMENTS**

Comments:

Click to enter the additional comments.