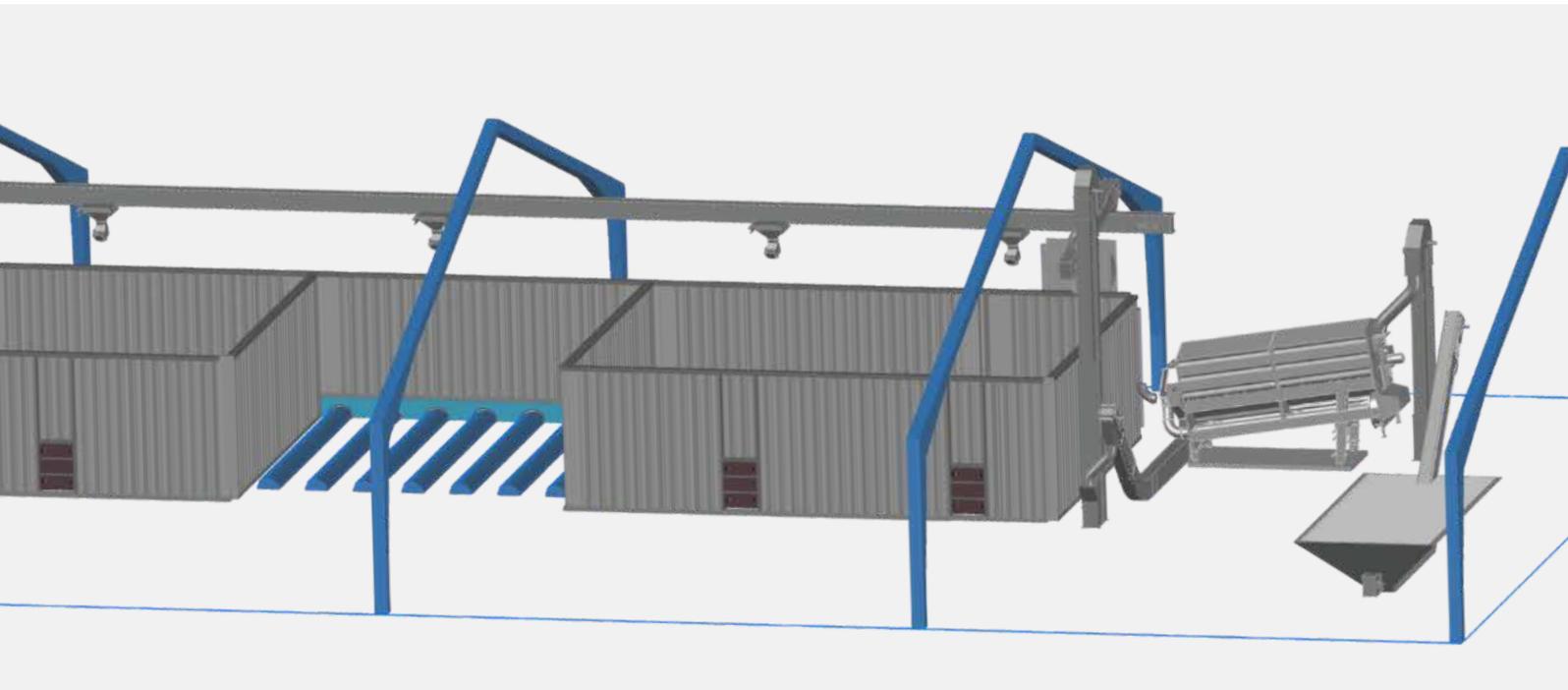


Crop Ventilation Systems

**Efficient Ventilation
for Grain Storage**

Flat Storage



Why Safe Storage Matters

When grain is harvested, securing safe storage is the next priority. Regardless of the conditions under which the grain is harvested, it is an organic material that contains moisture, making it vulnerable to mould growth, fungal contamination, and insect infestation if not stored properly.

The Importance of Moisture and Temperature Control

It is all about maintaining the right moisture levels, temperature, and aeration of the stored grain. A well-constructed and well-operated storage solution is essential to ensure safe storage that meets food safety standards while avoiding quality losses and financial consequences.

Flat Storage Advantages

Flat storage is a very popular method for storing grain in many parts of the world. The costs associated with establishing such a facility are competitive, and the operation of the facility is highly flexible.

The grain is dried and stored in the same silo compartments, reducing the need for additional transport and monitoring. Furthermore, it is often possible to use the same buildings for other purposes at times of the year when there is no grain in the facility.

Versatile Solutions for On-Floor Drying in Flat Storages

Kongskilde offers a complete range of equipment for efficient on-floor drying and storage of grain and seeds. The flexible systems can be combined into virtually any drying and aeration setup and are ideal for both new installations and existing buildings — whether an on-floor solution with lateral ducts or a system with under-floor channels and drive-over travel grates.

Durable Construction and Modular Design

All components are made of galvanised, corrugated metal, providing high compression strength. The modular design and wide variety of components offer high flexibility, making it easy to create a tailored system that fits your specific drying and aeration needs.

Advantages & Benefits

- Cost-effective, professional ventilation solution
- Easy installation
- Proven, durable design for reliable long-term use
- Compatible with most grain types, including rapeseed and other small seeds
- Solutions for potatoes available



On-Floor Systems with Lateral Ducts

A common and cost-effective method of supplying air to grain storage is by using lateral ducts; these semi-circular ducts are positioned on the floor, above floor level.

Kongskilde's lateral ducts ensure optimal air distribution, making them ideal for all crop types, including small seeds. With varied sizes and tapered design options, the ducts can be combined to suit any drying or aeration setup, providing a highly customizable solution for grain storage and drying facilities. This solution is especially effective for integration into existing flat storage systems.

The lightweight ducts are easy to install, disassemble, and move, allowing the building to be used for other purposes when the ducts are not in use.



Flat Storage Solution With Underfloor Aeration Channels

An on-floor solution combining shuttering embedded in the concrete floor with perforated drive-over travel grates. The perforated design ensures excellent airflow while maintaining a flat, accessible surface for vehicles.

With this solution, it is easy to tip and reload grain or seed directly from the drying floor, allowing for efficient handling with a front loader. Supplied shuttering boxes, end plates, and shutters help streamline construction.

This system is rated for a 10-ton lorry load in accordance with bridge class 60/30.

High-Volume Fans, Perfect Aeration Blowers

Our range of high air volume aeration blowers provides efficient drying and ventilation for grain and other crops, helping maintain optimal storage conditions and preserve crop quality. They are suitable for a wide variety of crops, including grain, corn (maize), peas, grass seed, hay, beets, onions, and potatoes.

The airflow rate remains consistent, even as air pressure varies with different crops in on-floor storage. This makes galvanised HVL blowers particularly effective for small-seed crops such as rapeseed, clover, and mustard, which create higher airflow resistance. With minimal air temperature rise, HVL blowers are also well suited for cooling crops during storage.



Point-Aerators

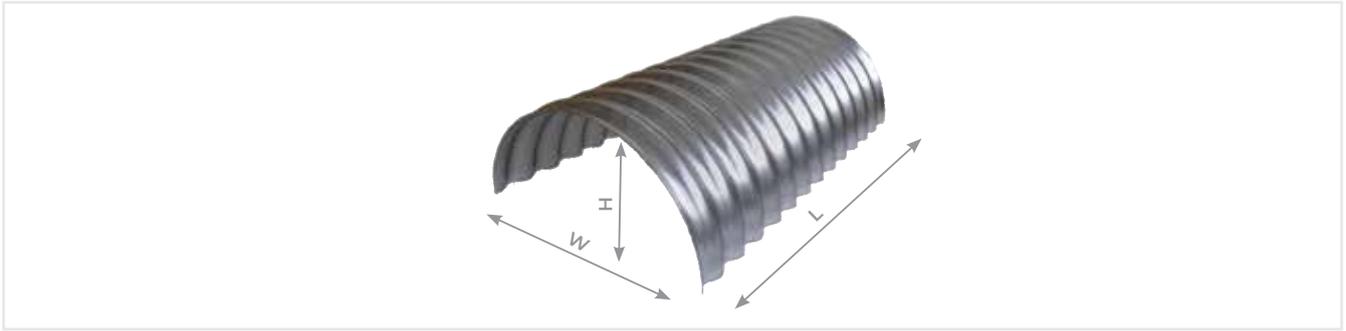
Even in well-constructed and well-maintained on-floor storage facilities, certain areas may still need extra attention to protect grain quality and avoid costly issues.

The Teyfun point aerator provides a practical solution, allowing you to target heat spots with additional aeration or remove excess moisture using its suction function.

For temporary grain storage without a built-in ventilation system, the Teyfun also serves as a valuable, easy-to-use support tool.



Lateral Duct Selection



Lateral Ducts

A complete range of lateral ducts and accessories is available for efficient on-floor drying and storage. Offered in multiple sizes, the ducts ensure optimal airflow and even air distribution throughout the entire system.

Various perforation options make them suitable for nearly all grain types, including rapeseed and other small seeds, and the range also includes specialized lateral ducts for potatoes and onions.

Lateral Ducts for Potatoes and Onions

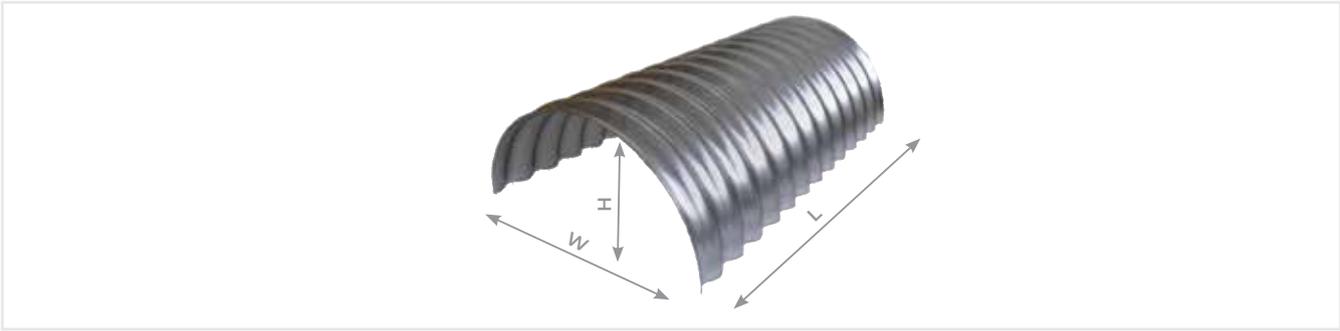
- Type KMP P are fully perforated with Ø10 mm holes and ideal for potatoes and onions
- Galvanised design
- Free cross-section approx. 6.5%

EDP-No	Type	Length, mm	Width, mm	Height, mm	Perforation, Ø mm	Material thickness, mm	Pcs. per pallet
Size 900							
9382105409	KMPP 900	900	480	240	10.00	1.00	100
Size 1600							
9382105416	KMPP 1600	900	640	320	10.00	1.00	50
Size 2500							
9382105425	KMPP 2500	900	800	400	10.00	1.00	50
Size 3500							
9382105435	KMPP	900	950	470	10.00	1.25	35
Size 4800							
9382105448	KMPP	900	1100	550	10.00	1.25	35
Size 6300							
9382105463	KMPP 6300	900	1280	640	10.00	1.25	30
Size 7200							
9382105472	KMPP 7200	900	1630	680	10.00	1.25	30



KMP P ducts are fully perforated with Ø10 mm holes





Lateral Ducts for Grain, Rape, and other Seeds

- For bulk and free-flowing grain and seeds
- Galvanised design
- Effective duct length 850 mm
- Free cross-section approx. 28%
- Maximum storage height for grain approx. 15 m
- Air volume/h at 10 m/sec for P 900 = 3,200 m³/h
- Air volume/h at 10 m/sec for P 1600 = 5,700 m³/h

EDP-No	Type	Length, mm	Width, mm	Height, mm	Perforation, Ø mm	Material thickness, mm	Pcs. per pallet
Size 900							
9382105009	KMP 900	900	480	240	2.00	0.70	150
9382105109	KMP 900T	900	480	240	2.00	0.70	150
9382105309	KMP 900R	900	480	240	1.50	0.70	150
112122020	KMG 900	900	480	240	1.3 louvre	0.75	70
Size 1600							
9382105016	KMP 1600	900	640	320	2.00	0.95	100
9382105116	KMP 1600T	900	640	320	2.00	0.95	100
9382105316	KMP 1600R	900	640	320	1.50	0.95	100
Size 2500							
9382105025	KMP 2500	900	800	400	2.00	1.07	80
Size 3500							
9382105035	KMP 3500	900	950	470	2.00	1.25	50
Size 4800							
9382105048	KMP 4800	900	1100	550	2.00	1.25	35



KMP lateral ducts are fully perforated with Ø2 mm holes

KMP **R** lateral ducts are fully perforated with Ø1.5 mm holes



KMP **T** lateral ducts are with closed top and only perforated along the sides.

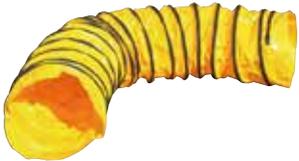


KMG lateral ducts with closed top and vent louvres along the sides.

Aeration Accessories

Various accessories are available for all listed lateral duct sizes.

EDP-No.	Product Description	Image
Adaptors to connect lateral ducts of different sizes		
9382105540	KMP 900-KMP 1600 reduction adapter for lateral duct, galvanised	
9382105541	KMP 2500-KMP 1600 reduction adapter for lateral duct, galvanised	
9382105542	KM 3500-KMP 2500 reduction adapter for lateral duct, galvanised	
End plates		
9382105545	KMP 900 end plate for lateral duct, galvanised	
9382105546	KMP 1600 end plate for lateral duct, galvanised	
9382105547	KMP 2500 end plate for lateral duct, galvanised	
Connections for wooden walls incl. shutter (not illustrated)		
9382105550	KMLT 900 connection for lateral duct on wood, incl. shutter, length 200 mm, galvanised	 Shutter not illustrated
9382105551	KMLT 1600 connection for lateral duct on wood, incl. shutter, length 200 mm, galvanised	
9382105552	KMLT 2500 connection for lateral duct on wood, incl. shutter, length 200 mm, galvanised	
Connections for concrete walls incl. shutter (not illustrated)		
9382105555	KMLM 900 connection for lateral duct on concrete, incl. shutter, length 350 mm, galvanised	 Shutter not illustrated
9382105556	KMLM 1600 connection for lateral duct on concrete, incl. shutter, length 350 mm, galvanised	
9382105557	KMLM 2500 connection for lateral duct on concrete, incl. shutter, length 350 mm, galvanised	
Connection for aeration with Ø connection		
9382105530	KMP 900-Ø300 mm aerator connection, galvanised	
9382105531	KMP 1600-Ø300 mm aerator connection, galvanised	
9382105532	KMP 1600-Ø400 mm aerator connection, galvanised	
9382105533	KMP 1600-Ø500 mm aerator connection, galvanised	
9382105534	KMP 2500-Ø500 mm aerator connection, galvanised	
Connection for aeration directly to lateral duct channel		
9382105520	KMP 900-Ø300 mm aerator connection angled, galvanised	
9382105521	KMP 900-Ø400 mm aerator connection angled, galvanised	
9382105522	KMP 1600-Ø300 mm aerator connection angled, galvanised	
9382105523	KMP 1600-Ø400 mm aerator connection angled, galvanised	
9382105524	KMP 2500-Ø400 mm aerator connection angled, galvanised	

EDP-No.	Product Description	Image
T-connection pieces		
9382105505	T-distributor for KMP 900 lateral duct, galvanised	
9382105506	T-distributor for KMP 900 on KMP 1600 lateral duct, galvanised	
9382105507	T-distributor for KMP 1600 on KMP 2500 lateral duct, galvanised	
Y-connection pieces		
9382105509	Y-distributor for KMP 900 lateral duct, galvanised	
9382105510	Y-distributor for KMP 1600 lateral duct, galvanised	
9382105511	Y-distributor for KMP 2500 lateral duct, galvanised	
Cross connection pieces for 4-ways intersections		
9382105515	X-distributor for KMP 900 lateral duct, galvanised	
9382105516	X-distributor for KMP 900 on KMP 1600 lateral duct, galvanised	
9382105517	X-distributor for KMP 1600 lateral duct, galvanised	
V-connection pieces for 90 degree angles / corners		
9382105501	V-distributor for KMP 900 lateral duct, galvanised	
9382105502	V-distributor for KMP 1600 lateral duct, galvanised	
Hessian to cover lateral ducts when drying small seeds		
9382001290	Hessian roll, 100 m, quality 10 oZ, width 102 cm	
9382001291	Hessian roll, 100 m, quality 10 oZ, width 127 cm	
9382001292	Hessian roll, 100 m, quality 10 oZ, width 152 cm	
9382001293	Hessian roll, 100 m, quality 10 oZ, width 180 cm	
Spiral connection hoses		
9382002160	Spiral hose Ø250 mm / 1.5 m with 2 clamps, max. 70 degree C, PVC	
9382002166	Spiral hose Ø250 mm / 3.0 m with 2 clamps, max. 70 degree C, PVC	
9382002161	Spiral hose Ø320 mm / 1.5 m with 2 clamps, max. 70 degree C, PVC	
9382002167	Spiral hose Ø320 mm / 3.0 m with 2 clamps, max. 70 degree C, PVC	
9382002162	Spiral hose Ø420 mm / 1.5 m with 2 clamps, max. 70 degree C, PVC	
9382002168	Spiral hose Ø420 mm / 3.0 m with 2 clamps, max. 70 degree C, PVC	
9382002163	Spiral hose Ø520 mm / 1.5 m with 2 clamps, max. 70 degree C, PVC	
9382002169	Spiral hose Ø520 mm / 3.0 m with 2 clamps, max. 70 degree C, PVC	
9382002164	Spiral hose Ø650 mm / 1.5 m with 2 clamps, max. 70 degree C, PVC	
9382002170	Spiral hose Ø650 mm / 3.0 m with 2 clamps, max. 70 degree C, PVC	
9382002165	Spiral hose Ø710 mm / 1.5 m with 2 clamps, max. 70 degree C, PVC	
9382002171	Spiral hose Ø710 mm / 3.0 m with 2 clamps, max. 70 degree C, PVC	

Underfloor Aeration Systems

Drive-over Ventilation Grates



Drive-Over Grates & Underfloor Shuttering

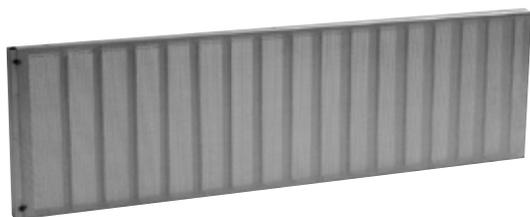
An on-floor drying and storage solution with underfloor aeration channels and perforated drive-over grates provides a fully unobstructed floor area, allowing easy access for lorries and other traffic.

The channels are formed using shuttering boxes, also referred to as steel troughs or formers. Once the channel system is positioned and embedded in the concrete floor, the drive-over grates are installed in the shuttering, functioning as below-floor laterals.

- For bulk and free-flowing grain and seeds
- Galvanized design
- Grain and seed-dense connections with 15 mm overlap at the joints
- This system is specified for 10t lorry load according to bridge class 60/30
- Free cross-section: approx. 23%
- Recommended air speed 10 m/sec

Travel Grates

- Travel grates are available in 2 lengths with Ø1,5 mm or 2 mm perforation
- KMP 300 made from 1,5 mm material
- KMPS 300 extra strong, made from 2 mm material



EDP-No	Type	Length, mm	Width, mm	Height, mm	Perforation, Ø mm	Material thickness, mm	Weight, kg
KMP 300 Travel Grates, 1,5 mm galvanized steel							
9382102030	KMP 300	1000	300	34	1.50	1.50	15.5
9382102028	KMP 300	500	300	34	1.50	1.50	8.0
9382102031	KMP 300	1000	300	34	2.00	1.50	15.5
9382102029	KMP 300	500	300	34	2.00	1.50	8.0
KMPS 300 Travel Grates, 2,0 mm galvanised steel							
9382102032	KMSP 300	1000	302	35	1.50	2.00	16.5
9382102034	KMSP 300	500	302	35	1.50	2.00	8.5
9382102033	KMSP 300	1000	302	35	2.00	2.00	16.5
9382102035	KMSP 300	500	302	35	2.00	2.00	8.5

Shuttering Boxes for Drive-Over Grates

- 1 **Threaded bars M6x500 mm:**
1 each m channel
- 2 **Nut & shield washers M6x30 mm:**
4 each m channel
- 3 **Assemblies:**
2 each panel
2 each angle piece
4 each T-piece
- 4 **Carriage bolt M6x16 mm:**
With nut, 6 each channel
T-piece, 6 each channel
End sheet, 4 each
Angle piece, 6 each
Facet washer/8mm, 1 each carriage bolt

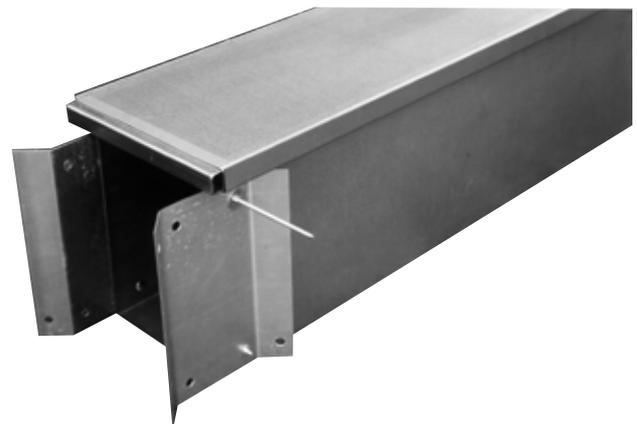
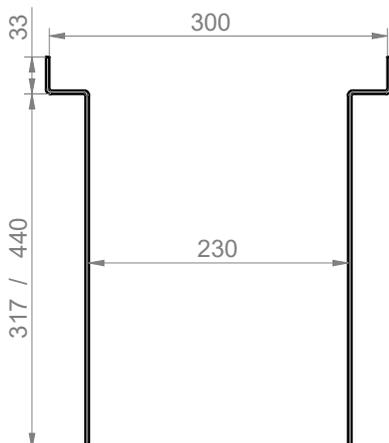


Shuttering boxes for travel grates

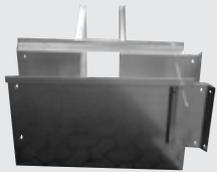
All shuttering boxes and accessory parts are made of galvanized steel and can be used for both KMP and KMSP travel grates. The 2 different heights can be combined as can all the different connection pieces and accessories.

When ordering shuttering these are supplied with the necessary fitting for easy assembly.

EDP-No	Type	Length, mm	Width bottom, mm	Width top, mm	Height, mm	Material thickness, mm
Shuttering boxes, 350 mm height, galvanised						
9382102115	Shuttering box	500	230	300	350	1.50
9382102113	Shuttering box	1000	230	300	350	1.50
9382102111	Shuttering box	2000	230	300	350	1.50
Shuttering boxes, 473 mm height, galvanised						
9382102114	Shuttering box	500	230	300	473	1.50
9382102112	Shuttering box	1000	230	300	473	1.50
9382102110	Shuttering box	2000	230	300	473	1.50



Shuttering Accessories

EDP-No	Type	Length, mm	Width bottom, mm	Width top, mm	Height, mm	Image
Angle pieces, galvanised						
9382102120	Angle 90 degree	1000x1300	230	300	350	
9382102121	Angle 90 degree	1000x1300	230	300	473	
T-pieces, galvanised						
9382102125	T-piece	1000x500	230	300	350	
9382102126	T-piece	1000x500	230	300	473	
End plates, galvanised						
9382102101	End plate	1,5	230	300	350	
9382102102	End plate	1,5	230	300	473	
Shuttering with shutter, galvanised						
9382102130	Shuttering with vertical shutter	250	230	300	315	 Top part can be ordered separately
9382102131	Shuttering with vertical shutter	250	230	300	438	
9382102132	Shuttering with horizontal shutter and 350 mm grate	800	230	300	350	
9382102134	Top part with horizontal shutter and 350 mm grate	800		300		
Channel connections, galvanised						
9382102135-350	Channel connection for Ø250 mm	300	230	300	350	
9382102135-473	Channel connection for Ø300 mm	300	230	300	473	
Reduction plate for connecting shuttering boxes of height 473 and 350 mm, galvanised						
9382102103	Reduction for shuttering box, 473 - 350 mm		230		120	

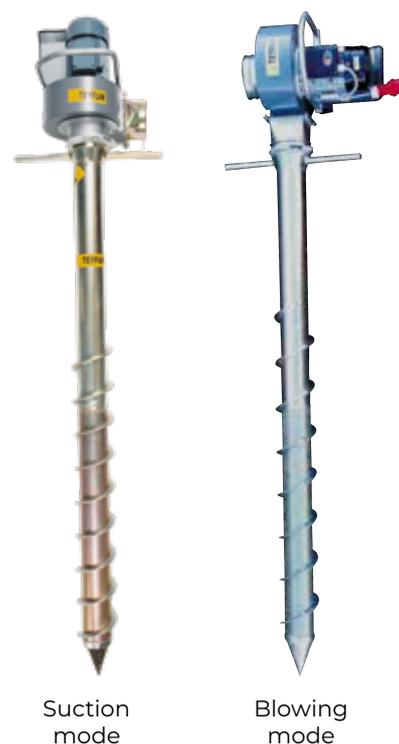
Teyfun Point Aerator

Teyfun Point Aerator

The Teyfun Point Aerator is designed for aeration and limited drying of grain and seed crops. It is a flexible tool that can supplement on-floor drying systems in flat storage or for temporary grain stacks where no aeration system is installed.

Portable and easy to relocate, the Teyfun can blow cool ambient air into the grain to improve ventilation or use its suction function to extract warm air, remove heat pockets, and help prevent combustion risks.

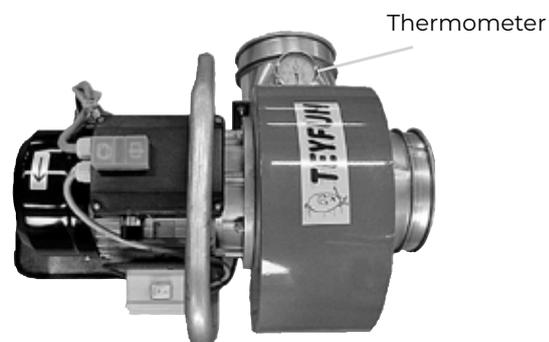
- Available in two models: KM 15 with 1.5 kW motor and KM 22 with 2.2 kW motor
- Galvanised perforated aerating lance in 1.85 m and 2.30 m lengths
- Handle, screw-in auger, and pointed tip for easy insertion into the grain
- Motor protection
- CEE plug
- Blower unit with handle and quick-release assembly for fast switching between blowing (pressure) and suction modes
- Each aerator covers an area of up to 16 m²
- Air stream reaches approx. 1 m below the lance tip
- Suitable for grain, rapeseed, various seed types, forage, and other sprayable, non-aggressive, and non-explosive materials



EDP-No.	Product Description	Lance length, m	Lance dia., mm	Output at 120 mm WC, m ³ /h
Teyfun Complete Units				
9382000515-187	KM 15 Teyfun with motor 1.5kW 3x400V 50Hz	1.87	Ø120	1400
9382000515-220	KM 15 Teyfun with motor 1.5kW 3x400V 50Hz	2.20	Ø120	1400
9382000522-187	KM 22 Teyfun with motor 2.2kW 3x400V 50Hz	1.87	Ø120	1750
9382000522-220	KM 22 Teyfun with motor 2.2kW 3x400V 50Hz	2.20	Ø120	1750

Optional Equipment

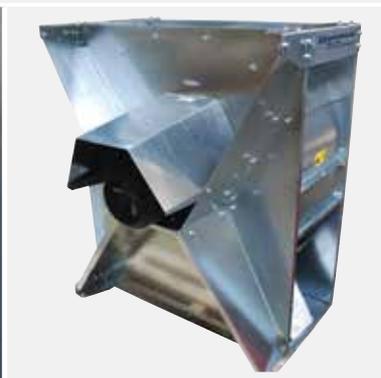
EDP-No.	Product Description
Teyfun Optional Accessories	
9382001215	KM 15 Teyfun blower 1.5kW 3x400V 50Hz with analogue thermometer and OK 160 quick-release clamp
9382001222	KM 22 Teyfun blower 2.2kW 3x400V 50Hz with analogue thermometer and OK 160 quick-release clamp
9382001230	Flange OK 160 for suction function for KM 15/22 Teyfun
9382001220	KM 15/22 Teyfun lance 1.87 m Ø120 mm with Ø1.5 mm perforation incl. handle
9382001221	KM 15/22 Teyfun lance 2.20 m Ø120 mm with Ø1.5 mm perforation incl. handle
9382203110	Electrical kit with motor protection and CEE plug for KM 15/22 Teyfun
9382203111	KM 15/22 Teyfun conversion kit for 230V
9382001235	KM 15/22 Teyfun filter installed on the blower air outlet (granary weevils)



HVL Aeration Blowers



Backwards curved rotor blades ensure high airflow and optimal efficiency.



Rain cover for outdoor installation available as optional.



HVL 30 - 250 for horizontal or vertical installation without the need for extra parts.



Vibration dampers available as optional for HVL 30 - 250.

Kongskilde offers a wide range of high-volume low-pressure blowers ideal for drying and aeration of grain and other crops.

Suitable for different applications

The air flow rate of this type of blower varies little with changes in the air pressure resistance, caused by the different types of crops in on-floor-storages, silos or driers.

The HVLs are therefore an ideal solution, also for small-seed crops like rape seed having a higher resistance to the air flow.

Owing to the very low temperature rise these blowers are also suitable for ventilation and cooling of crops. In industrial installations, the HVL blowers may be used for exhaust and ventilation purposes.

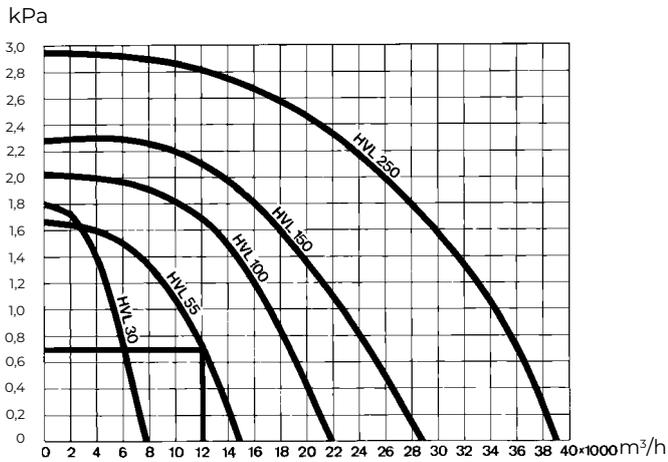
The HVL blowers can be installed in parallel – two smaller HVL blowers set up in parallel offer some advantages. This type of installation gives better flexibility when drying only partially filled systems. Furthermore, the starting ampere of each smaller blower is less demanding on the electrical installation.

Benefits

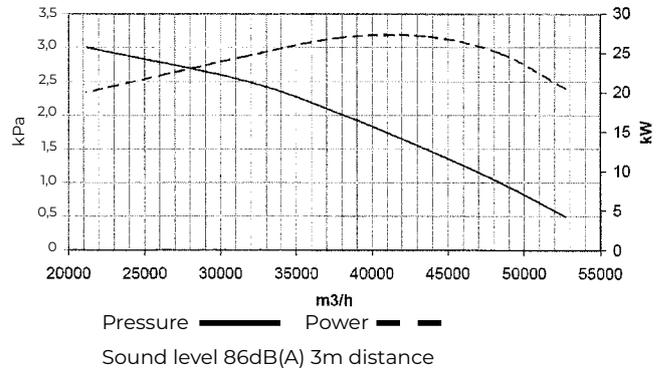
- Wide range of blowers.
- Ideal for all sizes of installations.
- Made of galvanised steel, suitable for outdoor installation.
- Rotors with backwards curved blades, carefully balanced.
- Sturdy construction.
- Direct driven motors, reducing service time and costs.

Technical Specifications

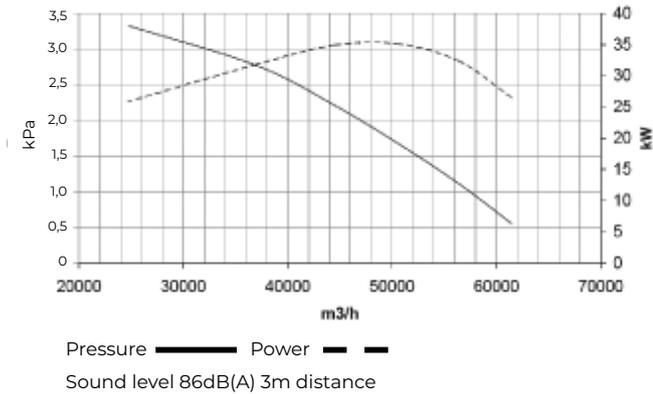
Air volume for HVL 30-250



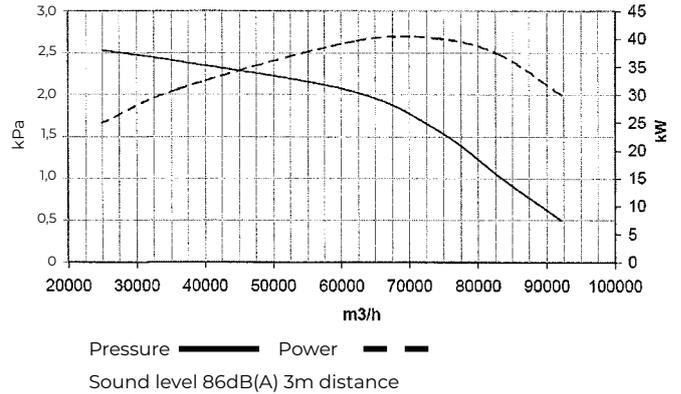
Air Volume for HVL400G



Air Volume for HVL 500G

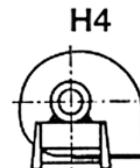
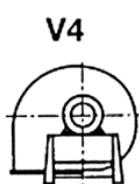
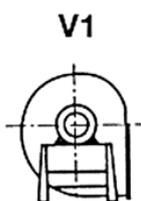


Air Volume for HVL600G

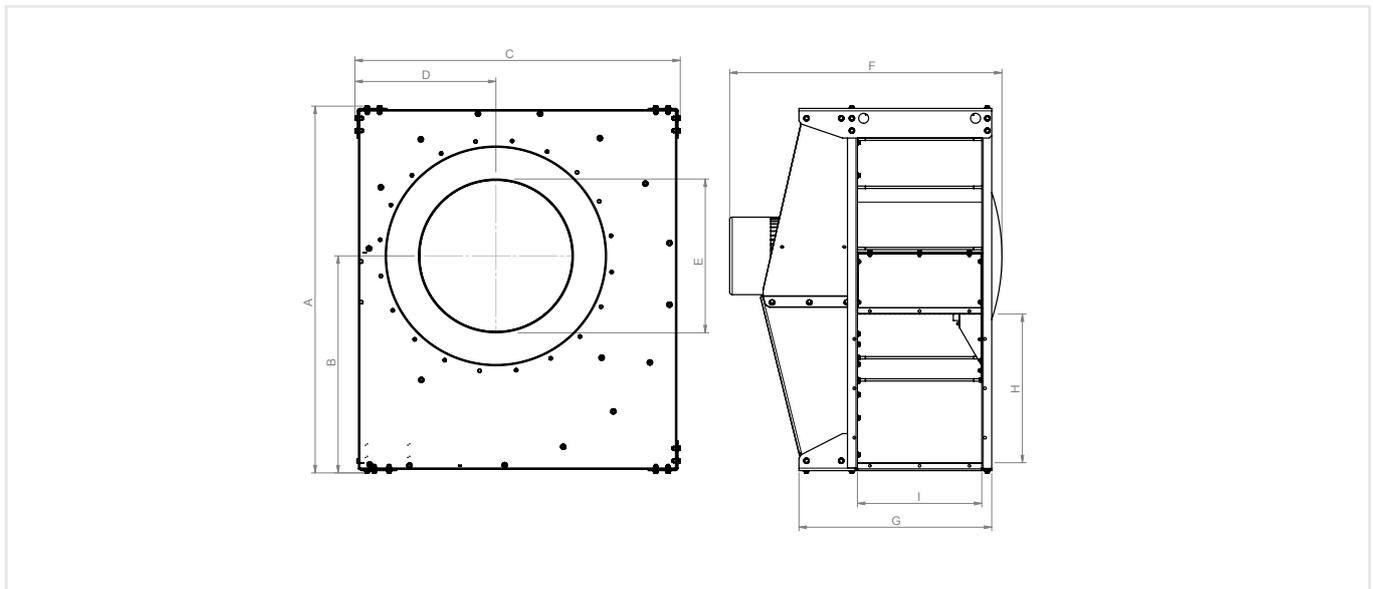


Air Outlet

- V1: Standard for HVL 30, 55, 100, 150, and 250 models.
- V1 and H1: Standard for HVL 400, 500, and 600 models.
- Additional configurations for HVL 400 – 600 models, such as V4 and H4, available upon request.

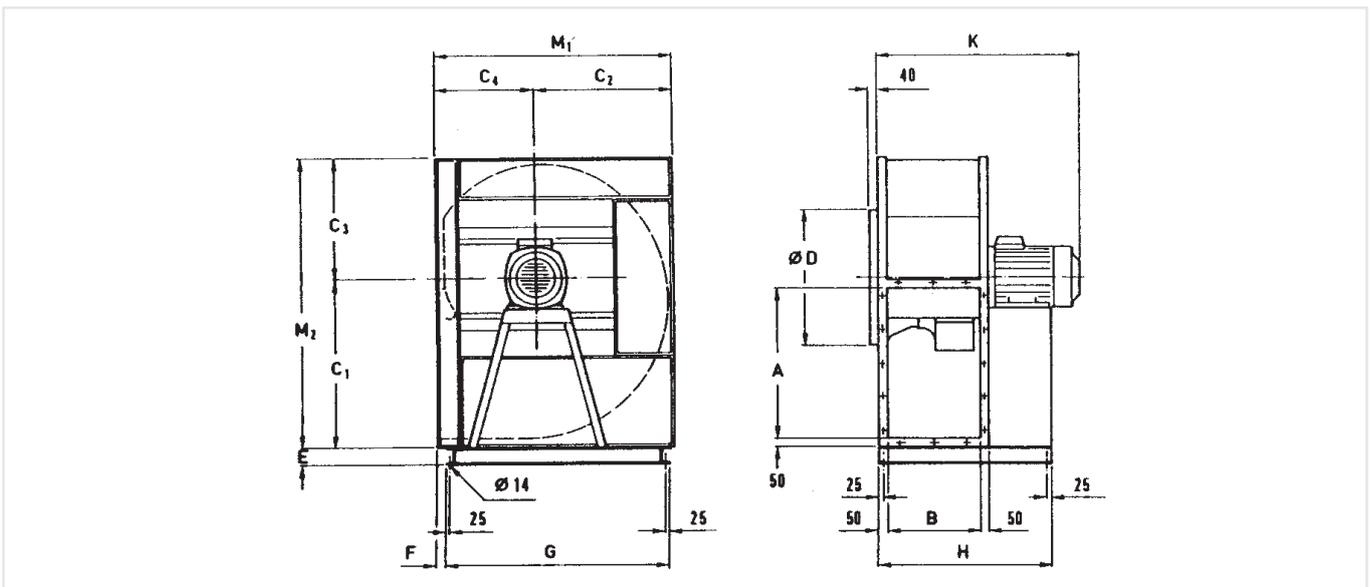


HVL 30 - 250 Dimensions



mm	A	B	C	D	E	F	G	H	I
HVL 30	882	551	692	261	Ø 430	640	500	372	300
HVL 55	1226	723	1076	463	Ø 506	818	605	500	400
HVL 100	1426	838	1206	513	Ø 604	973	700	586	465
HVL 150	1486	879	1308	567	Ø 623	1095	775	603	500
HVL 250	1548	904	1323	559	Ø 582	1222	800	592	525

HVL 400G - 600G Dimensions



mm	A	B	C1	C2	C3	C4	D	E	F	G	H	K	M1	M2
HVL 400G	1000	630	1125	902	777	658	900	100	25	1435	1177	1420	1560	1902
HVL 500G	1000	630	1125	902	777	658	900	100	25	1435	1177	1420	1560	1902
HVL 600G	1320	850	1470	1184	1030	853	1250	150	25	1912	1535	1820	2037	2500

HVL Technical Data

- Suitable for a wide variety of crops such as grain, corn (maize), peas, grass seed, hay, beets, onions, and potatoes.
- Ideal for both small and large setups.
- HVL 30 – 250 models can be installed horizontally or vertically.

Technical Data	HVL 30	HVL 55	HVL 100	HVL 150	HVL 250	HVL 400G	HVL 500G	HVL 600G
Motor output, kW/HP	2.2/3	4/5.5	7.5/10	11/15	18.5/25	30/40	37/50	45/60
Air flow rate m ³ /h at kPa (P _t)	6800 0.6	12500 0.8	18000 1.0	24000 1.0	35000 1.2	44600 1.2	55000 1.2	80000 1.2
Mains voltage, V/Hz	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50
Amperage	4.3	7.9	13.8	20.2	33.9	54	67	81
Min. fuse amp. (recommended)	10	16	25	35	63	100	125	160
Motor speed, rpm	3000	1500	1500	1500	1500	1400	1400	950
Motor type	B3 Foot-mounted standard motor IEC/DIN							
Weight incl. motor, kg	78	143	218	351	455	575	493	1195



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We've built a robust dealer network to ensure access to top-quality grain handling equipment in across the world.



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