

KÖGEL

Kögel Demountable Systems



Illustration similar / can include special equipment

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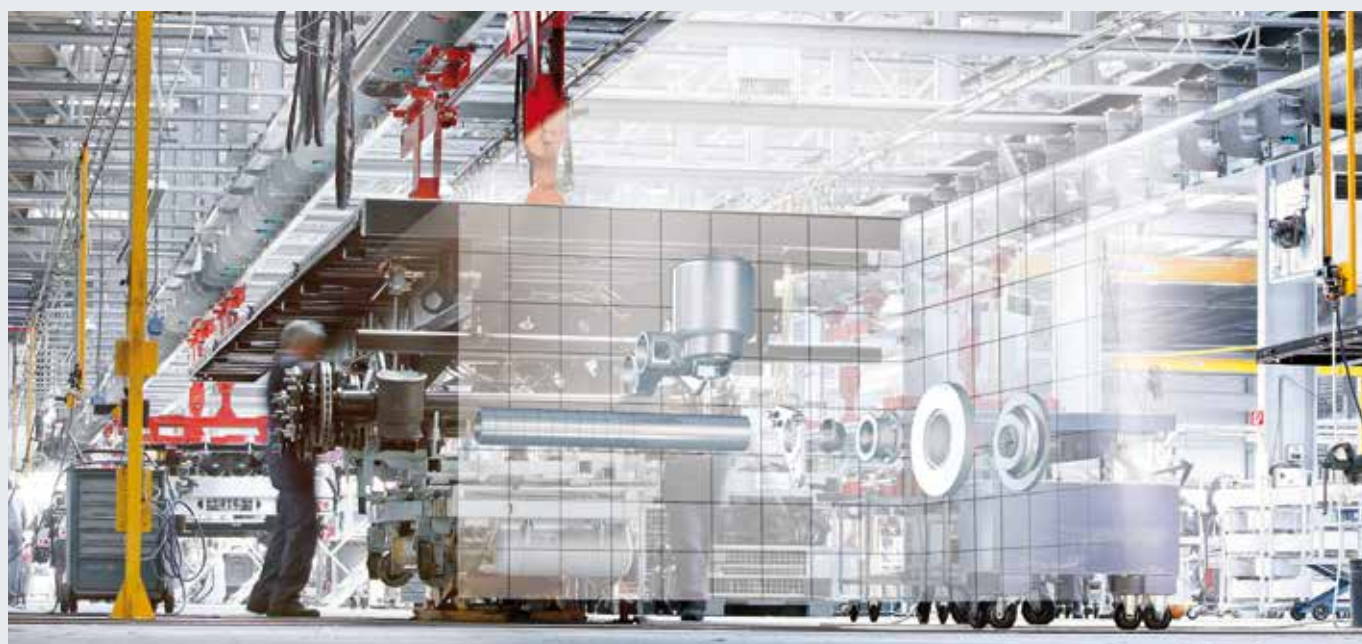
Why so much talk about the art of engineering?

Because there is genius in it and because prowess is behind it.

Comprehensive competence and experience, creativity and openness, consistent marketing and customer orientation: these are the foundation that the innovative force is based on which Kögel uses to develop and implement transport solutions. State-of-the-art design and simulation software are used – however innovation starts in the mind and a pencil sketch is still generally the first step in the complicated process from the basic idea to the perfect end product.

A special feature at Kögel is the close collaboration with the customer throughout all phases of development to be able to always keep the practical requirements in mind and to gather the important impulses from the marketplace: Approaches to solutions are discussed with customers, prototypes are tested together and customer feedback is incorporated into further development and optimisation. All components are tested in our own experimental department under extreme conditions which go far beyond the normal requirements. The vehicles are subjected to intensive driving and rough road tests, in rain, snow and ice and under a scorching sun. This is because only products that

pass these strenuous tests will be capable of withstanding all stresses and strains of day-to-day use for many more years to come. Kögel places great store on high-quality materials, extraordinary workmanship and quality-oriented sequences throughout the production process.



Kögel Swap



Reliable

The high safe floor load of the Swap allows a fork-lift axle load of 5.46 tonnes.

Handling

Sliding tarpaulin, sliding roof, portal doors and the centre stake bearings are particularly easy to open, close, or move.

Support leg

- Guaranteed high stability and easy handling when driving underneath
- Optional: telescoping

Tarpaulin tensioning device

- Tension ratchet in rear section
- For easy and safe tensioning of tarpaulins
- Available with anti-theft devices

Drop side

- With movable or sliding tarpaulin
- Drop side with tie rod
- Optional customs lock
- Sliding lock closure and half-height wing doors available



Sliding roof

- Sliding roof which is easy to move for loading from above
- Easy to maintain
- Can be slid from back to front



Side protection net

Aluminium and wooden slats can be replaced with a side protection net:

- Certified in accordance with DIN EN 12642 XL and Daimler directive 9.5
- Easy to use
- Reduces the tare weight

Kögel Swap – the versatile swap talent

Swapping bodies quickly is part of daily routine with Kögel's demountable systems. The four stable supporting legs allow transport personnel to easily exchange the swap body. Trucks can drive underneath the swap bodies, thus quickly and easily shouldering a new swap body. The swap body offers all the same advantages for combined transport on rails as it does on the road. High body stability and high-quality materials – such as for the sliding tarpaulins – meet the customary Kögel equipment standards.

The versatile swap talent not only impresses with well designed loading technology, but also with a sophisticated range of equipment. For example, you can get the Kögel Swap with sliding tarpaulins which moves easily and form the side walls of the Swap Trailer like solid curtains.



Weight

With a tare weight starting from 2.25 tonnes and its stable lightweight construction, the Swap Trailer is ideal for high payloads.



Front wall and portal doors

- Light and strong front wall and portal doors made of aluminium
- Body meets DIN EN 16462 Code XL (with sliding tarpaulin model)



VarioFix perforated steel external frame

Strong main frame combined with the optimised VarioFix perforated external frame for even more lashing options.



Load-securing

Nine pairs of lashing rings on the external frame allow lashing loads of up to two tonnes.

Kögel Industry Solutions Swap

Paper	Rail	Beverages	Boards and palleted goods
■	■	■	■

Kögel Equipment Characteristics Swap

Drop side	Sliding tarpaulin	Centrifugal curtains
■	■	■

Kögel Combi Swap body trailer



Handling

The trailer chassis has an air suspension system at the sides with two raising and lowering valves for separate raising and lowering:

- Rapid response
- If the air container is full, then raising and lowering are also possible without a tractor unit being attached

Road performance

The Kögel Combi has excellent road performance with optimised axle geometry.

Active and passive safety

The Kögel Combi offers a range of components to improve passive safety in traffic:

- Spray suppression and a sideguard as per EC Dir. 89/297 EEC
- Suitable for ADR
- RSS
- All application areas tested in dynamic road tests

Pick-up heights

Large air reserves in the air chamber for repeated raising and lowering:

- Sufficient air suspension movement offers flexible pick-up heights, even on uneven surfaces
- Pick-up heights in the standard version between 1,220 and 1,320 millimetres ("Jumbo" - version 1,000 to 1,320 millimetres)

Optional equipment

- Plug-in guide rollers (bearings available) allow you to drive accurately under the swap body (additional pair available as an option)
- Mechanical telescopic drawbars with height adjustment device (optional)

Kögel Combi – The refined chassis

Adaptable, well thought through, with an eye to the future: These three things best describe the trailer chassis Kögel Combi. With its amazing versatility, it offers a trail-blazing transport concept for the entire industry. It is the intelligent commercial vehicle solution for efficient operations in the demountable systems sector. Through its long service life – even when confronted with the highest demands – and the lightweight construction which allows high payloads, it lays the foundation stone for a new cost effectiveness and operating efficiency. It also successfully manages the stringent demands of combined transport. The trailer chassis can be combined with a wide range of different types of swap bodies due to the plug-in and fold-down front stop. The raising/lowering device for the front and rear axle allows easy and safe handling of the trailer chassis.



Weight

With a tare weight starting from 2.7 tonnes and its lightweight construction, this trailer chassis is ideal for high payloads.

Front stop

With an adjustable/folding front stop, the turntable trailer can be adjusted for the widest possible range of swap body types.

Electronics

- EBS is part of standard equipment.
- Available with complete LED lighting
- For long life and low power consumption

Axles

- Trailer chassis fitted as standard with axles from well-known quality manufacturers
- Excellent tracking properties through optimised axle geometry

Kögel **Industry Solutions** Combi Swap body trailer (in combination with Kögel Swap)

Paper	Rail	Beverages	Boards and palletized goods
■	■	■	■

Kögel **Equipment Characteristics** Combi Swap body trailer

22.5" rims	19.5" rims
■	■

Kögel Combi Centre axle trailer



Swap body transport

- Suitable for the standard transport of swap bodies with a total length of up to 7.82 metres, as well as 20-foot ISO containers
- Takes swap bodies in sizes C715, C745, and C782 as standard

Drawbar

- Ex-works with bolted 50-mm towing eye
- Length 2,150 mm–2,350 mm (interchangeable in 50-mm grid)
- Coupling height 350mm–450mm (interchangeable in 10-mm grid)
- Galvanised drawbar as standard

Handling

The trailer chassis has an air suspension system with a raise and lower valve:

- Fast operation
- A break release switch is included as standard for tension-free raising and lowering

Kögel Combi centre axle trailer

Kögel has expanded its range of swap body trailers with a brand new, specially designed centre axle trailer for swap bodies. The centre axle trailer has a low tare weight, starting at 2,950 kg in its basic form, and a stable frame construction at the same time. It has a technical total weight of 19,000 kilograms and a technically possible vertical load of 1,000 kilograms. It is suitable for the standard transport of swap bodies having a total length of up to 7.82 metres, as well as 20-foot ISO containers. The Kögel Combi centre axle trailer also benefits from a drawbar adjustable in height and length.



Weight

- Tare weight from 2,950 kg
- The air tanks are centrally positioned between the axles for balanced weight distribution



Plug-in guide rollers

- Plug-in guide rollers assist in precise swap body underriding



Support winches

- Easily accessible, one in the front centre and two at the rear with gearboxes and crank handles
- Prevent the trailer from tilting to the front and back

Kögel **Industry Solutions** Combi Centre axle trailer (in combination with Kögel Swap)

Paper	Rail	Beverages	Boards and palletted goods
■	■	■	■

Kögel **Equipment Characteristics** Combi Centre axle trailer

22,5" rims	19,5" rims
■	■

Kögel Port



Sample photo: Kögel Port 40 Simplex



Electronic system and lighting

Control console

- Can be operated in all weathers due to the position on the side of the container chassis
- Simple control elements and a pneumatic lock

Locking mechanisms

- Twist-Lock: Locking mechanism for ISO containers, rigid (can be lowered and height-adjusted) or folding as KlappTwist-Lock
- Quick-Lock (optional): A self-actuating (automatic-mechanical) locking closing system for securing containers

Pneumatic extension depending on the design

- Pneumatic cylinder built into the extension to protect it and avoid it being damaged
- Extension supported on springs and roller bearings to damp impacts during loading

- EBS is part of standard equipment
- Full LED lighting is available as an option for a long service life and low power consumption
- Suitable for ADR

Kögel Port – The flexible multi-talent

Meet the container chassis in a class of its own. With a robust frame construction and a high quality finish, the Kögel Port family offers ultimate stability and safety. The container semi-trailers can carry heavy loads and depending on the individual design, can be used flexibly in combined transport - the ideal container chassis for containers of different sizes. Container transport is made easy with the Kögel Port chassis! Apart from coping with a high payload, the swap systems are advantageous with their well thought through and intuitive control panel. Mounting it on the side of the container chassis makes it more pleasant to operate even in wind and bad weather. The low tare weight of the container chassis starting at 5.1 tonnes increases the load capacity to 30 tonnes (with a 20 foot container positioned centrally). The Kögel Port are equipped to deal with every transport job. Discover your optimal freight solution for containers: Chassis as a rigid version, with rear extension (Simplex) or front and rear extension (Duplex). Kögel has the ideal solution for any industry at your disposal.



Comprehensive equipment as standard

- Traction support
- 4 pairs of heavy load lashing rings for ferry transport



Rear extension

The Kögel Port offers a rear extension up to 45'.



Front top end rail

- Multifunctional front carrier suitable for transport of ISO and HighCube containers
- In accordance with EU Directive 45' HighCube Euro Corner containers can be transported

Kögel Industry Solutions Port

(Tank-) Container 20'	Container 30'	Container 40'	Container 45'
■	■	■	■

Kögel Equipment Characteristics Port

Rear extension	Rear and front extension	Rigid chassis
■	■	■

Kögel Port 20 Tankplex



Corrosion protection

- Nano-ceramic plus KTL dip-paint coating of the frame
- Optional: Frame painting possible in all RAL colours



Frame

The tank chassis is torsion-resistant, sturdy and weight-optimised.



Side protection/toolbox

In the standard version, a toolbox is attached to each side as side protection.

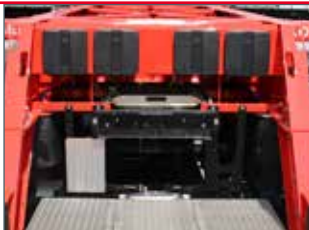


Locking mechanism

- For 20', 23' and 25' as well as 20' ISO containers
- Swap bodies in sizes C715, C745 and C782

Kögel Port 20 Tankplex

The Kögel Port 20 Tankplex is a semi-trailer container chassis for tank containers. This tank container chassis scores with its light basic model tare weight, a technical gross weight of 41,000 kilograms and a technically feasible fifth-wheel load of 14,000 kilograms. It is suitable for transporting 20-foot tank containers, as well as 20-foot ISO containers and swap bodies having a total length of up to 7.82 metres. In addition, the 20-foot container interlocks also allow the transport of 23 and 25-foot tank containers. It goes without saying that the Port 20 Tankplex adheres to ADR guidelines as standard.



Discharge trough / hose pipes

- Stainless steel discharge trough
- Hose pipes with optimum protection in frame



Working platform

- Working platform with access steps
- Working platform can be removed for cleaning



Control console

- The semi-trailer has an air suspension system with raise and lower valves
- Standard traction support



Electronic system and lighting

- An EBS is fitted as standard
- Full LED lighting is available as an option to provide a long life and reduced power consumption
- Suitable for ADR

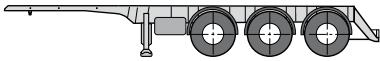
Kögel **Industry Solutions** Tankplex

(Tank-) Container 20 20 ' ■

(Tank-) Container 20 23 ' ■

(Tank-) Container 20 25 ' ■

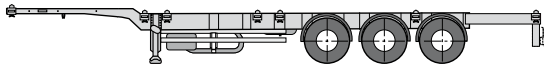
Kögel Port Products



Port Tankplex

Port Tankplex

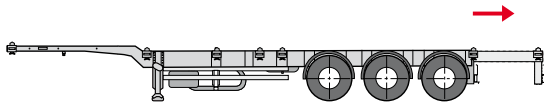
1 x 20' ISO centred



Port 40 Light

Port 40

1 x 20' ISO centre
2 x 20' ISO
1 x 30' ISO flush with rear
1 x 40' HighCube
optional: 1 x 40' ISO



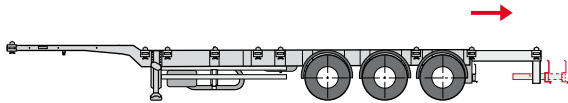
Port 40 Simplex (rear extension)

Port 40 Light

2 x 20' Iso
1 x 40' HighCube

Port 40 Simplex (rear extension)

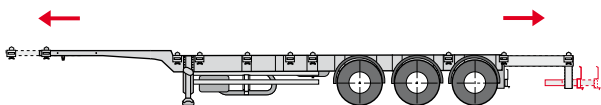
1 x 20' Iso flush with rear
2 x 20' Iso
1 x 30' Iso flush with rear
1 x 40' HighCube
optional: 1 x 20' ISO centre
optional: 1 x 40' ISO



Port 45 Simplex (rear extension)

Port 45 Simplex (rear extension)

1 x 20' centred
1 x 20' flush with rear
2 x 20' ISO
1 x 30' ISO flush with rear
1 x 40' HighCube
1 x 45' HighCube (certificate of exemption required)
optional: 1 x 40' ISO
optional: 1 x 45' ISO



Port 45 Duplex (front and rear extension)

Port 45 Duplex (front and rear extension)

1 x 20' ISO centred
1 x 20' flush with rear
2 x 20' ISO
1 x 30' ISO flush with rear
1 x 40' HighCube
1 x 45' HighCube short tunnel (rear extended, certificate of exemption required)
1 x 45' HighCube long tunnel
optional: 1 x 40' ISO

Kögel Industry Solutions

Precisely the trailer you need

Kögel offers specialised trailer configurations with practical solutions for many different industries. With our versatile product and accessories programme, our innovative products for load-securing, patented technologies from our own development department and extensive industrial expertise, we can implement made-to-measure transport solutions for any application right up to highly individual special designs.

Paper/Container

Rail



The sturdy vehicle frame by Kögel is designed for high concentrated and distributed loads. In combination with the non-slip load-carrying flooring, into which the roller rail systems are recessed, and special patented load-securing systems, Kögel offers everything required to safely transport heavy rolls of paper.



Kögel also offers vehicles that are approved for rail loading. With special reinforcement in the frame and the body, protection plates at the gripper points and railway override guard.

Beverages

Boards and palletted goods



High payload and intelligent load-securing, also for securing partial loads, time-saving loading and unloading and high levels of efficiency in use are the most important requirements that Kögel meets with flying colours.



The continuously increasing range of cargoes, the weight and high centre of gravity of the loads demands state-of-the-art engineering for effective load-securing. Kögel offers a wide range of different special solutions for this application.

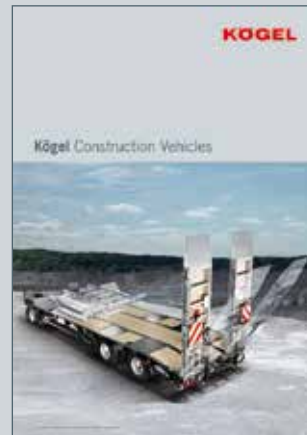
Kögel Product Ranges



Platform Trailers



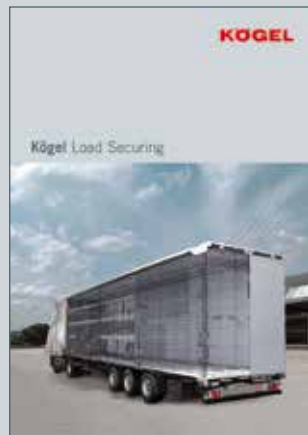
Euro Trailer



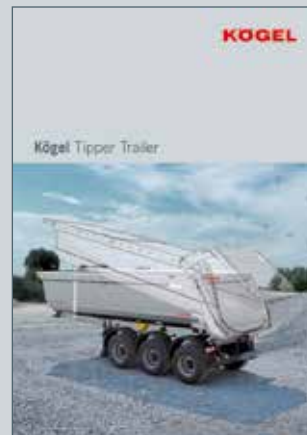
Flatbed Trailers



Box Trailers



Load Securing



Tipper Trailer

KÖGEL

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