

# Orion AR

## K105 | L80



	250/80R18	11.5/80-15.3	280/70R18	320/65R18	250/85R20	300/70R20
	with adjustable rim	with fixed rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim

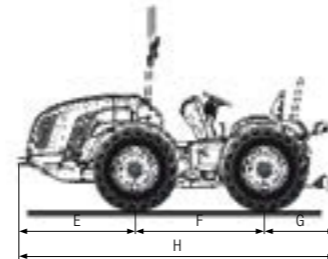
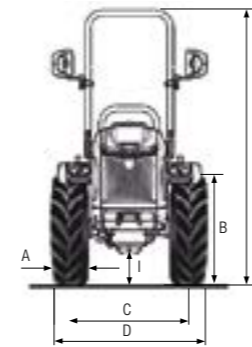
<b>A</b> Tyre width (mm)	240	290	282	320	245	286
<b>B</b> Tyre diameter (mm)	879	888	849	873	940	942
<b>C</b> Wheel track min/max (mm)	898/1112	948/972	1022/1112	1022/1112	882/1230	996/1260
<b>D</b> Width min/max (mm)	1138/1352	1238/1262	1304/1394	1342/1432	1127/1475	1282/1546



	320/70R20	340/65R20	31x15.50-15 XTC	31x15.50-15 STG	33x12.50-15 T413	13.6-16 Garden
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with fixed rim	with fixed rim

<b>A</b> Tyre width (mm)	316	343	368	394	325	391
<b>B</b> Tyre diameter (mm)	975	958	800	800	843	968
<b>C</b> Wheel track min/max (mm)	996/1260	996/1260	1016	1016	959/965	1240
<b>D</b> Width min/max (mm)	1312/1576	1339/1603	1384	1410	1284/1290	1631

Dimensions Orion K105   L80 AR (mm):							
E	F	G	H	I min/max	L min/max	M min/max	N min/max
1348	1495	932	3775	161/271	2254/2364	2070/2180	2139/2249



TECHNICAL FEATURES	Orion K105 AR	Orion L80 AR
<b>ENGINE</b>	Kubota V3800 CR-TE4	Kohler KDI 2504 TCR
Number of cylinders	4 in-line	4 in-line / 16 valves
Displacement (cm <sup>3</sup> )	3,769	2,482
Intake	Turbo	Turbo / Intercooler
Fuel system	Direct injection "Common rail"	Direct injection "Common rail" - 2000 bar
Emission level	Stage 3B	Stage 3B
Balancing	Counter-balance shafts	Counter-balance shafts
Power (kW/HP)	72.1 / 98	55.4 / 75.3
Rated speed (rpm)	2,400	2,300
Maximum torque (Nm/rpm)	330 / 1,500	300 / 1,500
Speed management	Electronically regulated with a console with functions: increase and decrease of engine speed, memorize and recall a particular speed or switch off the electronic throttle and go to the minimum idle speed	
Cooling	Liquid	
Tank capacity (lt)	54	
<b>CHASSIS</b>	Swinging integral chassis OS-FRAME with central articulation	
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control	
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser	
<b>POWER SHUTTLE EASYDRIVE® (optional)</b>	Electro-hydraulic power shuttle electronically actuated with the lever (with 3 position FWD-N-REV) installed on the left of steering wheel. Possibility to choose from 5 levels of reactivity	
Transmission clutch	Multidisc in oil bath electronically-managed and proportional hydraulic control with PRO-ACT System	
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control	
<b>AXLES</b>	Front and rear with epicyclic reduction units. Front axle, oscillating in the middle (approx. ±15°)	
<b>REAR PTO</b>	Independent from the gearbox and synchronized with forwarding speed. Engageable under load with brake in disengaged position	
PTO clutch	Multidisc in oil bath with electro-hydraulic control	
PTO rotation speed (rpm)	Standard: 540/540E - Optional: 540/1,000	
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger	
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33	
Flow rate to the lift and the control valves (lt/min)	30 (optional oversized pump with flow rate 49 lt/min)	
Maximum hydraulic pressure (bar)	180	
<b>REAR CONTROL VALVES</b>	Mechanical control	
Standard	2 double acting	
Optional and in addition to the standard ones	1 single acting and 1 double acting or 1 double acting and 1 double acting with float	
Joystick (optional)	With proportional electronic control of lifts and control valves consisting of: 1 single acting with adjustable flow and free return, 5 double acting (replacing the standard ones) and oversized pump 49 lt/min. Potentiometer to change the sensibility of the joystick	
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A	
Rear power outlets	7 pin and 3 pin	
<b>REAR LIFT</b>	Standard: by two external rams - Optional: position and draft control	
Three-point hitches	Standard: standard couplers cat. 1 and 2. Optional: quick couplings, L-shaped, cat. 1 and 2, arms with adjustable length and hooks with adjustable width	
Three-point tie bar	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm	
Ball joint lifting capacity (kg)	2,300	
<b>FRONT LIFT (optional)</b>	By two external rams with front protection and 2 double acting control valves with free return	
Three-point hitches	Rigid with quick couplings cat. 1	
Lifting capacity (kg)	800	
<b>DRIVING PLATFORM</b>	Reversible with platform suspended on silent block. Suspended pedals mounted on rotating control column	
Steering wheel	With adjustable inclination	
Seat	With gas spring for easy tipping, safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight - Optional: 'Kab Seating' or 'Grammer' pneumatic seat	
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive	
Parking brake	Automatic and independent Brake-Off acting as emergency brake with proportional action	
<b>STEERING</b>	Hydrostatic steering acting on central articulation. Flow deviator for steering unit	
<b>SAFETY</b>	Standard: front homologated roll-bar, with gas springs for an easy lowering and lifting	
<b>CABIN (optional)</b>	Homologated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. With ventilation, heating system and air conditioning. Available with standard or conical structure	
<b>INSTRUMENT PANEL</b>	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm
<b>TYRES (standard)</b>	250/80R18	
Optional	11.5/80-15.3 * 280/70R18 * 320/65R18 * 250/85R20 * 300/70R20 * 320/70R20 * 340/65R20 * 31x15.50-15 XTC o STG * 33x12.50-15 T413 * 13.6-16 Garden	
<b>TOW HOOKS (standard)</b>	Rear CUNA and front	
Optional	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)	
<b>WEIGHT in order of speed</b>		
With roll-bar (kg)	2,300	2,230
With cabin (kg)	2,445	2,375
<b>OPTIONAL</b>	Front bumper, Beacon lamp, Front weight, Weights for wheels, Active carbon filter for cabin	

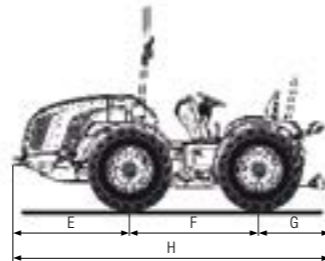
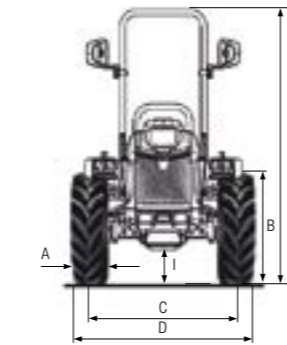
# Orion RS

## K105 | L80

	340/65R18	280/70R18	320/65R18	250/85R20	300/70R20
	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim
<b>A</b> Tyre width (mm)	343	282	320	245	286
<b>B</b> Tyre diameter (mm)	899	849	873	940	942
<b>C</b> Wheel track min/max (mm)	1098/1538	1098/1538	1098/1538	1046/1588	1134/1618
<b>D</b> Width min/max (mm)	1441/1881	1380/1820	1441/1881	1291/1833	1420/1904

	320/70R20	340/65R20	31x15.50-15 XTC	31x15.50-15 STG	13.6-16 Garden
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with fixed rim
<b>A</b> Tyre width (mm)	316	343	368	394	391
<b>B</b> Tyre diameter (mm)	975	958	800	800	968
<b>C</b> Wheel track min/max (mm)	1134/1618	1134/1618	1260/1374	1260/1374	1240/1400
<b>D</b> Width min/max (mm)	1450/1934	1477/1961	1628/1742	1654/1768	1631/1791

Dimensions Orion K105   L80 RS (mm):							
E	F	G	H	I min/max	L min/max	M min/max	N min/max
1348	1495	932	3775	184/294	2254/2364	2070/2180	2139/2249



TECHNICAL FEATURES	Orion K105 RS	Orion L80 RS
<b>ENGINE</b>	Kubota V3800 CR-TE4	Kohler KDI 2504 TCR
Number of cylinders	4 in-line	4 in-line / 16 valves
Displacement (cm <sup>3</sup> )	3,769	2,482
Intake	Turbo	Turbo / Intercooler
Fuel system	Direct injection "Common rail"	Direct injection "Common rail" - 2000 bar
Emission level	Stage 3B	Stage 3B
Balancing	Counter-balance shafts	Counter-balance shafts
Power (kW/HP)	72.1 / 98	55.4 / 75.3
Rated speed (rpm)	2,400	2,300
Maximum torque (Nm/rpm)	330 / 1,500	300 / 1,500
Speed management	Electronically regulated with a console with functions: increase and decrease of engine speed, memorize and recall a particular speed or switch off the electronic throttle and go to the minimum idle speed	
Cooling	Liquid	
Tank capacity (lt)	54	
<b>CHASSIS</b>	Swinging integral chassis OS-FRAME with steering wheels	
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control	
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser	
<b>POWER SHUTTLE EASYDRIVE® (optional)</b>	Electro-hydraulic power shuttle electronically actuated with the lever (with 3 position FWD-N-REV) installed on the left of steering wheel. Possibility to choose from 5 levels of reactivity	
Transmission clutch	Multidisc in oil bath electronically-managed and proportional hydraulic control with PRO-ACT System	
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control	
<b>AXLES</b>	Front and rear with epicyclic reduction units. Front axle, oscillating in the middle (approx. ±15°)	
<b>REAR PTO</b>	Independent from the gearbox and synchronized with forwarding speed. Engageable under load with brake in disengaged position	
PTO clutch	Multidisc in oil bath with electro-hydraulic control	
PTO rotation speed (rpm)	Standard: 540/540E - Optional: 540/1,000	
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger	
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33	
Flow rate to the lift and the control valves (lt/min)	30 (optional oversized pump with flow rate 49 lt/min)	
Maximum hydraulic pressure (bar)	180	
<b>REAR CONTROL VALVES</b>	Mechanical control	
Standard	2 double acting	
Optional and in addition to the standard ones	1 single acting and 1 double acting or 1 double acting and 1 double acting with float	
Joystick (optional)	With proportional electronic control of lifts and control valves consisting of: 1 single acting with adjustable flow and free return, 5 double acting (replacing the standard ones) and oversized pump 49 lt/min. Potentiometer to change the sensibility of the joystick	
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A	
Rear power outlets	7 pin and 3 pin	
<b>REAR LIFT</b>	Standard: by two external rams - Optional: position and draft control	
Three-point hitches	Standard: standard couplers cat. 1 and 2. Optional: quick couplings cat. 1 and 2, arms with adjustable length or quick couplings, L-shaped, cat. 1 and 2, arms with adjustable length and hooks with adjustable width.	
Three-point tie bar	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm	
Ball joint lifting capacity (kg)	2,300	
<b>FRONT LIFT (optional)</b>	By two external rams with front protection and 2 double acting control valves with free return	
Three-point hitches	Rigid with quick couplings cat. 1	
Lifting capacity (kg)	800	
<b>DRIVING PLATFORM</b>	Reversible with platform suspended on silent block. Suspended pedals mounted on rotating control column	
Steering wheel	With adjustable inclination	
Seat	With gas spring for easy tipping, safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight - Optional: 'Kab Seating' or 'Grammer' pneumatic seat	
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive	
Parking brake	Automatic and independent Brake-Off acting as emergency brake with proportional action	
<b>STEERING</b>	Hydrostatic steering acting on front wheels. Flow deviator for steering unit	
<b>SAFETY</b>	Standard: front homologated roll-bar, with gas springs for an easy lowering and liften	
<b>CABIN (optional)</b>	Homologated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. With ventilation, heating system and air conditioning. Available with standard or conical structure	
<b>INSTRUMENT PANEL</b>	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm
<b>TYRES (standard)</b>	280/70R18	
<b>Optional</b>	340/65R18 * 320/65R18 * 250/85R20 * 300/70R20 * 320/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden	
TOW HOOKS (standard)	Rear CUNA and front	
<b>Optional</b>	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)	
WEIGHT in order of speed	2,385	2,315
With roll-bar (kg)	2,530	2,460
<b>OPTIONAL</b>	Front bumper, Beacon lamp, Front weight, Weights for wheels, Active carbon filter for cabin	

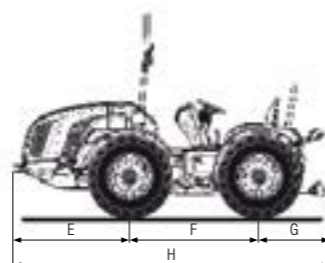
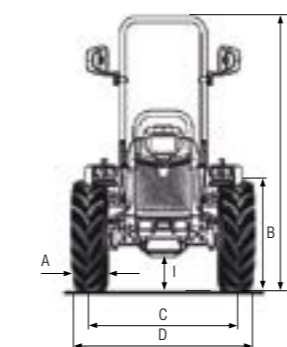
# Orion DUALSTEER®

## K105 | L80

	340/65R18	280/70R18	320/65R18	250/85R20	300/70R20
	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim
<b>A</b> Tyre width (mm)	343	282	320	245	286
<b>B</b> Tyre diameter (mm)	899	849	873	940	942
<b>C</b> Wheel track min/max (mm)	1098/1538	1098/1538	1098/1538	1046/1588	1134/1618
<b>D</b> Width min/max (mm)	1441/1881	1380/1820	1441/1881	1291/1833	1420/1904

	320/70R20	340/65R20	31x15.50-15 XTC	31x15.50-15 STG	13.6-16 Garden
	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim	with adjustable rim
<b>A</b> Tyre width (mm)	316	343	368	394	391
<b>B</b> Tyre diameter (mm)	975	958	800	800	968
<b>C</b> Wheel track min/max (mm)	1134/1618	1134/1618	1260/1374	1260/1374	1240/1400
<b>D</b> Width min/max (mm)	1450/1934	1477/1961	1628/1742	1654/1768	1631/1791

Dimensions Orion K105   L80 DUALSTEER® (mm):							
E	F	G	H	I min/max	L min/max	M min/max	N min/max
1348	1495	932	3775	161/271	2254/2364	2070/2180	2139/2249



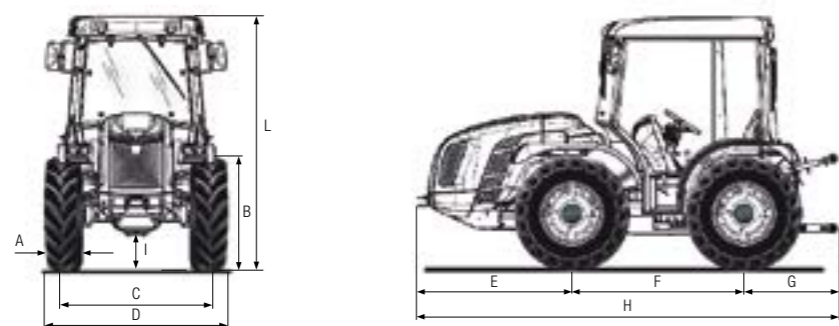
TECHNICAL FEATURES	Orion K105 DUALSTEER®	Orion L80 DUALSTEER®
<b>ENGINE</b>	Kubota V3800 CR-TE4	Kohler KDI 2504 TCR
Number of cylinders	4 in-line	4 in-line / 16 valves
Displacement (cm³)	3,769	2,482
Intake	Turbo	Turbo / Intercooler
Fuel system	Direct injection "Common rail"	Direct injection "Common rail" - 2000 bar
Emission level	Stage 3B	Stage 3B
Balancing	Counter-balance shafts	Counter-balance shafts
Power (kW/HP)	72.1 / 98	55.4 / 75.3
Rated speed (rpm)	2,400	2,300
Maximum torque (Nm/rpm)	330 / 1,500	300 / 1,500
Speed management	Electronically regulated with a console with functions: increase and decrease of engine speed, memorize and recall a particular speed or switch off the electronic throttle and go to the minimum idle speed	
Cooling	Liquid	
Tank capacity (lt)	54	
<b>CHASSIS</b>	Swinging integral chassis OS-FRAME with central articulation and steering wheels	
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control	
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser	
<b>POWER SHUTTLE EASYDRIVE® (optional)</b>	Electro-hydraulic power shuttle electronically actuated with the lever (with 3 position FWD-N-REV) installed on the left of steering wheel. Possibility to choose from 5 levels of reactivity	
Transmission clutch	Multidisc in oil bath electronically-managed and proportional hydraulic control with PRO-ACT System	
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control	
<b>AXLES</b>	Front and rear with epicyclic reduction units. Front axle, oscillating in the middle (approx. ±15°)	
<b>REAR PTO</b>	Independent from the gearbox and synchronized with forwarding speed. Engageable under load with brake in disengaged position	
PTO clutch	Multidisc in oil bath with electro-hydraulic control	
PTO rotation speed (rpm)	Standard: 540/540E - Optional: 540/1,000	
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger	
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33	
Flow rate to the lift and the control valves (lt/min)	30 (optional oversized pump with flow rate 49 lt/min)	
Maximum hydraulic pressure (bar)	180	
<b>REAR CONTROL VALVES</b>	Mechanical control	
Standard	2 double acting	
Optional and in addition to the standard ones	1 single acting and 1 double acting or 1 double acting and 1 double acting with float	
Joystick (optional)	With proportional electronic control of lifts and control valves consisting of: 1 single acting with adjustable flow and free return, 5 double acting (replacing the standard ones) and oversized pump 49 lt/min. Potentiometer to change the sensibility of the joystick	
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A	
Rear power outlets	7 pin and 3 pin	
<b>REAR LIFT</b>	Standard: by two external rams - Optional: position and draft control	
Three-point hitches	Standard: standard couplers cat. 1 and 2. Optional: quick couplings cat. 1 and 2, arms with adjustable length or quick couplings, L-shaped, cat. 1 and 2, arms with adjustable length and hooks with adjustable width	
Three-point tie bar	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm	
Ball joint lifting capacity (kg)	2,300	
<b>FRONT LIFT (optional)</b>	By two external rams with front protection and 2 double acting control valves with free return	
Three-point hitches	Rigid with quick couplings cat. 1	
Lifting capacity (kg)	800	
<b>DRIVING PLATFORM</b>	Reversible with platform suspended on silent block. Suspended pedals mounted on rotating control column	
Steering wheel	With adjustable inclination	
Seat	With gas spring for easy tipping, safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight - Optional: 'Kab Seating' or 'Grammer' pneumatic seat	
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive	
Parking brake	Automatic and independent Brake-Off acting as emergency brake with proportional action	
<b>STEERING</b>	Double steering system DUALSTEER® with 4-cylinders. Hydrostatic steering acting on front wheels and central articulation. Flow deviator for steering unit	
<b>SAFETY</b>	Standard: front homologated roll-bar, with gas springs for an easy lowering and lifting	
<b>CABIN (optional)</b>	Homologated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. With ventilation, heating system and air conditioning. Available with standard or conical structure	
<b>INSTRUMENT PANEL</b>	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm
<b>TYRES (standard)</b>	280/70R18	
Optional	340/65R18 * 320/65R18 * 250/85R20 * 300/70R20 * 320/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden	
<b>TOW HOOKS (standard)</b>	Rear CUNA and front	
Optional	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)	
<b>WEIGHT in order of speed</b>		
With roll-bar (kg)	2,450	2,380
With cabin (kg)	2,580	2,510
<b>OPTIONAL</b>	Front bumper, Beacon lamp, Front weight, Weights for wheels, Active carbon filter for cabin	



# Orion MT K105



	31x15.50-15 XTC	31x15.50-15 STG	440/50R17 ALL GROUND	425/55R17 AC70G	340/65R20
	with fixed rim	with fixed rim	with fixed rim	with fixed rim	with adjustable rim
<b>A</b> Tyre width (mm)	368	394	431	430	343
<b>B</b> Tyre diameter (mm)	800	800	873	884	958
<b>C</b> Wheel track min/max (mm)	1510	1510	1476	1476	1354/1618
<b>D</b> Width min/max (mm)	1878	1904	1907	1906	1697/1961



Dimensions Orion K105 MT (mm):					
E	F	G	H	I min/max	L min/max
1348	1495	932	3775	184/294	2070/2180

TECHNICAL FEATURES	Orion K105 MT
<b>ENGINE</b>	Kubota V3800 CR-TE4
Number of cylinders	4 in-line
Displacement (cm <sup>3</sup> )	3,769
Intake	Turbo
Fuel system	Direct injection "Common rail"
Emission level	Stage 3B
Balancing	Counter-balance shafts
Power (kW/HP)	72.1 / 98
Rated speed (rpm)	2,400
Maximum torque (Nm/rpm)	330 / 1,500
Speed management	Electronically regulated with a console with functions: increase and decrease of engine speed, memorize and recall a particular speed or switch off the electronic throttle and go to the minimum idle speed
Cooling	Liquid
Tank capacity (lt)	54
Air filter	Integrated cyclone prefilter with high-performance air filter and front air intake
<b>CHASSIS</b>	Swinging integral chassis OS-FRAME with steering wheels
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser
<b>POWER SHUTTLE EASYDRIVE®</b> (optional)	Electro-hydraulic power shuttle electronically actuated with the lever (with 3 position FWD-N-REV) installed on the left of steering wheel. Possibility to choose from 5 levels of reactivity
Transmission clutch	Multidisc in oil bath electronically-managed and proportional hydraulic control with PRO-ACT System
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control
<b>AXLES</b>	Front and rear with epicyclic reduction units. Front axle, oscillating in the middle (approx. ±15°)
<b>REAR PTO</b>	Independent from the gearbox and synchronized with forwarding speed. Engageable under load with brake in disengaged position
PTO clutch	Multidisc in oil bath with electro-hydraulic control
PTO rotation speed (rpm)	Standard: 540/1,000 - Optional: 540/540E
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger
Flow rate to the hydroguide and the electro-hydraulic controls (lt/min)	33
Flow rate to the lift and the control valves (lt/min)	30
Maximum hydraulic pressure (bar)	180
<b>REAR CONTROL VALVES</b>	Mechanical control
Standard	1 single acting and 2 double acting
Optional and in addition to the standard ones	1 single acting or 1 double acting or 1 double acting with float
Joystick (optional)	With proportional electronic control of lifts and control valves consisting of: 1 single acting without free return and 3 double acting (replacing the standard ones). Potentiometer to change the sensibility of the joystick
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A
Rear power outlets	7 pin and 3 pin
<b>REAR LIFT</b>	By four external rams with hydraulic suspension and Dual Floating System®
Three-point hitches	Quick couplings, L-shaped, cat. 1 and 2, arms with adjustable length and hooks with adjustable width
Three-point tie bar	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm
Ball joint lifting capacity (kg)	2,300
<b>FRONT LIFT</b> (optional)	By two external rams with front protection and 2 double acting control valves with free return
Three-point hitches	Rigid with quick couplings cat. 1
Lifting capacity (kg)	800
<b>DRIVING PLATFORM</b>	Wider version, reversible with platform suspended on silent block. Suspended pedals mounted on rotating control column
Steering wheel	With adjustable inclination
Seat	With gas spring for easy tipping, safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight - Optional: "Grammer" pneumatic seat
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive
Parking brake	Automatic and independent Brake-Off acting as emergency brake with proportional action
<b>STEERING</b>	Hydrostatic steering acting on front wheels. Flow deviator for steering unit
<b>SAFETY</b>	Standard: semi-cabin and beacon lamp
<b>CABIN</b> (optional)	Homologated and sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. With ventilation, heating system and air conditioning
<b>INSTRUMENT PANEL</b>	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm
<b>TYRES</b> (standard)	31x15.50-15 XTC
Optional	340/65R20 * 31x15.50-15 STG * 440/50-17 All-Ground * 425/55-17 AC70G
<b>TOW HOOKS</b> (standard)	Rear CUNA and front
Optional	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)
<b>WEIGHT in order of speed</b>	
With semi-cabin (kg)	2,480
With cabin (kg)	2,560
<b>OPTIONAL</b>	Front bumper, Front weight, Weights for wheels, Air prefilter with impeller, Active carbon filter for cabin

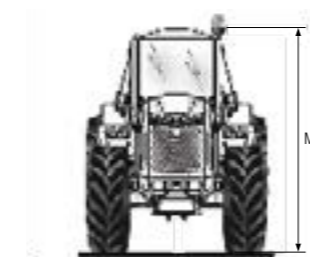
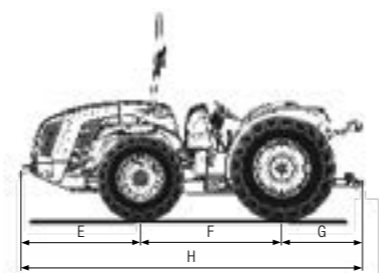
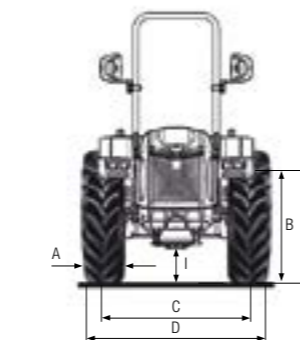
# Orion SDT RS

## K105 | L80

	260/70R16	300/70R20	260/70R16	340/65R20	280/70-18	360/70R20
	Front	Rear	Front	Rear	Front	Rear
<b>A</b> Tyre width (mm)	258	286	258	343	265	357
<b>B</b> Tyre diameter (mm)	770	958	770	958	849	1042
<b>C</b> Wheel track min/max (mm)	1122/1522	1054/1490	1122/1522	1054/1490	1098/1538	1170/1490
<b>D</b> Width min/max (mm)	1380/1780	1340/1776	1380/1780	1397/1833	1363/1803	1527/1847

	280/70-18	320/70R24	320/65R18	380/70R20	340/65R18	420/65R24
	Front	Rear	Front	Rear	Front	Rear
<b>A</b> Tyre width (mm)	265	316	319	370	343	418
<b>B</b> Tyre diameter (mm)	849	1092	873	1078	899	1155
<b>C</b> Wheel track min/max (mm)	1098/1538	1034/1518	1166/1470	1170/1490	1170/1466	1190/1460
<b>D</b> Width min/max (mm)	1363/1803	1350/1834	1485/1789	1540/1860	1513/1809	1608/1878

Dimensions Orion K105   L80 SDT RS (mm):						
E	F	G	H	I min/max	L min/max	M min/max
1348	1607	968	3923	157/257	2216/2316	1792/1857



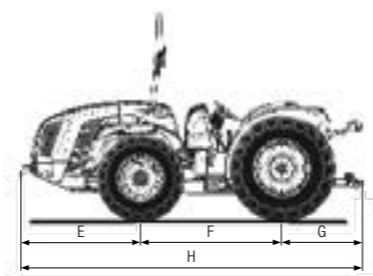
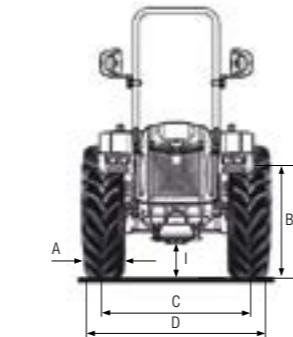
Compact AIRTECH cabin

TECHNICAL FEATURES	Orion K105 SDT RS	Orion L80 SDT RS
<b>ENGINE</b>	Kubota V3800 CR-TE4	Kohler KDI 2504 TCR
Number of cylinders	4 in-line	4 in-line / 16 valves
Displacement (cm³)	3,769	2,482
Intake	Turbo	Turbo / Intercooler
Fuel system	Direct injection "Common rail"	Direct injection "Common rail" - 2000 bar
Emission level	Stage 3B	Stage 3B
Balancing	Counter-balance shafts	Counter-balance shafts
Power (kW/HP)	72.1 / 98	55.4 / 75.3
Rated speed (rpm)	2,400	2,300
Maximum torque (Nm/rpm)	330 / 1,500	300 / 1,500
Speed management	Electronically regulated with a console with functions: increase and decrease of engine speed, memorize and recall a particular speed or switch off the electronic throttle and go to the minimum idle speed	
Cooling	Liquid	
Tank capacity (lt)	70 lt (version with roll-bar) - 54 lt (version with cabin)	
<b>CHASSIS</b>	Swinging integral chassis OS-FRAME with steering wheels	
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control	
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser	
<b>POWER SHUTTLE EASYDRIVE®</b> (optional)	Electro-hydraulic power shuttle electronically actuated with the lever (with 3 position FWD-N-REV) installed on the left of steering wheel. Possibility to choose from 5 levels of reactivity	
Transmission clutch	Multidisc in oil bath electronically-managed and proportional hydraulic control with PRO-ACT System	
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control	
<b>AXLES</b>	Front with epicyclic reduction units and rear with bull-gear units. Front axle, oscillating in the middle (approx. ±15°)	
<b>REAR PTO</b>	Independent from the gearbox and synchronized with forwarding speed. Engageable under load with brake in disengaged position	
PTO clutch	Multidisc in oil bath with electro-hydraulic control	
PTO rotation speed (rpm)	Standard: 540/540E - Optional: 540/1,000	
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger	
Flow rate to the steering unit and the electro-hydraulic controls (lt/min)	33	
Flow rate to the lift and the control valves (lt/min)	30 (optional oversized pump with flow rate 49 lt/min)	
Maximum hydraulic pressure (bar)	180	
<b>REAR CONTROL VALVES</b>	Mechanical control	
Standard	2 double acting	
Optional and in addition to the standard ones	1 single acting and 1 double acting or 1 double acting and 1 double acting with float	
Joystick (optional)	With proportional electronic control of lifts and control valves consisting of: 1 single acting with adjustable flow and free return, 3 double acting (replacing the standard ones) and oversized pump 49 lt/min. Potentiometer to change the sensibility of the joystick	
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A	
Rear power outlets	7 pin and 3 pin	
<b>REAR LIFT</b>	Standard: by two external rams - Optional: position and draft control	
Three-point hitches	Standard: standard couplers cat. 1 and 2. Optional: quick couplings cat. 1 and 2, arms with non-adjustable length or quick couplings, L-shaped, cat. 1 and 2, arms with adjustable length and hooks with adjustable width	
Three-point tie bar	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm	
Ball joint lifting capacity (kg)	2,700	
<b>FRONT LIFT</b> (optional)	With front protection and 2 double acting control valves with free return	
Three-point hitches	Rigid with quick couplings cat. 1	
Lifting capacity (kg)	800	
<b>DRIVING PLATFORM</b>	Monodirectional with platform suspended on silent block. Suspended pedals mounted on control column	
Steering wheel	With adjustable inclination	
Seat	With safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight - Optional: 'Kab Seating' or 'Grammer' pneumatic seat	
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive	
Parking brake	Standard: acting on the rear transmission, with hand lever - Optional: automatic and independent Brake-Off acting as emergency brake with proportional action	
<b>STEERING</b>	Hydrostatic steering acting on the front wheels	
<b>SAFETY</b>	Standard: front homologated roll-bar, with gas springs for an easy lowering and lifting	
<b>CABIN</b> (optional)	Compact AIRTECH version, pressurised and homologated cat. 4. Sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. Safety cell integrated in the structure, instrument panel and air ducts (car type). Air conditioning system and Brake-Off	
<b>INSTRUMENT PANEL</b>	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm
<b>TYRES</b> (standard)	260/70R16*300/70R20	
Optional	260/70R16*340/65R20 - 280/70-18*360/70R20 - 280/70-18*320/70R24 - 320/65R18*380/70R20 - 340/65R18*420/65R24	
<b>TOW HOOKS</b> (standard)	Rear CUNA and front	
Optional	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)	
<b>WEIGHT in order of speed</b>		
With roll-bar (kg)	2,520	2,450
With Compact cabin (kg)	2,700	2,630
<b>OPTIONAL</b>	Front bumper, Beacon lamp, Front weight, Weights for front wheels, Cast-iron rim flanges for rear wheels 24", Front plate for implements connection, Active carbon filter for pressurised cabin	

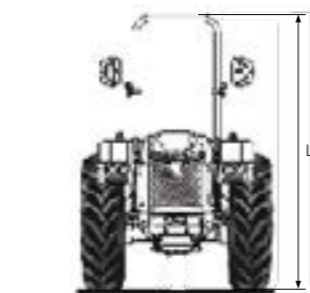
# Orion SDT DUALSTEER®

## K105 | L80

	260/70R16	300/70R20	260/70R16	340/65R20	280/70-18	360/70R20
	Front	Rear	Front	Rear	Front	Rear
<b>A</b> Tyre width (mm)	258	286	258	343	265	357
<b>B</b> Tyre diameter (mm)	770	958	770	958	849	1042
<b>C</b> Wheel track min/max (mm)	1122/1522	1054/1490	1122/1522	1054/1490	1098/1538	1170/1490
<b>D</b> Width min/max (mm)	1380/1780	1340/1776	1380/1780	1397/1833	1363/1803	1527/1847



	280/70-18	320/70R24	320/65R18	380/70R20	340/65R18	420/65R24
	Front	Rear	Front	Rear	Front	Rear
<b>A</b> Tyre width (mm)	265	316	319	370	343	418
<b>B</b> Tyre diameter (mm)	849	1092	873	1078	899	1155
<b>C</b> Wheel track min/max (mm)	1098/1538	1034/1518	1166/1470	1170/1490	1170/1466	1190/1460
<b>D</b> Width min/max (mm)	1363/1803	1350/1834	1485/1789	1540/1860	1513/1809	1608/1878



Dimensions Orion K105   L80 SDT DUALSTEER® (mm):						
E	F	G	H	I min/max	L min/max	M min/max
1348	1607	968	3923	134/234	2216/2316	1792/1857



Compact AIRTECH cabin

TECHNICAL FEATURES	Orion K105 SDT DUALSTEER®	Orion L80 SDT DUALSTEER®
<b>ENGINE</b>	Kubota V3800 CR-TE4	Kohler KDI 2504 TCR
Number of cylinders	4 in-line	4 in-line / 16 valves
Displacement (cm³)	3,769	2,482
Intake	Turbo	Turbo / Intercooler
Fuel system	Direct injection "Common rail"	Direct injection "Common rail" - 2000 bar
Emission level	Stage 3B	Stage 3B
Balancing	Counter-balance shafts	Counter-balance shafts
Power (kW/HP)	72.1 / 98	55.4 / 75.3
Rated speed (rpm)	2,400	2,300
Maximum torque (Nm/rpm)	330 / 1,500	300 / 1,500
Speed management	Electronically regulated with a console with functions: increase and decrease of engine speed, memorize and recall a particular speed or switch off the electronic throttle and go to the minimum idle speed	
Cooling	Liquid	
Tank capacity (lt)	70 lt (version with roll-bar) - 54 lt (version with cabin)	
<b>CHASSIS</b>	Swinging integral chassis OS-FRAME with central articulation and steering wheels	
<b>DRIVE</b>	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control	
<b>TRANSMISSION</b>	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser	
<b>POWER SHUTTLE EASYDRIVE®</b>	Electro-hydraulic power shuttle electronically actuated with the lever (with 3 position FWD-N-REV) installed on the left of steering wheel. Possibility to choose from 5 levels of reactivity	
Transmission clutch	Multidisc in oil bath electronically-managed and proportional hydraulic control with PRO-ACT System	
<b>DIFFERENTIAL</b>	Front and rear. Differential lock: front and rear simultaneously or only rear with electro-hydraulic control	
<b>AXLES</b>	Front with epicyclic reduction units and rear with bull-gear units. Front axle, oscillating in the middle (approx. ±15°)	
<b>REAR PTO</b>	Independent from the gearbox and synchronized with forwarding speed. Engageable under load with brake in disengaged position	
PTO clutch	Multidisc in oil bath with electro-hydraulic control	
PTO rotation speed (rpm)	Standard: 540/540E - Optional: 540/1,000	
<b>HYDRAULIC SYSTEM</b>	Double circuit with independent pumps and heat exchanger	
Flow rate to the steering unit and the electro-hydraulic controls (lt/min)	33	
Flow rate to the lift and the control valves (lt/min)	30 (optional oversized pump with flow rate 49 lt/min)	
Maximum hydraulic pressure (bar)	180	
<b>REAR CONTROL VALVES</b>	Mechanical control	
Standard	2 double acting	
Optional and in addition to the standard ones	1 single acting and 1 double acting or 1 double acting and 1 double acting with float	
Joystick (optional)	With proportional electronic control of lifts and control valves consisting of: 1 single acting with adjustable flow and free return, 3 double acting (replacing the standard ones) and oversized pump 49 lt/min. Potentiometer to change the sensibility of the joystick	
<b>ELECTRIC SYSTEM</b>	Battery 100 Ah / 12 V - Alternator 95 A	
Rear power outlets	7 pin and 3 pin	
<b>REAR LIFT</b>	Standard: by two external rams - Optional: position and draft control	
Three-point hitches	Standard: standard couplers cat. 1 and 2. Optional: quick couplings cat. 1 and 2, arms with non-adjustable length or quick couplings, L shaped, cat. 1 and 2, arms with adjustable length and hooks with adjustable width	
Three-point tie bar	Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm	
Ball joint lifting capacity (kg)	2,700	
<b>FRONT LIFT (optional)</b>	With front protection and 2 double acting control valves with free return	
Three-point hitches	Rigid with quick couplings cat. 1	
Lifting capacity (kg)	800	
<b>DRIVING PLATFORM</b>	Monodirectional with platform suspended on silent block. Suspended pedals mounted on control column	
Steering wheel	With adjustable inclination	
Seat	With safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight - Optional: 'Kab Seating' or 'Grammer' pneumatic seat	
<b>SERVICE BRAKES</b>	Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive	
Parking brake	Standard: acting on the rear transmission, with hand lever - Optional: automatic and independent Brake-Off acting as emergency brake with proportional action	
<b>STEERING</b>	Double steering system DUALSTEER® with 4-cylinders. Hydrostatic steering acting on front wheels and central articulation	
<b>SAFETY</b>	Standard: front homologated roll-bar, with gas springs for an easy lowering and lifting	
<b>CABIN (optional)</b>	Compact AIRTECH version, pressurised and homologated cat. 4. Sound-proof with monocoque body fitted on silent-block, beacon lamp and fabric covered seat. Safety cell integrated in the structure, instrument panel and air ducts (car type). Air conditioning system and Brake-Off	
<b>INSTRUMENT PANEL</b>	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, DPF level, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm	With multi-function colour and digital display complete with: hour counter, battery voltage, fuel consumption, simultaneous reading of engine speed, forwarding speed and PTO speed. Warning lights and acoustic alarm
<b>TYRES (standard)</b>	260/70R16*300/70R20	
Optional	260/70R16*340/65R20 - 280/70-18*360/70R20 - 280/70-18*320/70R24 - 320/65R18*380/70R20 - 340/65R18*420/65R24	
<b>TOW HOOKS (standard)</b>	Rear CUNA and front	
Optional	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)	
<b>WEIGHT in order of speed</b>		
With roll-bar (kg)	2,570	2,500
With Compact cabin (kg)	2,700	2,630
<b>OPTIONAL</b>	Front bumper, Beacon lamp, Front weight, Weights for front wheels, Cast-iron rim flanges for rear wheels 24", Front plate for implements connection, Active carbon filter for pressurised cabin	