



**TIMBER
CRANES**

#yourlifetimematch



www.kesla.com





My Inner Strenx™

KESLA truck cranes are participating in the Inner Strenx™ -program by SSAB. Only the best products are selected for the program, they fulfil the strict quality requirements and are made of extra strong Strenx structural steel.



KESLA proTECT protects the surface of your crane

The surface treatment for the Kesla truck crane is handled and utilized in accordance with the latest nano ceramic conversion technology. As a result, the paint is very impenetrable and durable.

A PASSION TO DO THINGS BETTER

Kesla was founded by farmer Antti Kärkkäinen in 1960. The operations of the company were based on Antti's invented products for agriculture and later on for forestry sector's products. The real passion for Antti was to do things better, and for Kesla's personnel today it still remains the same. The customer is at the center of all the activities, that is the basic innovation for us at Kesla. By listening to the customer and doing things together we truly create the solutions which will meet the customers' needs.

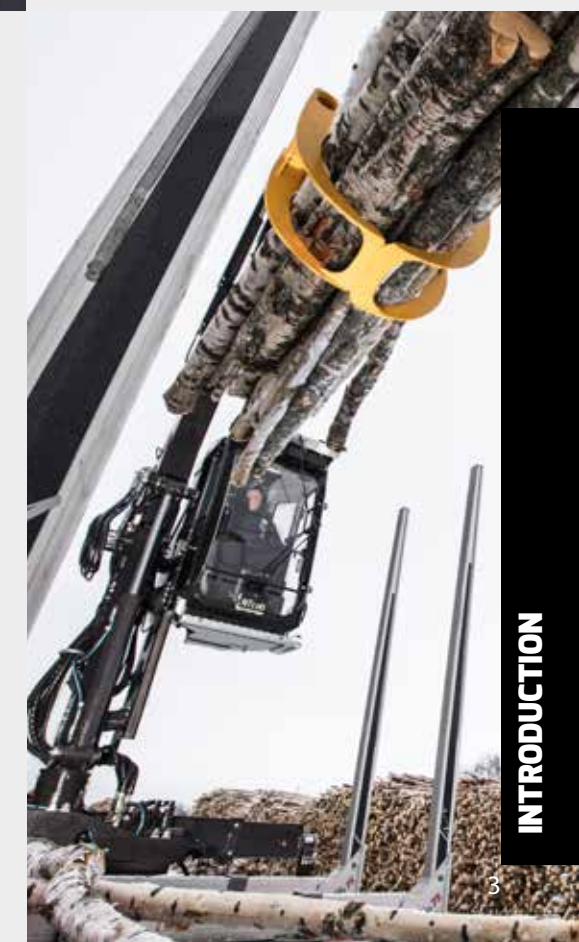
Today Kesla is a strong player in forest technology, with about 250 employees in three locations in Finland and one subsidiary in Germany. Kesla's products are exported to over 35 countries around the world.

We are the proud members of the KESLA-team. We also welcome you, our valued customer, to our team.



ISO 9001 tells all about the quality of the operations

Kesla has been granted an ISO 9001 quality certificate. It is a certificate of the overall, innovative development activities which enable the offering of quality products and services. The ISO standard does not only affect the materials and manufacturing of the products but also all the activities of the company.



WHY A KESLA CRANE?

Kesla has been manufacturing cranes for timber handling already for over a half of a century. During that time tens of thousands of cranes have been exported to almost 50 countries. Durability has been the strength for Kesla from the very beginning along with usability and service friendliness. The KESLA cranes are manufactured in Joensuu with Finnish expertise.



End damped movements

The slewing, extension and cab lifting of the KESLA cranes are all end damped.

Made from quality materials

We use high quality strength steel (Strenx™) for our cranes.

KESLA proTECT surface treatment

The surface treatment line in our factory represents the newest technology and therefore it ensures a durable surface.

A traditional straight boom or space-saving Z-boom

Among the KESLA crane models there are in addition to the alternatives with straight boom also cranes with a Z-boom for which the space-saving transport position is an advantage.

Standard or high pillar

For several of the straight boom cranes there is in addition to the standard pillar a high pillar available which makes it possible to use the load area more efficiently.

Separate or integrated stabilizer leg

For several cranes there is a separate stabilizer leg available instead of the integrated one. This adds more flexibility for the building of the truck bodywork.

Suitable length for stabilizer cylinders and transportation position for the stabilizer legs

The crane stabilizers are available with several different cylinder lengths and with several alternatives for the stabilizer transport position.

Alternatives for all installation methods

The cranes are designed for versatile installation. Whether you wanted that the center position of the boom is in the direction of the truck cab or at the rear end of the crane, installation behind the cab or at the back of the truck.



Alternatives for control units

KESLA-truck cranes can be equipped with an open seat equipment or with a cab. There are several alternatives available for both kinds of equipment.

Control systems

KESLA cranes can be controlled either mechanically or electrically. The most used control system is KESLA proC.

Wide angled universal joint

The wide angled universal joint adds smoothness to the lifting force in different boom positions.

The V-base improves the accuracy of the extension

The boom base has a designed V-type, whereby the shape of the base controls the output of the extension more firmly and makes usage more accurate.

Spacious hydraulics

The hydraulics in our cranes are designed to be spacious. This improves the smoothness of the movements and reduces the fuel consumption.

The pipes and hoses are protected throughout the whole length of the boom

The crane pipes and hoses are protected when placed inside the boom throughout its whole length. The same goes especially for the universal joints between the lift boom and the outer boom.

Service friendly design

The serviceability of the KESLA 21-series are taken into account in their design. This is also reflected in our customers' maintenance costs.

The grapple hoses are protected with the KesLINK

The KesLINK link developed by Kesla keeps the hoses going in to the grapple aligned and are better protected than a traditional link.





Technical specifications

Model	Lifting torque	Outreach	Extension	Slewing torque	Turning angle	Work pressure	*Weight	*Weight + stabilizer legs
2109-76	103 kNm	7 600 mm	1 600 mm	23 kNm	418°	26 MPa	1 990 kg	
2109-81	98 kNm	8 100 mm	1 600 mm	23 kNm	418°	26 MPa	2 015 kg	
2109-86	94 kNm	8 600 mm	1 600 mm	23 kNm	418°	26 MPa	2 040 kg	
2109T-92	97 kNm	9 210 mm	2 x 1600 mm	23 kNm	418°	26 MPa	2 170 kg	
2109T-97	92 kNm	9 710 mm	2 x 1600 mm	23 kNm	418°	26 MPa	2 195 kg	
2110-76	111 kNm	7 600 mm	1 600 mm	23 kNm	418°	26 MPa	1 990 kg	
2110-81	106 kNm	8 100 mm	1 600 mm	23 kNm	418°	26 MPa	2 015 kg	
2110-86	102 kNm	8 600 mm	1 600 mm	23 kNm	418°	26 MPa	2 040 kg	
2110T-92	105 kNm	9 210 mm	2 x 1600 mm	23 kNm	418°	26 MPa	2 170 kg	
2110T-97	100 kNm	9 710 mm	2 x 1 600 mm	23 kNm	418°	26 MPa	2 195 kg	
2110T-102	94 kNm	10 210 mm	2 x 1 600 mm	23 kNm	418°	26 MPa	2 220 kg	
2112-72	138 kNm	7 200 mm	1 600 mm	23 kNm	418°	26 MPa	2 120 kg	1 840+367 kg
2112-81	128 kNm	8 100 mm	1600 mm	23 kNm	418°	26 MPa	2 190 kg	1 910+367 kg
2112-86	124 kNm	8 600 mm	1600 mm	23 kNm	418°	26 MPa	2 220 kg	1 940+367 kg
2112T-97	122 kNm	9 710 mm	2 x 1 600 mm	23 kNm	418°	26 MPa	2 290 kg	2 010+367 kg
2112T-102	116 kNm	10 210 mm	2 x 1 600 mm	23 kNm	418°	26 MPa	2 330 kg	2 050+367 kg
2112T-115	110 kNm	11 510 mm	2 x 2000 mm	23 kNm	418°	26 MPa	2 390 kg	2 110+367 kg
2115-81	151 kNm	8 100 mm	1 600 mm	28 kNm	425°	26 MPa		2 070+367 kg
2115-86	146 kNm	8 600 mm	1600 mm	28 kNm	425°	26 MPa		2 100+367 kg
2115T-97	145 kNm	9 710 mm	2 x 1 600 mm	28 kNm	425°	26 MPa		2 180+367 kg
2115T-102	139 kNm	10 210 mm	2 x 1 600 mm	28 kNm	425°	26 MPa		2 210+367 kg
2117-81	172 kNm	8 100 mm	1600 mm	28 kNm	425°	26 MPa		2 070+367 kg
2117-86	167 kNm	8 600 mm	1600 mm	28 kNm	425°	26 MPa		2 100+367 kg
2117T-97	166 kNm	9 710 mm	2 x 1 600 mm	28 kNm	425°	26 MPa		2 180+367 kg
2117T-102	161 kNm	10 210 mm	2 x 1 600 mm	28 kNm	425°	26 MPa		2 210+367 kg
2117T-115	149 kNm	11 510 mm	2 x 200 mm	28 kNm	425°	26 MPa		2273kg+367 kg
2117T-125	139 kNm	12 510 mm	2 x 200 mm	28 kNm	425°	26 MPa		2346kg+367 kg
2009S-81	95 kNm	8 050 mm	1 600 mm	22 kNm	415°	24 MPa	2 110 kg	
2009ST-96	89 kNm	9 610 mm	2 x 1 600 mm	22 kNm	415°	24 MPa	2 210 kg	
2010-81	105 kNm	8 050 mm	1 600 mm	25 kNm	415°	24 MPa	2 390 kg	
2010T-96	99 kNm	9 650 mm	2 x 1 600 mm	25 kNm	415°	24 MPa	2 510 kg	
2010T-101	92 kNm	10 100 mm	2 x 1 600 mm	25 kNm	415°	24 MPa	2 540 kg	
2012-81	125 kNm	8 050 mm	1 600 mm	25 kNm	415	24 MPa	2 340 kg	
2012-86	121 kNm	8 550 mm	1 600 mm	25 kNm	415°	24 MPa	2 370 kg	
2012T-96	119 kNm	9 650 mm	2 x 1 600 mm	25 kNm	415°	24 MPa	2 486 kg	
2012T-101	112 kNm	10 150 mm	2 x 1 600 mm	25 kNm	415°	24 MPa	2 520 kg	
2012T-114	106 kNm	11 450 mm	2 x 2 000 mm	25 kNm	415°	24 MPa	2 670 kg	
2124L-84	235 kNm	8 360 mm	1 700 mm	38 kNm	415°	26 MPa		2 350+420 kg
2124L-88	230 kNm	8 760 mm	1 700 mm	38 kNm	415°	26 MPa		2 390+420 kg
2024-82	240 kNm	8 200 mm	1 700 mm	42 kNm	415°	26 MPa		2 910+500 kg
2024-88	230 kNm	8 710 mm	1 700 mm	42 kNm	415°	26 MPa		2 940+500 kg
2024-94	220 kNm	9 400 mm	1 700 mm	42 kNm	415°	26 MPa		3 050+500 kg
2024-104	210 kNm	10 400 mm	1 700 mm	42 kNm	415°	26 MPa		3 070+500 kg
2024-114	200 kNm	11 400 mm	1 700 mm	42 kNm	415°	26 MPa		3 210+500 kg
2024-124	195 kNm	12 400 mm	1 700 mm	42 kNm	415°	26 MPa		3 310+500 kg
2028-82	260 kNm	8 200 mm	1 700 mm	42 kNm	415°	28 MPa		2 910+500 kg
2028-85	258 kNm	8 500 mm	1 700 mm	42 kNm	415°	28 MPa		2 920+500 kg
2028-88	247 kNm	8 710 mm	1 700 mm	42 kNm	415°	28 MPa		2 940+500 kg
2028-91	245 kNm	9 010 mm	1 700 mm	42 kNm	415°	28 MPa		2 950+500 kg
2028-104	230 kNm	10 400 mm	1 700 mm	42 kNm	415°	28 MPa		3 070 +500 kg

* Weight with integrated stabilizer legs. ** Crane weight + separate stabilizer legs weight. The weight includes the open seat equipment without the link, slewing and oil.
8 The products in the picture may be equipped with optional attachments. Kesla reserves the right to make changes.



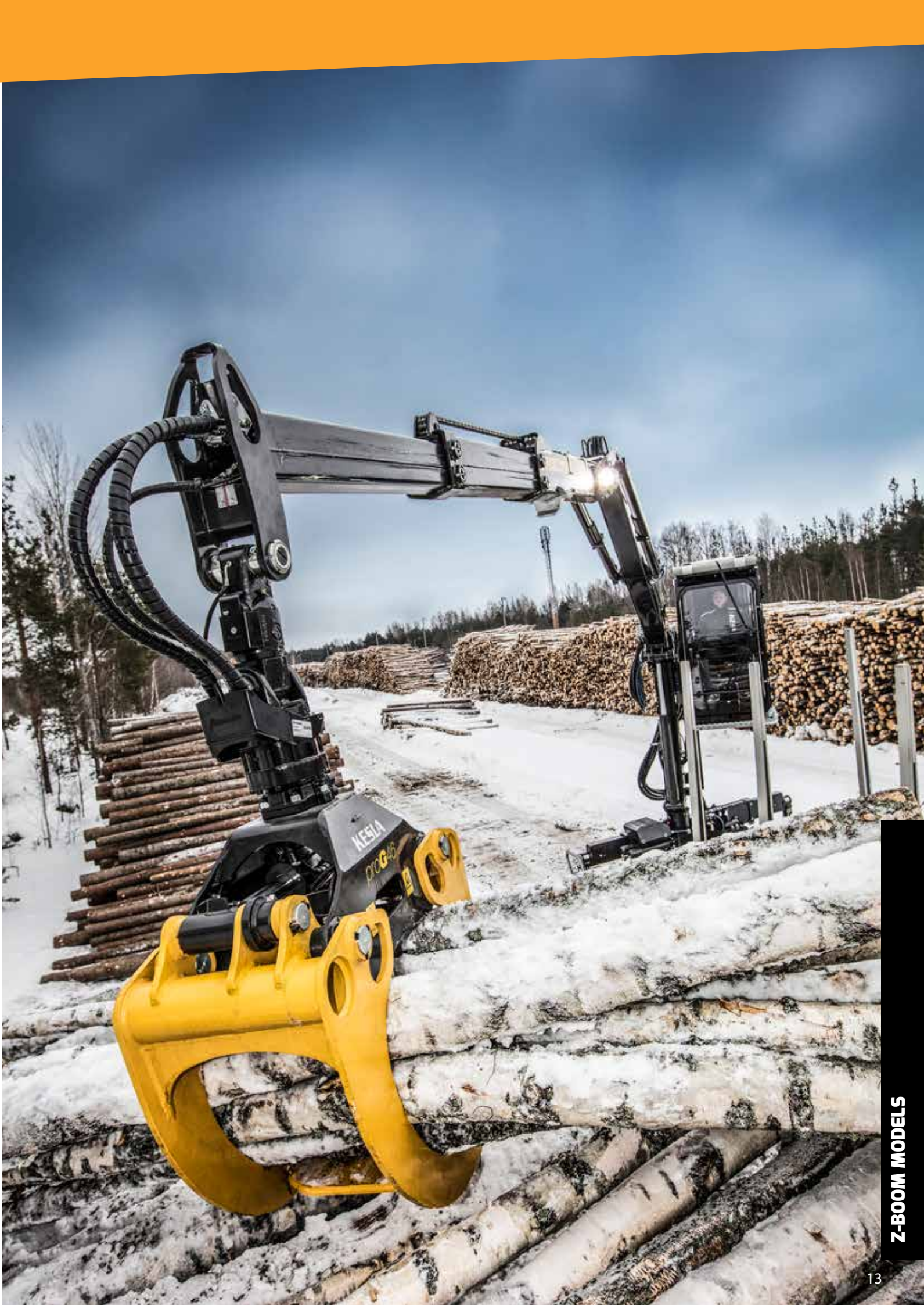
STRAIGHT BOOM MODELS



Technical specifications

Model	Lifting torque	Outreach	Extension	Slewing torque	Turning angle	Work pressure	Weight*	Weight* + stabilizer legs
2105Z-59	59 kNm	5 900 mm	1 200 mm	14 kNm	415°	26 MPa	1 660 kg	
2105ZT-71	54 kNm	7 100 mm	2 300 mm	14 kNm	415°	26 MPa	1 720 kg	
2109Z-80	93 kNm	8 000 mm	1 650 mm	23 kNm	415°	26 MPa	2 140 kg	
2109ZT-90	90 kNm	8 950 mm	2 x 1 450 mm	23 kNm	415°	26 MPa	2 210 kg	
2109ZT-95	88 kNm	9 500 mm	2 x 1 550 mm	23 kNm	415°	26 MPa	2 230 kg	
2110Z-80	101 kNm	8 000 mm	1 650 mm	23 kNm	415°	26 MPa	2 140 kg	
2110ZT-90	98 kNm	8 950 mm	2 x 1 450 mm	23 kNm	415°	26 MPa	2 210 kg	
2110ZT-95	96 kNm	9 500 mm	2 x 1 550 mm	23 kNm	415°	26 MPa	2 230 kg	
2111Z-77	112 kNm	7 720 mm	1 650 mm	23 kNm	415°	26 MPa	2 280 kg	
2111Z-81	110 kNm	8 090 mm	1 650 mm	23 kNm	415°	26 MPa	2 290 kg	
2111ZT-90	107 kNm	8 950 mm	2 x 1 450 mm	23 kNm	415°	26 MPa	2 380 kg	
2111ZT-96	105 kNm	9 575 mm	2 x 1 550 mm	23 kNm	415°	26 MPa	2 410 kg	
2112Z-81	120 kNm	8 090 mm	1 650 mm	28 kNm	415°	26 MPa	2 290 kg	2 020+370 kg
2112ZT-96	115 kNm	9 575 mm	2 x 1 550 mm	28 kNm	415°	26 MPa	2 410 kg	2 130+370 kg
2114Z-81	139 kNm	8 080 mm	1 650 mm	28 kNm	415°	26 MPa		2 140+370 kg
2114ZT-94	134 kNm	9 375 mm	2 x 1 450 mm	28 kNm	415°	26 MPa		2 240+370 kg
2114ZT-101	128 kNm	10 100 mm	2 x 1 690 mm	28 kNm	415°	26 MPa		2 270+370 kg
2117Z-81	167 kNm	8 080 mm	1 650 mm	28 kNm	415°	26 MPa		2 140+370 kg
2117ZT-94	162 kNm	9 375 mm	2 x 1 450 mm	28 kNm	415°	26 MPa		2 240+370 kg
2117ZT-101	156 kNm	10 100 mm	2 x 1 690 mm	31 kNm	415°	26 MPa		2 270+370 kg
2121Z-82	216 kNm	8 200 mm	1 650 mm	38 kNm	370°	26 MPa		2 660+420 kg
2121ZT-97	210 kNm	9 675 mm	2 x 1 550 mm	38 kNm	370°	26 MPa		2 790+420 kg
2124Z-82	250 kNm	8 200 mm	1 650 mm	38 kNm	370°	30 MPa		2 670+420 kg
2124ZT-97	244 kNm	9 675 mm	2 x 1 550 mm	38 kNm	370°	30 MPa		2 800+420 kg

* Weight with integrated stabilizer legs.
** Crane weight + separate stabilizer legs weight.
The weight includes the open seat equipment without the link, slewing and oil.
The products in the picture may be equipped with optional attachments. Kesla reserves the right to make changes.



FULL CONTROL AS A CROWNING TOUCH

The controllability of the KESLA crane has got the key role. Therefore, there are several controls available, everything from the open seat control to the comfortable cab alternatives, where you can be also for longer periods. An electric control is an option available in addition to the traditional mechanical control.

KESLA VISION CABS

The KESLA Vision cabs provide you with comfortable conditions for operating the crane, regardless of the weather outside. For your use there are both mechanical as well as electrical controllers.

The cab is available as a normal size as well as an XL-version. The XL-sized cab offers more space and it is especially suitable for the long-lasting crane operations.

The standard color of the cab is RAL9007 (silver grey) and the tapings available are either a KESLA standard taping or a round "Proud member" taping on a black background.

Vision



Vision XL



Available for the KESLA Vision are:

Cooling or air conditioning
Diesel or water heating, as an option air filter F9
Basic seat or seat with mechanical or air suspension, also with armrest
Option for 7 work lights
Beacon or LED level flasher
Windup protective tarpaulin
Possible opening side window

Available for the KESLA XL Vision among others:

Cab on the left or right, hinges on the front or back of the door
Integrated or non-integrated air conditioning
Diesel or water heating
Seat with a mechanical suspension, heated air suspension or adjustable base also with arm rests
Air filter F9 or Sy-Klone
Option for 7 work lights
Beacon or LED level flasher
Radio
Sunshield and windup protective tarpaulin

KESLA ProCAB Vision XL in black color (RAL9005) and a "Proud member" taping.



TOP SEAT EQUIPMENT

The top seat equipment is an inexpensive and convenient solution for all cranes and especially when not operating the crane for long times or when the weather conditions are mild. The comfort of the top seat equipment can be enhanced with different options like seat heating and weather protection. The open seat equipment is compatible with the mechanical controllers.

The traditional top seat equipment is inexpensive and a suitable alternative for all KESLA cranes.



The turning angle of the top seat equipment E is a bit smaller than the traditional one's.



Electrical control is now available for top seat equipment

The KESLA proC electrical control system is available also for the top seat equipment. The control is done with the weather proof Walvoil levers.

NEW!



Control Systems

The KESLA cranes are controlled by hydraulics, either by mechanical or electrical controllers. During the last years electrical control has gained popularity and Kesla has also put particular focus on the development of the electrical control systems.

One example of Kesla's achievements in this area is the **KESLA proSTABILITY** stability control system which is available with both radio- and joystick-control. Thanks to the system the crane can be operated safely also in urban operating conditions.



Mechanical control system

Inexpensive and traditional mechanical control systems are available with 2-levers as well as 4-levers.

The mechanical control demands more of the operator but the system itself is simple and reliable.



Electrical control system

For electrical control Kesla offers the Iqan-system based on KESLA proC system as well as Olsberg. Olsberg is suitable only for a cab equipped machine but the KESLA proC system is also available for the top seat equipment.

KESLA proC-electrical control system

The KESLA proC control system enables individual adjustments of the crane movements for several operators or for different kinds of work. Additionally, there is a **Motion Balance**-function which ensures the crane movements by using a small flow of oil.



Customize your crane to suit your demands

With different alternatives for control and optional equipment you can customize your crane to suit your demands and for the best serving individual crane unit, down to the color of your choice. The standard color of the KESLA cranes is black (RAL 9004) but the crane and cab can be ordered with any RAL-shade.



Hosing of the outer boom

Hosing outside the boom is the traditional alternative.



Hosing inside the boom

The hoses are protected and they do not need to be changed often.



In roller controlled cranes the hoses are protected by the controller on top of the boom.



Stabilizer legs

Integrated stabilizer legs are always attached under the crane.



Integrated Flapdown-stabilizer legs give a better stability than ordinary stabilizer legs.



Separate stabilizer legs allow a placement of the stabilizer beam independent of the cranes position.



Separate, wide stabilizer legs allow a placement of the stabilizer beam independent of the crane and offer an excellent balance.



Terminal truck stabilizer legs are in turn designed for continuous heavy duty.



ALL STABILIZER LEGS ARE EQUIPPED WITH INNER SPREADING CYLINDERS!

Stairs

The standard steps are made of two stair steps which can be freely positioned onto the stabilizer legs.



The safety steps are steps which enable entrance to the crane in all stabilizing leg positions.

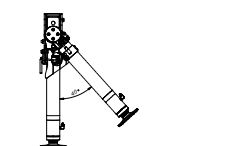


Additional steps are available for the Z-crane. This makes it easier to climb into the cab while in transport position.

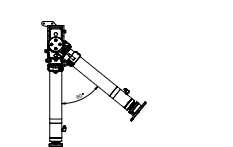


Automatic transporting position of the stabilizer legs

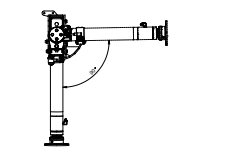
40° automatic transporting position of the stabilizer legs.



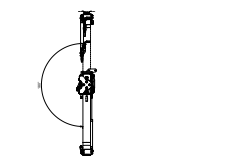
60° automatic transporting position of the stabilizer legs.



90° automatic transporting position of the stabilizer legs.

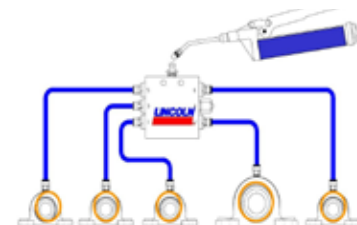


180° automatic transporting position of the stabilizer legs.



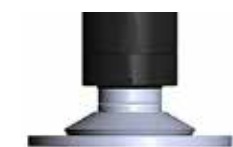
Central lubrication system

Manual or automatic lubrication system, which works with all kinds of grease.



Stabilizing leg base

Fixed stabilizing leg base



Inclining stabilizing leg base



Emergency switc

The emergency switch can be mounted on the stabilizer beam. With this the operation of the crane can be stopped by pressing the switch.



Log stop

The log stop makes the log handling easier. It can be mounted on the lift boom and depending on the crane model also on the outer boom.



Work lights

The work lights can be mounted on both sides of the boom in well protected lamp housing. H3, LED and Xenon-lights are available.

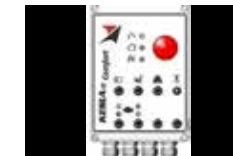


Load monitoring

KESLA CE equipment is the load monitoring system according to the EU directives for loading and transporting position.



KESLA CE Comfort equipment: Loading and stabilizer monitoring, inclinometer equipment, emergency stop, switches for lighting and seat heating, adjustment of the motor revolutions, two free switches for customization by a customer.



Z-crane with center pillar

The Z-crane with center pillar is especially suitable for four-axle towing tractors. With the location of the central pillar of the towing vehicle (width direction) makes it easier to get into the cab.



POL

POL equipment (Prevent Over Load) prevents the lifting of a too heavy load with the crane.



Load lowering valve

Load lowering valves are integrated into the transfer and extension cylinders, without any external components being exposed to breakage.



Pressure accumulators

Pressure accumulator damping selected by choice for the cylinders of the slewing, lifting boom and outer boom.



Suitability of the equipment for each model

Standard •
Optional equipment ◦

	1200/T	2109/T	2009S/ST	2010/T	2110/T	2012/T	2112/T	2014/T	2115/T	2117/T	2024	2124	2028	2105Z/T	2109Z/ZT	2110Z/ZT	2111Z/ZT	2112Z/ZT	2114Z/ZT	2117Z/ZT	2121Z/ZT	2124Z/ZT
Hosing																						
On top of the outer boom	•	◦	•	•	◦	•	◦	•	◦	◦	-	-	-	-	-	-	-	-	-	-	-	-
On the side of the outer boom	◦	-	◦	◦	-	◦	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inner hosing in the outer boom	-	•	-	-	•	-	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Roller control equipment	◦	-	-	◦	-	◦	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Controllers																						
2 levers + 2 pedals	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
4 levers + 2 pedals	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
5 levers + 1 pedal	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Cab																						
Upper control equipment	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Upper control equipment E	-	-	-	-	-	-	-	-	-	-	-	-	-	◦	◦	◦	◦	◦	◦	◦	◦	◦
Upper control equipment on side	-	-	-	◦	-	◦	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KESLA Vision cab	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	-	◦	◦	◦	◦	◦	◦	-	-
KESLA Vision XL cab	◦	-	-	-	-	-	◦	-	◦	◦	-	-	-	-	-	-	◦	◦	◦	◦	-	-
Control																						
Mechanical	-	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Electrical KESLA proC (in cab)	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
Electrical KESLA proC (top seat equipment)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◦	◦	◦	◦	◦	◦	-	-
Stabilizers																						
Integrated stabilizer legs	-	•	•	•	•	•	•	•	-	-	-	-	-	•	•	•	•	◦	-	-	-	-
Integrated Flapdown-stabilizer legs	-	-	-	-	-	-	-	-	-	-	-	-	-	◦	-	-	-	-	-	-	-	-
Separate stabilizer legs	◦	-	-	-	-	-	◦	-	◦	◦	◦	◦	◦	-	-	-	-	◦	◦	◦	◦	◦
Separate wide stabilizer legs	◦	-	-	-	-	-	◦	-	◦	◦	◦	◦	◦	-	-	-	-	◦	◦	◦	◦	◦
Separate support legs for heavy use	-	-	-	-	-	-	-	-	◦	-	-	-	-	-	-	-	-	-	-	-	-	-
Turning of the stabilizer legs																						
40	◦	◦	-	-	◦	-	◦	-	◦	◦	-	-	-	◦	◦	◦	◦	◦	◦	◦	◦	◦
60	◦	◦	•	•	◦	•	◦	•	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
90	-	◦	◦	◦	◦	◦	◦	◦	◦	◦	-	-	-	◦	◦	◦	◦	◦	◦	◦	◦	◦
180	-	-	-	◦	-	◦	-	◦	◦	◦	-	-	-	◦	◦	◦	◦	◦	◦	◦	◦	◦
Piping for the scales	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	-	-	-	-	-	-	-	-	-
Load monitoring																						
CE	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
CE Comfort (requires a relief valve, only top seat equipment)	-	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦
POL equipment	-	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	-	-
LHV equipment	-	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	-	-
Additional step in the stabilizer beam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◦	◦	◦	◦	◦	◦	-	-
Lift cylinder protection	◦	◦	◦	◦	◦	◦	◦	◦	◦	◦	•	•	•	◦	◦	◦	◦	◦	◦	◦	◦	•
Center pillar version (Z-booms)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◦	◦	-	-	-	-
Higher pillar (+200 mm)	-	◦	-	-	◦	-	◦	-	◦	◦	-	-	-	-	-	-	-	-	-	-	-	-

The products in the picture may be equipped with optional attachments. Kesla reserves the right to make changes.

KESLA proG -grapples

In the KESLA proG-grapple series there is always an optimal grapple for all KESLA cranes. The proG-series cover the 0,18 – 0,5 m² wood grapples and different rake grapples for handling biomass wood and other materials. The renovated geometry makes the handling of the wood efficient and thanks to new structural solutions the durability and reliability have come to totally new higher levels.



EQUIPMENT TABLE

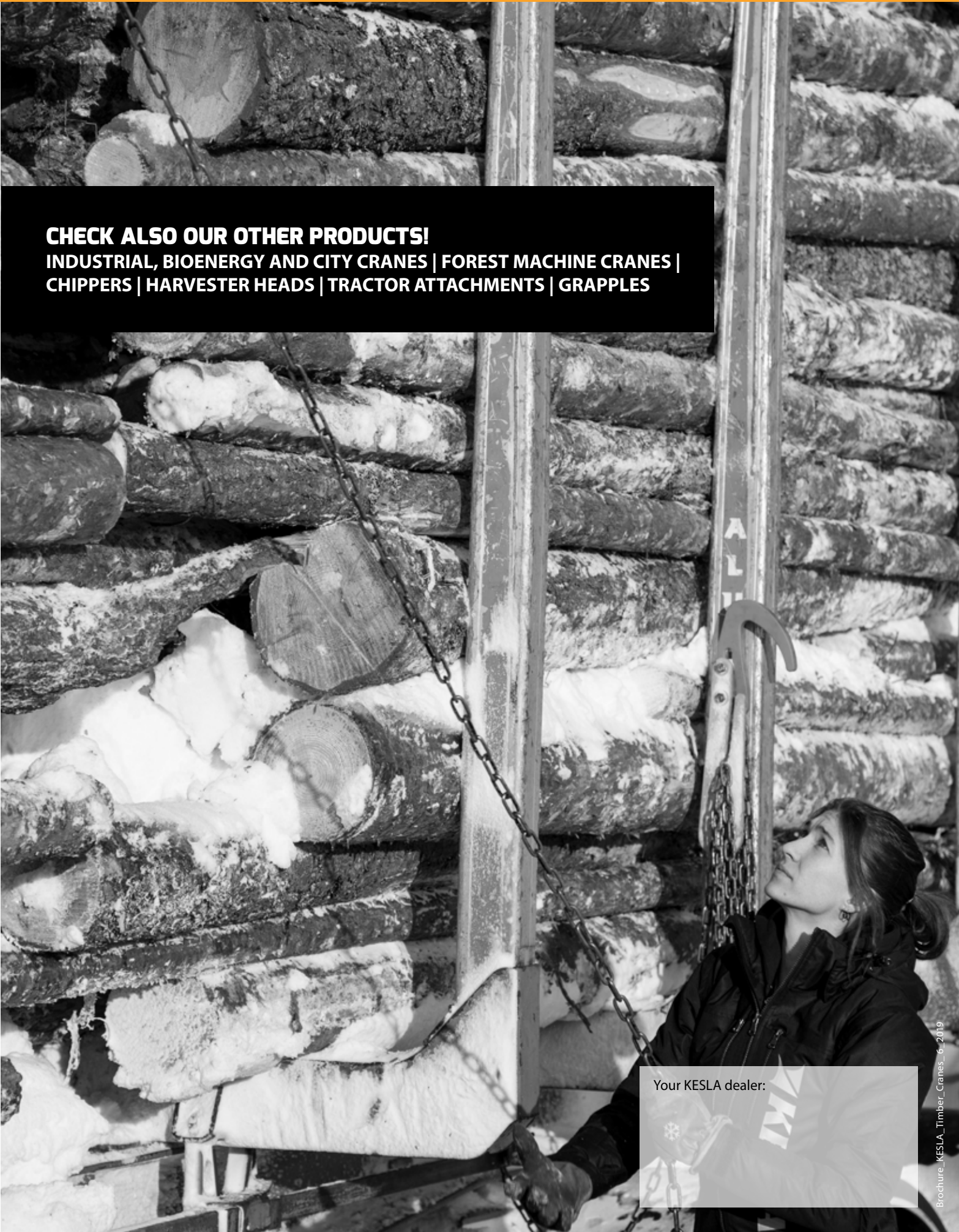
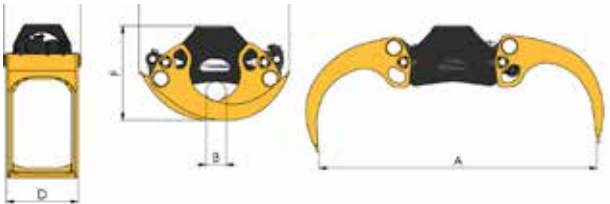
KESLA proG -grapples

Technical specifications

	Weight (kg)	Area (m ²)	Work pres- sure (MPa)	Jaw power (kN)	Maxi- mum load (kg)
28	170	0.27	25	13	3 000
30	200	0.3	25	16	3 500
30E	245	0.21	25	18	3 500
35	215	0.35	26	16	4 000
40	265	0.4	26	21	5 000
40E3	300	0.25	26	21	4 000
40E	325	0.25	26	21	5 000
46	270	0.46	26	21	5 000
50L	225	0.5	26	17	3 500
50	280	0.5	26	21	5 000
50E	380	0.46	26	21	5 000
50E6	450	0.46	26	21	5 000

Dimensions

	A	B	C	D	E	F
28	1 610	100	480	434	835	590
30	1 565	100	480	442	890	580
30E	1 630	70	510	500	820	570
35	1 570	125	480	442	950	615
40	1 990	140	540	503	1005	675
40E3	1 955	70	575	471	965	610
40E	1 955	70	575	561	965	610
46	1 955	140	540	503	1 055	660
50L	1 960	130	540	495	1 150	680
50	1 960	130	540	503	1 150	680
50E	1 980	140	575	561	1 120	675
50E6	1 980	140	575	561	1 120	675



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