WE CARE.



SAMPLING



HECHT samplers for powder or bulk

protection.

construction height.

process reliability.

products offer a simple handling whilst

ensuring highest operator- and product

All of our sampler versions are of robust

structure and especially developed for

industrial applications with e.g. limited

The easy-to-dismantle designs allow a

methods, individual set-ups and a flexible

adjustability of the systems ensure an

optimal user comfort and constant

validate cleaning process. Various

versions for different installation

GENERAL



It is a key topic within any kind of industry and branch to maintain a constant and steady product quality. Guaranteeing a consistent high-level quality of chemical products, medication or nutrition and consumables is a fundamental requirement, long before focusing on the health aspect of the end user.

Permanent sampling and regular product analysis are essential for the identification of deviations and the necessary reactions to discrepancies. Samples must always be taken at exactly the right spot and in appropriate quantity.



SCREW SAMPLER



SPOON SAMPLER





OVERVIEW

The HECHT Spoon Sampler is a convenient inline sampling system with a flexible sampling vessel (spoon) that can be operated either pneumatically or manually.

The HECHT screw sampler is the ideal solution for a representative sampling of any kind of bulk material. At individually selectable time intervals, the defined amount of product is sampled either automatically or manually by means of a hand wheel.

The HECHT Vacuum Sampler is ideally suited for closed and automated inline-sampling of powders and granulated materials from a product column. The special design for flush-wallinstallation was recently patented.



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VACUUM SAMPLER





Whether for installation in silos or in downpipes – the HECHT screw sampler is the ideal solution for a representative sampling of any kind of bulk material.

At individually selectable time intervals, the defined amount of product is sampled either automatically or manually by means of a hand wheel. A pre-installed self-cleaning function guarantees the validity of the samples.

INFO SHEET

Depending on our customers' requirements, we offer various connections for matching sample vessels as well as different sealing valves.

ADVANTAGES



- Installation in silos or downpipes
 possible
- Different diameters for screw samplers available
- Automated or manual sampling method
- Easy-to-dismantle version for simple cleaning



PROCEDURE



The sampling screw rotates into the material flow, extracts a representative cross-section from the production flow and transports it into a sample vessel. An adjustable timer determines the sample quantity.

Runtimes and pause times between two sampling operations are individually configurable. Before starting a further sampling process, the screw changes to reverse operation for a self-cleaning cycle.

The product conveyed during the self-cleaning process is fed back into the production flow. Different systems like stuffing boxes / gland seals or a shaft ring seal ensure a final sealing. To guarantee a considerate and gentle product handling, it is recommended to install a counter-bearing.

OPTIONS

- Downpipe: The sampler is installed between two flanges inside the downpipe
- Silo: The sampler is installed to a nozzle welded to a silo wall

An outlet cover (flap, ball valve or pinch valve) avoids product trickling or dust emission whenever the product vessel is disconnected.

Depending on the type of sample vessel HECHT offers various connection systems:

- Spring steel wire clamp (for small and light sample quantities)
- Quick action clamp (for large and heavier sample quantities)
- Thread connections for bottles

HECHT screw samplers can easily be combined with a sampling magazine or a sample collector with endless liner.



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The HECHT Vacuum Sampler is ideally suited for closed and automated inline-sampling of powders and granulated materials from a product column.

The special design for flush-wallinstallation was recently patented:

Due to its dead-space-free structure, the vacuum sampler neither contains mechanical parts protruding into the production flow, nor any hidden angles, which could complicate a thorough cleaning.

Therefore, it is ideally suitable for poor flowing products and high-level hygienicand Containment applications.

The pneumatic swivel drive opens the sealing valve via rotation (max. 180°) By means of a vacuum function, the product is aspired from the product column.

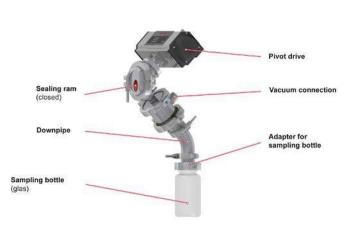
An integrated ring filter avoids product loss in the vacuum pump.

INFO SHEET

As soon as the defined amount is collected in the glass bottle, the ring filter is cleaned with a pressure impulse and the sealing valve closes.



SETUP





ADVANTAGES

- · Sampling process flexibly adjustable due to different sizes of the sealing valve, the opening degree and the opening time
- Vacuum-tight and pressure resistant (up to 2,0 bar)
- Production flow is permanently free of mechanic parts
- Easy Cleaning
- Fast and simple dismantling due to Tri-Clamp connections
- Single components are easy to clean manually, wet cleaning is possible
- Dead-space-free construction simplifies the cleaning considerably
- Sampling is possible form blenders, dryers, pressure vessels and stirring tanks

OPTIONS

- Additional (Glove-) Box for Containment applications
- Shut-off devices to seal the sampler and avoid trickling when no bottle is attached
- Expandable with sampling magazine for up to 24 samples or with endless liner.



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DESCRIPTION AND CONSTRUCTION



The HECHT Spoon Sampler is a convenient inline sampling system with a flexible sampling vessel (spoon) that can be operated either pneumatically or manually.



Full cup with the sample is retracted again.

poor-flowing products can easily be sampled and filled in various sample vessels.

The spoon sampler is perfectly suitable

for installations in downpipes. Even



180° rotation of the cup; sample is tipped out in the down pipe



The beater is used for removing residues (when poor-flowing products are handled)

PROCEDURE





During the sample process with the HECHT spoon sampler, the empty spoon is inserted in the vertical product flow.

A previously defined amount of product can now be collected with the spoon. Following, the filled spoon draws back into the sampling case, rotates 180° and drops the sample product into a discharge nozzle or a collecting tank.

A special sealing unit protects the guidance for the longitudinal movement as well as for the rotation.



ADVANTAGES

- During the sampling process, the sampler does not interfere with the product flow
- By means of a small knocker it is possible to even discharge poor-flowing products from the flexible sampling vessel (spoon).
- Easy to dismantle (Tri-Clamps) and easy to clean
- Discharge into various sampling vessels (for example bottles); Connection to a sampling magazine or a sample connector with endless liner is possible





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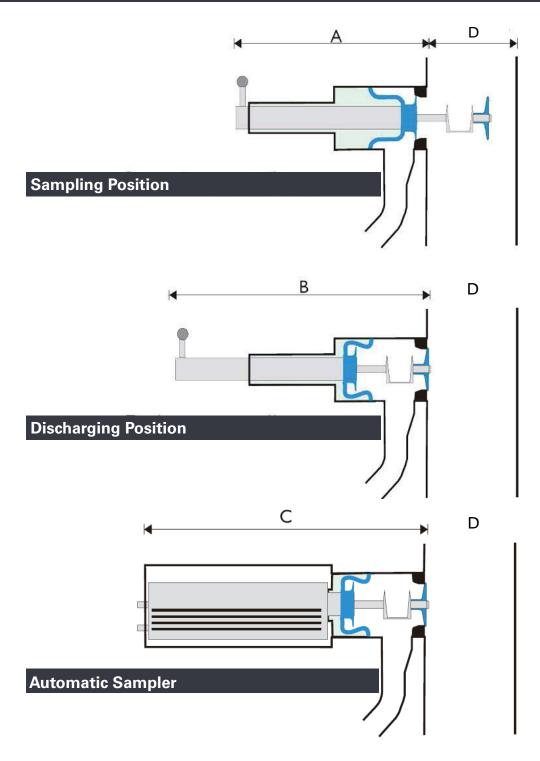
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INFO SHEET



POSITION OVERVIEW



Pipe diameter D (mm)	150	200	250	300	400
Manual Sampler A (mm)	352	410	460	510	610
Manual Sampler B (mm)	452	510	560	620	710
Atom. Sampler C (mm)	468	518	568	618	718

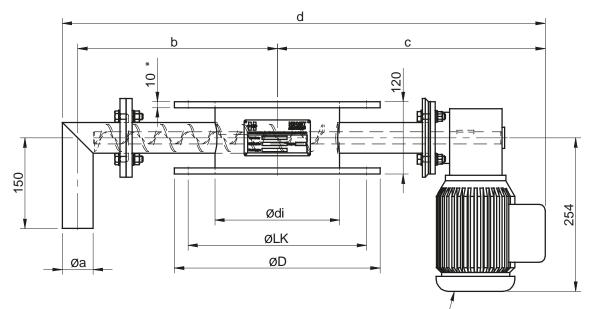


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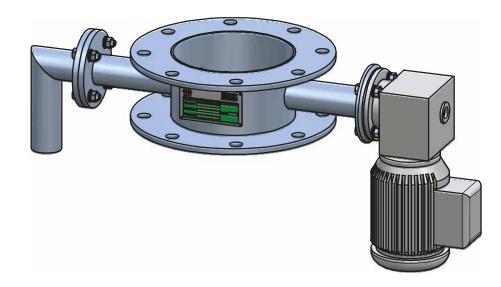
BASIC VERSION



motor can be bolted in different position 0° - 90° - 180° - 270°

* reduced flange thickness

DIMENSION SHEET



	Measu	rements for	helix Ø 25 /	45mm	Flange measur	rements accord	ing to DIN 2576			
DN	Øa	b	С	d	ØD	Ø Lk	Ødi			
	mm									
200		330	443	788 / 798	340	295	200			
250	32 / 51	355	468	838 / 848	395	350	250			
300		380	493	888 / 898	445	400	300			
400		430	543	988 / 998	565	515	400			



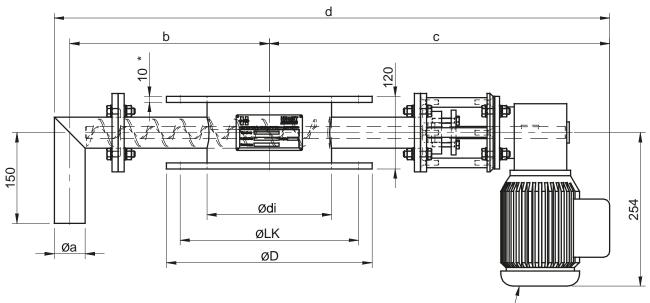
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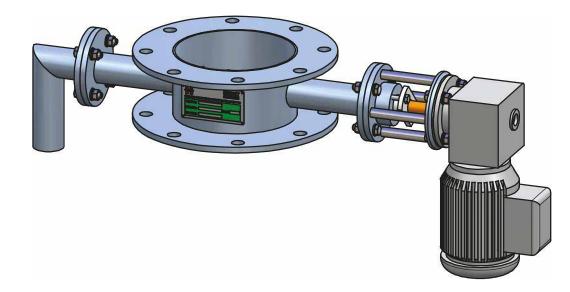


WITH GLAND BOX OR PURGE AIR SEALING



motor can be bolted in different position 0° - 90° - 180° - 270°

* reduced flange thickness



	Measur	ements for	helix Ø 25 /	45mm	Flange measur	ements accord	ing to DIN 2576			
DN	Øa	b	С	d	ØD	Ø Lk	Ødi			
	mm									
200		330	563	908 / 918	340	295	200			
250	22/51	355	588	958 / 968	395	350	250			
300	32 / 51	380	613	1008 / 1018	445	400	300			
400		430	663	1108/1118	565	515	400			



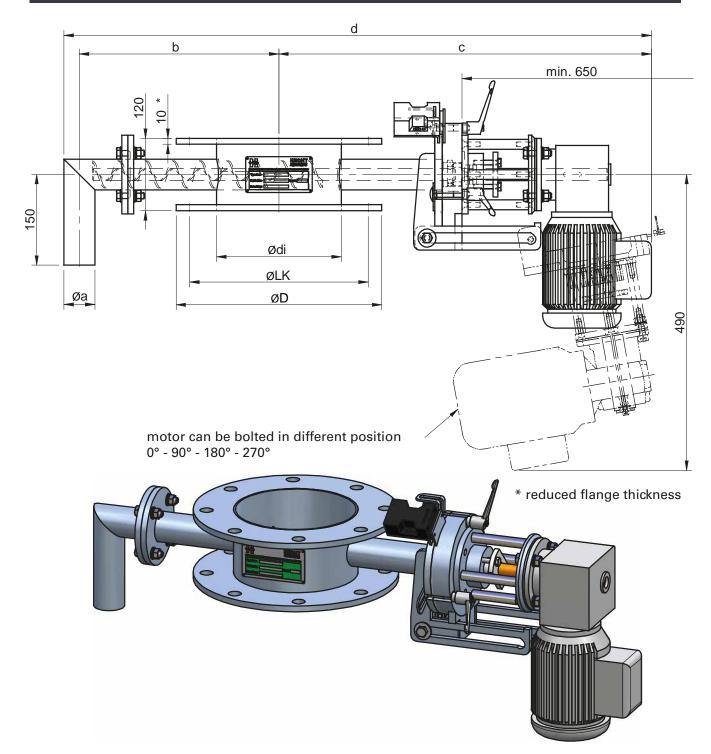
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QUICK DISCONNECTABLE VERSION



	Measurements for helix Ø 25 / 45mm					Flange measurements according to DIN 2576				
DN	Øa	b	с	d	ØD	Ø Lk	Ø di			
	mm									
200		330	616	961 / 971	340	295	200			
250	22/51	355	641	1011 / 1021	395	350	250			
300	32 / 51	380	666	1061 / 1071	445	400	300			
400		430	716	1161 / 1171	565	515	400			



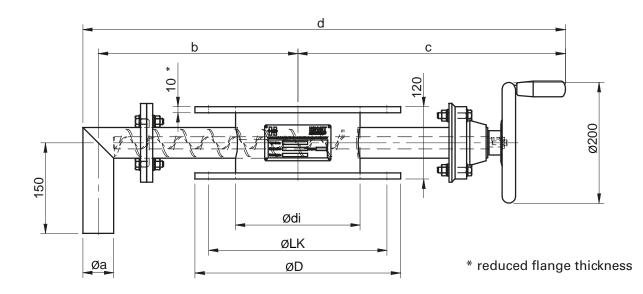
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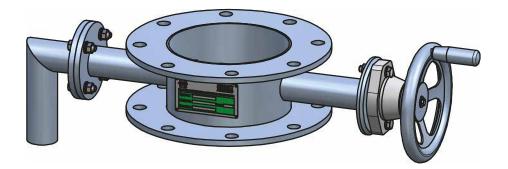
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HANDWHEEL OPERATION





	Measurem	ents for hel	ix Ø 25 / 45r	nm	Flange measur	ements accord	ing to DIN 2576			
DN	Øa	b	С	d	ØD	Ø Lk	Ø di			
	mm									
200	32 / 51	330	443	788 / 798	340	295	200			
250		355	468	838 / 848	395	350	250			
300		380	493	888 / 898	445	400	300			
400		430	543	988 / 998	565	515	400			



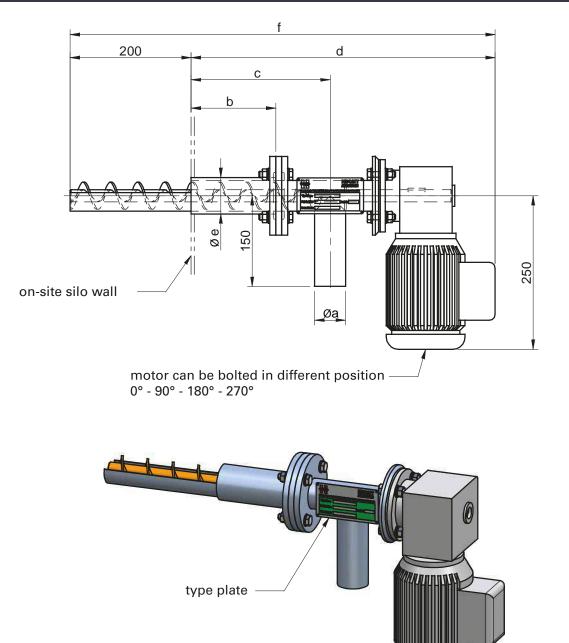
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DIMENSION SHEET



BASIC VERSION



Ø screw shaft	Øa	b	С	d	Øe	f		
mm								
25	32	100	180	443	40	643		
45	51	140	230	503	60,3	703		



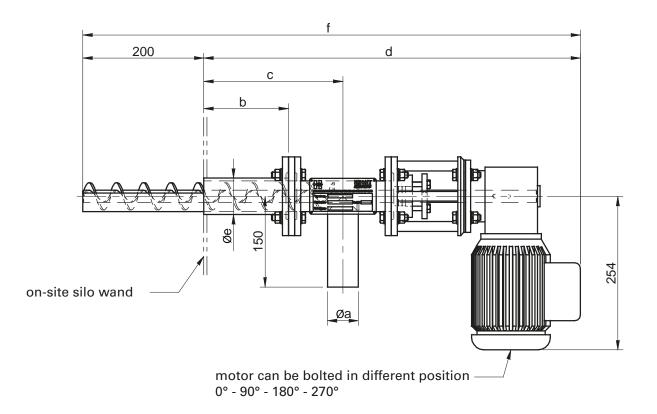
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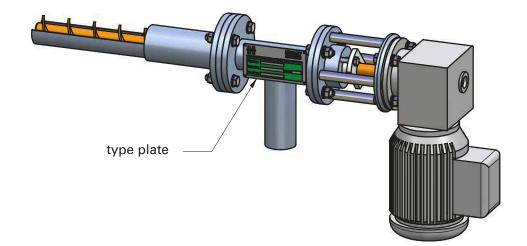
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WITH GLAND BOX OR PURGE AIR SEALING





Ø screw shaft	Øa	b	С	d	Øe	f		
mm								
25	32	100	180	563	40	763		
45	51	140	230	623	60,3	823		



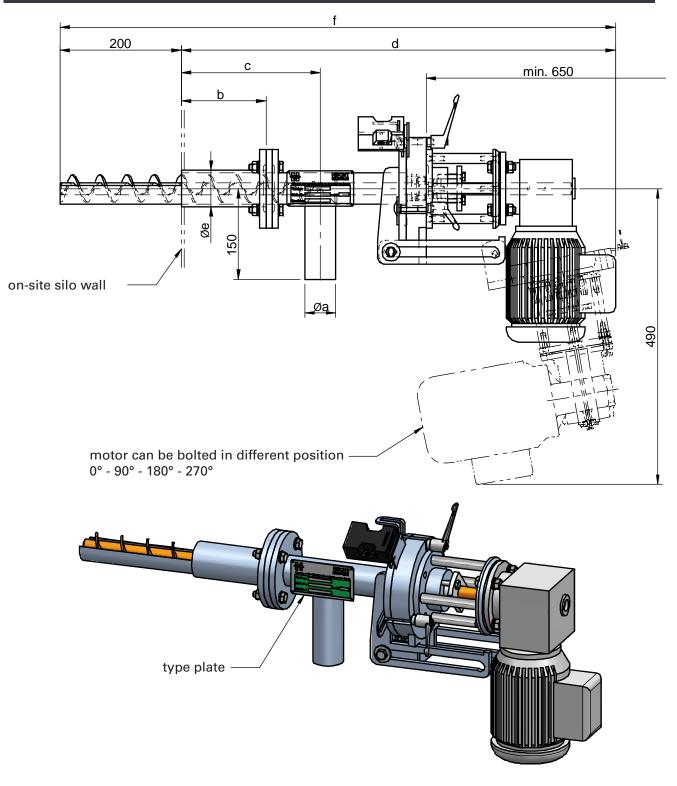
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QUICK DISCONNECTABLE VERSION



Ø screw shaft	Øa	b	с	d	Øe	f		
mm								
25	32	100	180	563	40	763		
45	51	140	230	623	60,3	823		



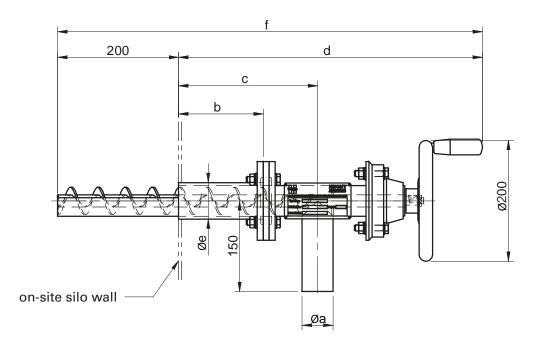
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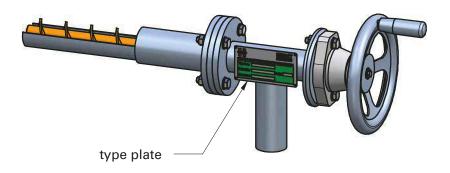
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HANDWHEEL OPERATION





Ø screw shaft	Øa	b	С	d	Øe	f		
mm								
25	32	100	180	442	40	642		
45	51	140	230	502	60,3	702		



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