Systems

JOST coupling systems use cutting edge electronic technology to increase safety, comfort and efficiency in all operations. The following variants are currently available for different demands:

- **Automatic coupling system (KKS)**
- **Sensor coupling system (SKS)**
- **Sensor fifth wheel coupling (sensors)**
- **LubeTronic 5 and 1Point**

JOST KKS is the ground-breaking automatic coupling system, which is revolutionising the coupling process. The tried-and-tested components – including the JSK 42 fifth wheel coupling, the Modul E-Drive landing gear, SKS, sensors and LubeTronic – form a complete system which no longer requires the driver to climb, crank or plug.

In the SKS sensor coupling system, three sensors constantly monitor the status of the fifth wheel coupling. The coupling is opened comfortably and in a time-saving manner using a remote control in the driver's cab. The sensor fifth wheel coupling system also permanently monitors the locking position via sensors, displaying the position via remote display in the driver's cab.

The coupling systems are supplemented by LubeTronic, the automatic lubrication systems which are available for both standard and low-maintenance fifth wheel couplings. These systems reduce both the effort required for subsequent greasing, as well as the amount of grease. The biodegradable, high-performance lubricant is not only easy on the wallet, but also on the environment.

KKS

The JOST KKS enables the driver to couple and decouple the semi-trailer via remote control without leaving the driver's cab. The JSK 42 fifth wheel coupling, the Modul E-Drive landing gear, SKS, sensors and LubeTronic components form a complete system which saves time when coupling, as well as increases safety, efficiency and ergonomics.

The driver is guided through the coupling process, with sensors providing live information on the coupling status through the KKS remote control. Furthermore, the driver can operate the landing gear and fifth wheel coupling locking mechanism from the cab, significantly reducing the coupling duration and number of times needed to get in and out of the cab. It is of course possible to introduce the KKS step-by-step into to the fleets, as the operation in mixed fleets is possible.

The KKS is particularly suited for transport companies which often perform coupling processes and drive short distances, such as those in on-site operations, as the time advantages here are particularly beneficial from a financial standpoint.

Benefits at a glance

Ergonomics and health

- No need to climb onto the catwalk
- No more cranking of landing gears, automatic operation
- No more manual mounting of the fifth wheel coupling
- No need to get off and into the cab so often

Time saving of up to 50 %

- No more need for cranking, connecting and disconnecting supply lines or opening the fifth wheel, thus freeing up time for other important tasks

Safety

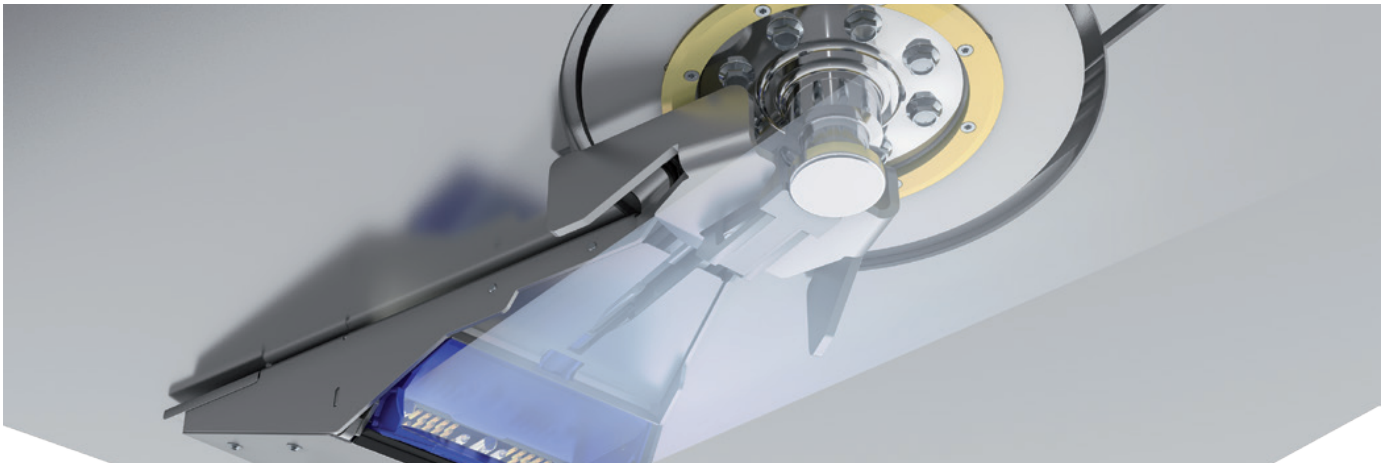
- KKS and sensors prevent trailer loss
- Wrong coupling is no longer possible: when the trailer is supplied with electricity, the king pin is in the fifth wheel coupling
- The driver cannot become trapped between truck and trailer
- No more workplace accidents caused by careless climbing
- Standard pneumatic cylinder always allows effortless opening of the fifth wheel coupling, even when the tractor-trailer is twisted
- Three sensors are built in as standard, for sensing the king pin, trailer plate and fifth wheel lock
- The landing gear is always moved all the way up, thereby preventing damage
- The coupling process is guided and observed by remote control, operating errors are prevented

Further advantages

- Simple coupling and decoupling, even when it is raining, snowing or during darkness
- Relieves time pressure on the driver, resulting in less stress and fewer errors
- Reduced space requirement, as cranking the landing legs is no longer necessary
- Increased convenience for the driver
- Of course, operation in mixed fleets is also possible; therefore, the JOST KKS can be introduced step-by-step
- Standardised plug certified to ISO 13044-2 makes the system future-proof
- Supply connections for truck and trailer remain intact
- Costs can be reduced, as the catwalk, supply lines and side flaps are no longer needed
- Can be reliably deployed for transporting dangerous goods thanks to ADR certificate
- Approved as per ECE R55-01 and ECE R13
- Spiral cables can no longer be broken off due to carelessness

JOST KKS is a revolutionary product which will permanently change the logistics sector, thanks to the time, comfort and safety gains enabled through a single product.

The complete automation of manual, time-consuming and strenuous processes enhances safety, efficiency and ensures greater satisfaction amongst drivers in today's fleets. A huge advancement, particularly in times of demographic changes and a lack of drivers!



KKS

No climbing, no cranking, no plugging

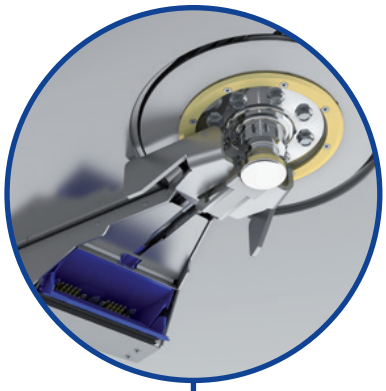
The automatic coupling system (KKS) automates the entire coupling procedure.

- Automatic plug connectors for supply lines, electric supply and ABS/EBS, no manual untangling of the existing spiral cables
- Fifth wheel coupling with remote control and remote display – no uncertainty when coupling thanks to a standardised coupling and decoupling process.
- Landing gear in line with cutting edge ergonomic standards – no manual cranking required, the landing gear extends and retracts completely
- The KKS assumes all strenuous and dangerous tasks

KKS Modul E-Drive

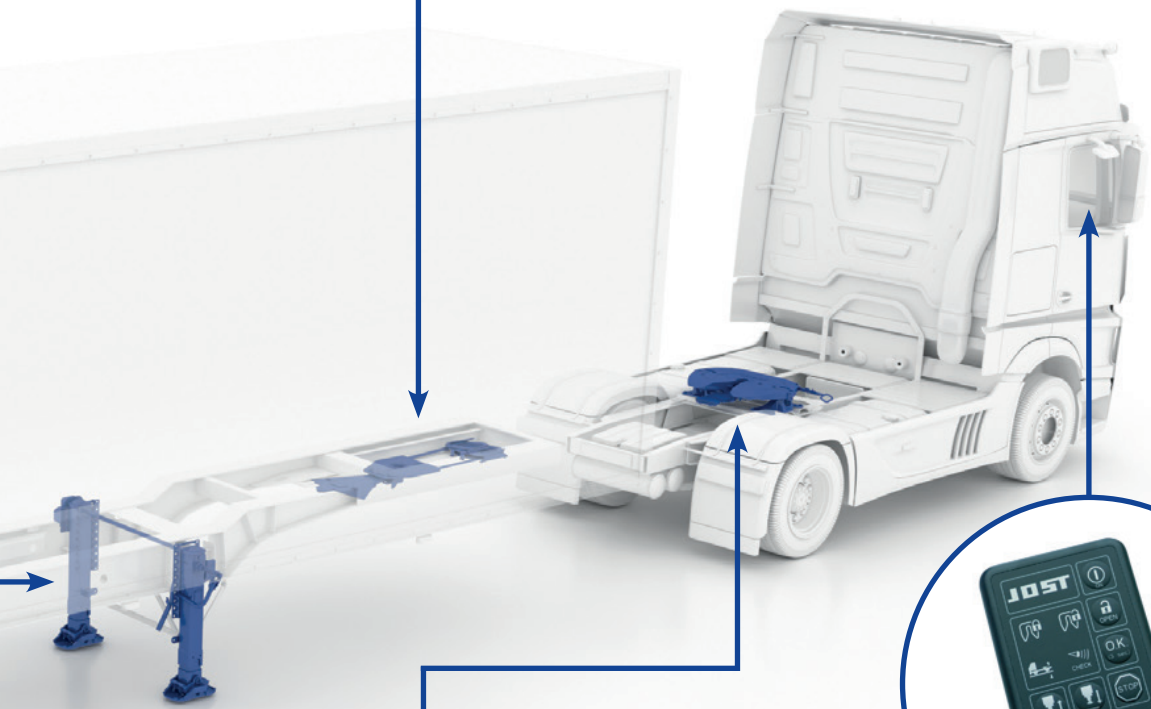
The innovative Modul E-Drive landing gear extends and retracts fully at the push of a button on the KKS remote control, thereby eliminating the need for strenuous and time-consuming cranking. It also prevents the feet from being caught and damaged on any bumps. JOST's S foot is installed as standard. And the Modul E-Drive further demonstrates its strengths when decoupling a trailer in tight spaces as the driver no longer has to manually crank the landing gear in restricted spaces.

The Modul E-Drive is part of the highly reliable and robust JOST Modul series and is available in different installation heights and plate positions.



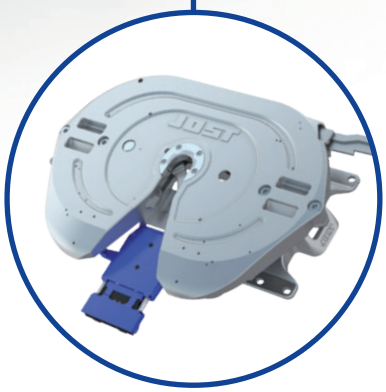
KKS Connector

The KKS Connector establishes all the necessary electrical and pneumatic connections between the truck and the trailer. This eliminates not only the danger caused by climbing onto and off the catwalk, but also the need to manually connect the supply lines. When decoupling a trailer, the connector always aligns to the straight-ahead position, ensuring the next coupling process goes smoothly.



KKS Remote Control

The KKS Remote Control provides the driver with live status information on the locking position of the fifth wheel coupling, the position of the trailer plate and the king pin. The driver is able to extend and retract the landing gear or open the KKS 42 from the driver's cab. The entire process is standardised, eliminating any possibility of a mistake.



KKS 42

The KKS is based on the proven and reliable JSK 42 with short handle. Depending on the design, it is supplemented by the LubeTronic *5* LubeTronic *1Point*. The KKS 42 also includes the innovative JOST SKS (sensor coupling system) featuring 3 sensors, thereby eliminating the need to pull on the handle and ensuring maximum safety when coupling.

Selection table / Versions available

Truck
KKS Fifth Wheel Coupling

Scope of delivery:
The KKS Fifth Wheel Coupling is structurally identical to the JSK 42. The models below serve as examples; more can be provided on request. Equipped as standard with sensors, SKS and LubeTronic 5Point in the standard version, or with LubeTronic *1Point* in the low-maintenance version. All with short handle.

Order No.	H (mm)	Weight (kg)	Approval (ECE)	WA
KKS 42 K0 20 79 AA	150	135	E1 55R-01 1245	LT*P5*
KKS 42 K0 20 U1 AA	150	134	E1 55R-01 1245	W+LT*P1*
KKS 42 K0 38 79 AA	185	133	E1 55R-01 1245	LT*P5*
KKS 42 K0 38 U1 AA	185	132	E1 55R-01 1245	W+LT*P1*
KKS 42 K0 57 79 AA	225	138	E1 55R-01 1245	LT*P5*
KKS 42 K0 57 U1 AA	225	137	E1 55R-01 1245	W+LT*P1*
KKS 42 K0 70 79 AA	250	142	E1 55R-01 1245	LT*P5*
KKS 42 K0 70 U1 AA	250	141	E1 55R-01 1245	W+LT*P1*

Trailer
KKS Modul E-Drive

- Available in six installation heights with an especially large lift
- Back plate can be ordered in three different plate positions (top, bottom and double back plate)

Order No.	M (mm)	H (mm)	A (mm)	Back plate
B0103-010000KKS	900	560	630	Double plate
B0203-010000KKS	850	520	580	Double plate
B0303-010000KKS	800	470	530	Double plate
B0403-010000KKS	750	430	480	Double plate
B0503-010000KKS	700	400	430	Double plate
B0603-010000KKS	650	350	380	Double plate

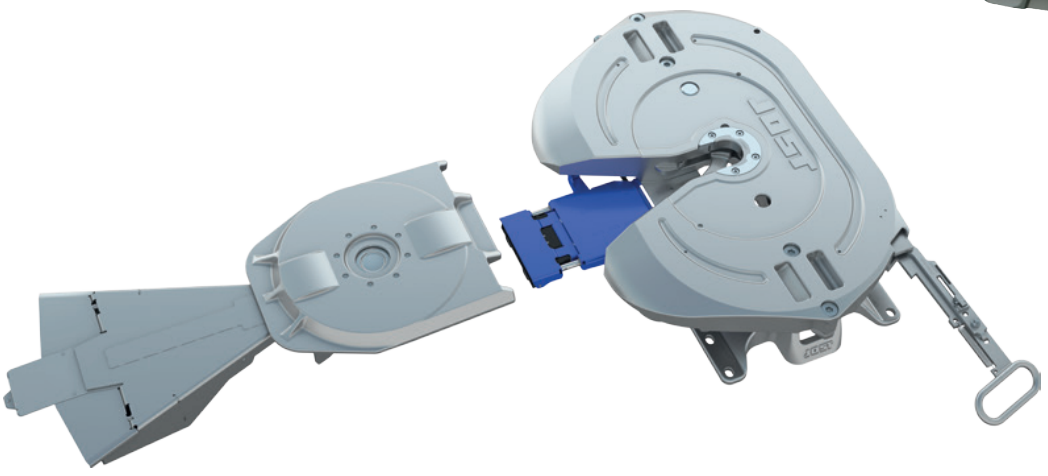
Can only be ordered with S foot
Note: Other models available on request. Cranks and connection shafts need to be ordered separately and are shipped unassembled. More information and designs on page 136 of the catalogue.

Trailer
KKS Connector

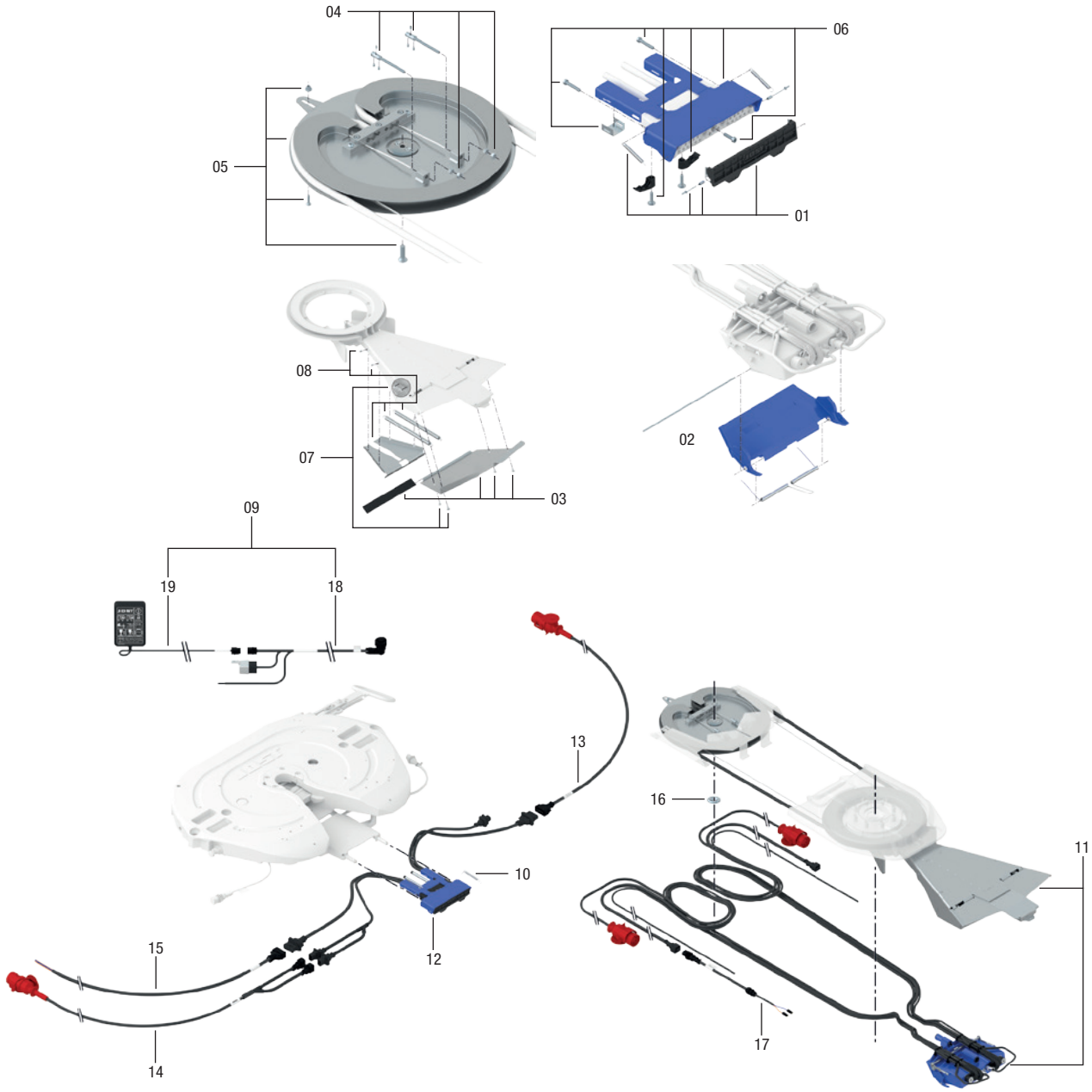
- Available KKS Connector models (includes cable drum, steering wedge, retention plate and cathodic dip-coated king pin, KKS plug for installing in the trailer)
- Dimensions A and B, in line with king pin KZ10

Order No.	A (mm)	B (mm)	Approval (ECE)
KKS C 1008 000 109	8	37	E1 55R-01 0145
KKS C 1010 000 109	10	34	E1 55R-01 0145
KKS C 1012 000 109	12	33	E1 55R-01 0145

Delivery includes:
King pin complete with plate and screws (mounted)



Spare parts and kit



Item	Description	Remark	Order No.
01	Socket cover kit (ready to install)		KKSE 100473400
02	Aluminium valve kit		KKSE 119091300
03	Lower cover panel for wedge kit		KKSE 115641500
04	Steel cable tensioner kit		KKSE 119052600
05	Cable storage kit		KKSE 115642300
06	Socket guard kit		KKSE 115631200
07	Pivoted lever spring kit		KKSE 115637400
08	Wedge return spring kit		KKSE 115642100
09	Connector cable with relay	cpl. with 18 + 19	KKSE 100457600
10	Socket cover tension spring		KKSE 119260700
11	Wedge transport kit	cpl. with 03 + 07 + 08 + 02	KKSE 115634800
12	KKS socket unit	cpl. with 14 + 10 + 01 + 06	KKSE 115628200
13	15 pin cable set		KKSE 119293700
14	7 pin cable set		KKSE 119293900
15	4 pin energy supply cable		KKSE 119293800
16	Centering ring		KKSE 115634700
17	E-Drive to KKS adapter cable	if E-Drive already available	KKSE 119057200
18	Connector cable with relay		KKSE 100458200
19	Display		KKSE 100457300