



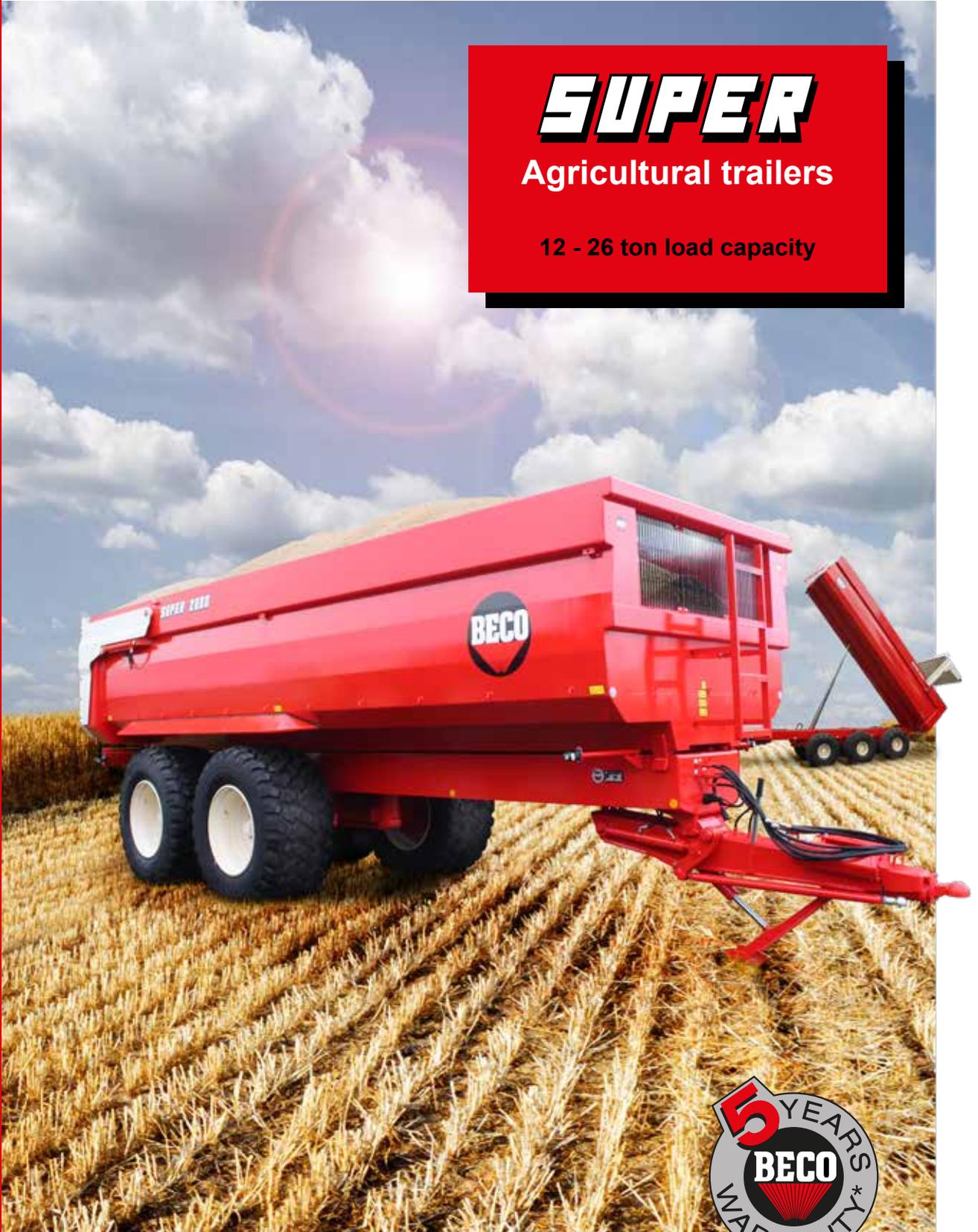
BECO | TRANSPORT



SUPER

Agricultural trailers

12 - 26 ton load capacity



Smart. Solid.



Smart entrepreneurs count on BECO **SUPER** agricultural trailers:

- ✓ **Maximum performance in all circumstances**
- ✓ **Minimum running costs**
- ✓ **Maximum lifetime**
- ✓ **Maximum security 5 years BECO warranty***

* See page 27.

Smart & Solid: that's Beco Vianen.

BECO SUPER agricultural tipping/dump trailers form the absolute top in the market regarding transporting of agricultural products in the broadest sense of the word.

At BECO we understand all too well that our SUPER agricultural tipping/dump trailers are a part of an important logistic process at our customers. Therefore, we maintain during development and during the use close contact with our dealers and end users.

In this way our body of thought continues unabatedly: we develop tipping/dump trailers by practice for practice. We have already done this for over 40 years, to our customers' full satisfaction world-wide.

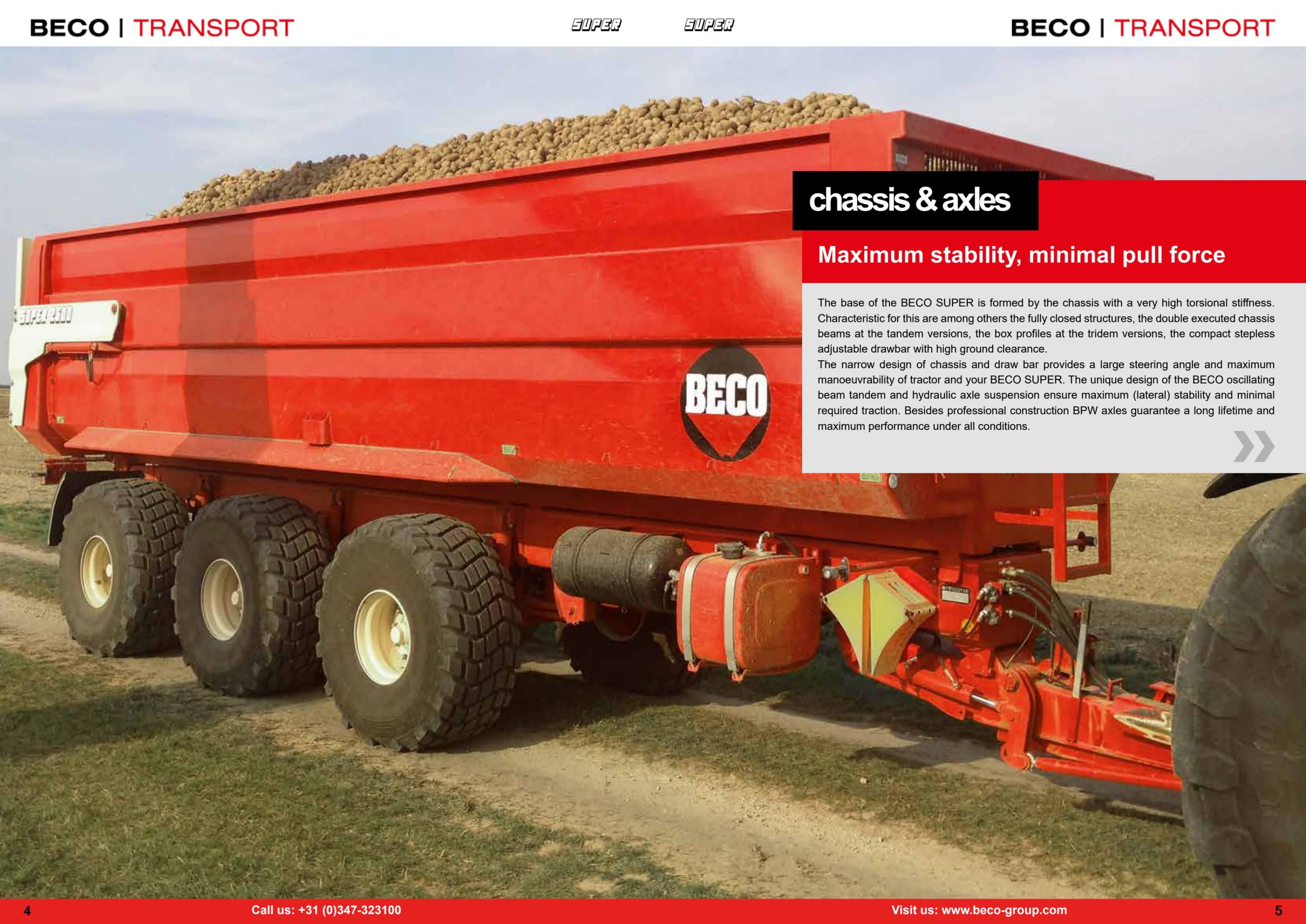
The SUPER agricultural tipping/dump trailers are composed of sophisticated components with a very sustainable

character guaranteeing maximum performance, minimum operating costs and a (very) long lifetime. When you choose a SUPER, you choose the best possible investment in equipment: for short and long term.

Convince yourself: the facts set out

In this brochure we set out the facts in a row for you. In three concise chapters, we will show you the ins and outs of SUPER series. Experience the difference and come to the conclusion that BECO SUPER agricultural tipping/dump trailers are your best choice. >>>





chassis & axles

Maximum stability, minimal pull force

The base of the BECO SUPER is formed by the chassis with a very high torsional stiffness. Characteristic for this are among others the fully closed structures, the double executed chassis beams at the tandem versions, the box profiles at the tridem versions, the compact stepless adjustable drawbar with high ground clearance.

The narrow design of chassis and draw bar provides a large steering angle and maximum manoeuvrability of tractor and your BECO SUPER. The unique design of the BECO oscillating beam tandem and hydraulic axle suspension ensure maximum (lateral) stability and minimal required traction. Besides professional construction BPW axles guarantee a long lifetime and maximum performance under all conditions.



Chassis

The best base for maximum performance



pictured: chassis SUPER 2200



1 Oversized profiled cylinder support

The base for the high forces of the telescopic cylinder is the cylinder support with a large width. The large dimensions and profiled design have a high resistance to torsion. The forces are distributed to the main frame by a large length of weldings.



2 Cradle mounting of telescopic cylinder

The telescopic cylinder is mounted by a cradle to the chassis. This avoids lateral forces to the cylinder components and provides maximum durability.



3 Box construction design

The main frame beams of the SUPER 1200-2200 have a completely closed construction from cylinder support to the pivots at the rear side. The main beams of the SUPER 1200-2200 are manufactured of box beams. These designs apply high stability.



4 Fully completed weldings

All weldings within the chassis are fully completed. This applies maximum strength to the chassis and avoids penetration of water and/or dirt into the construction of the chassis.



5 Heavy Duty towbar (optional)

Towbar at rear side of the chassis is standard. The rear beam is connected by additional bars to the main beams of the chassis. The optional available heavy duty towbar makes it possible to tow heavy loads in heavy conditions.



6 Integrated tandem/tridem support

The into the chassis integrated tandem and/or tridem supports provide high resistance to torsion.

Tandem SUPER
1200-2200

The best by experience



1

Main shaft with eccentric position

By positioning the main shaft in an eccentric position, the oscillating beam tandem tends to be pulled uphill. This results in reduction of the required pulling force substantially.

pictured: oscillating tandem SUPER 2000/2200

2

Perfect off-road performance

The independent oscillating beams provide perfect adaptation of the wheels to the underground in every application. The oscillating beam design provides also full-width-contact of the tyres in all terrain conditions.

3

Heavy Duty assembly of main shaft

The 3-point mounting (2x external, 1x center) design provides maximum (lateral) stability and easy maintenance.

4

Exchangeable bushings at main shaft

The exchangeable bushings are provided with greasing grooves for optimized lubrication of the main shaft. In case the bushings have to be replaced this can be done easily.

5

BPW axles

Best-in-class quality with reliable technology, perfect driving comfort and large brake capacity provide long lifetime.

6

Lase alignment

The axles are aligned perfectly by state-of-the-art laser technology. This provides perfect alignment and reduces wear of tyres and axle components. We guarantee an alignment of 100% of the wheels/tyres of your SUPER.

7

High stability during unloading

The oscillating beam tandem provides high lateral stability during unloading/dumping. This makes it possible to also work in hard conditions.

Tridem

SUPER
2400-2600

State of the art technology for every condition



pictured: Tridex SUPER 2600



1
Always the right suspension

With the standard hydraulic suspension (HBV) or the optional TRIDEDEC system we offer you for every application the right suspension.



2
HBV - Hydraulic suspension

The hydraulic suspension (HBV) gives maximum (lateral) stability and offers an excellent bottom adaption. Moreover with HBV and TRIDEDEC several options are possible, such as an axle lift.



3
TRIDEDEC (optional)

The unique TRIDEDEC system is optionally available. The collaboration of BECO and TRIDEDEC during the research, development and design of this unique concept makes us the most experienced manufacturer with the TRIDEDEC system.



4
TRIDEDEC - unique concept

The TRIDEDEC system contains an axle mounting by triangle combined with hydraulic suspension cylinders. The horizontal panhard rod positions the axle sideways.



5
Maintenance free bearings

Both at the HBV and the Tridex system the joints of the system (triangle, suspension cylinders, suspension leave and panhard rod) are equipped with maintenance free bearings. This provides minimum maintenance costs and maximum lifetime.



6
Large steering angle, also with wide tyres

The narrow design of the chassis and the unique Tridex concept provide a large steering angle combined with an external width according to the regulations for public roads. Even with wide tyre sizes.

Drawbar

Smart Traction Concept, for minimal pull force



pictured: drawbar SUPER 2200

8



**STC:
Smart Traction Concept**

Wide horizontal pivot with play-free assembly to the front of the chassis. STC ensures perfect "routing" of the pulling forces from the drawbar to chassis and improves the manoeuvrability and reduces the pulling forces even in heavy conditions.

7



**Full stepless adjustment
of height**

The height of the drawbar can be easily and fully stepless adjusted by three spindles for optimizing the alignment to the tractor.

1



K-80 ball towing eye

Every SUPER is equipped as standard with a fully forged K-80 towing eye with vertical flange.

2



Narrow design

The narrow design of the drawbar provides maximum manoeuvrability of the tractor related to the drawbar.

3



Integrated support

The completely integrated support is during operation very well protected against any kind of damage.

4



Box design

The design of the drawbar provides closed top and side sections. By lifting the support the bottom section is also closed during operation. This avoids penetration of sand, earth, dirt etc. into the drawbar.

5



**Hydraulic support with
large base plate**

Even in heavy conditions and even with full load the hydraulic support, with pivot base plate, provides safe and secure positioning, even when fully loaded.

6



**Integrated drawbar
suspension**

The into the chassis integrated drawbar suspension provides maximum driving comfort. The position of the rubber joint avoids damage and wear of the rubber by weather, stones etc.

Steering **Maximum manoeuvrability**



1
Command cylinder(s) at safe position

The position of the command cylinder(s) prevents damages at rear wheels of the tractor during sharp turning and/or during driving through rough terrain conditions.



2
Play free leveller

The play free leveller connects the command rod to the command cylinder. The exchangeable bushings and the adjustment of the main joint ensure play free operation and easy maintenance.



3
No accumulators

Safety valves secure the steering system from overload. This means the transmission from command-bar(s) to the steering cylinder(s) is rigid and ensures perfect steering characteristics even in very heavy conditions and at every speed.



4
Easy alignment

For alignment of the steering axles the steering system is equipped with (a) handpump(s). Optional this can be by means of the function E-ALIGN



5
Steering for SUPER 1200-2200 optional

The oscillating beam tandem of the SUPER 1200-2200 can be optionally equipped with a steering system on the rear axle.

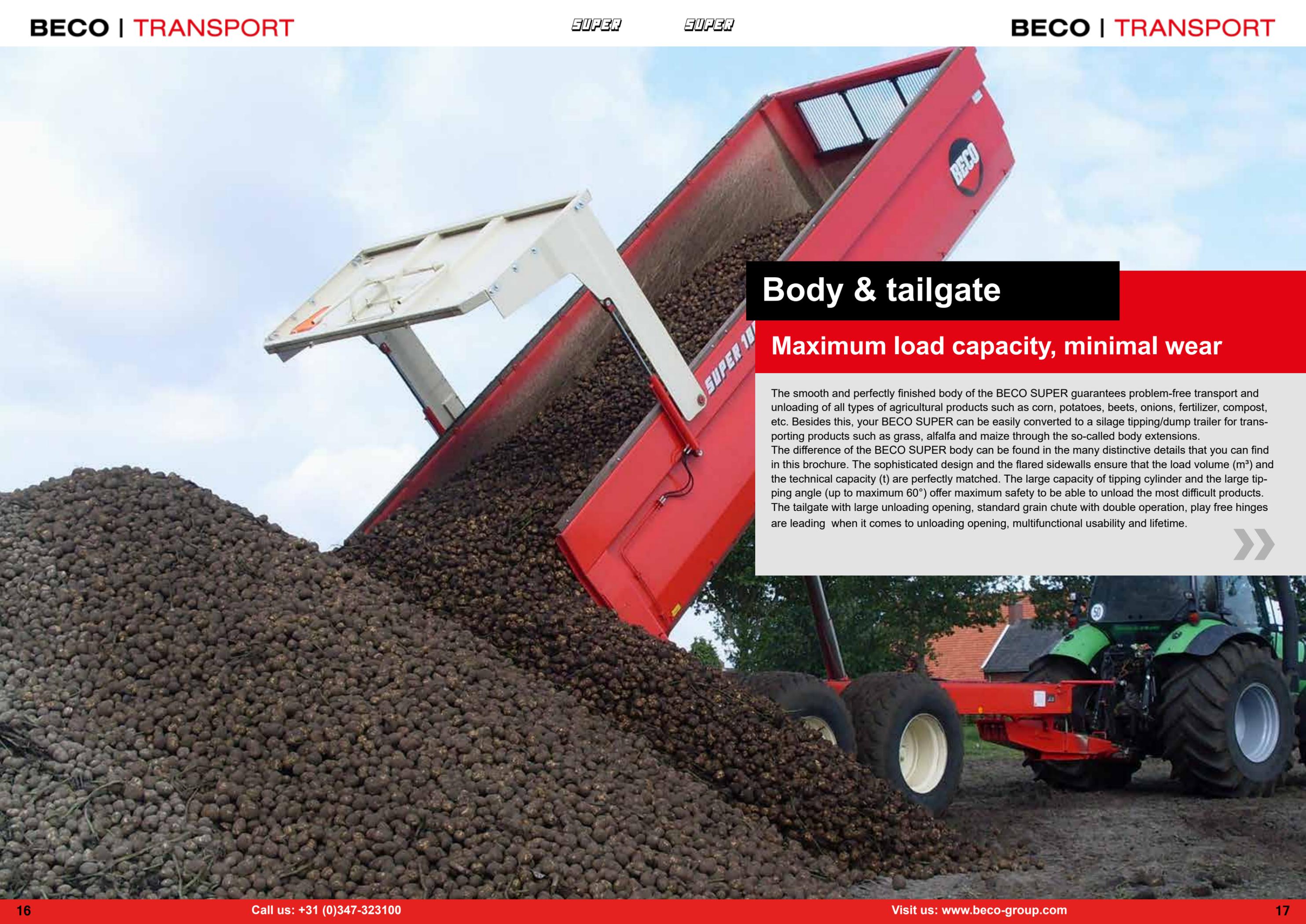


6
Maximum manoeuvrability

The large steering angle of the wheels and the narrow design of the drawbar provide maximum manoeuvrability of the tractor.



pictured: SUPER 2600



Body & tailgate

Maximum load capacity, minimal wear

The smooth and perfectly finished body of the BECO SUPER guarantees problem-free transport and unloading of all types of agricultural products such as corn, potatoes, beets, onions, fertilizer, compost, etc. Besides this, your BECO SUPER can be easily converted to a silage tipping/dump trailer for transporting products such as grass, alfalfa and maize through the so-called body extensions. The difference of the BECO SUPER body can be found in the many distinctive details that you can find in this brochure. The sophisticated design and the flared sidewalls ensure that the load volume (m³) and the technical capacity (t) are perfectly matched. The large capacity of tipping cylinder and the large tipping angle (up to maximum 60°) offer maximum safety to be able to unload the most difficult products. The tailgate with large unloading opening, standard grain chute with double operation, play free hinges are leading when it comes to unloading opening, multifunctional usability and lifetime.



Body **Best-In-Class**



1 **Profiled cylinder support**

The oversized cylinder support provides high resistance to torsion. This design secures maximum stability of the body. Even unloading of heavy loads and/ or unloading in heavy conditions are/ is not a problem.



2 **Sharp edges for sealing the tailgate**

The extended bottom and side sections of the body ensure a perfect sealing of the tailgate in closed position. Sand, mud, dirt between the tailgate and these sharp edges will be easily removed by closing the tailgate.



3 **Full-width grid**

The full-width grid, with horizontal or vertical mounted bars, ensures maximum sight into the body. The round design of the bars minimizes damage to e.g. potatoes. Standard with plastic cover plate.



4 **6 mm bottom section and 4 mm side walls**

The bottom section of 6 mm in combination with the 4 mm thickness of the sidewalls provides maximum resistance to torsion and ensures smooth inside surfaces for safe and fast unloading.



5 **Ladder**

The sturdy ladder at the headboard equipped with anti slip profiled steps, provides sight into the body or the ability to inspect the load.



6 **Heavy duty joints**

The large diameter and the heavy duty locking of the pins provide high stability and safety during unloading and minimize the wear.



7 **Rope hooks**

The body is equipped with heavy duty and completely welded rope hooks for securing a tarpaulin easily.



9 **Hydraulically adjustable side walls (optional)**

By this option the falling height during loading of e.g. potatoes can be reduced. The maximum load capacity of the trailer can be utilized by lifting the side walls during the process of loading.



8 **Stainless steel bottom section (optional)**

The bottom section can optionally be manufactured from 6 mm stainless steel. This minimizes sticking of clay / heavy soil to the bottom section which provides a cleaner body during harvesting in heavy (wheather) conditions.

Tailgate Standard



SUPER



Large unloading opening

The large distance from joint to tailgate provides a large unloading gate and offers the possibility to apply body extensions.



Grain chute

The grain chute can be operated from 2 sides and locked easily in every position by 2 locking bolts.

SUPER

Silage trailer Big volume



5



Joint with greasing groove

The joint is completely integrated into the side sections of the body. This design provides high stability to the tailgate and a play free operation of the tailgate.

4



Wear resistant exchangeable bushings

All joints of the tailgate are equipped with wear resistant and exchangeable bushings. This ensures perfect closing and sealing of the tailgate and easy maintenance.

3



Tailgate cylinders protected

The cylinders for operating the tailgate are protected against damage by e.g. the conveyor belt of a harvesting machine.

1



Large volume

The additional body extensions provide large volume to the SUPER trailers upto 50 m³ at a SUPER 2600.

2



Easy assembly

The body extensions can be easily mounted to the body by profiles completely integrated into the side sections. Through this your SUPER trailer can be easily converted into a real silage trailer.

3



Pivoting extension at tailgate

The extension of the tailgate is equipped with an additional pivot. This features when opening the tailgate the extension flaps and the opening for safe unloading will be maximized.

Finish

Maximum lifetime, minimal maintenance

With the purchase of a BECO SUPER you choose for unsurpassed performance and maximum durability. All parts are fully shot blasted prior to the painting process, ensuring maximum adhesion of the high-grade 2-component paint system. The application of (wherever possible) steel hydraulic lines and professional mounting and routing of pipe work and cabling provide an extremely high level of reliability in your daily work. The high-quality finish of your BECO SUPER guarantees a long lifetime and minimal repair and maintenance costs.



Finish

The finishing touch

1



Shot blasting

All construction parts/components are being shot blasted for securing maximum adhesion of the paint.

2



High quality painting

The 2 component painting system provides maximum protection for many years in every condition.

3



Steel hydraulic lines

Hydraulic lines of steel are provided as much as possible for ensuring long lifetime. Only where flexible connections are required hydraulic hoses are applied. This minimizes the risk of leakage and makes repairs easy.

4



Fully completed weldings

All weldings are fully completed. This features 100% sealed junctions where no water or dirt will be able to penetrate into the construction. Even on long term.

5



Routing and assembly of cables and hoses

The high quality assembly of hoses and cables features high reliability and minimizes failures.

5



High quality housing for electronic components

All electronic components are installed in high quality housings. The cables are as much as possible assembled to special cable guides.



Tandem & Tridem

Product range & Technical information

Tandem	model	technical load capacity (kg)	body measures inner side (mm)			volume water standard m ³	volume SAE (1:2) m ³			maximum rim size inch	tipping cylinder volume liter	axle body mm	brand axle	brakes mm	wheel bolts	undercarriage
			length	breedte	hoogte		standard m ³	+350 mm m ³	+ 800 mm m ³							
	SUPER 1200	12.000	5.500	2.250	1.300	16,1	19,1	23,4	29,0	22,5	24	120x120	BPW	410x120	10xM22	pendeltandem
	SUPER 1400	14.000	6.000	2.250	1.300	17,6	20,9	25,6	31,7	22,5	24	120x120	BPW	410 x 120	10xM22	pendeltandem
	SUPER 1600	16.000	6.500	2.250	1.400	20,5	24,1	29,2	35,8	30,5	35	120x120 ¹	BPW	410x120 ¹	10xM22	pendeltandem
	SUPER 1800	18.000	7.000	2.250	1.500	23,6	27,6	33,1	40,2	30,5	40	120x120 ¹	BPW	410x120 ¹	10xM22	pendeltandem
	SUPER 2000	20.000	7.500	2.250	1.500	25,3	29,6	35,5	43,1	30,5	44	150x150	BPW	410x180	10xM22	pendeltandem
	SUPER 2200	22.000	7.500	2.250	1.600	27,0	31,3	37,2	44,8	30,5	49	150x150	BPW	410x180	10 x M22	pendeltandem
Tridem	model	technical load capacity (kg)	body measures inner side (mm)			volume water standard m ³	volume SAE (1:2) m ³			maximum rim size inch	tipping cylinder volume liter	axle body mm	brand axle	brakes mm	wheel bolts	undercarriage
			length	breedte	hoogte		standard m ³	+350 mm m ³	+ 800 mm m ³							
	SUPER 2400	24.000	8.000	2.250	1.600	28,8	33,4	39,7	47,8	30,5	62	120x120 ¹	BPW	410x120 ¹	10xM22	Tridem ²
	SUPER 2600	26.000	8.500	2.250	1.600	30,6	35,5	42,2	50,8	30,5	70	120x120 ¹	BPW	410x120 ¹	10xM22	Tridem ²

¹) Optional: 150 x 150 mm with 410 x 180 mm brakes.
²) Hydraulic suspension (HBV) or TRIDEC (MDO)

5 years warranty

Maximum safety



- Valid for the construction and components manufactured by BECO.
- Hours worked unlimited
- Ask your BECO dealer for the current warranty.

Options



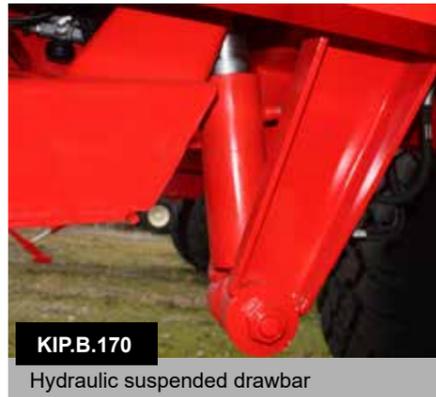
KIP.B.101
Rotatable towing eye, hole Ø50



KIP.B.110/111
Mudguard, plastic, at front and/or at rear



KIP.B.150/151/152
Plastic lockable tool box



KIP.B.170
Hydraulic suspended drawbar



KIP.D.100
Hardwood beams



KIP.D.260
Toggle clamps for tailgate



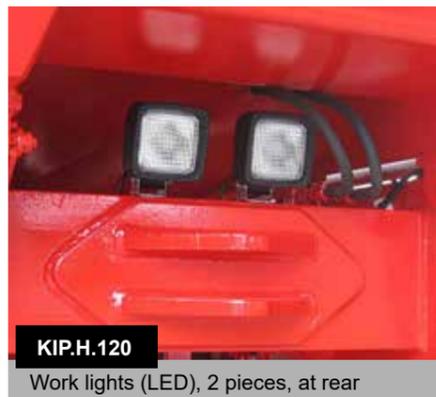
KIP.D.320
Platform over full width of body



KIP.F.110
E-control for hydraulic steering



KIP.G.130
ALB for air brakes



KIP.H.120
Work lights (LED), 2 pieces, at rear



KIP.H.140/141
Work light in body, 1 piece



KIP.I.120
On-board hydraulic pump

O Option
S Standaard
X Not possible

	1200	1400	1600	1800	2000	2200	2400	2600
Standard								
KIP.C.300 Hydraulic leaf springs (HBV)	X	X	X	X	X	X	S	S
KIP.C.371 Electrically operated lock for rear axle for MDO and HDO	X	X	X	X	X	X	S	S
KIP.F.100 Control rods for hydraulic steering, including K50 on both sides	X	X	X	X	X	X	S	S
KIP.G.101 Air brakes, 2 line system, manual 3 position brake force regulator	S	S	S	S	S	S	S	S
KIP.H.100 2 x 2 Rear lights (LED), Ø 140 mm	S	S	S	S	S	S	S	S
KIP.H.150 Contour lights (LED), mounted on supports at chassis	S	S	S	S	S	S	S	S
KIP.K.100 License plate holder with lighting	S	S	S	S	S	S	S	S
Options								
KIP.B.101 Rotatable towing eye for tractor hitch ball, Ø50 mm., instead of K80 flange	O	O	O	O	O	O	X	X
KIP.B.110 Mudguards, ¼ round, plastic, 1 set at rear	O	O	O	O	O	O	O	O
KIP.B.111 Mudguards, ¼ round, plastic, 2 sets, at front and at rear	O	O	O	O	O	O	O	O
KIP.B.150 Plastic lockable tool box, 600 x 500 x 400 mm, mounted on chassis	O	O	O	O	O	O	O	O
KIP.B.151 Plastic lockable tool box, 800 x 500 x 400 mm, mounted on chassis	O	O	O	O	O	O	O	O
KIP.B.152 Plastic lockable tool box, 1000 x 500 x 400 mm, mounted on chassis	O	O	O	O	O	O	O	O
KIP.B.170 Hydraulic suspended drawbar, operated by tractor hydraulics	O	O	O	O	O	O	O	O
KIP.C.220 Forced steering	X	X	O	O	O	O	X	X
KIP.C.230 Forced hydraulic steering	X	X	O	O	O	O	X	X
KIP.C.380 Axle lift on front axle for HBV, MDO and HDO	X	X	X	X	X	X	O	O
KIP.C.390 Height control, semi-automatic, for HBV, MDO and HDO	X	X	X	X	X	X	O	O
KIP.C.400 Fully automatic 2-point height control (TRITRONIC)	X	X	X	X	X	X	O	O
KIP.D.100 Hardwood beams, height 50mm, mounted by steel strips, on tipping body	O	O	O	O	O	O	O	O
KIP.D.190 Body extensions, height 350mm, sheet thickness 3mm	O	O	O	O	O	O	O	O
KIP.D.200 Body extensions, height 800mm, sheet thickness 3 mm	O	O	O	O	O	O	O	O
KIP.D.250 Fixing eyes for fall breaker sheet at bottom of body, 4 pieces	O	O	O	O	O	O	O	O
KIP.D.260 Hand-operated toggle clamps for tailgate, 2 pieces	O	O	O	O	O	O	O	O
KIP.D.270 PU seal profile for additional sealing of the tailgate	O	O	O	O	O	O	O	O
KIP.D.320 Platform over full width of body, floor with galvanized grids, on front wall	O	O	O	O	O	O	O	O
KIP.D.330 Tarpaulin cover rack on front wall	O	O	O	O	O	O	O	O
KIP.D.340 Roll tarp, aluminum profile with handle, cargo lashings, including hardwooden beam	O	O	O	O	O	O	O	O
KIP.D.450 Bottom plate, 6 mm, stainless steel	O	O	O	O	O	O	O	O
KIP.F.110 E-ALIGN for hydraulic steering	O	O	O	O	O	O	O	O
KIP.G.130 ALB for air brakes i.c.w. HBV, MDO, HDO or hydraulic drawbar suspension	O	O	O	O	O	O	O	O
KIP.H.120 Work lights (LED), 2 pieces, at rear of chassis	O	O	O	O	O	O	O	O
KIP.H.130 Work lights (LED), 1 left and 1 right at lighting supports at front side	O	O	O	O	O	O	O	O
KIP.H.140 Work light in body, 1 piece, left	O	O	O	O	O	O	O	O
KIP.H.200 Connector, at the back of chassis, at left side, 7-pins	O	O	O	O	O	O	O	O
KIP.I.100 On-board hydraulic pump, PTO, 1 function for tipping cylinder	O	O	O	O	O	O	O	O
KIP.I.120 On-board hydraulic pump, hydraulic power, 1 function for tipping cylinder	O	O	O	O	O	O	O	O
KIP.I.140 On-board LS valve, base function, E-CONTROL	O	O	O	O	O	O	O	O
KIP.K.110 Company color, RAL colors, maximum 2 colors, 1 color per component	O	O	O	O	O	O	O	O
KIP.M.100 T.U.V. approval 40 km/h	O	O	O	O	O	O	O	O
KIP.M.110 P.V.G. approval	O	O	O	O	O	O	O	O
KIP.M.180 R.D.W. approval till 30 km/h	O	O	O	O	O	O	O	O
KIP.M.190 R.D.W. approval till 40 km/h (including ALR)	O	O	O	O	O	O	O	O

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Smart. Solid.

BECO | TRANSPORT

Tipper trailers and hooklift carriers for agricultural, earthmoving, landscaping and industry.

BECO | ATTACHMENTS

Equipment and attachments for excavators, wheel loaders and cranes.

BECO | MODIFICATIONS

Modifications and components for excavators, wheel loaders, dump trailers and construction machines.

BECO | GRABS

Grabs for material handling, contractor, waste processing, dredging, recycling and industry.

BECO | STEEL STRUCTURES

Customized steel structures for onshore, offshore and industry.

BV BECO

De Limiet 18
4131 NR Vianen (Ut.)
The Netherlands

T: +31 (0) 347 - 323100
F: +31 (0) 347 - 377780
E: info@beco-vianen.com

www.beco-group.com
www.facebook.com/beco.vianen