

MARS

K105 | L80



language



pasquali

MARS K105 | L80


Much more advantages

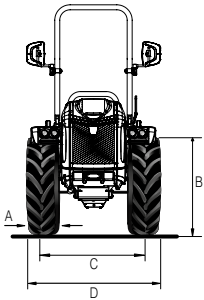
- **VERSIONS WITH CENTRAL ARTICULATION (AR) OR STEERING WHEELS (RS)** to be performing and agile in rows of vineyards and orchards, greenhouses, nurseries and greens maintenance.
- **REVERSIBLE DRIVING POSITION** (optional) to work with front implement, improving safety and operating comfort.
- **MULTIPLE DISC CLUTCH IN OIL BATH** to guarantee longer life, reliability and soft and modular engagements.
- **TRANSMISSION WITH OS-FRAME**, swinging up to 15° to guarantee stability and constant traction on very rough grounds.
- **LAST GENERATION COMMON RAIL ENGINES** for more efficient combustion, improved performance and less fuel consumption.
- **DOUBLE CIRCUIT HYDRAULIC SYSTEM** with independent pumps, heat exchanger and high oil flow to rear remote control valves.
- **EPICYCLIC REDUCTION UNITS ON THE FOUR WHEELS** for the maximum power transmission, thanks to the three gears always engaged.
- **ISODIAMETRIC WHEELS AND SHORT WHEEL-BASE** for steering radius at the top of the category.
- **TOP COMFORT FOR THE DRIVER**, with comfortable driver seat and controls easy to operate and ergonomically placed.
- **TOTAL OPERATING SAFETY** thanks to the low centre of gravity, to 4WD and multiple disc brakes in oil bath.



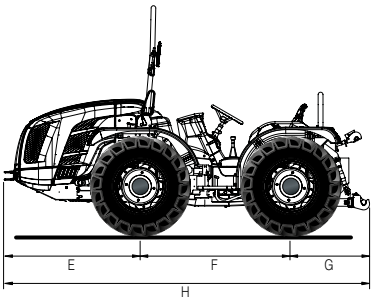
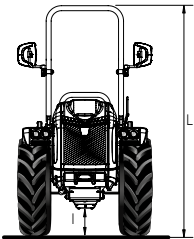
Mars AR

K105 | L80

				
	250/80R18	11.5/80-15.3	280/70R18	250/85R20
	with adjustable rim	with fixed rim	with adjustable rim	with adjustable rim
A Tyre width (mm)	240	290	282	245
B Tyre diameter (mm)	879	888	849	940
C Wheel track min/max (mm)	912 / 1216	1052 / 1076	960 / 1284	880 / 1334
D Width min/max (mm)	1152 / 1456	1342 / 1366	1242 / 1566	1125 / 1579



				
	300/70R20	340/65R20	31x15.50-15 XTC	31x15.50-15 STG
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim
A Tyre width (mm)	286	343	368	394
B Tyre diameter (mm)	942	958	800	800
C Wheel track min/max (mm)	984 / 1364	984 / 1364	1006 / 1120	1120
D Width min/max (mm)	1270 / 1650	1327 / 1707	1374 / 1488	1514








Dimensions Mars K105 L80 AR (mm):					
E	F	G	H	I min/max	L min/max
1348	1450	927	3725	161 / 271	2254 / 2364

TECHNICAL FEATURES	Mars K105 AR	Mars L80 AR
ENGINE	Kubota V3800-CR-T-EU3	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	
CHASSIS	Swinging integral chassis OS-FRAME with central articulation	
DRIVE	Four-wheel drive, permanent	
TRANSMISSION	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser	
Transmission clutch	Multidisc in oil bath with hydraulic control	
DIFFERENTIAL	Simultaneous front and rear differential lock with electro-hydraulic control	
AXLES	Front and rear with epicyclic reduction units. Front axle, oscillating in the middle (approx. ±15°)	
REAR PTO	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	
HYDRAULIC SYSTEM	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	
REAR CONTROL VALVES	Mechanical control	
Standard	1 single acting and 2 double acting	
Optional and replacing the standard ones	With lift by rams: 1 single acting, 1 double acting and 1 double acting with float or 3 double acting. With lift with position and draft control: 1 single acting and 1 double acting or 1 double acting and 1 double acting with float	
ELECTRIC SYSTEM	Battery 100 Ah / 12 V - Alternator 95 A	
Rear power outlets	7 pin and 3 pin	
REAR LIFT	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	
FRONT LIFT (optional)	By two external rams with front protection and 2 double acting control valves	
Three-point hitches	Rigid with quick couplings cat. 1	
Lifting capacity (kg)	800	
DRIVING PLATFORM	Monodirectional or Reversible with rotating platform and duplicated pedals	
Steering wheel	With adjustable height	
Seat	With safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight. Optional: "Kab Seating"	
SERVICE BRAKES	Multidisc in oil bath with mechanical control, acting on the rear wheels	
Parking brake	Acting on service brakes	
STEERING	Hydrostatic steering acting on central articulation. Reversible version with flow deviator for steering unit	
SAFETY	Front homologated roll-bar with gas springs for an easy lowering and lifting	
INSTRUMENT PANEL	With TFT colour display to check: working time, engine speed, forwarding speed, PTO speed, particulate filter obstruction level (only for K105), instantaneous fuel consumption and current time. Analogue indicators with engine speed, engine coolant temperature and fuel level. Warning lights and acoustic alarm	
TYRES (standard)	250/80R18	
Optional	11.5/80-15.3 * 280/70-18 * 320/65R18 * 250/85R20 * 300/70R20 * 340/65R20 * 31x15.50-15 XTC or STG * 13.6-16 Garden	
TOW HOOKS (standard)	Rear CUNA and front	
Optional	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)	
WEIGHT in order of speed		
With roll-bar (kg)	2,150	2,090
OPTIONAL	Front bumper, Beacon lamp, Front weight and weights for wheels	

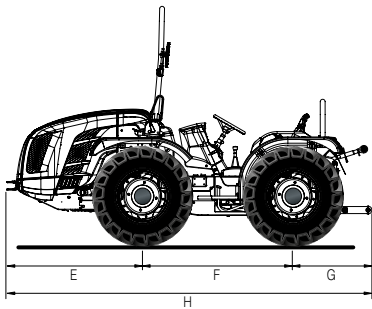
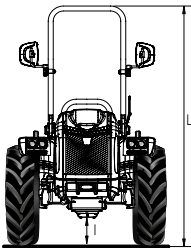
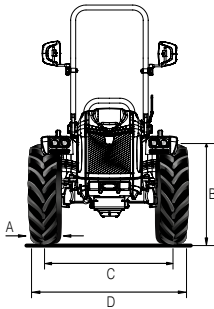
Mars RS

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
A Tyre width (mm)	343	282	320	245	286
B Tyre diameter (mm)	899	849	873	940	942
C Wheel track min/max (mm)	1098 / 1538	1098 / 1538	1098 / 1538	1046 / 1588	1134 / 1618
D 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
A Tyre width (mm)	316	343	368	394	391
B Tyre diameter (mm)	975	958	800	800	968
C Wheel track min/max (mm)	1134 / 1618	1134 / 1618	1260 / 1374	1260 / 1374	1240 / 1400
D Width min/max (mm)	1450 / 1934	1477 / 1961	1628 / 1742	1654 / 1768	1631 / 1791

Dimensions Mars K105 L80 RS (mm):					
E	F	G	H	I min/max	L min/max
1348	1450	927	3725	184 / 294	2254 / 2364



TECHNICAL FEATURES	Mars K105 RS	Mars L80 RS
ENGINE	Kubota V3800-CR-T-EU3	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	
CHASSIS	Swinging integral chassis OS-FRAME with steering wheels	
DRIVE	Four-wheel drive, permanent	
TRANSMISSION	32 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser	
Transmission clutch	Multidisc in oil bath with hydraulic control	
DIFFERENTIAL	Simultaneous front and rear differential lock with electro-hydraulic control	
AXLES	Front and rear with epicyclic reduction units. Front axle, oscillating in the middle (approx. ±15°)	
REAR PTO	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	
HYDRAULIC SYSTEM	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	
REAR CONTROL VALVES	Mechanical control	
Standard	1 single acting and 2 double acting	
Optional and replacing the standard ones	1 single acting, 1 double acting and 1 double acting with float or 3 double acting	
ELECTRIC SYSTEM	Battery 100 Ah / 12 V - Alternator 95 A	
Rear power outlets	7 pin and 3 pin	
REAR LIFT	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	
FRONT LIFT (optional)	By two external rams with front protection and 2 double acting control valves	
Three-point hitches	Rigid with quick couplings cat. 1	
Lifting capacity (kg)	800	
DRIVING PLATFORM	Monodirectional or Reversible with rotating platform and duplicated pedals	
Steering wheel	With adjustable height	
Seat	With safety belt and 'man on board sensor'. Standard: comfortable sprung seat, adjustable according to the driver's weight. Optional: "Kab Seating"	
SERVICE BRAKES	Multidisc in oil bath with mechanical control, acting on the rear wheels	
Parking brake	Acting on service brakes	
STEERING	Hydrostatic steering acting on front wheels. Reversible version with flow deviator for steering unit	
SAFETY	Front homologated roll-bar with gas springs for an easy lowering and lifting	
INSTRUMENT PANEL	With TFT colour display to check: working time, engine speed, forwarding speed, PTO speed, particulate filter obstruction level (only for K105), instantaneous fuel consumption and current time. Analogue indicators with engine speed, engine coolant temperature and fuel level. Warning lights and acoustic alarm	
TYRES (standard)	280/70R18	
Optional	340/65R18 * 320/65R18 * 250/85R20 * 300/70R20 * 320/70R20 * 340/65R20 * 31x15.50-15 XTC o STG * 13.6-16 Garden	
TOW HOOKS (standard)	Rear CUNA and front	
Optional	Rear tow hook: EC approved or EC approved (Slider type) or CUNA (Slider type)	
WEIGHT in order of speed		
With roll-bar (kg)	2,150	2,090
OPTIONAL	Hydraulic suspension with accumulator including 1 flow regulator, 1 double acting and 1 double acting with float (Replacing the standard ones), Front bumper, Beacon lamp, Front weight and weights for wheels	

THE SERVICES



SPARE PARTS

A complete range of original spare parts, guaranteed directly by the manufacturer.



ASSISTANCE

A team of specialists, well prepared and available to assure an efficient and resolving service.



WARRANTY

A precise certainty for the customer's satisfaction:
2-year warranty included in the price.



LUBRICANTS

We recommend to use the original PowerLube lubricants.



FINANCIAL SERVICES

Financial solutions to meet the credit requirements.



M A D E I N I T A L Y



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