

Automotive

MOTORCYCLE FRAME



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The main frame of the Highland 450cc Supermoto is made from austenitic HyTens1200® (1.4310 C1200) while the engine cradle and rear sub-frame are made from duplex LDX 2101® (1.4162) box sections.

Both of these high-strength stainless steels have excellent formability in the cold condition. This means there are few limitations to component shapes, allowing considerable weight savings in the structure.

LDX 2101® tubing features a combination of high-strength and formability, unmatched by competing tubular products. They also require no surface treatment. The chassis weight is 20% lower than that of the best rival motorcycles.

Location | FINLAND

Environment | OUTDOOR

Product

Fabrication process | FORMING, BENDING AND WELDING

Grade/surface | 1.4310 C1200, 1.4162

Material thickness/diameter

Weight

Competing material | ALUMINIUM, CARBON STEEL

Date of Completion | 2006

Manufacturer | HIGHLAND GROUP AB

Material Supplier | OUTOKUMPU

Source of Information | OUTOKUMPU

Remarks

