

Flex Fuel Ski-doo



veight XP chassis

empoirect injected (SDI) 600cc 2-

UW-P CSC Design Goals

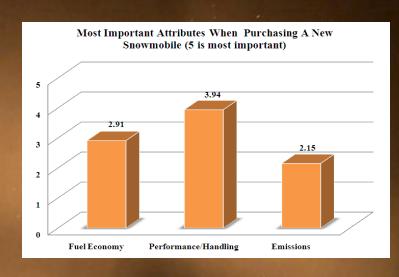
- Flex Fuel compatible
 - Tuning/calibration
 - Fuel System Upgrades
- Quiet
 - Sound deadening material (panels and engine intake)
 - Exhaust designramic coating

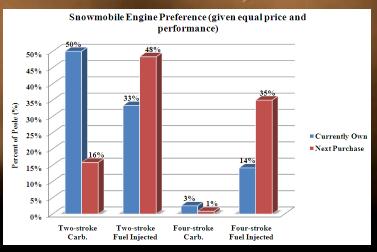
vay catalyst
croSquirt
closed loop ox gen sensor
Auto tune
dly
c start
se
mic rider position
annee oriented

Design Considerations

- Hard Core Sledder (HCS) survey
 - 105|Snowmobile enthusiasts surveyed
 - Consumers showed highest demand for:
 - Performance
 - Handling

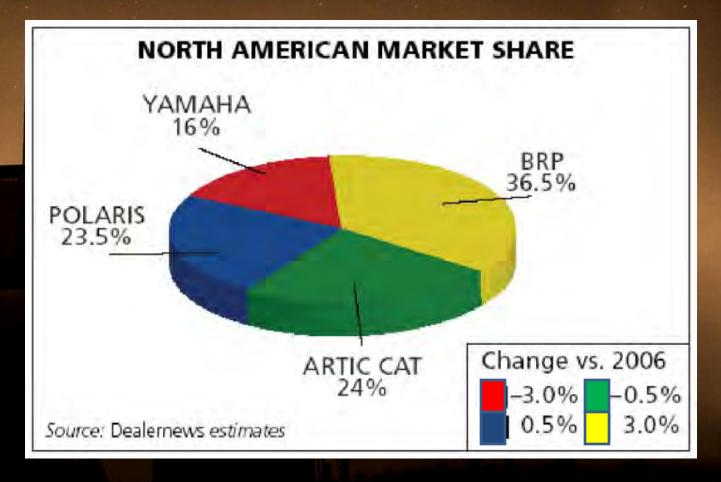
owmobile enthusiasts surveyed pers showed future interest in:
hjected two-stroke snowmobiles





Market Share breakdown:

-BRP (Ski-Doo) dominates



4-Stroke versus 2-Stroke

- Fuel Consumption on E-85
 - 2008 UW-P 2-stroke: 12.97
 - 2008 CSC best 4-stroke: 14.27
 - er to Weight Ratio
 - 009 UW 2-Stroke 0.20 hp/lb
 - 8 Top Four Stroke: 0.17 hp/lb

Chassis and Engine

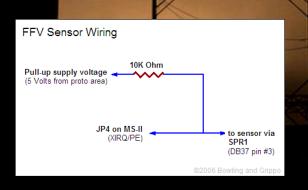
- Chassis
 - Ski-Doo Rev XP
- Engine
 - Rotax 594cc H.O. SDI
 - vo-stroke
 - op scavenged, semi-direct
 - ected reed valve with tuned
 - he
 - ax advanced variable
 - ust system (R.A.V.E.)
 - rb power-to-weight





Fuel Delivery Management

- MicroSquirt
 - Fuel injection controller
 - Code written in the C programming language osed loop oxygen sensor feedback icorporates Continental Flex Fuel Sensor





Fuel Delivery Calibration

- Test engine
- DYNOmite dynamometer





Engine Optimization

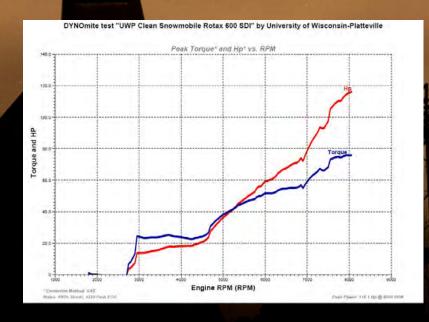
- RK-Tek cylinder head
- Radial ribbed domes
 - Pump gas, 2-3 peak hp, 10 % less fuel

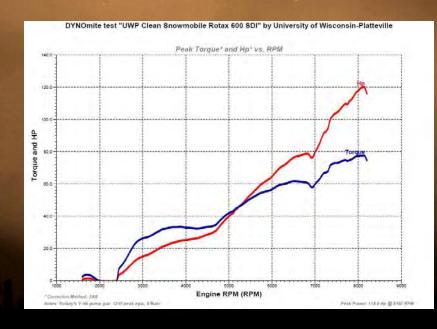


Stock Vs RK-Tek Pump 93 E10

- Stock
 - Peak HP 116.1

- RK-Tek
 - Peak HP 119.9





Sound Reduction

- Engine
 - Ceramic coated exhaust system
 - Catalyst

take foam

anel Insulation

tom panel inser

aust outlet direction

Other Considerations

- Studs
- Hiperfax slides
- Dual Runners
- atron monitoring system



og wheels





Benefits

- Rider
 - Incredible power to weight
 - Easy to handle, fun to ride
 - ler/Outfitter
 - ompetitive MSRP given implemented technology
 - peals to all types and age groups of riders
 - onmental
 - and by drocal on emissions

Thank you!



outstions?