

HSS Profiled Broach

Company: Erasteel



Application Sector: Aerospace Cutting Tools

Requirements: In aircraft engines, turbine blades must resist high temperatures and a centrifugal force of up to 18 tonnes. Therefore, blades are firmly retained on discs thanks to fir-tree profiled grooves. These profiled grooves are machined in the turbine disc through a broaching operation. Broaching is a critical machining operation where in which each tooth of the broach progressively removes some metal, to produce the final groove shape.

Benefits: When cutting the new generations of difficult-to-machine superalloys and titanium alloys, ASP® material (PM HIP HSS) is an efficient solution to ensure a longer tool life and higher productivity of the broaching tools through less micro chipping.

Diameter: 300mm

Product_hardness: 66HRC

Process Steps: HIP forged rolled and machined



NEW