

LASER APPLICATION NOTE 2150

TELESIS

ProScript[®]

Application:

Carbide and high speed steel cutting tools



Mark depth:

Surface to 0.0005 inch (0 to 0.0127 millimeters)

Material:

Carbide and High Speed Steel bare or coated

Mark Type:

Alphanumeric, Logo, 2d code

Cycle Time:

Varies for mark type. Typically less than 0.5 seconds

Laser Advantage:

High quality with high mark speed and ease of integration of logos and serialization. When marked on the shank has no adverse stress on cutting tool. Hardness of carbide is not a factor to the laser marker.

Recommended Laser: ProScript Nd:YAG 75 Watt and higher

Process Notes:

ProScript Nd:YAG a dark mark is developed on the high speed steel while the carbide will show a white mark. Surface disruption only with light matte finish is also be possible. Readability tests should be done when machine-readable codes are to be used.