

AVANT-TECH

Decagonal boom profile

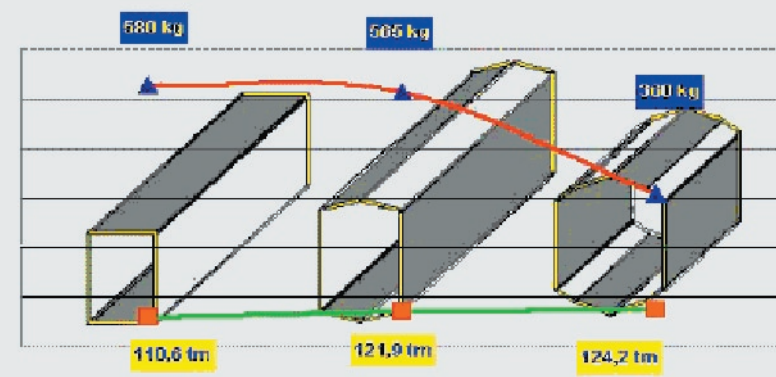
The very high tensile strength steels, which were first explored by EFFER engineering back into the 80s, has proved that the best results in terms of weight gain are achieved when the booms section is purposely redesigned for such materials. In other words, keeping the original design of a component and just switching the steel grade to a higher level does not provide the best productivity in terms of weight.

This is why EFFER developed in 2001 a new exclusive design of the booms, featuring a ten-sides (decagonal) profile. The additional numbers of folds grants the necessary rigidity to the boom structure, and the results are well shown in the graph below that shows how the weights (red curve) could decrease while actually increasing (blue curve) the lifting moment of the first extension on a 110 Ton/Meter class crane.

- The weight saving was up to 61 % on that specific part
- While the lifting moment of the same part was increased by up to 12 %.



Incremento Peso/Prestazioni derivante dal Profilo Decagonale SRII
Weight/Performances Gain due to the Decagonal Boom Profile
Gain en Poids/Performances apporté par les Bras de Profil Decagonal



310	325	340	370	500	550	750	850	1550J-P	1750								
●	●	●	●	●	●	●	●	●	●								

● Standard ● Optional



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