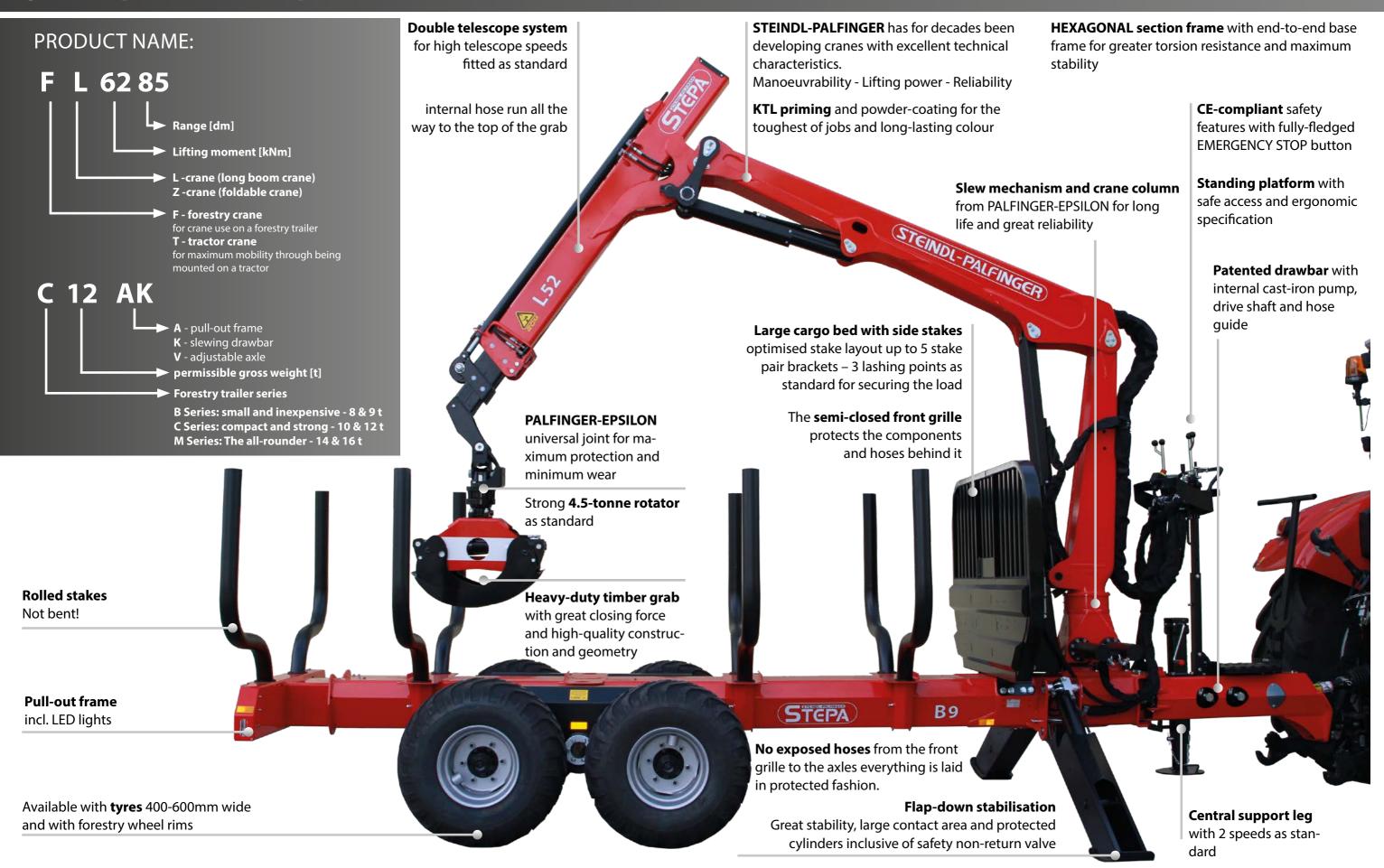


FORESTRY PRODUCTS



THE STEPA ADVANTAGE STEINDL-PALFINGER



FORESTRY TRAILERS B SERIES 8 & 9 TONNES

A particularly striking feature is the new hexagonal base frame section, which is used from the slewing drawbar all the way to the rear end.

It is neither a classical mono frame nor a double-frame construction. The large hexagonal section shape is broader and thus more than twice as resistant to distortion as all other frame shapes to date.

The crane superstructure can also be mounted directly onto the base frame without any elaborate reinforcing plates. STEPA is thus setting new standards, including in the case of the small trailers.

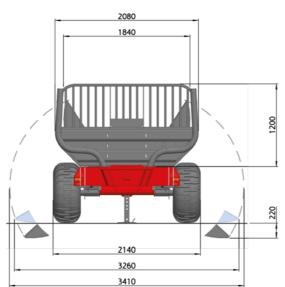
The smaller B 8K is equipped as standard for a maximum of three stake pairs and with a \pm -40° slewing drawbar. Its big brother, the B 9AK, provides the possibility of using ten stakes and also has a 500mm-long pull-out extension.

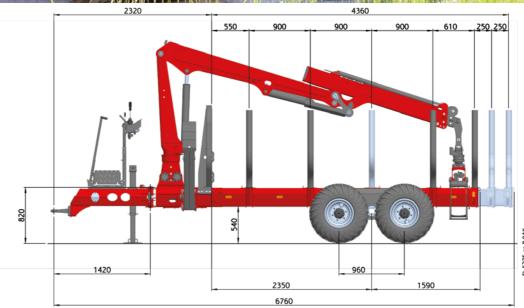
TIP: In combination with an 8.5-metre crane with 5.2 metres/ tonne lifting torque, this trailer has not only a low dead weight, but also real lifting power when going about its work. Unprecedented in this class!



B Series Technical Data	B 8K	B 9AK	
tyre size			0-15.5"
permitted total weight at 10 km/h on non-public roads	[tonnes]	11	12
permitted total weight at 25 km/h implementation	[tonnes]	9	10
load space	[m ²]	1	.9
slew angle of the swing axle	[°]	+/-	12
unladen weight with standard tyres*	[kg]	1720	1820
suitable for the following forestry crane models		FL 42	2 - 52

^{*} additional weight: 4TB opt. tyres: 150 kg DLB: 100 kg • own oil supply: 200 kg





FORESTRY TRAILERS C SERIES 10 & 12 TONNES

The C Series can be supplemented with a wealth of equipment variants, such as top seat, radio remote control unit, hydraulic auxiliary drive and even Z-cranes.

The C Series comes as standard with a +700mm mechanical pull-out frame, via which the load area can be appreciably extended further.

All STEPA forestry cranes with up to 6 metres/tonne lifting torque and 9.5 metres reach can be mounted on this trailer, making it an absolute leader in its class.

TIP: A Z-crane can not only be folded up, but thanks to its linkage lever between crane column and lifting boom has enormous lifting power in the upper movement range.



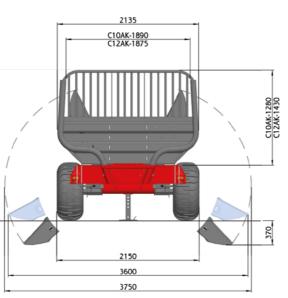
Type approval for road use at up to 25 km/h							
	Tyre sizes	Drive force at 250 bar	Drive speed at 2x40l/min				
	400/60Q-15.5	1.5 to	7.7 km/h				
2RT-104	480/45Q-17.0	1.5 to	7.9 km/h				
	500/50Q-17.0	1.5 to	8.0 km/h				
2RTS-118	500/50Q-17.0	2.9 to	4.0 km/h				

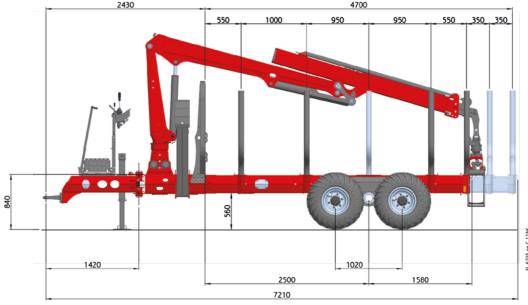
C Series Technical Data			C 12AK
tyre size		400/60-15.5"	
permitted total weight at 10 km/h on non-public roads	[tonnes]	13	15
permitted total weight at 25 km/h implementation	[tonnes]	11	13
permitted total weight at 40 km/h implementation	[tonnes]	10	12
load space	[m²]	2.1	2.4
slew angle of the swing axle	[°]	+/-	12
unladen weight with standard tyres*	[kg]	2150	2250
suitable for the following forestry crane models			42 - 62
* -	- 0.1		

^{*} additional weight: 4TB-2RT-100: 60 kg • 4TB opt. tyres: 150 kg

DLB: 100 kg • own oil supply: 200 kg







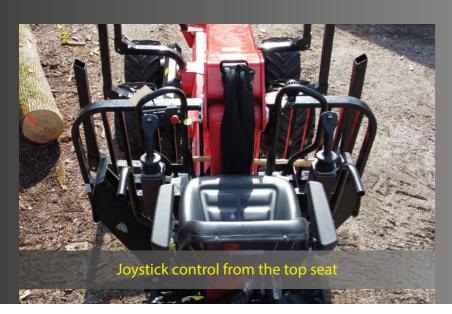
FORESTRY TRAILERS M SERIES 14 & 16 TONNES

The new M Series is designed for even more powerful cranes and has greater load capacity than all previous forestry trailers from STEPA.

The frame can be mechanically pulled out by +700mm and the patented slewing drawbar with a slewing range of +/-40° comes as standard, as does the high-quality KTL priming and powder coating of the base frame.

An appropriately sized branch skip or round bale attachment can also be ordered as an option.

NOW NEW: Customers looking for their trailer in this class generally also have higher demands when it comes to ease of use. Now there is the 2-joystick combination (tractor cab & top seat) or radio joystick combination.

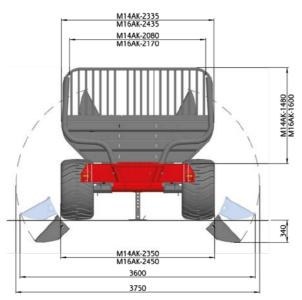


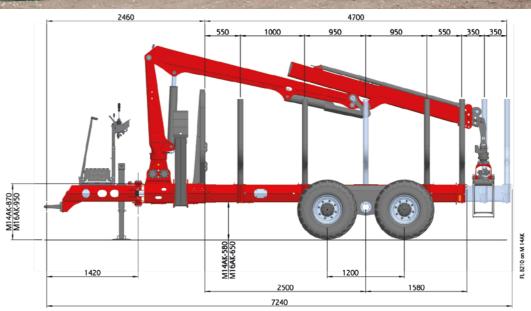


	Tyre sizes	Drive force at 250 bar	Drive speed at 2x40l/min
	500/50Q-17.0	2.9 to	4.0 km/h
2RTS -118	500/45Q-22.5	2.5 to	4.7 km/h
	550/45Q-22.5	2.4 to	4.8 km/h

M Series Technical Data	M 14AK	M 16AK	
tyre size		500/50 - 17"	550/45-22.5"
permitted total weight at 10 km/h on non-public roads	[tonnes]	17	19
permitted total weight at 25 km/h implementation	[tonnes]	15	17
permitted total weight at 40 km/h implementation	[tonnes]	14	16
load space	[m²]	2.6	3.0
slew angle of the swing axle	[°]	+/-	12
unladen weight with standard tyres*	[kg]	2470	2750
suitable for the following forestry crane models		FL+FZ1 + all E	

^{*} additional weight: 4TB-2RT-118: 100 kg • DLB: 100 kg • own oil supply: 200 kg





FORESTRY TRAILERS M-SERIES ADJUSTABLE AXLE

STEPA's M-Series (M14 and M16) is also available with an hydraulically adjustable axle that can be easily moved back 520 mm and a mechanical rear extension of + 900 mm.

A twin stanchion above the axle provides for even more stability and flexibility. The adjustable variant of the M-Series thus makes the carrying of logs much easier.



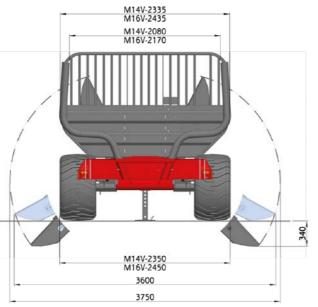
Twin stanchion above the axle

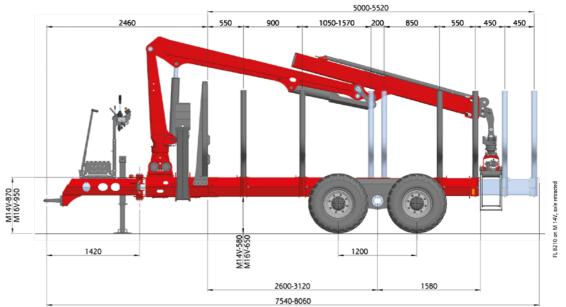


	Tyre sizes	Drive force at 250 bar	Drive speed at 2x40l/min
	500/50Q-17.0	2.9 to	4.0 km/h
2RTS -118	500/45Q-22.5	2.5 to	4.7 km/h
	550/45Q-22.5	2.4 to	4.8 km/h

M Series Technical Data		M 14 V	M 16 V
tyre size		500/50 - 17"	550/45-22.5"
permitted total weight at 10 km/h on non-public roads	[tonnes]	17	19
permitted total weight at 25 km/h implementation	[tonnes]	15	17
permitted total weight at 40 km/h implementation	[tonnes]	14	16
load space	[m²]	2.6	3.0
slew angle of the swing axle	slew angle of the swing axle [°]		12
unladen weight with standard tyres*	[kg]	2800	3100
suitable for the following forestry crane models		FL+FZ1 + all E	from 52 psilon

^{*} additional weight: 4TB-2RT-118: 100 kg • DLB: 100 kg • own oil supply: 200 kg





L-CRANE 7.5 & 8.2 M REACH

Compact, agile and made of high-strength S700 fine-grained steel - those are among the features of these short crane models with 7.5m & 8.2m reach.

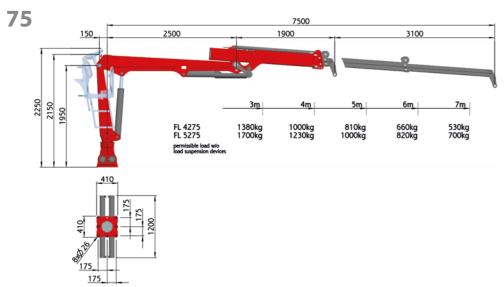
Thanks to the knuckle boom mounted toward the rear combined with a double telescopic boom, the crane in its retracted state is very short and thus more agile in the forest.

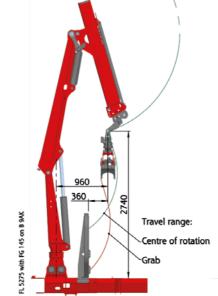
TIP: The maximum lifting power in this boom position can be seen from the picture below. More power thanks to the better geometry.

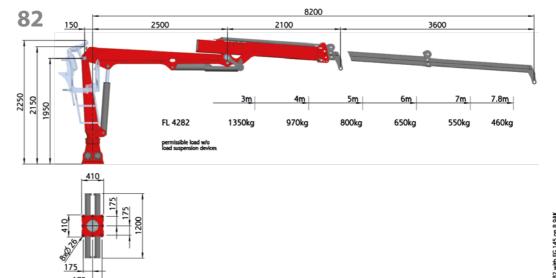
FL Technical Data		4275	5275	4282
lifting torque, net	[kNm]	41	52	40
slewing torque, net	[kNm]	13	16	13
slewing range	[°]		340	
weight with 8-fold slider w/o grabber	[kg]	750	770	800
maximum operating pressure	[bar]	190	225	190
pump flow rate, recommended.	[l/min]	1x45 / 2x30		
recommended timber grabber			FG 145	

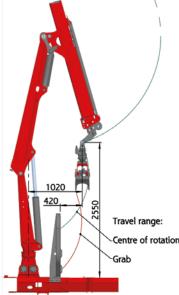












L-CRANE 8.5 & 9.5 M REACH

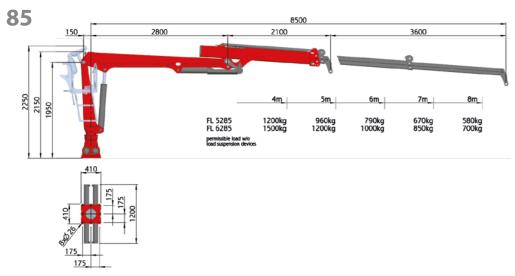
The innovative double telescope system sees all hoses protected all the way to the grab by being fitted inside the boom system. The risk of the hoses being damaged by branches is thus minimised. Nevertheless, should it be necessary a defect hose can be easily replaced.

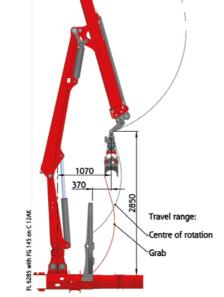
TIP: A double telescope system is appreciably quicker than a single telescope system. Anyone wanting to load quickly exploits this advantage for every work movement.

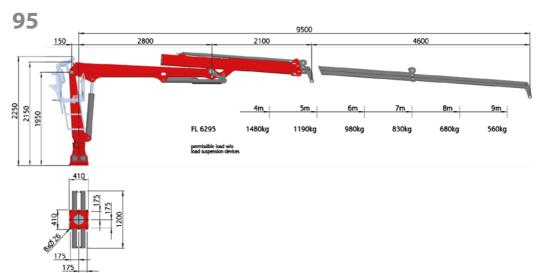
FL Technical Data		5285	6285	6295
lifting torque, net	[kNm]	50	62	61
slewing torque, net	[kNm]	16		
slewing range	[°]	340		
weight with 8-fold slider w/o grabber	[kg]	920	940	1000
maximum operating pressure	[bar]	225 220		
pump flow rate, recommended	[l/min]	1x45 / 2x30 1x55 / 2x35		
recommended timber grabber FG 145		145	FG 160	

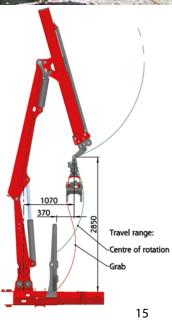












L-CRANE 9.0 & 10.0 M REACH

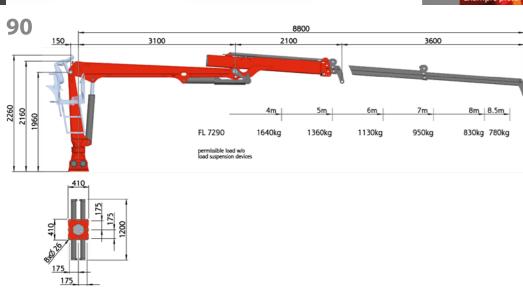
This elite crane from STEPA has a reach of up to 10 metres. On steep slopes in particular cranes with a long reach are a key advantage whenever there are places where it is impossible to pull the tree trunks up to the forestry track and if when being cut to length the trunks do not all have to be pulled up really close.

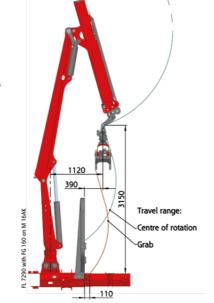
TIP: A longer crane is also able to stack up higher piles of fuel wood, thus saving not only time but space as well.

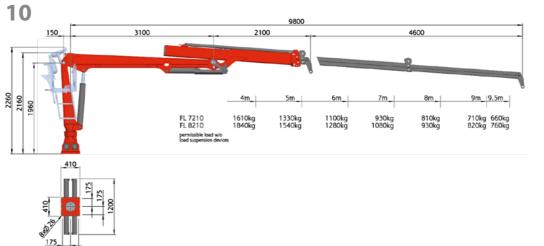
FL Technical Data		7290	7210	8210
lifting torque, net	[kNm]	70	78	
slewing torque, net	[kNm]	1	20	
slewing range	[°]	340		
weight with 8-fold slider w/o grabber	[kg]	1100	1200	
maximum operating pressure	[bar]	205 230		
pump flow rate, recommended	[l/min]	1x70 / 2x45		
recommended timber grabber		FG 160		

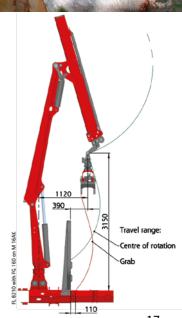












L-CRANE 11.0 M REACH

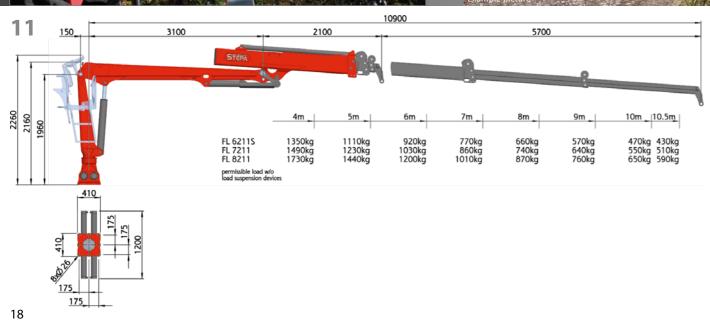
The longest crane on the forestry trailer market has a length of 11m and is equipped with a new, cleverly devised three-part telescopic system. Features of this new premium model include protected hoses all the way to the top of the grabber, compact design, unbeatable reach and excellent hook height.

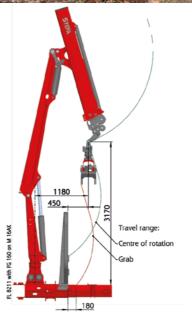
Tip: The higher the hook height when total length is compact, the less power the crane loses before it's lifted the load over the stakes. Strong not only on the ground, but above all over the stakes.

FL Technical Data		62115	7211	8211
lifting torque, net	[kNm]	56	62	72
slewing torque, net	[kNm]	20	18	20
slewing range	[°]		340	
weight with 8-fold slider w/o grabber	[kg]	1300	1320	1340
maximum operationg pressure	[bar]	230	205	230
pump flow rate, recommended	[l/min]	1x55 / 2x35 1x70 / 2x45		2x45
recommended timber grabber		FG 160		











Z-CRANE 8.0 M REACH

Every STEPA Z-crane is fitted with a linkage lever on the main boom. This gives Z-cranes better progression of lifting force in the important upper working range.

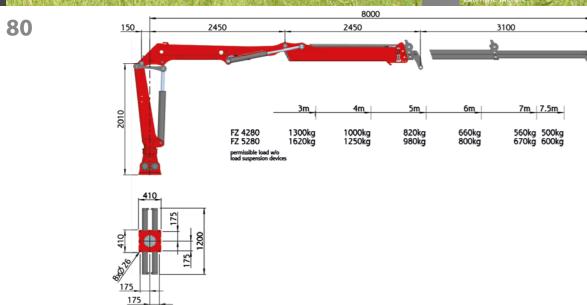
Another advantage is that the crane can be folded up. As a result, the trailer's centre of gravity can be optimised as required, whether laden or unladen.

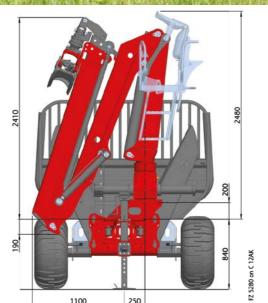
TIP: More weight on the drawbar means greater tractor traction. Uphill slopes can thus be managed better.

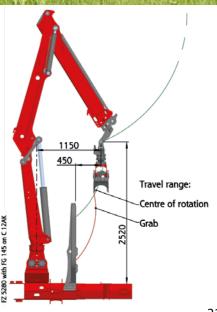
FZ Technical Data			5280
lifting torque, net	[kNm]	41	51
slewing torque, net	[kNm]	13	16
slewing range	[°]	34	10
weight with 8-fold slider w/o grabber	[kg]	980	990
maximum operating pressure	[bar]	185	220
pump flow rate, recommended	[l/min]	1x45	/ 2x30
recommended timber grabber		FG	145











Z-CRANE 9.0 M REACH

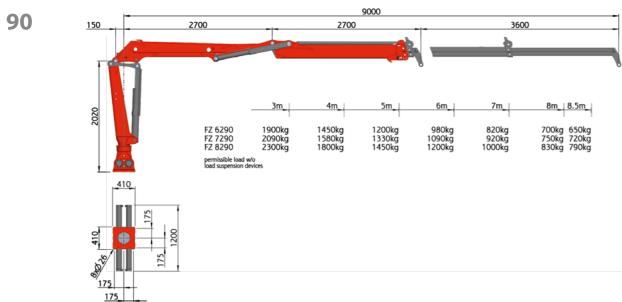
STEPA's patented knuckle system enables Z-cranes to have up to one metre longer reach than all rival models of the same length. This technical advantage was made possible by our crane construction know-how and our endeavour to always be able to offer customers an even better solution.

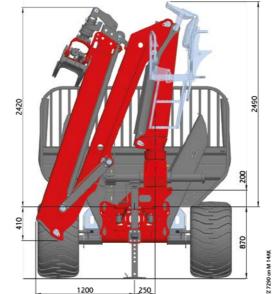
TIP: A Z-crane lifts heavier loads over the stakes than an L-crane with the same net lifting torque. Yet it compares favourably with L-cranes on price. It's worth making the comparison!

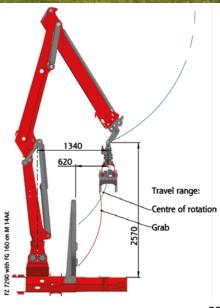
FZ Technical Data		6290	7290	8290
lifting torque, net	[kNm]	61	67	75
slewing torque, net	[kNm]	16	22	24
slewing range	[°]		340	
weight with 8-fold slider w/o grabber	[kg]	1070	1140	1150
maximum operating pressure	[bar]	220	240	260
pump flow rate, recommended	[l/min]	1x55	/ 2x40	1x70 / 2x45
recommended timber grabber			FG 160	











TRACTOR CRANE

Z-CRANE 8.0 M REACH

The compact Z tractor crane can be easily folded up within the vehicle's width. Its own low weight is very important in particular for small tractors.

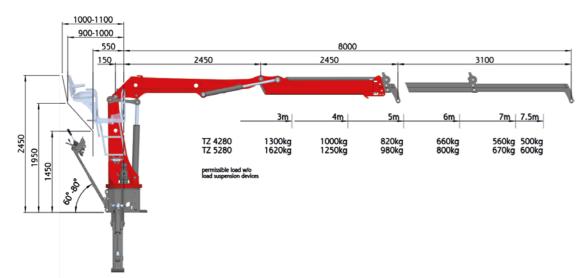
TIP: On request, STEPA can supply the right, perfectly fitting attachments along with the tractor.

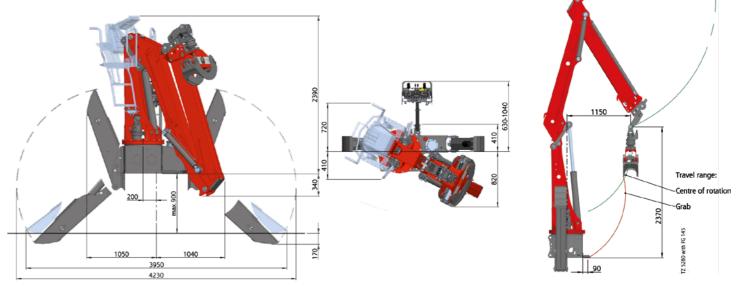
TZ Technical Data		4280	5280
lifting torque, net	[kNm]	41	51
slewing torque, net	[kNm]	13	16
slewing range	[°]	33	30
weight with 8-fold slider w/o grabber	[kg]	1300	1480
maximum operating pressure	[bar]	185	220
pump flow rate, recommended.	[l/min]	1x45 /	2x30
recommended timber grabber	FG	145	
recommended net tractor weight	3800	4000	

80









25

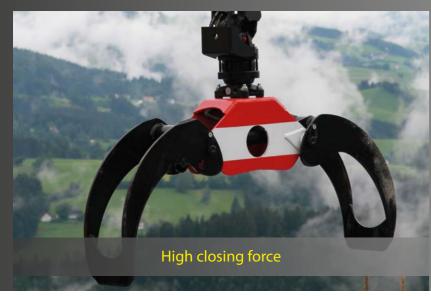
TRACTOR CRANE

Z-CRANE 9.0 M REACH

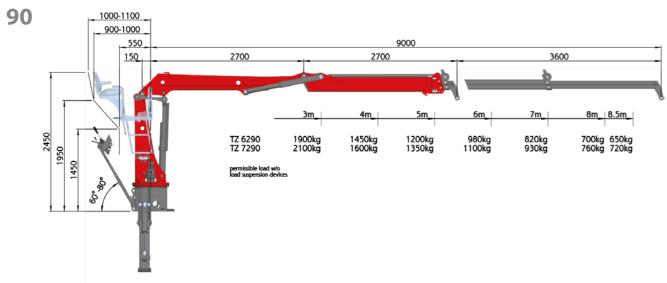
The larger tractor cranes with a reach of 9.0 metres are available in two different lift classes - with 6.2 or 7.2 metres/tonne of lifting torque. The lifting & knuckle cylinder protection included as standard on the largest tractor crane prevents any damage to the piston rods.

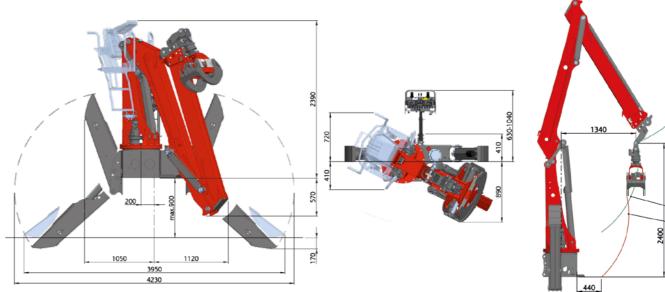
TIP: Every tractor crane can also be mounted on other trailers. Your dealer can provide further details.

TZ Technical Data		6290	7290
lifting torque, net	[kNm]	61	68
slewing torque, net	1	16	
slewing range	3	30	
weight with 8-fold slider w/o grabber	[kg]	1600	1620
maximum operating pressure	[bar]	220	240
pump flow rate, recommended.	1x55	/ 2x40	
recommended timber grabber	FG 160	FG 160S	
recommended net tractor weight		4500	5500









27

PALFINGER EPSILON OFF-ROAD / C-CLASS AT STEPA

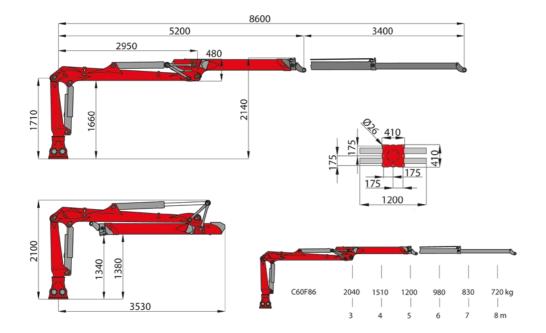
With the STEPA M16, global market leader EPSILON from the professional forestry segment, a sister company of STEINDL-PALFINGER, combines forestry trailer and radio remote control.

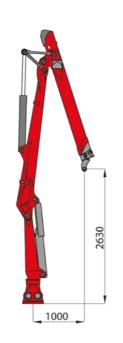
NOTE: At the Elsbethen site alone near Salzburg around 5,000 cranes are made annually for the forestry and recycling sector. This know-how is reflected in the many detailed solutions provided by STEPA and PALFINGER-EPSILON.

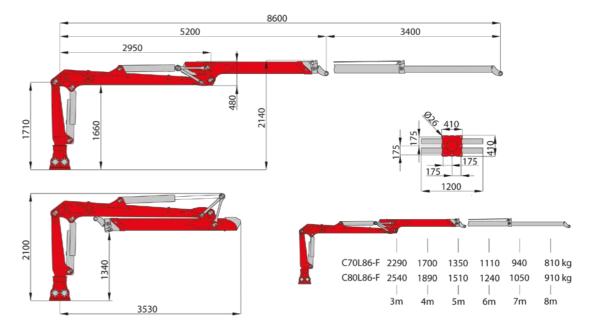
CF Technical Data		C60F86	C70F86	C80F86	
lifting torque, net	[kNm]	61	71	81	
slewing torque, net	[kNm]	20	22	24	
slewing range	[°] 335				
weight w/o pin-joint / rotator	[kg]	1140	1160	1160	
maximum operating pressure	[bar]	200	220	240	
pump flow rate,	1K [l/min]	1 x 70 1 x 80			
recommended	2K [l/min]	2 x 45			
recommended timber grab	FG 27				

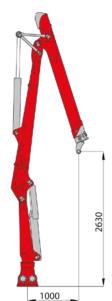


C60F C70F/ C80F









PALFINGER EPSILON ON-ROAD / C-CLASS AT STEPA

From the PALFINGER EPSILON On-Road series cranes that can be mounted onto STEPA's M series of forestry trailers include the Z-cranes.

TIP: Exclusively available from STEPA are PALFINGER-EPSILON Z-cranes that also have flap-down stabilisation already integrated in the forestry trailer.

	89	73
Α	8915	7250
В	5515	5400
С	3400	1850
D	2810	2810
E	1300	1230
F	2940	3030

CZ Technical Data	C70Z73	C70Z89	C80Z73	C80Z89		
lifting torque, net	[kNm]	68	66	76	74	
slewing torque, net	[kNm]	18 20			0	
slewing range	[°]	335				
weight with 8-fold slider w/o grab	[kg]	1540 1620		1560	1640	
maximum operating pressure	[bar]	r] 220 24		10		
	1K [l/min]	1x 70				
pump flow rate, recommended 2K [l.		2x 45				
recommended timber grab		FG 27				

C70Z/C80Z 2280 1700 1350 1110 930 kg 2520 1890 1500 1240 1040 kg

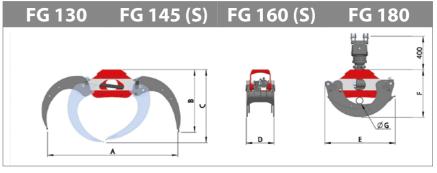
GRABBERS

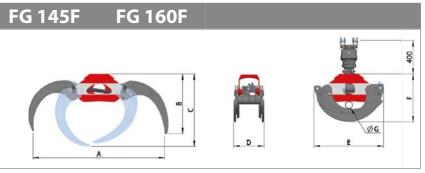
FOR REALLY GETTING TO GRIPS

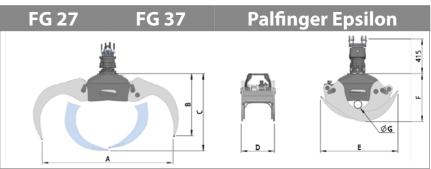
STEPA offers a multitude of timber grabber types for forestry management use.

Beginning with an opening width of 1.33m and going all the way up to 1.80m. For some grabber types there are also strengthened versions and finger grabbers.

TIP: STEPA timber grabbers have a high closing force. So that the tree trunks and branches cannot easily slip out.







	A	В	С	D	E	F	G
Type				[mm]			
FG 130	1330	685	795	266	755	525	80
FG 145	1450	695	815	266	760	510	90
FG 145F	1450	670	800	296	760	510	90
FG 145S	1450	695	815	270	760	510	90
FG 160	1600	770	905	336	865	555	110
FG 160F	1600	730	890	366	835	555	110
FG 160S	1600	770	905	342	865	555	110
FG 180	1800	670	930	342	885	570	105
FG 27	1480	760	860	440	820	540	100
FG 37	1570	800	920	440	930	570	100



Grabber		FG130	FG145	FG145F	FG145S	FG160	FG160F	FG160S	FG180	FG 27	FG 37
cross-section	[m²]	0,22	0,25	0,25	0,25	0,30	0,30	0,30	0,32	0,26	0,36
closing force at 200 bar	[kN]	8,6	9,9	9,9	9,9	12,7	12,7	12,7	11,8	14,1	13,1
weight	[kg]	95	100	125	105	130	160	145	150	170	180
maximum load	[kg]	2500	2500	2500	2500	3000	3000	3000	3000	4000	4000

Rotator		GR 463	GR 55	GV6-RF	
slewing range		endless	endless	endless	FG
swing torque at 200 bar	[kNm]	0,9	1,05	1,9	NUMBER STEPA
weight	[kg]	30	35	45	NUMBER EPSILON
maximum load	[kg]	4500	5500	6000	F
		series	optional	series	S

	Legend
FG	forestry grabber
NUMBER STEPA	opening width
NUMBER EPSILON	cross-section
F	finger grabber
S	for heavy use

LOG SPLITTERS

QUICK & SAFE

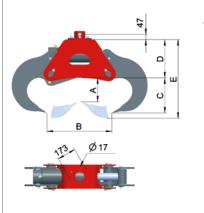
The combination of grab and log splitter is the ideal solution for splitting knotty and gnarled trunks.

The log splitter is fed using the crane.
After it has been split the timber can
be sorted, stacked or immediately
loaded.

TIP: Visit our YouTube channel and see for yourself how quickly the work is done using our two-grab system.

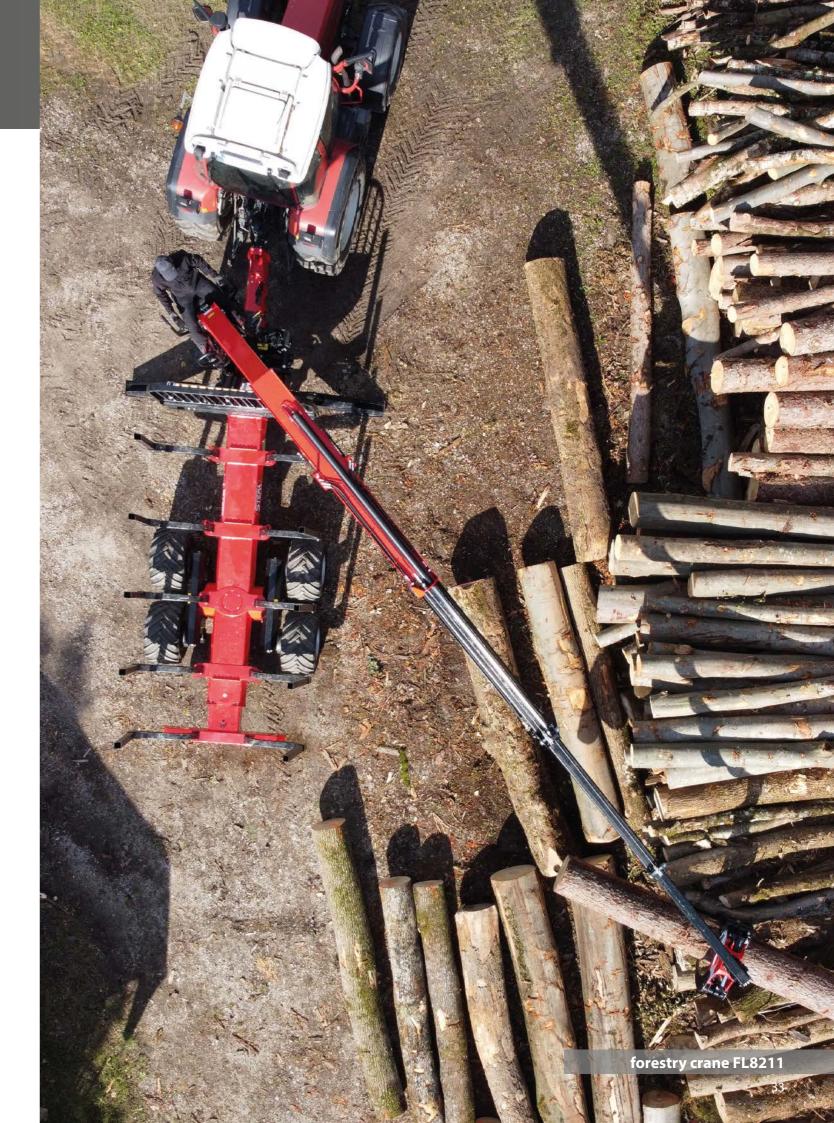
Log splitter SPZ		20	24
splitting force at	190 bar	15.5 to	18.5 to
	220 bar	18.0 to	21.5 to
	250 bar	20.0 to	24.5 to
press force at	190 bar	336.0 kN	431.5 kN
	220 bar	389.5 kN	499.5 kN
	250 bar	442.0 kN	567.5 kN
recommended power density	[l/min]	50	60
maximum operating pressure	[bar]	250	
dead weight	[kg]	285	395





Type	SPZ 20	SPZ 24
Α	315	420
В	800	950
С	410	490
D	395	435
E	865	1015
F	215	240
G	240	265





EQUIPMENT

PATENTED SLEWING DRAWBAR

C C

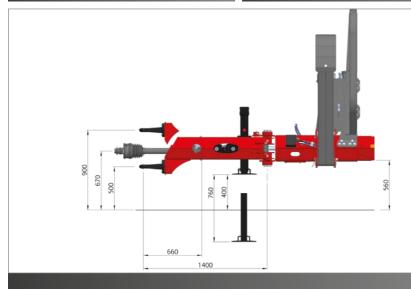
Pump well protected in the drawbar



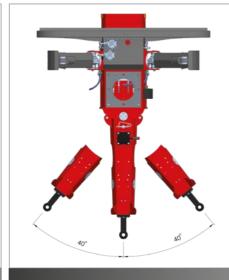
Two-stage hand crank jack



Hydraulic jack



Top and bottom hitch can also be retrospectively rotated



+/- 40 degrees slewing range



Joystick control times TWO

Easily and flexibly - With the new fully electric joystick control system the forestry crane can be operated from the top seat or driver's cab.

EQUIPMENT CONTROL MODES



Standard ON-OFF one or twocircuit control system



Rotary level two-circuit control system



Joystick hydraulic/electric two-circuit control system



Drawbar seat two-circuit control system



Top seat two-circuit control system



Radio remote control Joystick top seat



Safe access up to the standing platform



Top seat with electric additional function

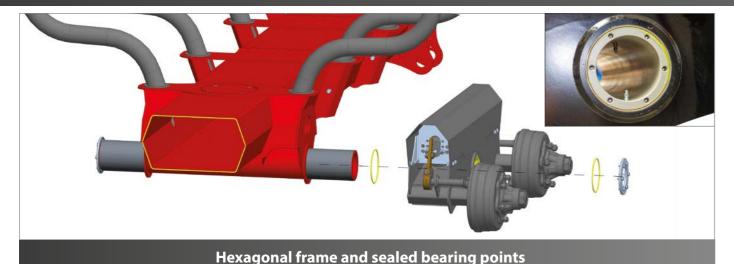


Plug-in couplings for an add-on function

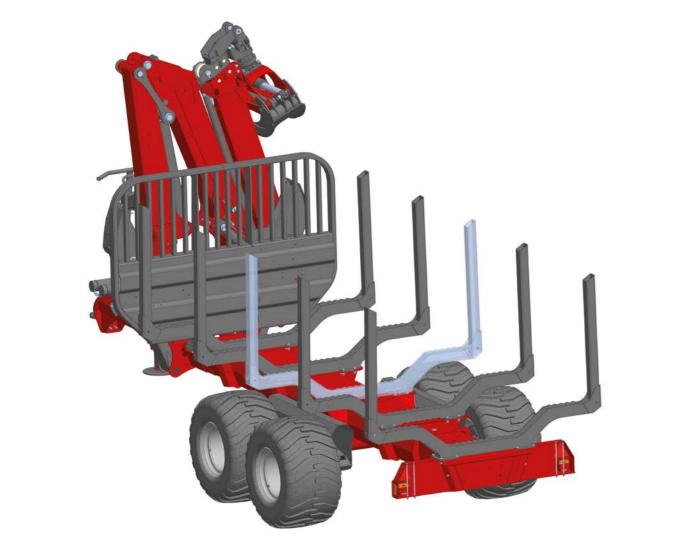
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SAFETY AND EASE OF USE

FOR DRIVER AND MACHINE



Sealed bearing points on the bogie axle and the slewing drawbar ensure even greater ease of use. Two lubricating nipples at the points put under greatest strain increase the bearing points' life.



Forwarder stake bench optional for C- and M-Series available

SAFETY AND EASE OF USE FOR DRIVER AND MACHINE



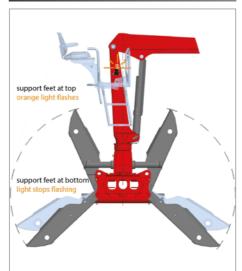




always in view



Protected and covered hose runs



Stabilisation reminder system for more safety



Knuckle cylinder protection on Z- and L-crane



Chain saw bracket cannister bracket



Immobilisation brake with hydraulic 25 km/h brake system



Digital operating hours counter



Vibration meter optional

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EQUIPMENT STARLE & PROTECTED

STABLE & PROTECTED





optimum ground adaption

Pendulum brake single-acting

4-wheel braking as standard

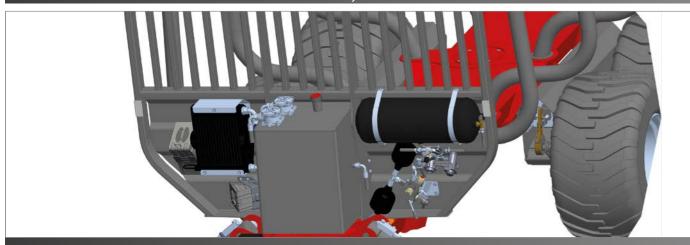
minimal space needed





Brake system & auxiliary drive

A hydraulic, pneumatic or combined brake system can be supplied, as required. The use of a hydraulic auxiliary drive system from Black Bruin makes it possible to master even difficult stretches of terrain. At STEPA every auxiliary drive is equipped with an automatic safety shut-off function.



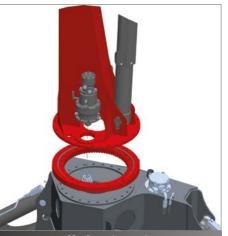
Front grille providing top protection

The brake system, oil cooler and chocks are easily accessible, yet very well protected.

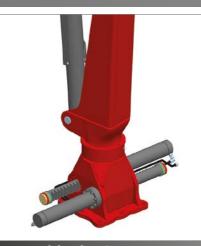
EQUIPMENT STEPA HIGHLIGHTS



Logging winch (optional) 7mm-thick and 40m-long cable with tensile force of 1.5 t



Ball slewing ring
Tractor cranes have a crane column with
a hardened ball rim bearing and slew
transmission inclusive of brake.



Double slewing systemDouble slewing system in an oil bath,
two robust round gear racks & end position damping



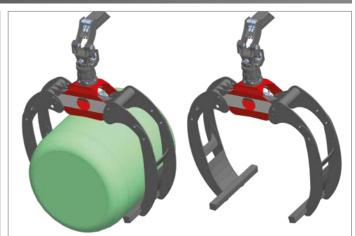


Enormous lifting power

The linkage lever between crane column and lifting boom enables the STEPA Z-crane to lift up to 60 percent more in the upper working positions, over the stakes and at close quarters than a forestry crane without a linkage lever.



Silo bale attachmentopening width with SBAR for timber grabber
FG 160 = 1360 mm or FG 180 = 1560 mm



Ideal for transporting straw and silo bales

THE PERFECT PARTNER FOR FORESTRY MANAGEMENT





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