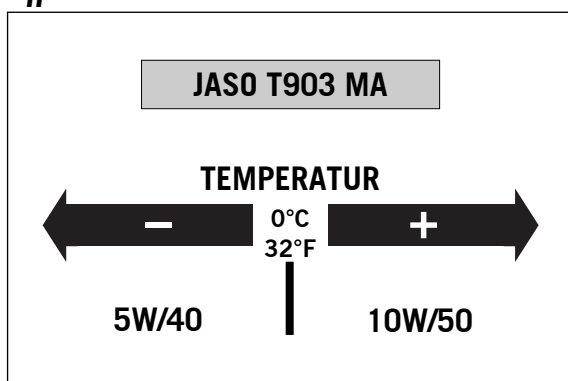


# TECHNICAL SPECIFICATIONS – ENGINE »

ENGINE	625 SXC / SMC
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft
Displacement	625 cm <sup>3</sup>
Bore / Stroke	101 / 78 mm (3.97 / 3.07 in)
Ratio	11.7 : 1
Fuel	unleaded fuel with at least RON 95 (USA = Premium RON 91)
Valve timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain
Camshaft	249/1
Valve diameter	Intake: 36 mm (1.41 in) Exhaust: 32 mm (1.26)
Valve clearance cold	Intake: 0.12 - 0.15 mm Exhaust: 0.12 - 0.15 mm
Crank shaft bearing	2 cylinder roller bearing
Connecting rod bearing	needle bearing
Top end bearing	bronze bushing
Piston	forged aluminium alloy
Piston rings	1 compression ring, 1 taper face ring, 1 oil scraper ring
Engine lubrication	two Eaton-oilpumps
Engine oil	see table #
Engine oil quantity	appr. 2.1 liters including frame
Primary ratio	straight geared spur wheels 31 : 79 teeth
Clutch	multi disc clutch in oil bath
Transmission	5-speed claw shifted
Gear ratio	1 <sup>st</sup> 14:35 2 <sup>nd</sup> 15:24 3 <sup>rd</sup> 18:21 4 <sup>th</sup> 20:19 5 <sup>th</sup> 22:18
Ignition system	contactless DC-CDI ignition with digital advanced system type KOKUSAN
Ignition timing	adjustment to max. 38° BTDC at 6000 rpm
Generator	12V 200W
Spark plug	NGK DCPR 8E
Spark plug gap	0.9 mm
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanic driven water pump
Cooling liquid	1 liter, 50% antifreeze, 50% distilled water, at least -25°C (-13°F)
Starting equipment	kick - electric starter

## #



### Engine oil

Only use fully synthetic engine oils that meet the JASO MA quality requirements (see information on the can). KTM recommends Motorex Power Synt 4T in the 10W/50 viscosity (for temperatures over 0°C, 32°F) or 5W/40 (for temperatures under 0°C, 32°F).

**! CAUTION**  
Poor oil quality or minor quantity cause early engine-wear.

## TECHNICAL SPECIFICATIONS – ENGINE »

BASIC CARBURETOR SETTING	
	625 SXC/SMC
Type	Keihin FCR-MX 4138A
Carburator-setting number	4138A
Main jet	165
Jet needle	OBDVT (OBEKR)
Idling jet	42 (45)
Main air jet	200
Idling air jet	100
Needle position	5 <sup>th</sup> from top (4 <sup>th</sup> from top)
Starting jet	85
Mixture control screw open	2
Slide	15
Performance restrictor	slide stop
Stop pump membrane	858 / 2.15 mm
Hot start device	3.8 mm