

Inquiry clarification - sludge piling technology

1. General project information

a) Contact details

Inquiry number:

Project name/number:

Company name:

Address:

Tel:

Fax:

Email:

b) Inquiry for...

Information

Quotation

Planning

Advice

c) Application case

Treatment plant

Sludge combustion

Sludge drying

Other:

d) Drawings & images

Are construction drawings available?
(Ideally in dxf, dwg or step format)

Are construction site images available?

Please enclose available documents, images, also hand sketches as attachments.

e) Quotation information

As follows:

End customer

Reseller

Engineering office

Your inquiry pertains to:

An existing project

Inquiry for a tender

Planned project
realisation time frame:

Installation site:

Special requirements re. the electrics:

Voltage:

Frequency:

Special local execution specifications:

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f) How did you hear about Huning?

Existing customer relationship
Recommendation
Newspaper advert
Other:

Trade fair visit
Internet

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g) Characteristics of the sludge to be conveyed:

Designation:

Origin of the sludge:

Density:

kg/m³

Dry matter content:

%

pH value:

Remarks re. the sludge:

Does the sludge contain free water?

kg/m³

%

h) Extraneous materials

Type of extraneous materials (e.g. stones):

Size of extraneous materials:

mm

Estimated mass fraction of extraneous materials

%

Is extraneous material separation required?

Separation required from what size:

mm

%

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mm

i) Run-times & throughput capacity

Throughput capacity per year:

t/year

Run-time in days per year:

h/year

Run-time in hours per day:

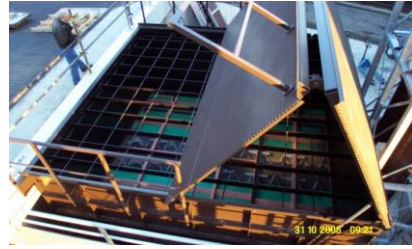
h/day

2. Reception systems

a) Reception container in steel construction (type SBCI)



Steel reception container, Bremen power station



Extraneous material grate and folding cover, Ibbenbüren power station

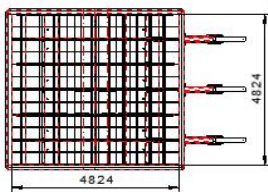


Hydr. folding cover

Reception system 4,8 x 4,8m



69m³ with 3,0m height
57m³ with 2,5m height
46m³ with 2,0m height

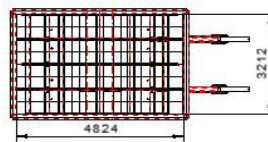


Discharge capacity:
up to 50m³/h

Reception system 3,2 x 4,8m



46m³ with 3,0m height
38m³ with 2,5m height
30m³ with 2,0m height



Discharge capacity:
up to 50m³/h

Huning reception containers are equipped with extended piston rods in the sludge area, so that the parts in contact with sludge do not drive into the hydraulic cylinder. The container can be fitted with an extraneous material grate and covers of different designs (including walkable folding roof). The inner sliding frames are driven by a hydraulic unit and convey the input substance to the discharge screw(s) positioned centrally.

Discharge capacity: up to approx. 50m³/h -60m³/h in the standard version.

Reception container

Reception version:

Top floor

Bottom floor

Max. bottom floor depth:

 m

Utilisable volume

 m³

Loading via:

- Wheel loader
- Telescopic loader
- HGV, dump truck - rear loading

Other:

Batch size filling/HGV: m³

Discharge capacity:

Discharge capacity required: m³/h
and / or t/h

Extraneous material grate:

Is an extraneous material grate with a mesh size of approx. 400x400mm intended above the reception container?

Container cover:

- Single part, hydr. folding cover
- Walkable, single part, hydr. folding cover
- Walkable, two-part, hydr. folding cover

Weighing mechanism:

Loss in weight solution (mounted on scale feet)

Conveyance after reception

Pump

Type:

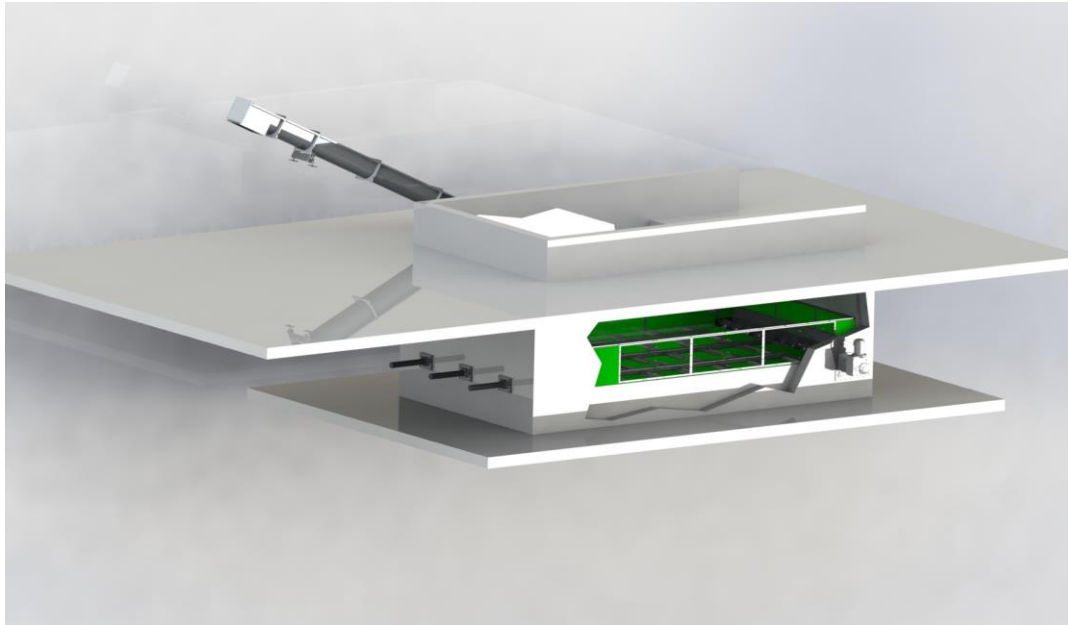
Mechanical conveyance systems:

Type:

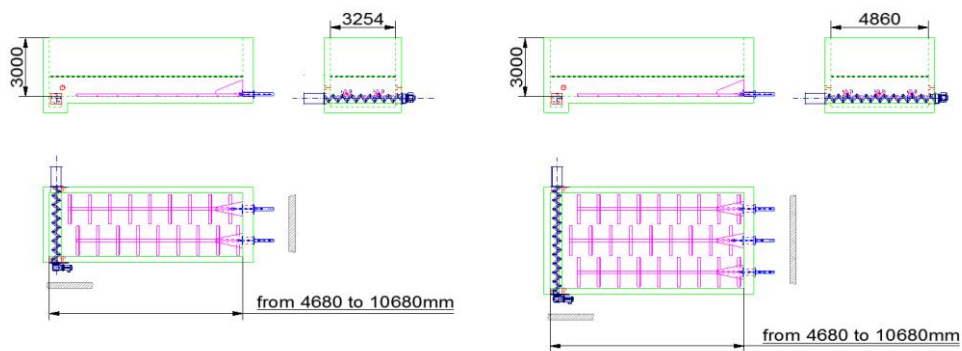
e.g. spiral, chain, bucket, belt conveyor

Further notes

b) Reception container in concrete construction (type hybrid)



Hybrid systems



Huning hybrid-concrete reception bunkers are an alternative to steel containers. The installation parts required for the sludge discharge are integrated directly in a concrete container. The bunker can be fitted with an extraneous material grate and covers of different designs. The hydraulically-driven discharge equipment conveys the sludge into a discharge spiral conveyor located on the front, or directly into a pump.

Discharge capacity: up to approx. 25m³/h in the standard version.

Reception container

Reception version:

Top floor
Bottom floor

Max. bottom floor depth:

m

Utilisable volume

m³

Loading via:

- Wheel loader
- Telescopic loader
- HGV, dump truck - rear loading

Other:

Batch size per filling process/HGV: m³

Discharge capacity:

Discharge capacity required: m³/h

and / or

t/h

Extraneous material grate:

Is an extraneous material grate with a mesh size of approx. 400x400mm required above the reception container?

Container cover:

- Single part, hydr. folding cover
- Walkable, single part, hydr. folding cover
- Walkable, two-part, hydr. folding cover

Conveyance after the reception container

Pump

Type:

Mechanical conveyance systems:

Type:

e.g. spiral, chain, bucket, belt conveyor

Further notes

3. Storage and silo systems

a) Sludge round silos



Huning sludge silos can be supplied in a range of different diameters. Filling can take place with continuous conveyors (e.g. spiral conveyors) or pumps. Hydraulically driven discharge mechanisms convey the sludge into discharge conveyors (spiral conveyors), which are usually positioned centrally.

The clad, head-high maintenance room beneath the silo can be heated during frosty periods and therefore guarantees fault-free operation all year round.

Discharge capacity depending on application and design: up to 100 m³/h in the standard version.

Sludge silo

Desired silo version:

- Ground level installation (Silo floor height as standard approx. 1.8m)
- Elevated installation for HGV under-running (only available for Ø4m, Ø6m and Ø8.5m)

Clearance beneath discharge: m

Utilisable volume required m³

Preferred silo diameter m

Silo floor heating

Silo jacket insulation m
(Height from silo floor)

Desired roof access:

- Stair tower
- Tank jacket steps
- Access ladder
- Catwalk with roof edge railings

Preferred filling with:

Spiral worm

Pump

Other:

Filling capacity required: m³/h

and / or

t/h

Discharge capacity:

Discharge capacity required:

	m ³ /h
and / or	
	t/h

Weighing mechanism:

Loss in weight solution
(silo on scale feet)

(only for Ø4, Ø6 m)

Conveyance after the sludge silo

Pump

Type:

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Mechanical conveyance systems:

Type:

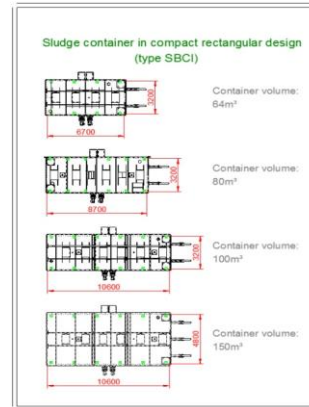
e.g. spiral, chain, bucket, belt conveyor

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Further notes

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b) Sludge container for HGV loading in compact rectangular design (type SBCI)



Huning sludge containers can be supplied in a range of different sizes, with two or three sliding frames. These are usually filled via conveyor screws, which press the sludge into the silo body and therefore almost completely utilise the storage volume. The internal hydraulically-driven sliding frames convey the sludge to the discharge screw(s) positioned centrally.

The steel structure beneath the container can be insulated and heated during frosty periods and therefore guarantees fault-free operation all year round.

Discharge capacity: up to 50 -60 m³/h

Sludge container

Container version:

- Floor installation (Height of steel substructure approx. 0.8m)
- Elevated installation for HGV under-running, centrally or from the side

Utilisable volume required m³

Preferred container dimensions (L x W) m

Container version:

Insulation and heating planned?

Container roof access:

- Access stairs
- Access ladder
- Roof edge railings

Preferred filling via:

- Spiral worm
- Pump

Other:

Filling capacity required: m³/h

and / or

t/h

Discharge capacity:

Discharge capacity required: m³/h

and / or

t/h

Weighing mechanism:

Loss in weight solution (on scale feet)

Conveyance after the container

Direct to HGV

(only possible from 4.5m elevation)

Via inclined spiral conveyor, etc. to HGV

Discharge into other conveyor path/container:

with pump

Type:

other conveyance systems:

Type:

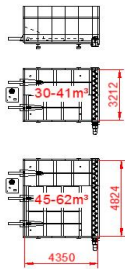
e.g. spiral, chain, bucket, belt conveyor

Further notes

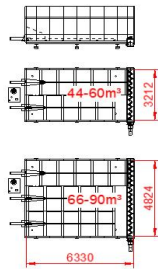
c) Sludge container as dryer store (type SBCK)



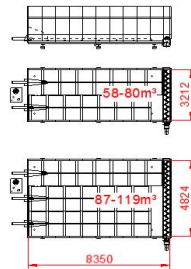
Pushfloor container 4,3m



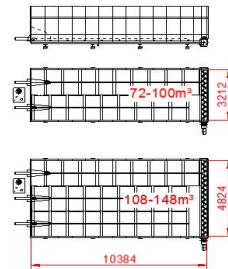
Pushfloor container 6,3m



Pushfloor container 8,3m



Pushfloor container 10,3m



Huning sludge containers can be designed in a range of different sizes, with two or three sliding frames. A hydraulically-driven discharge mechanism conveys the sludge into a discharge spiral conveyor located on the front, or directly into a pump.

Discharge capacity: up to approx. 25m³/h

Sludge container

Reception version:

Top floor

Bottom floor

Max. bottom floor depth:

 m

Desired utilisable volume

 m³

Loading via:

Wheel loader

Telescopic loader

HGV, dump truck - rear loading

Pump

Spiral worm

Other:

	Batch size per filling process/HGV:	<input type="text"/>	m ³
Discharge capacity:	Discharge capacity required:	<input type="text"/>	m ³ /h
		and / or	
	<input type="text"/>	t/h	
Extraneous material grate:	Is an extraneous material grate with a mesh size of approx. 400x400mm required above the reception container?	<input type="checkbox"/>	
Container roof:	Single part, hydr. folding cover	<input type="checkbox"/>	
	Walkable, single part, hydr. folding cover	<input type="checkbox"/>	
	Walkable, two-part, hydr. folding cover	<input type="checkbox"/>	
	Permanently mounted roof	<input type="checkbox"/>	
Scales equipment required?:	Loss in weight solution (mounted on scale feet, only for steel construction)	<input type="checkbox"/>	

Conveyance after the container

Direct to HGV (only possible from 4.5m elevation)

Via inclined spiral conveyor to HGV

Discharge into other conveyor path/container:

Pump

Type:

Mechanical conveyance systems:

Type:

e.g. spiral, chain, bucket, belt conveyor

Further notes

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