

Screw Compactors. The powerful assistants



H&G Screw Compactor



Dipl.-Ing. Bernd Henrich
Managing director
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· Stahlbehälterbau Greis
· H&G
· Steelforming

Waste disposal is our business. It has been right from the start and that's precisely where our successes lie.

They are rooted in the uncompromising development and improvement of our products and systems that have made us technology and market leaders - products like the H&G Screw Compactors, for example.

They are in use wherever the rising flood of waste and reusable materials needs to be effectively controlled: at leading international discount stores, waste disposal companies, customers from business and industry. The principle is to reduce vast amounts of waste to a minimum of their original volume so efficiently that they can be disposed of quickly, economically and with a minimum of manpower.

For most customers, disposal of waste and reusable materials is not their core business.

It does, however, have great cost-cutting potential, provided the correct compaction equipment is used - H&G Screw Compactors.



So, why should you choose a Screw Compactor from H&G when there are other systems and manufacturers? Because you want the special benefits a sound family enterprise can offer: high levels of expertise that have evolved with the company, synergies that determine price and quality and the fact that we manufacture all our components ourselves at our own works in Germany. This gives us the required flexibility when it comes to designing customized solutions. All good reasons for choosing the appropriate Screw Compactor from H&G.

The location for engineering efficiency



H&G Screw Compactor



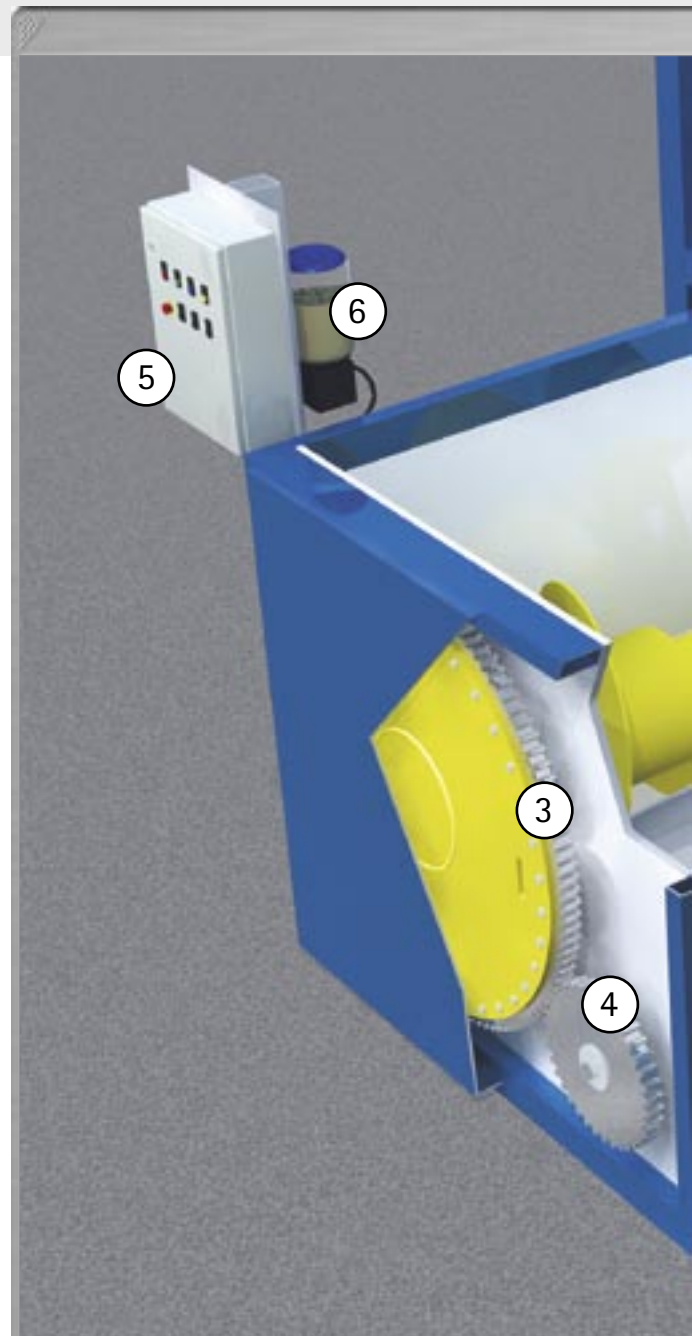
The stationary Screw Compactor consists of the press and the removable container.

The Compactor itself is in a fixed location, while the container is mobile and can be detached quickly and easily when it needs emptying.

The mobile Screw Compactor is different. Press and container form one complete unit which can be moved to a different location whenever required or for emptying.

All H&G Screw Compactors have one very distinct advantage: their high degree of compression. Thanks to their robust and compact design, they can, in contrast to conventional presses, compress huge amounts of waste powerfully and continuously in the shortest possible time - regardless of material and size. That means, the greater the waste reduction, the better the utilization of container capacity. This increases the length of emptying cycles and optimizes transport capacities.

An economical solution for all concerned.

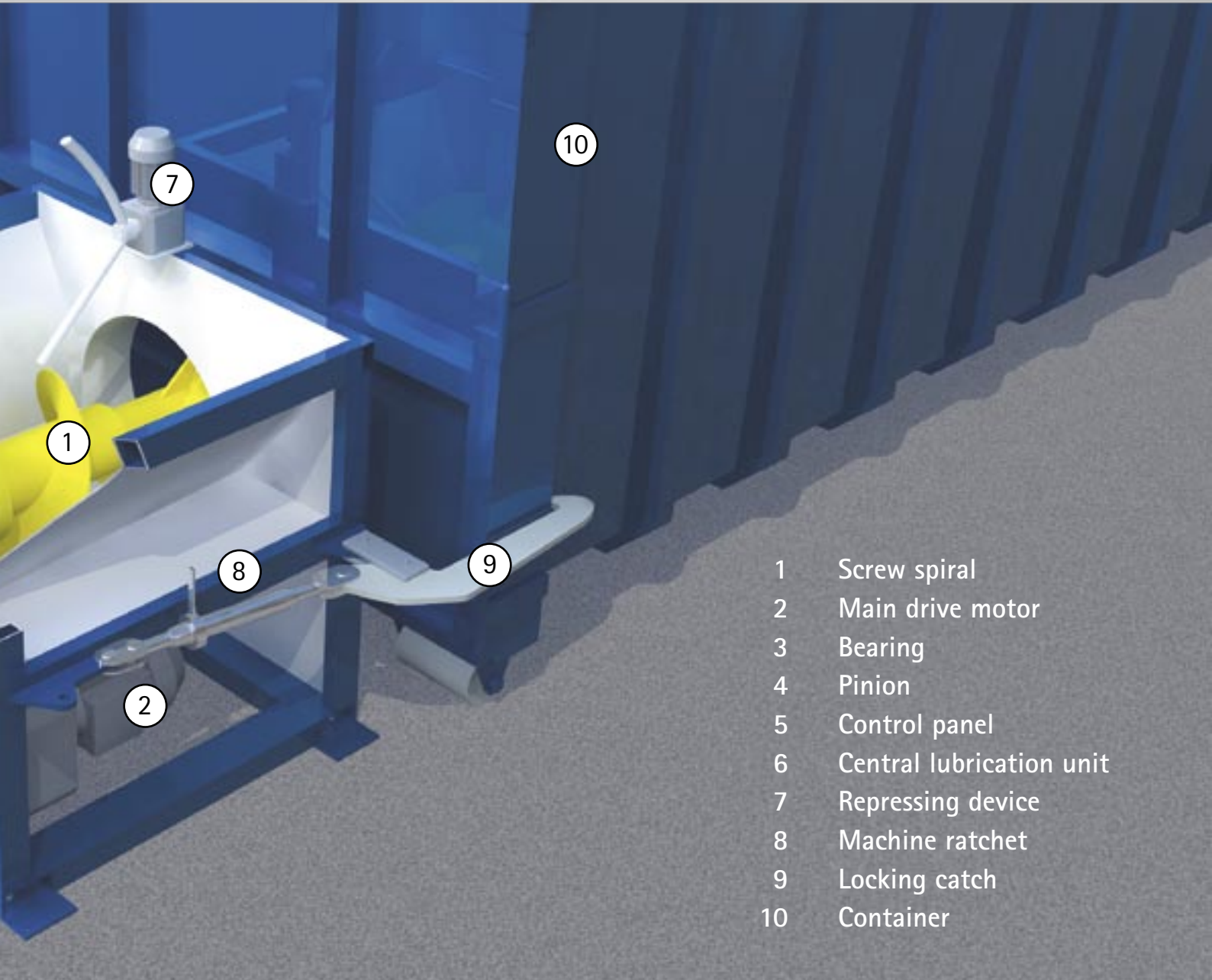


Direct drive – the modern concept.

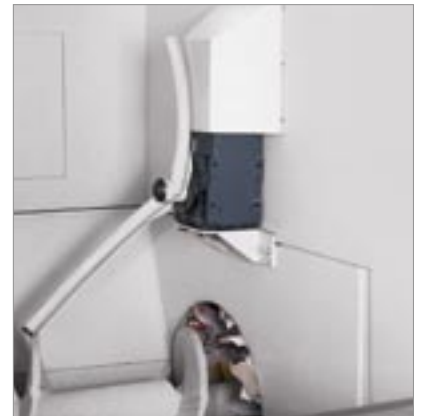
You want to be sure that your waste disposal is carried out quickly, cleanly, reliably and economically. In that case, H&G Screw Compactors are a safe choice, and one that is backed up by more than 4,000 installations all over Europe. Thanks to their compact design and electro-mechanical direct drive system H&G Screw Compactors operate with total reliability and require very low maintenance.

They are also robust and durable, characteristics that explain their remarkable international success.

The intelligent Power Pack



- 1 Screw spiral
- 2 Main drive motor
- 3 Bearing
- 4 Pinion
- 5 Control panel
- 6 Central lubrication unit
- 7 Repressing device
- 8 Machine ratchet
- 9 Locking catch
- 10 Container



H&G Screw Compactor



The principle behind the success of H&G Screw Compactors is to compact large amounts of waste and reusable materials into such small volumes to enable fast, clean and economical disposal. To do so, the degree of compaction is the key factor. Compared to hydraulic presses, the Screw Compactor can achieve significantly higher filling weights.

H&G Screw Compactors operate universally, in that they can compact almost all materials into the waste containers. Wood, pre-crushed PET bottles, foils and residual waste.

You can be quite sure that the H&G Screw Compactor will deal with everything, reliably and quickly, with no malfunctions and low manpower needs. And the working environment will always remain clean and tidy.

Special, separately driven feeding devices geared to each specific material guarantee a higher throughput and the smooth passage of each load through the machine.



Material	Compaction
Paper and cardboard	250 kg/m ³
Heavy duty cardboard	250 kg/m ³
Residual waste	300 kg/m ³
Foils	200 kg/m ³
Wood	200 kg/m ³
PET bottles (without deformer)	150 kg/m ³
PET bottles (with deformer)	200 kg/m ³

* details based on 32 m³ container

to a minimum – the absolute minimum



Feeding device for paper and card board



Feeding device wood crusher



Feeding device for heavy duty cardboard



Feeding device cardboard pre-shredder

H&G Screw Compactor



The H&G Screw Compactor is the press that will crush anything - even over-dimensional or special materials. Whatever the material, high through-put and a smooth passage through the machine is guaranteed, thanks to special feeding devices, developed by H&G.

These separately driven feeding devices are geared to each specific recyclable material or waste and, in combination with the Screw Compactor, guarantee the smooth passage of every load.

That's why in H&G Screw Compactors, anything goes!

Machine type	HG/SV	8	11	15
Width	mm	1500		
Length	mm	1420		
Height	mm	1300		
Loading opening	mm	1400 x 1200		
Drive power	KW	7,5	11	15
Screw speed	n/min	15	15	17
Power supply		400 V 50 Hz		
Fuse rating		50 A	50 A	63 A
Dead weight	approx. kg	1800	1850	1950

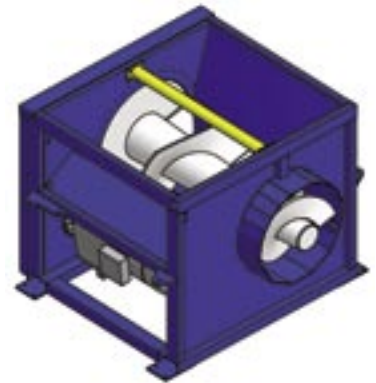
Container	
Container	up to 36 m ³ capacity
Skip container	up to 20 m ³ capacity

Mobile screw compactor	up to 29 m ³ capacity
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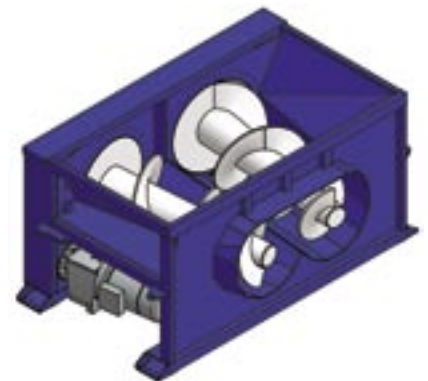
Anything goes -



Screw Compactor without feeding device
Fractions: foils, residual waste, polystyrene, pre-crushed PET bottles



Screw Compactor with guide tube
Fractions: wood, non-returnable pallets
For manual loading

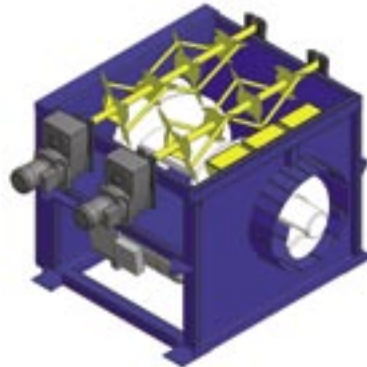


Double Screw Compactor, single chamber
Fractions: foils, residual waste, polystyrene, pre-crushed PET bottles

– thanks to special feeding devices



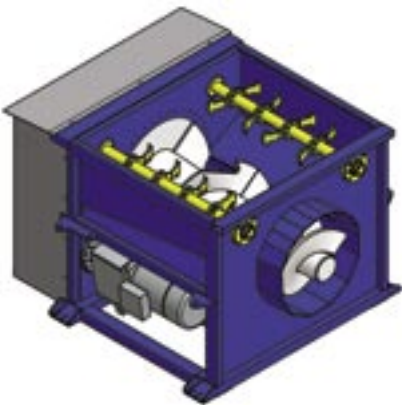
Screw Compactor with whirler
Fractions: paper, cardboard,
small cardboard packaging



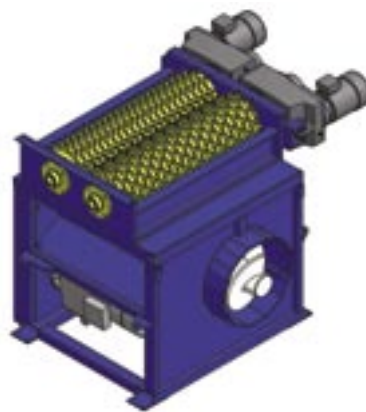
Screw Compactors with heavy duty
cardboard feeding device
Fractions: heavy duty cardboard
and flat cardboard packaging
for manual loading



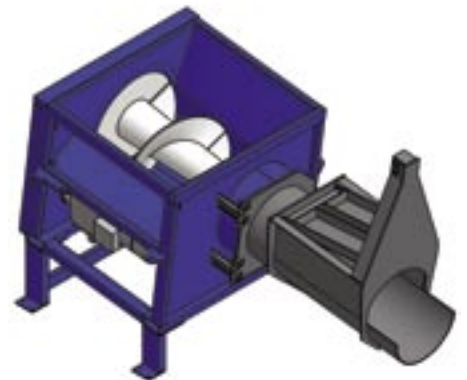
Cardboard pre-crusher
Fractions: heavy duty cardboard
and flat cardboard packaging
for automatic loading



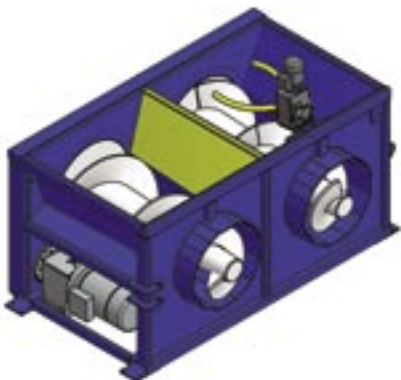
Screw Compactor with wood-crusher
Fractions: wood, Euro pallets



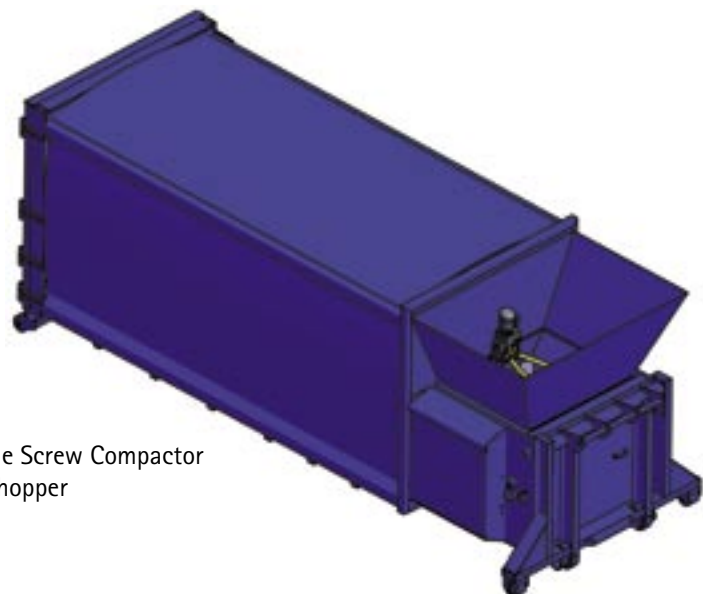
Screw Compactor with PET deformer
Fractions: PET bottles, plastic bottles



Dewatering Screw Compactor
Fractions: fruit and vegetables,
beverage and food packaging



Double-Screw Compactor,
double chamber,
Fractions: paper, cardboard,
pre-crushed PET bottles, foils,
residual waste



Mobile Screw Compactor
with hopper

H&G Screw Compactor



Before compaction, PET bottles are pre-crushed and made invalid as deposit bottles by a deformer to reduce their volume to a minimum.

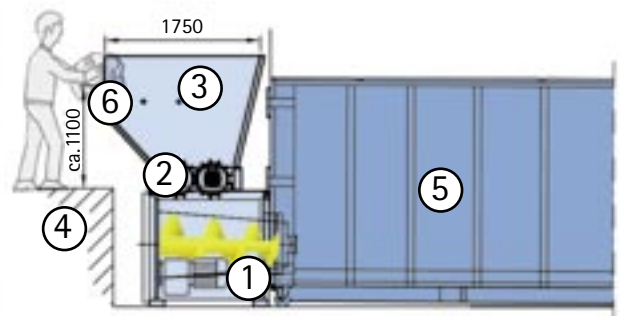
The deformer consists of two robust counter-rotating special rollers driven by two powerful drive motors. A throughput capacity of up to 150 m³/hour ensures high container filling weights.

PET bottles can be thrown in individually or in sack loads. And what's more, rejected stocks of full bottles which have passed the sell-by date, or incorrect batches can also be compacted without any problems or restrictions. The performance of the deformer is coordinated precisely with that of the Screw Compactor. Disposal of PET bottles couldn't be more economical.



Screw Compactor with deformer

- 1 Screw Compactor
- 2 Deformer
- 3 Chute
- 4 Ramp
- 5 Container 32 m³
- 6 Pressure sensitive safety edge



The End of the PET Bottle



H&G Screw Compactor



Experience shows that the simpler and more practical loading the Screw Compactor is, the cleaner and tidier the working environment remains. This can be seen clearly when using an H&G tilting unit. User-friendly in every respect, it makes this particular job so easy that the staff have much more time to do their real work. This way, time and costs are cut to a minimum.

The unit is available in three variations:

- mechanical,
- electric,
- electro-hydraulic

All three models enable the widest possible range of different containers to be emptied with a minimum of time and effort.



Mechanical tipping device

tilting, compacting – it's all fully automatic



Electric tipping device



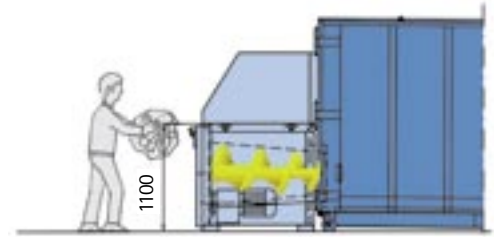
Electro-hydraulic tipping device

H&G Screw Compactor

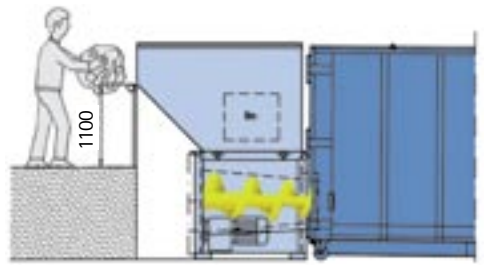
When installing an H&G Screw Compactor system, we always keep the customer's overall situation in mind: their individual production processes, for instance, or any unusual local conditions. We can design our installation so it will not only fit flexibly into the given structural conditions, it will even look good at the same time. Everything is possible: Filling from the left, the right, the front, from ground level or even from a higher floor in the building. It all depends on the available space.



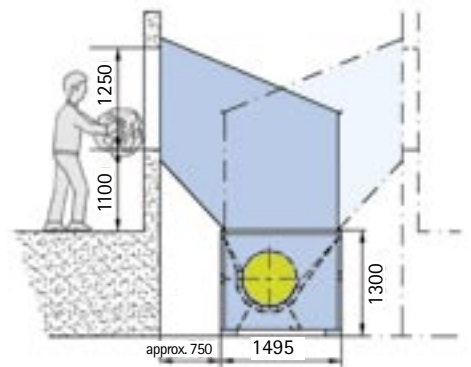
At home everywhere



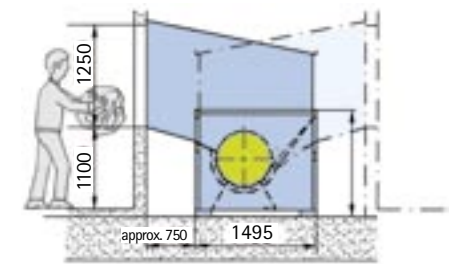
Ground level filling



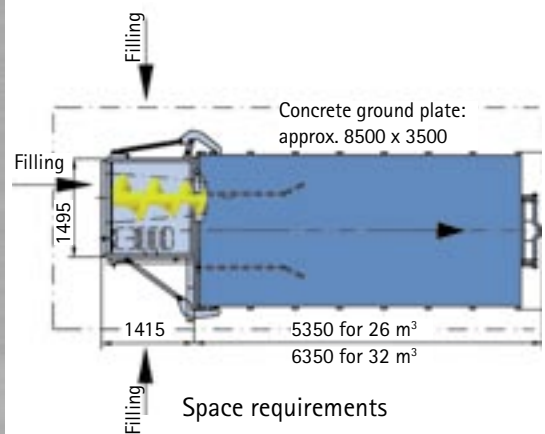
Ramp filling



Attached to a building



Special machine, with reduced chute height



Space requirements

H&G Screw Compactor



As a rule, the Screw Compactor with the waste container is located outside the building and filled from inside, literally through the wall. The waste container can easily be coupled and uncoupled for emptying. There are locations where this is simply not possible, because the container is inside the building or where it is too difficult or impossible for the container transporter to reach. In such cases, H&G can offer you a practical rail track solution: the container transportation unit. During use, the waste container is located in the building and can be filled here optimally. For emptying, it is simply moved outside on the rails, where it can be pulled onto the transporter easily and without any restrictions - fast, clean and regardless of the location.

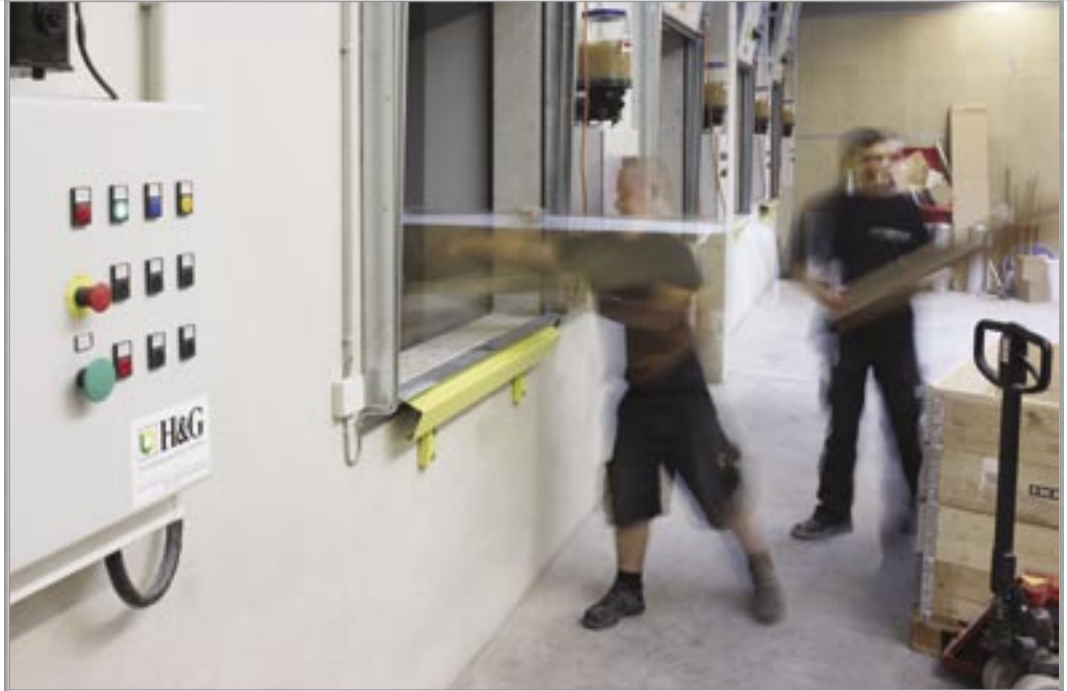


No matter how diverse structural conditions may be, the H&G screw compactor system can always be made to fit in anywhere.

Always on the right track



H&G Screw Compactor



Service – this is a term that can cover almost anything. For us at H&G it means making things as simple and safe for the operators of our compactors as modern technology will allow.

For the control systems of H&G Screw Compactors, this means that all the important information and working parameters provided must be so clear, logical and easy to understand that anyone can operate the machines safely. That is the H&G standard control system.

On request, we can also supply a control system with a higher level of service, including a frequency converter control system, retrievable parameters and automatic remote diagnosis. Service on a different, far more extensive level.

For example: a text message will inform the waste disposal company when your container is full and ready for collection.

Or: the H&G Service can dial into your control system directly and identify error sources and offer solutions or provide you with a service technician straight away.

The benefit for you is obvious: reduced downtimes, complete process stability and reliability. These are just a few examples to show that you will never be alone with your H&G Screw Compactor.

Our Service – Your Benefit



Consulting, Evaluation

Consulting begins with the inspection of the project and an initial on-site evaluation. Our experienced experts identify and collect all project relevant data.

Planning, Project scheduling

We plan and develop a solution geared to your individual needs, taking all project specific details into account. This includes project drawings, consultations and coordination with all partners involved in the project.

Investment

Cost calculation for the products used, as well as for installation and commissioning round off our service.

Servicing, Maintenance and Repair

Our service centres all over Germany guarantee fast reaction times in the event of malfunctions that cannot be remedied by our telephone support service. To maintain operational reliability, we offer maintenance contracts based on a machine's application and its level of utilization.

Financing Service

For a number of years, we have been concluding favourable financing deals for our customers. We can offer or broker various financing packages including leasing and normal renting deals.

With contracts running for 12-60 months, your hands are not tied financially and you can use the benefits H&G offer, without any strains on your liquidity.

Just speak to us and we'll send you a free-of-charge financing offer tailored to your individual wishes.

From a good family



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Three companies, one partnership:

Originated 50 years ago in steel tank construction.

Developed into an international market leader for products and systems in the world of waste disposal.

· **Stahlbehälterbau Greis**

Steel engineering, special containers, roll-on/roll-off and skip containers

· **H&G Entsorgungssysteme**

Screw compactors, hydraulic presses, baling presses, underground container collecting systems for modern waste disposal and collection of recyclable materials

· **Stelforming**

Half shells, cones, bended parts of all kinds, transition pieces from round to square

The partnership's strength lies in the uncompromising utilization of synergies. These enterprises, in the third generation of family ownership, manufacture all their components in close cooperation in their own production plants.

The result is extreme flexibility and extensive technological expertise in steel engineering and modern waste disposal management.

Where would we be without steel.

And ideas.

Typical Siegerland.



Ideen für eine saubere Umwelt