

High performance free cutting steel 44SMn28HP85



Free cutting steel grade with tensile strength comparable to Q&T grades

APPLICATION

Complex components with optimized compromise between machinability and strength.



ADVANTAGES

Excellent mechanical properties comparable to Q&T performance with FP microstructure	Without residual stresses	Free of Surface and internal defects	Guaranteed straightness
Higher UTS (830 -1020 MPa) and yield strength (>500 MPa) than cold drawn 44SMn28	No cold deformation is applied	Control of superficial defects and internal cleanliness in the entire dimensional range	Optimized for automatic turning machines

APPLIED TECHNOLOGY

- Ultimate tensile strength enhancement by microprecipitation.
- Detailed control of the manufacturing process in order to obtain a homogeneous distribution of microprecipitates.