

# YAMAHA V-MAX 4 800 -95

## Engine Basic Spec

Bore	65mm
Stroke	59.6mm
Con-Rod	110mm
Total cc	790.93cc
Bore/Stroke Ratio	1.090
Rpm Peak HP	8250rpm
HP,max	151.4hp
Rpm Peak Torque	8000rpm
Torque,max	98.1lb-ft
BMEP Hp Peak	148.5psi
BMEP Hp peak	10.23bar
Piston Speed	16.32m/s
Piston Speed	3213ft/min
Fuel Flow	95.2
Air Flow	212.6
A/F	10.4
BSFC	0.65

## Head Basic Spec

Geometric CR/1	
Trapped CR/1	
Used Head Gasket	0.5mm
Head Gasket Bore	mm
Deck Clearance	0.4mm
Head Step Cut	0.9mm
Total Squish Clea.	1.8mm
Head Bore	65.7mm
Used Cylinder gasket	mm
Est. Crank Press.	psi
Est. Octan R+M/2	

## Head Volume

Gasket Volume	
Deck Volume	
Port Closed Vol.	
Head cc Flat Plate	20.3
Head cc Installed	

## Head Design

Type	central
Bowl Width + ble. rad.	47.3mm
Squish Width	9mm
Squish Angle	11°
SAR	0.4816
Total deep	15.66mm
Head width	33.9mm

## Head Squish Action

Squish Velocity	16.3m/s
Squish Pressure Ratio	1.056
At deg btcd	12.15°
Kinetic Energy	2.23mj

## Std. Piston Spec

Skirt Length	mm
Pin c. to up length	mm
Pin c. to down length	mm
Pin c. to trans inlet	mm
Wrist-Pin diameter	mm
Thickness of Rings	2 *
Dome Height	
Dome average Radius	
Dome Ang under Sq.band	°
Dome volyme,cc	3.6
Weight Pist. + Ring	g
Weight wrist pin	g

## Intake Port Spec

Carb flange diam.	mm
Port intake diam.	mm
Dist. to top	mm
Dist. to bottom	mm
Port open mm	
Number of ports	
Width of each	mm
Width total	mm
Upper right radius	R
Lower right radius	R
Port area	mm <sup>2</sup>
Time-Area	
Angle-Area	
Duration	°
A.T.D.C	°
% of bore width	%
Est. Carb size on area	mm
Est. carb size on cc/rpm	mm
Intake gas velocity est.	fps
Estimated HP	hp
Estimated Bmep	psi

## Transfers Spec

Main port roof to top	47mm
M-port liner width	26.8mm
M-port chordal width	26mm
M-port angle up	19°
5-Port roof to top	48mm
5-port liner width	24.2mm
5-port chordal width	25mm
5-port angle up	18°
Boost Port width	15.7mm
Boost Port angle up	30°
Total area	1434mm <sup>2</sup>
Time-Area	12.34
S-sg mm	2.44
Good to bmep/hp = over design	
Opens	117.05°
Duration	125.9°
TAW T/B ratio (ch)	1.7
TAW T/B ratio liner	1.81
Trans Inlet	99.5

## Exhaust Spec.

Dist. to top	30.7mm
Upper radius	13
Lower radius	15.5
Max width	45mm
Blowdown width	43.8mm
Sub ports	b8 * h6.4
% of bore width	69.2%
Port type	Trapezoid
Port Opens	83.15°
Duration	193.7°
Blowdown deg.	33.9°
Total Area	1220mm <sup>2</sup>
Blowdown Area	754mm <sup>2</sup>
Lower Area	466mm <sup>2</sup>
Time-Area	15.91
Time-Area,blowdown	10.68
S-sg mm	3.14
Angle-Area	7.83
Estimated HP	155.6hp
Estimated BMEP	155psi
Est. Blowdown HP	152hp
Est. Blowdown BMEP	152psi
Length of port	52mm
I.D of port	36,9mm
Estimated port i.d	mm
Exh. gas velocity est.	fps

## Carburator Spec

Typ	VM
Main Jet on dyno	141.3
Mj based on Barometric	29.85
Mj based on air temp,c	25+
Jet Needle	
Needle Jet	
Throttle valve cut.	
Pilot Jet	
Air Screw	

## Ignition Spec

Btdc at 3000 rpm,mm	
Btdc at 3000 rpm,deg	°
Btdc at 7500 rpm,mm	
Btdc at 7500 rpm,deg	°
Spark plug	
Spark plug gap	
Cdi box id. #	
Alternator output	watt

MULLE Wednesday 3 January  
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portade höjd 29.5 ink dc + r11