

# MARS

## K105 | L80



language



**pasquali**

# MARS K105 | L80

## Much more advantages

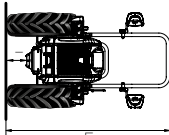
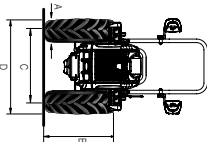
- **VERSIONS WITH CENTRAL ARTICULATION (AR) OR STEERING WHEELS (RS)** to be performing and agile in rows of vineyards and orchards, greenhouses, nurseries and greens maintenance.
- **REVERSIBLE DRIVING POSITION** (optional) to work with front implement, improving safety and operating comfort.
- **MULTIPLE 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.
- **EPCYCLIC 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.



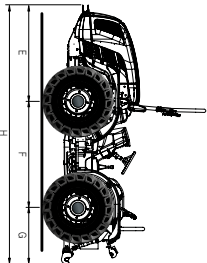
# Mars AR

## K105 | L80

	250/80R18	11.50R-15.3	280/70R18	250/85R20
	with adjustable rim	with fixed rim	with adjustable rim	with adjustable rim
A Tire width (mm)	240	290	282	245
B Tire diameter (mm)	879	888	849	940
C Wheel track mm/max (mm)	912 / 1216	1052 / 1076	960 / 1284	880 / 1334
D Width mm/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 Tire width (mm)	286	343	368	394
B Tire diameter (mm)	942	958	800	800
C Wheel track mm/max (mm)	984 / 1364	984 / 1364	1006 / 1120	1120
D Width mm/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 / 2564

### TECHNICAL FEATURES

Mars K105 AR		Mars L80 AR	
<b>ENGINE</b>		KLB07AV800 CR-TE4	
Number of cylinders	4 in-line	Kohler KD2504 TCR	
Displacement (cm³)	3,789	2,482	
Intake	Turbo	Turbo / Intercooler	
Fuel system	Direct Injection "Common rail"	Stage 3B	
Emission level	Stage 3B	Counter-balance shafts	
Balancing	Counter-balance shafts	55.4 / 75.3	
Power (kW/hp)	72.1 / 98	2,300	
Rated speed (rpm)	2,400	330 / 1,500	
Maximum torque (Nm/rpm)	330 / 1,500	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	
Speed management		Liquid	
Cooling		54	
Tank capacity (lt)		Swinging integral chassis OS-FRAME with central articulation	
CHASSIS		Four wheel drive, permanent	
DRIVE		3x2 speeds synchronized gearbox: 16 FWD and 16 REV with synchronized reverser	
TRANSMISSION		Multidiscs in oil bath with hydraulic control	
Transmission clutch		Simultaneous front and rear differential lock with electric-hydraulic control	
DIFFERENTIAL		Front and rear with epicyclic reduction units. Front axle, oscillating in the middle (approx. ±15°)	
AXLES		Independent from the gearbox and synchronized with forwarding speed. Engageable under load with brake in disengaged position	
REAR PTO		Multidiscs in oil bath with electro-hydraulic control	
PTO clutch		Standard: 540/540E - Optional: 540/1,000	
PTO rotation speed (rpm)		Double circuit with independent pumps and heat exchanger	
HYDRAULIC SYSTEM		33	
Flow rate to the lift and the control valves (lt/min)		30	
Flow rate to the hydrogules and the electro-hydraulic controls (lt/min)		optional oversized pump with flow rate 49 lt/min	
Medium 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 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 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 linkages		Standard: standard couplers cat. 1 and 2. Optional: quick couplings, L-shaped, cat. 1 and 2, arms with adjustable height 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 linkages		Rigid with quick-couplings cat. 1	
Lifting capacity (kg)		800	
DRIVING PLATFORM		Monodirectional or Reversible with ridding 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: "Knap Seating"	
SERVICE BRAKES		Multidiscs 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 divider for steering unit	
SAFETY		Front homologated roll-over with gas springs for an easy lowering and lifting	
INSTRUMENT PANEL		With TFT colour display to check: working time, engine 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	
TIRES (standard)		250/80R18	
Optional		11.50R-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	
OPTIONAL		Front bumper, Beacon lamp, Front weight and weights for wheels	
		2,090	



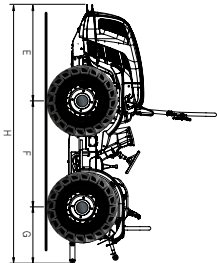
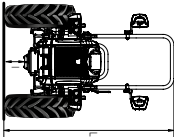
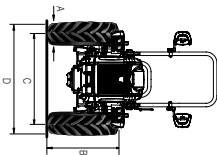
# Mars RS

## K105 | L80

	340/65R18	280/70R18	320/65R18	250/65R20	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 ST6	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	381
B Tyre diameter (mm)	975	958	800	800	968
C Wheel track min/max (mm)	1134 / 1618	1134 / 1618	1280 / 1374	1280 / 1374	1240 / 1400
D Width min/max (mm)	1450 / 1934	1477 / 1961	1628 / 1742	1654 / 1788	1631 / 1791

Dimensions Mars K105   L80 RS (mm):					
E	F	G	H	I min/max	L min/max
1348	1450	927	3725	184 / 204	2254 / 2264



TECHNICAL FEATURES			Mars K105 RS	Mars L80 RS
<b>ENGINE</b>	Number of cylinders		4 in-line	4 in-line / 16 valves
	Displacement (cm³)		3,789	2,482
	Intake		Turbo	Turbo / Intercooler
	Fuel system		Direct Injection "Common rail"	Direct Injection "Common rail" - 2000 bar
<b>Emission level</b>	Stage		Stage 3B	Stage 3B
	Counter-balance shafts			Counter-balance shafts
<b>Power (kW/hp)</b>			72.1 / 98	55.4 / 75.3
<b>Rated speed (rpm)</b>			2,400	2,300
<b>Maximum torque (Nm/rpm)</b>			330 / 1,500	300 / 1,500
<b>Speed management</b>			Electronically regulated with a console with functions: increase and decrease of engine speed, manoeuvre and recall a particular speed or switch of the electronic throttle and go to the minimum idle speed	
<b>Cooling</b>			Liquid	
<b>Tank capacity (lt)</b>			54	
<b>CHASSIS</b>			Swinging integral chassis OS-FRAME with steering wheels	
<b>DRIVE</b>			Four wheel drive, permanent	
<b>TRANSMISSION</b>			32 speeds synchronized gearbox, 16 FWD and 16 REV with synchronized reverser	
<b>DIFFERENTIAL</b>			Multidisc in oil bath with hydraulic control	
<b>AXLES</b>			Simultaneous front and rear differential lock with electric-hydraulic control	
<b>REAR PTO</b>			Front and rear with epicyclic reduction units. Front rate, oscillating in the middle (approx. ±15°)	
<b>PTO clutch</b>			Independent from the gearbox and synchronized with forwarding speed. Engageable under load with brake in disengaged position	
<b>HYDRAULIC SYSTEM</b>			Multidisc in oil bath with electro-hydraulic control	
<b>Flow rate to the fit and the control valves (l/min)</b>			Standard: 540/540E - Optional: 540/1,000	
<b>Flow rate to the hydraulic and the electro-hydraulic controls (l/min)</b>			Double circuit with independent pumps and heat exchanger	
<b>Medium hydraulic pressure (bar)</b>			33	
<b>Flow rate to the fit and the control valves (l/min)</b>			30	
<b>Medium hydraulic pressure (bar)</b>			Optional oversized pump with flow rate 49 l/min	
<b>REAR CONTROL VALVES</b>			180	
<b>Standard</b>			Mechanical control	
<b>Optional and replacing the standard ones</b>			1 single acting and 2 double acting	
<b>ELECTRIC SYSTEM</b>			1 single acting, 1 double acting and 1 double acting with heat or 3 double acting	
<b>Rear power outlets</b>			Battery 100 Ah / 12 V - Alternator 95 A	
<b>REAR LIFT</b>			7 pin and 3 pin	
<b>Three-point linkages</b>			Standard by two external arms - Optional position and draft control	
<b>Three-point tie bar</b>			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	
<b>Ball joint lifting capacity (kg)</b>			Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm	
<b>FRONT LIFT (optional)</b>			2,300	
<b>Three-point linkages</b>			By two external arms with front protection and 2 double acting control valves	
<b>Lifting capacity (kg)</b>			Rigid with quick couplings cat. 1	
<b>DIVING PLATFORM</b>			800	
<b>Steering wheel</b>			Monofunctional or Reversible with ridding platform and duplicated pedals	
<b>Seat</b>			With adjustable height	
<b>SERVICE BRAKES</b>			With safety belt and / or man on board sensor - Standard: comfortable sprung seat, adjustable according to the driver's weight. Optional: "Velo Seating"	
<b>STEERING</b>			Multidisc in oil bath with mechanical control, acting on the rear wheels	
<b>SAFETY</b>			Acting on service brakes	
<b>INSTRUMENT PANEL</b>			Hydroelastic steering acting on front wheels. Reversible version with flow detector for steering unit	
<b>TYRES (standard)</b>			Front homologated roll-bar with gas springs for an easy lowering and lifting	
<b>TOW HOOKS (standard)</b>			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. Arrows indicate with engine speed, engine coolant temperature and fuel level. Warning lights and acoustic alarm	
<b>Optional</b>			280/70R18	
<b>WEIGHT In order of speed</b>			340/65R18 - 320/65R18 - 250/65R20 - 300/70R20 - 320/70R20 - 340/65R20 - 31x15,50-15 XTC o ST6 - 13.6-16 Garden	
<b>OPTIONAL</b>			Rear CUNA and front	
<b>With roll-bar (kg)</b>			Rear tow hook, EC approved or EC approved (Slifer type) or CUNA (Slifer type)	
			2,150	2,000
			Hydraulic suspension with accumulator including 1 flow regulator, 1 double acting and 1 double acting with heat (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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