## Development of High-performance Cutting Tools with Laser Micro Texture

We manifest various functions by applying a periodic fine structure with an ultra-short pulse laser to tool surfaces from the perspective opposite to "finishing tool surfaces smoothly" that is the accepted practice of conventional cutting tools.

## Suppression of Chip Adhesion in the Dry Cutting of Al Alloys



## Reduction of Tool Wear in the Cutting of Steel Materials



\*This research was conducted as a joint study with the Enomoto Laboratory of Osaka University. Enomoto Laboratory of Osaka University: http://www-cape.mech.eng.osaka-u.ac.jp/





## L.P.S. Works Co., Ltd.

409 OTA Techno CORE, 6-4-17 Higashi-Kojiya, Ota-ku, Tokyo, 144-0033 TEL : 03-3745-0330 FAX : 03-3745-0331 URL : https://www.lps-works.com E-mail : sales@lps-works.com