

SKIDDER

OVERVIEW

BENEFITS

- Large ground clearance
- Narrow vehicle in spite of wide tyres
- Central twist with locking released cylinders
- Ergonomic and well arranged workplace (Air condition is standard)
- Endlessly swivelling driver's seat
- Optimum accessibility for maintenance and repair



THE NEW CABINS

WORK EFFICIENTLY AND COMFORTABLY



ERGONOMIC PANORAMIC CABIN | Our spacious ROPS/FOPS-certified RITTER cabin can be tilted to both sides, allowing a perfect access for service and maintenance. The standard comfort equipment provides a pleasant working environment: a big touch display for various driver and machine information, a foldable steering wheel with a tilted forward steering column, two refrigerated storage compartments integrated in the dashboard and much more. Various operating functions are integrated in the ergonomic seat, rotatable in all directions at a touch of a button. The climate control always provides a pleasant indoor climate to cope with long working days as fatigue-free and stress-free as possible.

Soundproof and vibration damped spacious cabin with security glazing and climate control for fatigue-free work

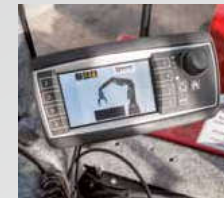


Infinitely and stepless rotatable comfort seat with ergonomically adjustable Command-armrests and integrated touch display



Perfect all-round visibility and control via camera system for optimally monitoring the working area

Crane terminal for a perfect coordination of crane functions for different drivers and application areas



All information at a glance. Operating the machine easily and comfortably via touch display.



Automatic climbing assistance through electrohydraulic foldable stepladder (optional)

Foldable steering wheel for optimal utilization of the interior space in operational use



Spacious cabin with panoramic view enable a perfect view on the working area

SKIDDER R 185

AN ABSOLUTE PROFESSIONAL | The R 185 (articulated) has been engineered specially for professional use and designed for performance and ruggedness. The comfortable cabin is fitted with rubber dampers that reduce noise and vibrations and thus relieve the driver. The endlessly swivelling driver's seat allows permanently optimum and ergonomic working. Powerful skidding cranes in combination with three different cable velocities of the RITTER S 66-DS winches make the entire unit to an economical efficient machine for forestry work. Thanks to additional built-on devices such as the clamping bench (foldable), the performance increases once again. The vehicle is filled with biodegradable oil as standard.

BENEFITS

- Winch with 2 x 100 kN traction capacity and three velocities
- Hydraulically foldable clamping bench
- Optimum accessibility for maintenance and repair
- Ergonomic workplace with endlessly swivelling driver's seat
- Soil protecting thanks to optimum weight distribution
- Large ground clearance in spite of low crane bracket
- Optimum oil management



The 185 4-wheel Skidder have a hydraulically foldable clamping bench

SKIDDER R 185-6

TALENT FOR COMBINATION IN EVERY SITUATION | The innovative R 185-6 is the ideal multi-purpose machine for the skidding of short and long logs. The modular constructed tractor can be equipped or converted for the most varied jobs within a very short time. You will thus have the suitable loading capacity – without having to get off the vehicle – each kit is easy to adjust without using any tool. The R 185-6 is the uncompromising bigger version of the very successful R 185-4 wheel skidder. The spacious soundproof cabin ensures an outstanding all-around view. Thanks to perfect oil management optional equipment such as harvester head, branch cutter, mulch head, etc. are easy to add without any difficulty. Due to its final velocity of 38 km/h and its economical common-rail diesel engines, the skidder reaches any place of operation within a short time at very low cost.



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Telescopic log cradle 0.8 m



Hydraulic uplift wheel rocker

SKIDDER R 185 - TECHNICAL DATA AND INFORMATION

	SKIDDER R 185 (4-WHEEL)	SKIDDER R 185-S (4-WHEEL)	SKIDDER R 185-6 (6-WHEEL)	SKIDDER R 185-6K (6-WHEEL)
Engine	6-cylinder Iveco Common Rail Turbo diesel, TIER 4i direct injection, engine power 138 kW (188 HP), cubic capacity 6700 ccm. Maximum		torque 810 Nm at 1500 rpm	
Power transmission	Hydrostatic transmission, 1st gear 0-12 km/h, 2nd gear 0-38 km/h	Hydrostatic transmission, 1st gear 0-16 km/h, 2nd gear 0-38	km/h	
Axles	Axles NAF planetary rigid axles, differential lock 100 % selectable by electrohydraulic device			Front: NAF planetary rigid axles, differential lock 100 % selectable by electrohydraulic device Rear: NAF planetary tandem axles, differential lock 100 % selectable by electrohydraulic device
Brakes	Brakes Two-circuit braking system, multiple-disc brake in oil bath, parking brake as spring mechanism brake			
Tyres	Tyres 23.1-26 narrow gauge (vehicle width 2.55 m). Alternative: Tyres 28L-26 (vehicle width 2.74 m)			Front tyres 23.1-26, Rear tyres 600/50-22.5 (narrow gauge vehicle width 2.55 m). Alternative: Front tyres 28L-26, Rear tyres 710/40-22,5 (vehicle width 2.74 m)
Frame	Frame construction with central articulation, locking of twist through hydraulic cylinders, articulated frame steering +/- 45°, ground clearance approx.		600 mm	Frame construction with central articulation, locking of twist through hydraulic cylinders, articulated frame steering +/- 45°, ground clearance approx. 550 mm
Diesel tank/AdBlue	Capacity diesel approx. 180 l AdBlue 27 l, lockable	Capacity diesel approx. 210 l AdBlue 27 l, lockable		
Electric system	90 A generator, 24 V system voltage, lighting in conformity with StVZO, working lighting 8 x LED (standard), optional 12 x LED lighting		on top of the cabin	
Hydraulic system	Load sensing hydraulic pump with approx. 200 l/min and up to 350 bar, filling with biodegradable PANOLIN HLP Synth 46 oil with partial flow filter, optional approx. 300 l/min	Load sensing hydraulic pump with approx. 300 l/min and up to	350 bar, filling with biodegradable PANOLIN HLP Synth 46 oil with partial flow filter	
Cabin	Spacious soundproof driver's cabin, ROPS/FOPS/OPS tested safety cabin with all-round glazing, cabin tilting to both sides, Special silentblocs,		silenced, Lexan windows, air conditioning, re-extinguisher, audio system, windscreen wiper and washer, magnetic rotating beacon	
Driver's seat	Comfortable swivel seat with pneumatic cushioning, electric endless rotation, adjustable speed and torque, pedal platform for inch and gas pedal, touch display		alternatively brake and gas pedal, foldable. Reverse drive functions: forward and backward motion in the rear, electric driving functions in the armrest with integrated	
Colour	Engine bonnet, cabin and crane in RAL3002 (crimson) chassis and shell in RAL9011 (graphite black), rims in RAL9006 (white aluminium)			
Winch	RITTER double drum winch S 66-D, maximum traction capacity 2 x 80 kN, simultaneously, cable capacity 110 m steel cable 13 mm Alternative: 2 x 100 kN, simultaneously, cable capacity 100 m steel cable 14 mm spur gear system for optimized efficiency 3-stage hydraulic drive: 1. step: F = 2 x 100 kN, v = 0.34 m/s = rear built-in with 540 1/min PTO shaft 2. step: F = 2 x 75 kN, v = 0.45 m/s, velocity for lowest cable position 3. step: F = 1 x 100 kN, v = 0.68 m/s = rear built-in with 1000 1/min PTO shaft Optional: proportional load lowering brake, optional tractive force adjustment	RITTER double drum winch S 66-D, max. traction capacity 2 x 80 kN, simultaneously, Alternative: Cable capacity 110 m steel cable 13 mm, hydrostatic drive cable speed continuously adjustable via radio control, average maximum speed under reduced tractive force approx. 2.0 m/s optional proportional load lowering brake, optional tractive optional double drum winch with 2 x 70 kN with constant	2 x 100 kN, through axial piston motor speed under maximum tractive force approx. 0.6m/s (36m/min), (120m/min), force adjustment, tractive force available	
Steel cable	2 x 110 m steel cable Ø 13 mm, compacted, calculated breaking load >= 160 kN. Alternative: (required in the BG-regulations for 100 kN)		2 x 100 m steel cable Ø 14 mm, compacted, calculated breaking load >= 200 kN	
Radio control	HBC radio control equipment, complete for double drum winch, receiver, transmitter on the belt, 2 rechargeable batteries, battery charger 10-30 V		or 230 V, continuous motor speed regulation, Start / Stop, cable speed adjustment, optionally with driving functions	
Skidding blade	with hydraulic lifting and pressure cylinder, incl. pulley rocker, (height-adjustable upon request), additional versions feasible upon request			
Front rumbling blade	with hydraulic lifting and pressure cylinder, integrated welded trailer coupling trough, integrated tool boxes on both sides			
Crane	Epsilon M 90 R 68, Epsilon M 90 R 72, Epsilon S 110 R 72	Epsilon S 110 R 72, Epsilon S 120 R 72, Epsilon S 120 R 80	Epsilon S 110 F 86, Epsilon S 110 F 101, Epsilon S 100 F 86, Epsilon S 100 F 101	
Grapple	Logging grapple FG 43S, Gripping width 1880mm		Logging grapple FG 43S, Gripping width 1880mm. Alternative: Logging grapple FG 57X, Gripping width 2010 mm, optional only for S100 crane types	

SKIDDER-ACCESSORIES

	R 185, R 185-S (4-WHEEL)	R 185-6, R 185-6K (6-WHEEL)
Constant traction	–	Winch with constant tractive force 2 x 70 kN
Clamping bench	Clamping bench at rope pulley rocker (foldable)	upon request in different sizes as quick-change system
Crane	Floating position crane, main boom und swivelling system	
Radio control	Driving forward/backward, Steering left/right, Skidding blade up/down, roller rocker up/down	Driving forward/backward, Steering left/right Skidding blade up/down
Auxiliary heating	Auxiliary heating for driver's cabin	
Cable ejector	Combination of cable ejector and cable feed brake	
Proportional load lowering brake	On the winch, including extension of radio control, per drum	
Tractive force	Manual adjustment/reduction of tractive force	

TÜV-Acceptance according to StVZO, Lighting according to StVZO

SKIDDER-CRANES

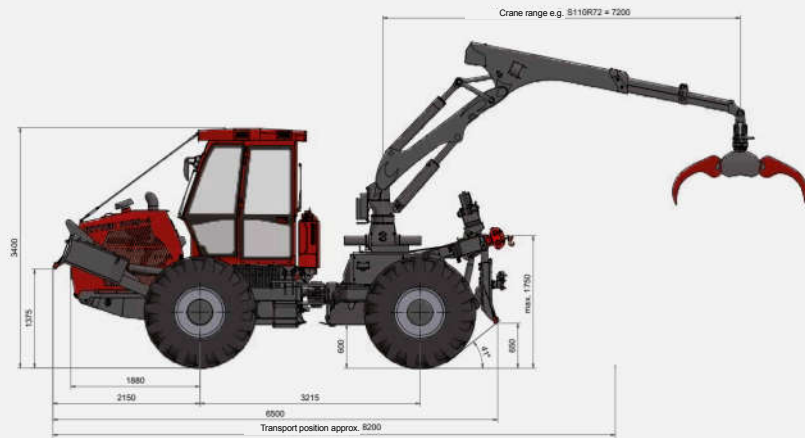
EPSILON	M 90 R 68	M 90 R 72	S 110 R 72	S 120 R 72	S 120 R 80	S 110 F 86	S 110 F 101	S 100 F 86	S 100 F 101
Lifting torque gross	104 kNm	104 kNm	126 kNm	139 kNm	139 kNm	128 kNm	128 kNm	128 kNm	128 kNm
Lifting torque net	82 kNm	82 kNm	102 kNm	114 kNm	108 kNm	90 kNm	86 kNm	90 kNm	86 kNm
Swivelling torque net	29 kNm	29 kNm	33 kNm	36 kNm	36 kNm	33 kNm	33 kNm	33 kNm	33 kNm
Working radius	6,8 m	7,2 m	7,2 m	7,2 m	8,0 m	8,6 m	10,1 m	8,6 m	10,1 m

Other types of crane upon request

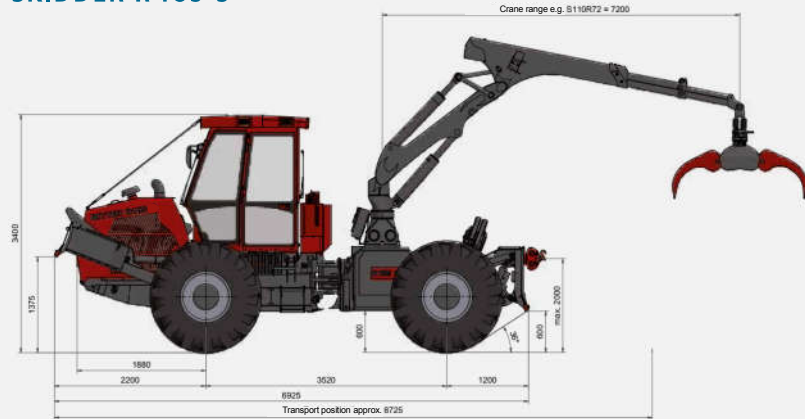
SKIDDER R 185

MEASUREMENTS AT A GLANCE

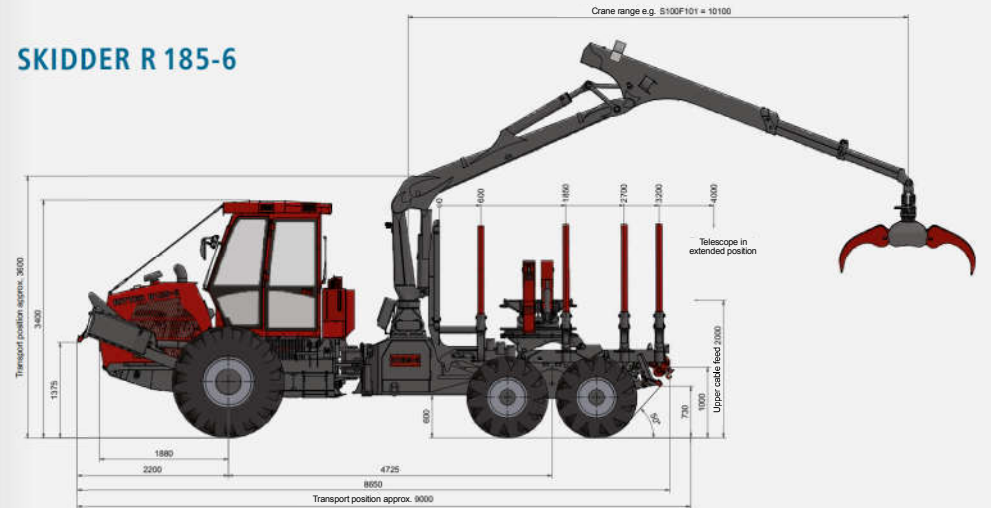
SKIDDER R 185



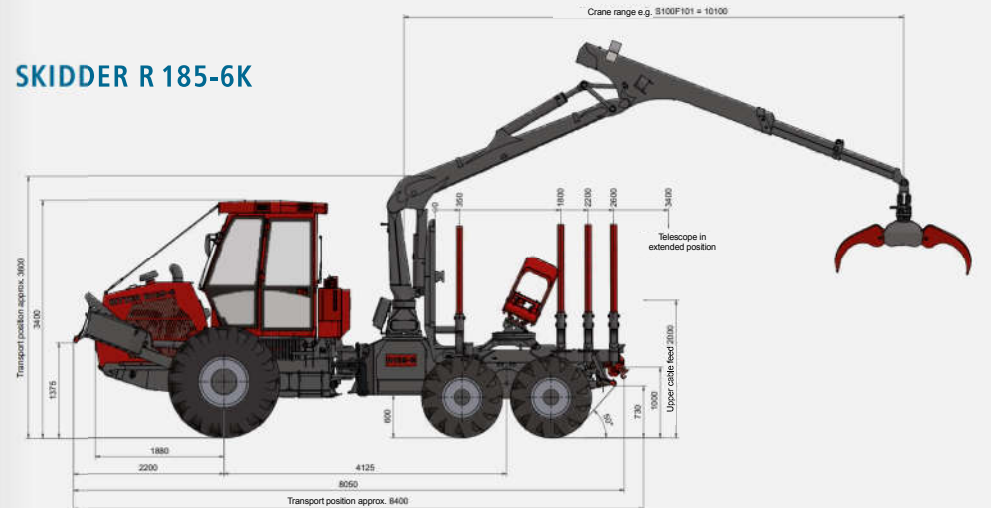
SKIDDER R 185-S



SKIDDER R 185-6



SKIDDER R 185-6K



OUR NEW R220 AS 6- AND 8-WHEEL MACHINE

THE ULTIMATE POWER PACK ON TERRAIN



Optional constant traction winch



Guard screen with stakes



Optional tilt for crane

SKIDDER R220 - TECHNICAL DATA AND INFORMATION

SKIDDER R 220-6K (6-WHEEL)

SKIDDER R 220-6 (6-WHEEL)

SKIDDER R220-8 (8-WHEEL)

Engine	6-cylinder Iveco Common Rail Turbo diesel, TIER 4i direct injection, engine power 160 kW (218 HP), cubic capacity 6700 ccm, Maximum torque 960 Nm at 1500 rpm	
Power transmission	Hydrostatic transmission b, 1st gear 0-12 km/h, 2nd gear 0-32 km/h	
Axles	Front: NAF planetary rigid axles, differential lock 100 % selectable by electrohydraulic device Rear: NAF planetary tandem axles, differential lock 100 % selectable by electrohydraulic device	Front: NAF planetary tandem axles, differential lock 100 % selectable by electrohydraulic device Rear: NAF planetary tandem axles, differential lock 100 % selectable by electrohydraulic device
Brakes	Brakes Two-circuit braking system, multiple-disc brake in oil bath, parking brake as spring mechanism brake	
Tyres	Front tyres 23.1-26, Rear tyres 600/50-22.5 (narrow gauge vehicle width 2.60 m) Alternative: Front tyres 28L-26, Rear tyres 710/45-26,5 (vehicle width 2.74 m)	Tyres 600/55-26,5 (narrow gauge vehicle width 2.60m) Alternative: Tyres 710/45-26,5 (vehicle width 2,74 m)
Frame	Frame construction with central articulation, locking of twist through hydraulic cylinders, articulated frame steering +/- 45°, ground clearance	approx. 600 mm
Diesel tank / AdBlue	Capacity diesel approx. 210 l AdBlue 27 l, lockable	
Electric system	90 A generator, 24 V system voltage, lighting in conformity with StVZO, working lighting 8 x LED (standard), optional 12 x LED lighting on	top of the cabin
Hydraulic system	Load sensing hydraulic pump with approx. 300 l/min and up to 350 bar, filling with biodegradable PANOLIN HLP Synth 46 oil with partial flow filter	
Cabin	Spacious soundproof driver's cabin, ROPS/FOPS/OPS tested safety cabin with all-round glazing, cabin tilting to both sides, Special silentblobs,	silenced, Lexan windows, air conditioning, re-extinguisher, audio system, windscreen wiper and washer, magnetic rotating beacon
Driver's seat	Comfortable swivel seat with pneumatic cushioning, electric endless rotation, adjustable speed and torque, pedal platform for inch and gas pedal, touch display	alternatively brake and gas pedal, foldable. Reverse drive functions: forward and backward motion in the rear, electric driving functions in the armrest with integrated
Colour	Engine bonnet, cabin and crane in RAL3002 (crimson) chassis and shell in RAL9011 (graphite black), rims in RAL9006 (white aluminium)	
Winch	RITTER double drum winch S 66-D, maximum traction capacity 2 x 80 kN, simultaneously, Alternative: 2 x 100 kN, Cable capacity 110 m steel cable 13 mm, hydrostatic drive through axial piston motor cable speed continuously adjustable via radio control, average speed under maximum tractive force approx. 0.6m/s (36m/min), maximum control panel fivefold, 5m cable, optional proportional load lowering brake, optional tractive force adjustment, optional double drum winch with 2 x 70 kN with constant tractive force available	speed under reduced tractive force approx. 2.0 m/s (120m/min),
Steel cable	2x 110 m steel cable Ø 13 mm, compacted, calculated breaking load >= 160 kN. Alternative: (required in the BG-regulations for 100 kN)	2 x 100 m steel cable Ø 14 mm, compacted, calculated breaking load >= 200 kN
Radio control	HBC radio control equipment, complete for double drum winch, receiver, transmitter on the belt, 2 rechargeable batteries, battery charger	10-30 V or 230 V, continuous motor speed regulation, Start / Stop, cable speed adjustment, optionally with driving functions
Skidding blade	with hydraulic lifting and pressure cylinder, additional versions feasible upon request	
Front rumbling blade	with hydraulic lifting and pressure cylinder, integrated welded trailer coupling trough, integrated tool boxes on both sides	
Crane	Epsilon X 120 F 86, Epsilon X 120 F 102, Epsilon X 140 F 86, Epsilon X 140 F 102, mesera 122 F 85i, mesera 122 F 100i, mesera 142	F 85i, mesera 142 F 100i
Grapple	Logging grapple FG 43S, Gripping width 1880mm. Alternative: Logging grapple FG 57X, Gripping width 2010 mm, optional only for S100	crane types

SKIDDER-ACCESSORIES

R 220-6K, R 220-6 (6-WHEEL), R 220-8 (8-WHEEL)

Constant traction	Winch with constant tractive force 2 x 70 kN
Clamping bench	upon request in different sizes as quick-change system
Crane	Floating position crane, main boom und swivelling system
Radio control	Driving forward/backward, Steering left/right, Skidding blade up/down
Auxiliary heating	Auxiliary heating for driver's cabin
Cable ejector	Combination of cable ejector and cable feed brake
Proportional load lowering brake	On the winch, including extension of radio control, per drum
Tractive force	Manual adjustment/reduction of tractive force

TÜV-Acceptance according to StVZO, Lighting according to StVZO

SKIDDER-CRANES

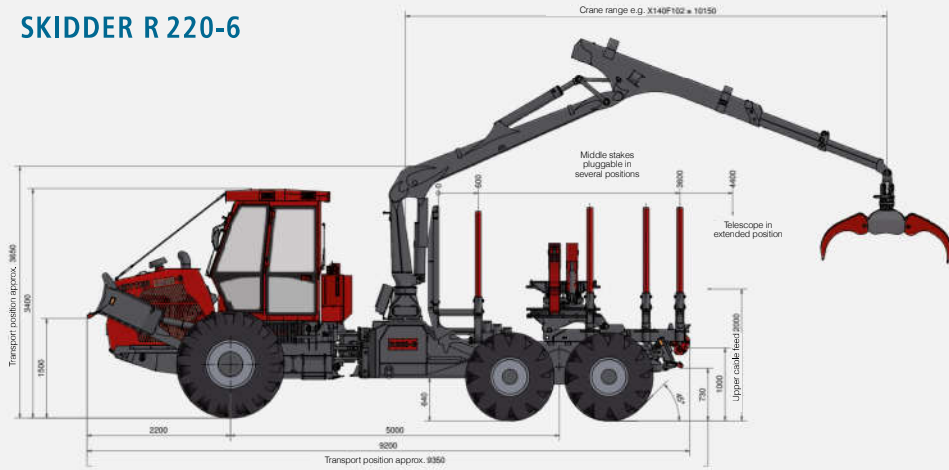
	EPSILON	X 120 F 86	X 120 F 102	X 140 F 86	X 140 F 102	mesera	122 F 85i	122 F 100i	142 F 85i	142 F 100i
Lifting torque gross		159 kNm	159 kNm	173 kNm	173 kNm		155 kNm	155 kNm	178 kNm	178 kNm
Lifting torque net		110 kNm	107 kNm	122 kNm	119 kNm		110 kNm	99 kNm	132 kNm	120 kNm
Swivelling torque net		40 kNm	40 kNm	43 kNm	43 kNm		44 kNm	44 kNm	48 kNm	48 kNm
Working radius		8,6 m	10,2 m	8,6 m	10,2 m		8,5 m	10,0 m	8,6 m	10,0 m

Other types of crane upon request

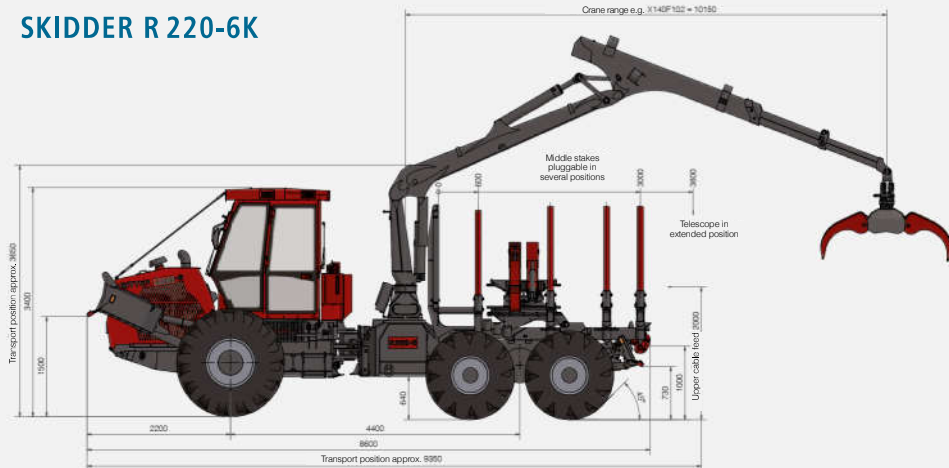
SKIDDER R220

MEASUREMENTS AT A GLANCE

SKIDDER R 220-6



SKIDDER R 220-6K



SKIDDER R 220-8

