Our goal is to realize the optimal measurement solution for your process together with you.

For this we need some information.

CONTACT INFORMATION

|  |  |  |  |
| --- | --- | --- | --- |
| Company: |       |  |  |
| Address / street: |       |  |  |
| City / zip / country: |       |  |  |
| Name (contact person): |       |  |  |
| E-mail: |       | Skype: |       |
| Phone: |       | Fax: |       |
| Cell: |       |  |  |

Information on the handling of personal data in accordance with the EU General Data Protection Regulation GDPR, as well as the responsible body and the rights of those affected can be found on our homepage [privacy](https://indutech.com/privacy/#privacy-affected-rights)

BASIC INFORMATION

Please give us a short detailed description of the current process?

|  |
| --- |
|       |

Which goals do you want to achieve?

|  |
| --- |
|       |

Which parameters of the process do you want to optimize?

|  |
| --- |
|       |

APPLICATION

|  |  |
| --- | --- |
| Product: |  |
| Chemical composition: |  |
| Does the chemical composition vary: |  |
| Ambient temperature [°C]: |  |  | Material temperature [°C]: |  |
| Humidity [%]: |  |  | Moisture range [%]: |  |
| Requested accuracy [%]: |  |  | Max. required measuring time [s]: |  |

PRODUCT

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Homogeneous: | [ ]  | inhomogeneous: | [ ]  | unknown: | [ ]  |
|  | Conductive: | [ ]  | non-conductive: | [ ]  | unknown: | [ ]  |
| Product temperature [°C]: | avg.: |       |  | min.: |       |  | max.: |       |
| Environmental temperature [°C]: | avg.: |       |  | min.: |       |  | max.: |       |

INSTALLATION POINT

[ ]  Indoor [ ]  Outdoor

**[ ]** MAIN BELT

|  |  |
| --- | --- |
| Width [mm]: |       |
| Distance between upper – lower belt [mm]: |       |

|  |  |  |
| --- | --- | --- |
| Belt Type | [ ]  Textile web |  |
|  | [ ]  Steel cords | Wire distance [mm]: |       | Wire diameter [mm]: |       |

|  |  |  |  |
| --- | --- | --- | --- |
| Tachometer available: | [ ]  Yes |  | [ ]  No |
| Can the product be smoothed: | [ ]  Yes |  | [ ]  No |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Belt speed [m/s]: |       |  | [ ]  constant | min.: |       |  | max.: |       |
| Mass flow [t/h]: |       |  | [ ]  constant | min.: |       |  | max.: |       |
| Layer thickness [mm]: |       |  | [ ]  constant | min.: |       |  | max.: |       |
| Bulk density [kg/m3]: |       |  | [ ]  constant | min.: |       |  | max.: |       |
| Particle size [mm]: |       |  | [ ]  constant | min.: |       |  | max.: |       |

|  |  |  |
| --- | --- | --- |
| **Mechanical sampling system available** | [ ]  Yes | [ ]  No |
| [ ]  Manual |  | [ ]  Automatic |  | Interval [min]: |       |
| Mass of the primary sample [kg]: |       |

**[ ]** BYPASS SYSTEM

|  |  |
| --- | --- |
| Width [mm]: |       |
| Distance between upper – lower belt [mm]: |       |

|  |  |  |  |
| --- | --- | --- | --- |
| Tachometer available: | [ ]  Yes |  | [ ]  No |
| Can the product be smoothed: | [ ]  Yes |  | [ ]  No |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Belt speed [m/s]: |       |  | [ ]  constant | min.: |       |  | max.: |       |
| Mass flow [t/h]: |       |  | [ ]  constant | min.: |       |  | max.: |       |
| Layer thickness [mm]: |       |  | [ ]  constant | min.: |       |  | max.: |       |
| Bulk density [kg/m3]: |       |  | [ ]  constant | min.: |       |  | max.: |       |
| Particle size [mm]: |       |  | [ ]  constant | min.: |       |  | max.: |       |

|  |  |  |
| --- | --- | --- |
| **Secondary sampling system available** | [ ]  Yes | [ ]  No |

|  |  |
| --- | --- |
| Mass of the primary sample [kg]: |       |
| Sampling interval [s]: |       |

**[ ]** CHUTE

|  |  |  |  |
| --- | --- | --- | --- |
| Length [mm]: |       |  | Cross section: |
|  | A [mm]: |       |
|  | B [mm]: |       |
|  |
| Material of the chute: |       |
| Wall thickness [mm]: |       |  |
| Flow speed [mm/s]: |       |  | Material flow [t/h]:  |       |
| Flow control: | [ ]  Valve |  | [ ]  Screw conveyor |  | [ ]  Cellular wheel |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bulk density [kg/m3]: |       |  | [ ]  constant | min.: |       |  | max.: |       |
| Particle size [mm]: |       |  | [ ]  constant | min.: |       |  | max.: |       |

|  |  |  |
| --- | --- | --- |
| **Mechanical sampling system available** | [ ]  Yes | [ ]  No |
| [ ]  Manual |  | [ ]  Automatic |  | Interval [min]: |       |
| Mass of the primary sample [kg]: |       |

**[ ]** PIPE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Slurry |  |  |  |  |
| Material of the pipe: |       |
| Flow direction: | [ ]  Horizontal |  | [ ]  Vertical |  |
| Flow speed [mm/s]: |       |  |  Flow rate [t/h]: |       |
| Pipe diameter [mm]: |       |  |  Wall thickness [mm]: |       |
| Pressure [bar]: |       |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Air bubbles: | [ ]  Yes |  | [ ]  No |  |
| Sedimentation: | [ ]  Yes |  | [ ]  No |  |
| Solid content [g/l]: |       |  |  Ash content [%]: |       |
| Density [g/cm3]: |       |  |  |  |

|  |  |  |
| --- | --- | --- |
| Sampling system for lab samples available: | [ ]  Yes | [ ]  No |

|  |  |
| --- | --- |
| How many pipe lines do you have to measure: |       |

We can offer a complete **Slurry Bypass Measuring System** alternating between multiple pipe lines according to the necessary time interval. The system will be especially constructed according to the needs of the customer in order to achieve the highest accuracy down to the ppm range, as with dry material.

PARTICLE SIZE DISTRIBUTION

|  |  |  |
| --- | --- | --- |
| in [mm]: | [ ]  known | [ ]  unknown |
|  |  |  |
| > 100 |  |  |  | min.: |       | max.: |       | distribution: |       |
| 100 | - | 70 |  | min.: |       | max.: |       | distribution: |       |
| 70 | - | 50 |  | min.: |       | max.: |       | distribution: |       |
| 50 | - | 30 |  | min.: |       | max.: |       | distribution: |       |
| 30 | - | 16 |  | min.: |       | max.: |       | distribution: |       |
| 16 | - | 12,5 |  | min.: |       | max.: |       | distribution: |       |
| 12,5 | - | 10 |  | min.: |       | max.: |       | distribution: |       |
| 10 | - | 6,3 |  | min.: |       | max.: |       | distribution: |       |
| 6,3 | - | 3,35 |  | min.: |       | max.: |       | distribution: |       |
| 3,35 | - | 1 |  | min.: |       | max.: |       | distribution: |       |
| 1 | - | 0,5 |  | min.: |       | max.: |       | distribution: |       |
| 0,5 | - | 0,3 |  | min.: |       | max.: |       | distribution: |       |
| 0,3 | - | 0,125 |  | min.: |       | max.: |       | distribution: |       |
| 0,125 | - | 0,063 |  | min.: |       | max.: |       | distribution: |       |
| 0,063 | - | 0 |  | min.: |       | max.: |       | distribution: |       |

ELEMENTAL COMPOSITION

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | min. [%] |  | max. [%] |  | \*) importance of measurement |  | desired accuracy |
| MgO |  |       |  |       |  |       |  |       |
| Al2O3 |  |       |  |       |  |       |  |       |
| SiO2 |  |       |  |       |  |       |  |       |
| P2O5 |  |       |  |       |  |       |  |       |
| S |  |       |  |       |  |       |  |       |
| Cl |  |       |  |       |  |       |  |       |
| K2O |  |       |  |       |  |       |  |       |
| CaO |  |       |  |       |  |       |  |       |
| TiO2 |  |       |  |       |  |       |  |       |
| V |  |       |  |       |  |       |  |       |
| Cr |  |       |  |       |  |       |  |       |
| Mn3O4 |  |       |  |       |  |       |  |       |
| Fe2O3 |  |       |  |       |  |       |  |       |
| Ni |  |       |  |       |  |       |  |       |
| Cu |  |       |  |       |  |       |  |       |
| Zn |  |       |  |       |  |       |  |       |
| As |  |       |  |       |  |       |  |       |
| Hg |  |       |  |       |  |       |  |       |
| Pb |  |       |  |       |  |       |  |       |
|  |  |  |  |  |  |  |  |  |
| Other # 1 |  |       |  |       |  |       |  |       |
| Other # 2 |  |       |  |       |  |       |  |       |
| Other # 3 |  |       |  |       |  |       |  |       |
| Other # 4 |  |       |  |       |  |       |  |       |
|  |  |  |  |  |  |  |  |  |
| Ash content [%]: |  |       |  |       |  |       |  |       |
| Moisture [%]: |  |       |  |       |  |       |  |       |
| Calorific value [BTU]: |  |       |  |       |  |       |  |       |
| Volatiles [%]: |  |       |  |       |  |       |  |       |
| Density [g/cm3]: |  |       |  |       |  |       |  |       |
| Max. measuring time [s]: |  |       |  |       |  |       |  |       |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \*) |  | (1) very important |  | (2) important |  | (3) less important |  | (4) not important |

Please submit all available ash analyses of samples to InduTech!

Photos of the installation point and videos of the material flow would be helpful.

Send them together in the same e-mail with the filled out questionnaire.

Thank you.