DocDust GmbH
Gehrdener Straße 7
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Phone +49 5109 563 7000 / Fax +49 5109 563 7002
e-mail: info@docdust.com

QESTIONNAIRE / DATA SHEET

Please complete the given form in clear block letters. All items **MUST** be reported completely!!!

Material and conveyor information:

Date: _____

Company name (of the end-customer): _____

Person in charge (for data): _____

Belt identification (Conveyor no.) _____

Conveyed material (Limestone, iron ore…) _____

Belt width [mm / inch] _____

Belt speed [m/s] _____

Capacity [t/h] _____

Grit size > 200mm? yes ☐ no ☐

Amount of dust (visual perception) low ☐ medium ☐ high ☐ very high ☐

Velocity of air (at chute outlet) [m/s] _____

In case of velocity over 4 [m/s] contact the DocDust team for advice!

Installation

behind crusher / no feeder / screen? yes ☐ no ☐

Type of crusher: Jaw ☐ Cone ☐ Impact ☐

Height of fall:

(discharge height of bulk material) _____ [m]

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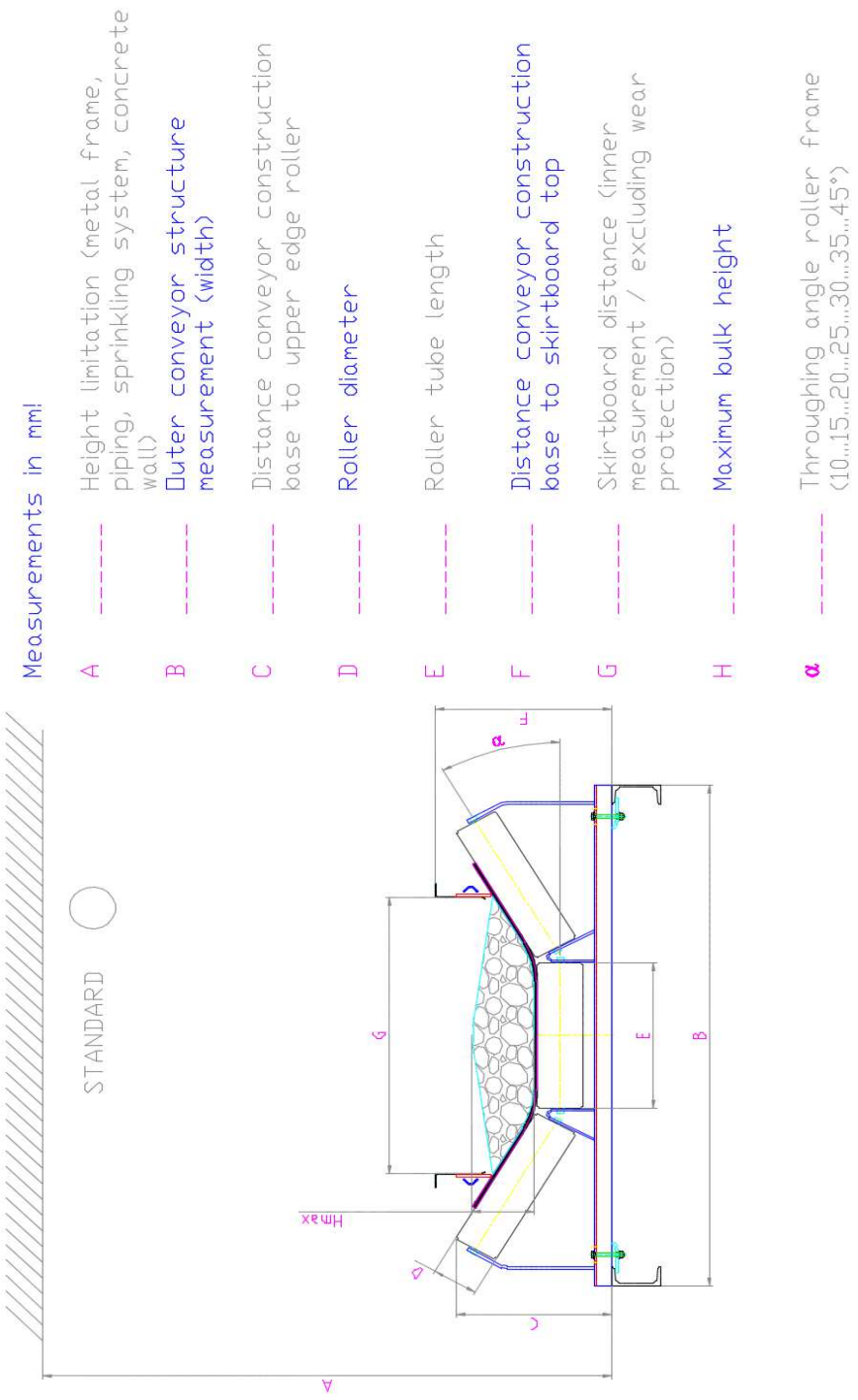
PLEASE SELECT THE SKIRTBOARD DESIGN:



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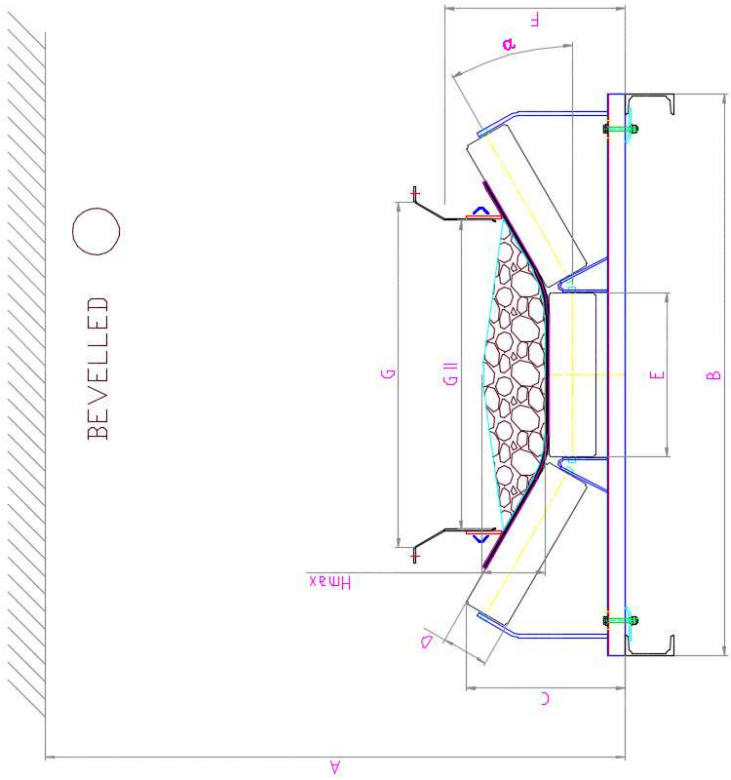
Measurements in mm!

A	------	Height limitation (metal frame, piping, sprinkling system, concrete wall)
B	------	Outer conveyor structure measurement (width)
C	------	Distance conveyor construction base to upper edge roller
D	------	Roller diameter
E	------	Roller tube length
F	------	Distance conveyor construction base to skirtboard top
G	------	Skirtboard distance (inner measurement / excluding wear protection)
G II	------	
H	------	Maximum bulk height
α	------	Throughing angle roller frame (10°..15°..20°..25°..30°..35°..45°)



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Volume flow calculation at chute outlet:

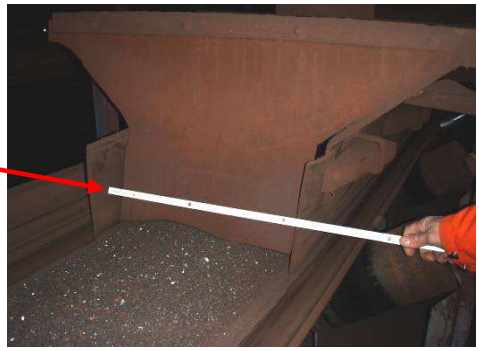
THE CORRECT CALCULATED VOLUME FLOW IS MOST IMPORTANT FOR THE DETERMINATION OF THE RIGHT AY500 – SYSTEM.

Please find attached the main information to measure the **air speed / velocity [m/s]** in the centre of the chute outlet opening; including calculation example for the correct **volume flow [m³/s]**.

1. Please make sure that you can take all the needed measurements **SAFE** because of the running conveyor belt including material load! Take care for all given (local) safety instructions!
2. Please measure the height & width of the chute outlet opening with an adequate measuring device (e.g. as shown in the attached pictures).

THE MEASUREMENT MUST BE TAKEN WITH NORMAL MATERIAL LOAD ON THE BELT!!!

(if there is no material on the conveyor belt the measurement for the outlet opening calculation is wrong – so the calculated volume flow will be wrong…)!



3. Measure the present air speed / velocity with an ANEMOMETER; make sure you are measuring in [m/s] (meter per second)

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4. The measurement must ideally be taken in the canter at the chute outlet opening. If you cannot cannot reach this point (don´t forget the SAFETY & hazard outgoing from the running belt conveyor, moving idlers & other technical devices around you…!) try to use a suitable kind of >extention bar<.

5. THE VELOCITY HAS TO BE MEASURED UNDER NORMAL WORKING CONDITIONS (NORMAL BELT SPEED & BULK MATERIAL LOAD)

6. **CRUSHING SYSTEM(S)** (JAW / CONE / IMPACT) **MUST BE RUNNING** DURING THE PERIOD OF MEASUREMENT (IF EXISTING BEFORE THE MATERIAL TRANSFER POINT!

7. **SUCTION SYSTEM(S)** MUST BE SWITCHED **OFF** (IF EXISTING)

In case of MEASURED velocity above 4 [m/s] we recommend to contact the factory for advice!

CALCULATION EXAMPLE:

WIDTH (of the outlet opening) **m** x **Height** (outlet) **m** x **Velocity** (current air speed) **ms**

= VOLUME FLOW m^3s

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4. Additional helpful data / Customer confirmation: ☐ yes ☐ no

(Neither material nor application bears risk of explosion)

Dust particle sizes (smallest / biggest):
(If available please send us the measurement report)

Humidity (ambient): **[%]**

Humidity of the material: **[%]**

The assay of a material sample in our lab is only available in conjunction with a material safety data sheet (MSDS)

Without MSDS, we do no assay!!!

Additional information, notes and specifics:

Roller / Idler diameter (89, 108, 133, 159…)……..

Roller / Idler tube length / shaft diameter…….

……

……

……

Contact: DocDust GmbH / Gehrdener Straße 7 / D-30952 Ronnenberg / GERMANY

Technical director

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