##### QUESTIONNAIRE

**to order a dryer type BN with a rotating drum**

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| Organization |  | | | | | |
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| Full name |  | | | | | |
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| Job title |  | | | | | |
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| Country |  | | City |  | | |
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| Index |  | Address |  | | | |
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| City code |  | Tel. |  | | | |
|  | | | | | | |
| Fax |  | E-mail: |  | | Http: |  |

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| 1. Based on what data is the rotary drum dryer accepted: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  |  | *experimental data* | | | | | | | | | |  | | *industrial experience* | | | | | | | | | | | | | | | | | | | | | |  | *other:* | | | | | | | | | | | |  | | | | | | | | | | | | | | | |
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| 2. Product name and chemical composition | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3. Productivity of dried product, kg /hour | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 4. Structural and mechanical properties of the product: | | | | | | | | | | | | | | | | | | | | | | | |  | | | | *loose* | | | | | | | | | |  | | | | | | *other:* | | | | | | | |  | | | | | | | | | | | | |
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| 5. Particle sizes by fractions, mm | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6. Product characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  |  | *harmless* |  | | *non-explosive* | | | | | | | | | | | | |  | | *non-flammable* | | | | | | | | | | | | | | | | | | | |  | | | | | *other:* | | | | | | |  | | | | | | | | | | | | |
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| 7. Product moisture content at the dryer inlet, % | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 8. Product moisture content at the dryer outlet, % | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9. Temperature of the coolant at the inlet to the dryer, o C (no more than 750) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10. Temperature of the coolant at the outlet of the dryer, o C (no more than 120) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |
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| 11. Bulk density of the product, kg/m3 | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 12. Drum section filling factor, % (no more than 15) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 13. Mutual direction of movement of the product and the coolant : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | *direct-flow* | | | | | | | | | | |  | | *counter-current* | | | | | |
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| 14. Method of product processing prior to drying: | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | *filtration* | | | | | | | | | |  | | | | | *centrifugation* | | | | | | | | |  | | *other:* | | | |  | | |
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| 15. Heat source: | | | | | | |  | *gas* | | | | | | | | | | | | | | |  | | | | diesel fuel | | | | | | | | | | | | | | |  | | | | | *other:* | | | | | |  | | | | | | | | | | | |
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| 16. Dryer installation location: | | | | | | | | | | | | | | | | | | | | | |  | | | | *indoors* | | | | | | | | | | | | | | | |  | | | | | *open area* | | | | | | | | | | | | | | | | | |
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| 17. Characteristics of the power supply network of the dryer drive motor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  |  | *~50 Hz, 380 V* | | | | | | |  | *other:* | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 18. Type of internal nozzle: | | | | | | | | | | | | | | |  | | *at the entrance - screw , then - sector* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  |  | *at the entrance - screw , then - blade* | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | *at the entrance - screw , then blade, then sector* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 19. Material of parts in contact with the product: | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | *carbon steel* | | | | | | | | | | | | | | | | |  | | *other:* | | | |  | | | | | | | | | | |
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| 20. What kind of dryer is currently used? | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 21. Size of the dryer planned for use | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 22. Need for : | | | | | | loading and unloading device | | | | | | | | | | | | | | | | | | | | | | | | | | |  | *There is* | | | | |  | | | | | *No* | | | | | | | automation system | | | | | | | | |  | *There is* | |  | *No* |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| heat generator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | *There is* | | | | |  | | | | | *No* | | | | | | | gas cleaning | | | | | | | | |  | *There is* | |  | *No* |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. Installation drawing (in case of turnkey delivery of the drying line) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |
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| 24. Other parameters: | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| *Date of completion :* | | | |  | | | | | | | | | | | | Signature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | |
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The questionnaire must be confirmed with a seal. The manufacturer recommends that the customer contact a specialized design organization to obtain a conclusion on the correct choice of equipment .

##### CONCLUSION

**specialized design organization of the customer**

Based on this questionnaire, heat engineering calculations, properties of the material being dried, experimental data and design process parameters, the BN dryer is accepted:

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| Dimensions of the hull, m (diameter of the hull x length of the hull)  0,5х2,5; 1х4; 1х6; 1,2х6; 1,2х8; 1,2х10; 1,6х8; 1,6х10; 1,6х12; 2х8; 2х10; 2х12; 2,2х10; 2,2х12; 2,2х14; 2,2х16; 2,5х14; 2,5х16; 2,5х18; 2,5х20; 2,8х14; 2,8х16; 2,8х20; 3,0х18; 3,0х20; 3,2х18; 3,2х22; 3,5х18; 3,5х22; 3,5х27; 4,5х16 |  |
|  | |
| Nozzle type |  |
|  |  |
| Mutual movement of product and coolant |  |
|  |  |
| Material of parts in contact with the product |  |

The customer is allowed to select the size of the dryer based on this questionnaire and operating experience.

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| **Name, address and telephone numbers** **customer** |  |
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| --- | --- |
| Name, address and telephone numbers of the specialized design organization |  |
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| --- | --- | --- | --- | --- |
| Organization | Job title | Surname | Signature | Date |
| **Customer** |  |  |  |  |
| **Special design organization** |  |  |  |  |

|  |  |
| --- | --- |
| *Date of completion :* |  |