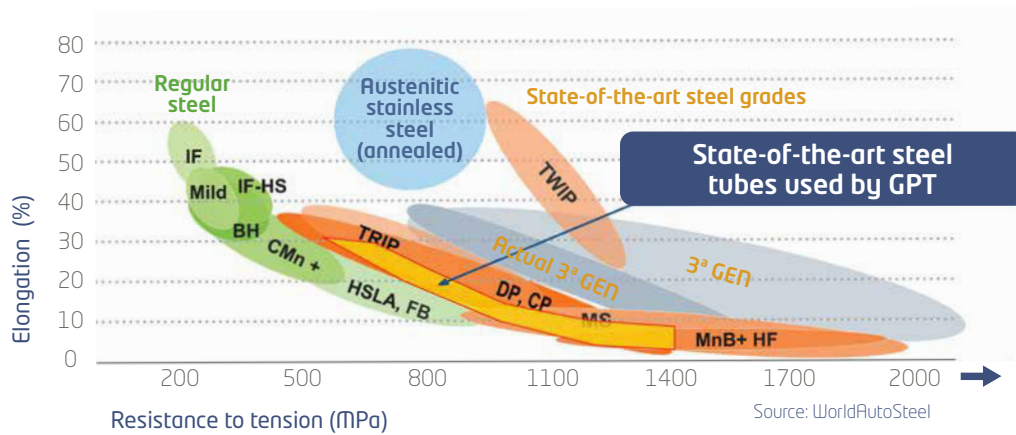


3 State-of-the-art steel tubes

Stress-deformation diagram in flat steel products



Product Range			
Steel grades	Type of tube	Dimensions range	Thickness range
HCT590X CR330Y590T-DP	Round	Ø10 - Ø70	≤ 3 mm
	Square	16x16 - 50x50	≤ 2,5 mm
	Rectangular	16x10 - 80x30	
	Oval	25x10 - 60x20	
HCT780X (CR440Y780T-DP) HDT760C (HR660Y760T-CP)	Round	Ø15 - Ø70	≤ 3 mm
	Square	20x20 - 50x50	≤ 2,5 mm
	Rectangular	25x15 - 80x30	
	Oval	30x15 - 60x20	
HCT980X CR590Y980T-DP	Round	Ø15 - Ø70	≤ 2 mm.
	Square	25x25 - 50x50	
	Rectangular	20x15 - 80x30	
	Oval	30x20 - 50x25	
DP1200M (CR950Y1200T-MS) DP1300M (CR1030Y1300T-MS) DP1400M (CR1150Y1400T-MS)	Round	Ø20 - Ø70	≤ 2 mm.
	Square	25x25 - 50x50	
	Rectangular	30x20 - 80x30	
	Oval	35x25 - 50x25	
Chemical composition	According to Standards EN 10338 y VDA239-100.		
Dimensional and thickness tolerance	According to Standard EN 10305-3/5.		
Straightness	The tube with higher straightness level: · Normal straightness: 1,5 mm/m. · Restricted straightness: 1 mm/m.		
Flatness	Flatness in tubes: · Normal flatness: <0,5 mm/m. · Restricted flatness: <0,3 mm/m.		
Twisting	Twisting level of tubes: · Normal twisting: 1,5 mm/m. · Restricted twisting: 1 mm/m.		
Remarks	Further requirements to the above detailed should be approved with a feasibility study.		