

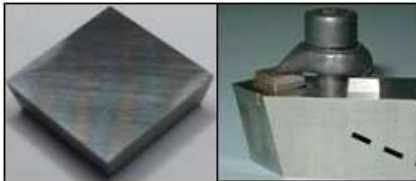


*Crimean Engineering and Pedagogical University
named after Fevzi Yakubov*

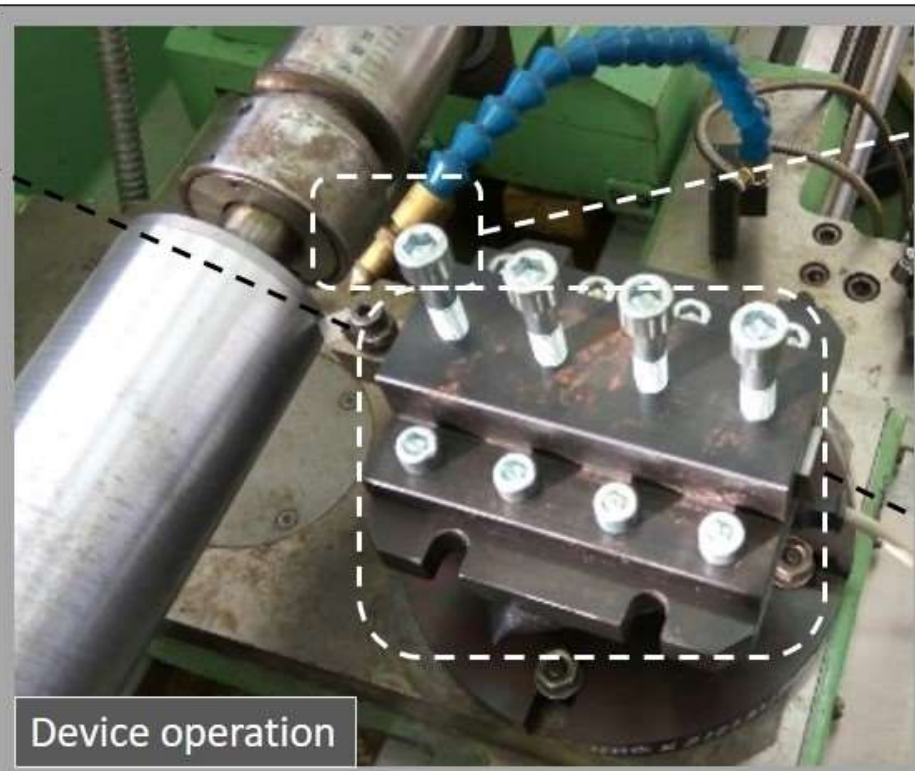
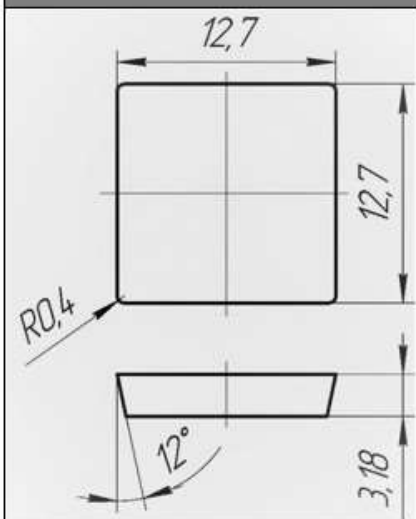
**Experimental evaluation of the efficiency of lubricating
process media during the running-in period of a metal-
cutting tool**

*Skakun V.,
Dzhemalyadinov R.,
Abdulkerimov I.*

Geometrical parameters of the cutting tool. Dynamometer (M-30-3-6k)



Cutting tool geometry



Device operation

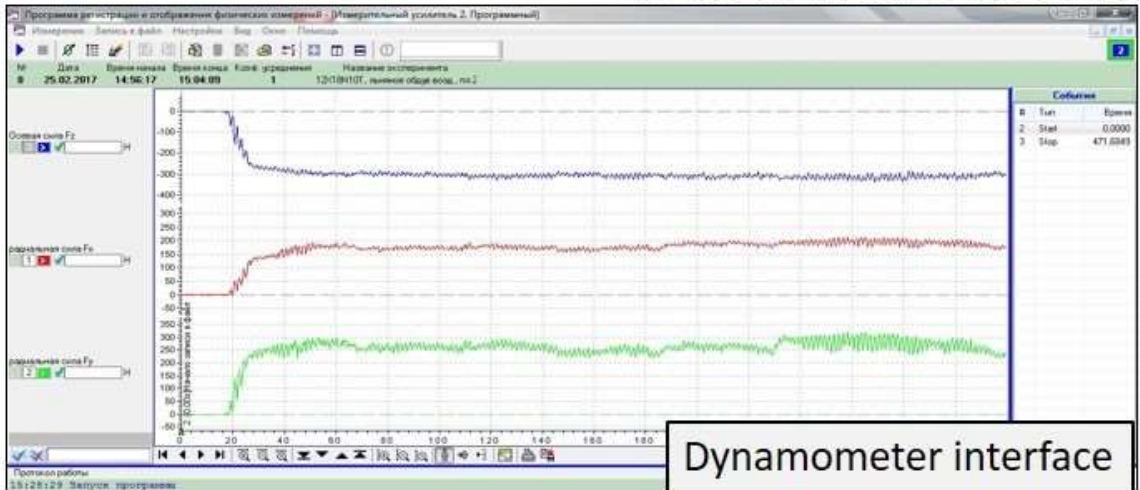


Adjustable tip



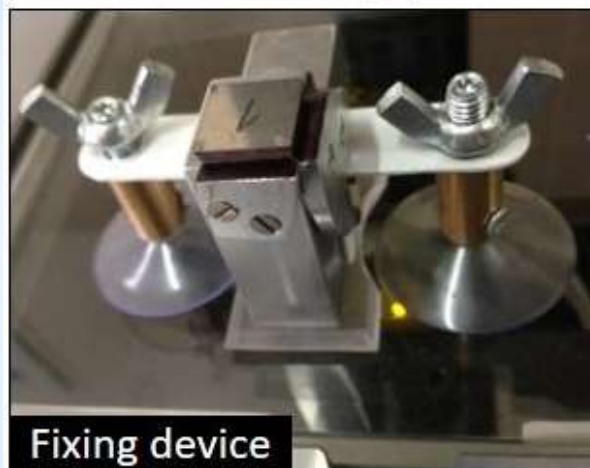
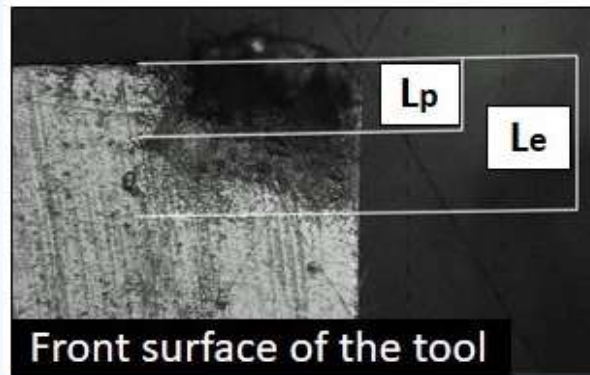
Dynamometer M30-3-6k

Material	HSS
γ	0°
α	12°
r	0,4 mm
$\varphi = \varphi_1$	45°
Hardness	63...64 HRC

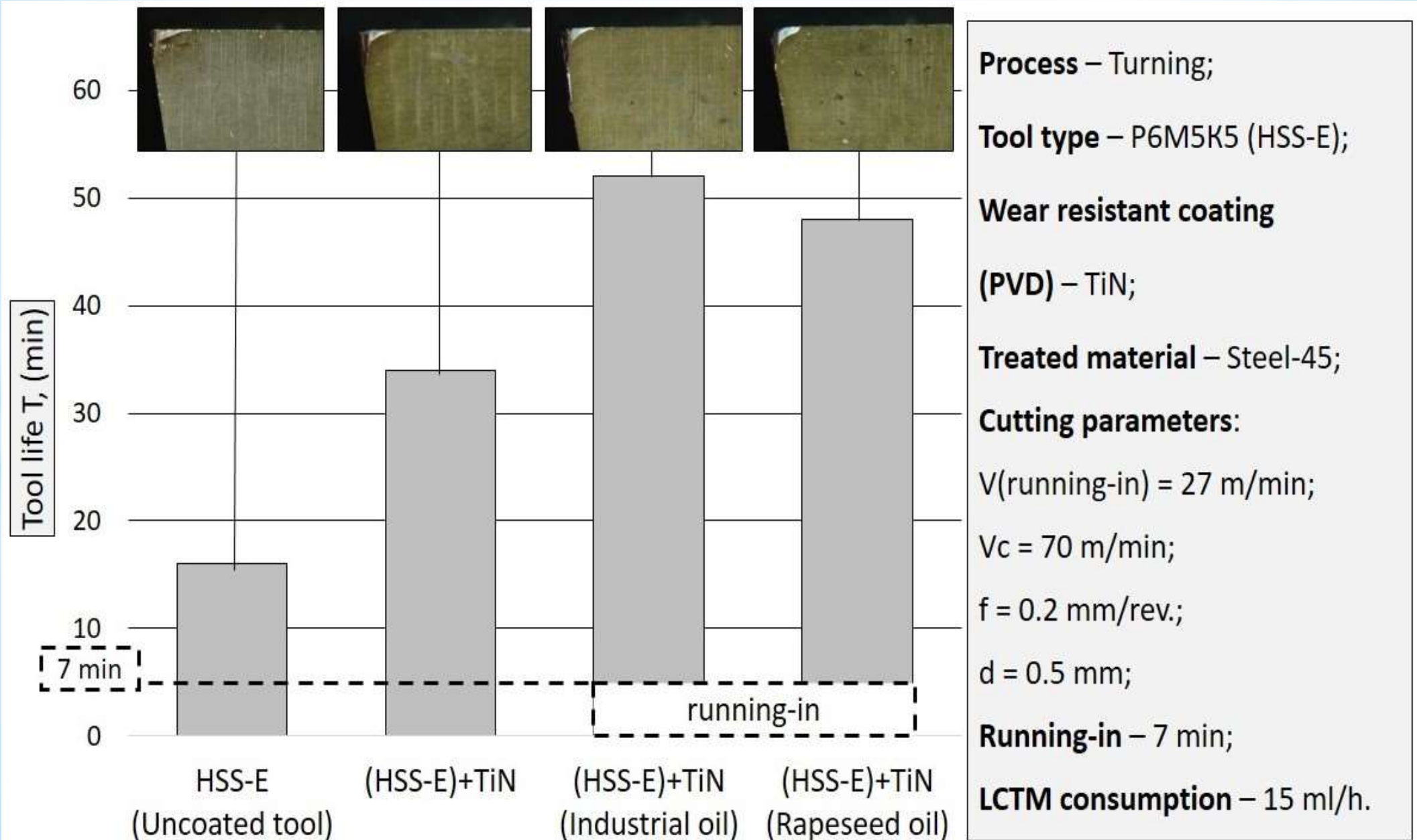


Dynamometer interface

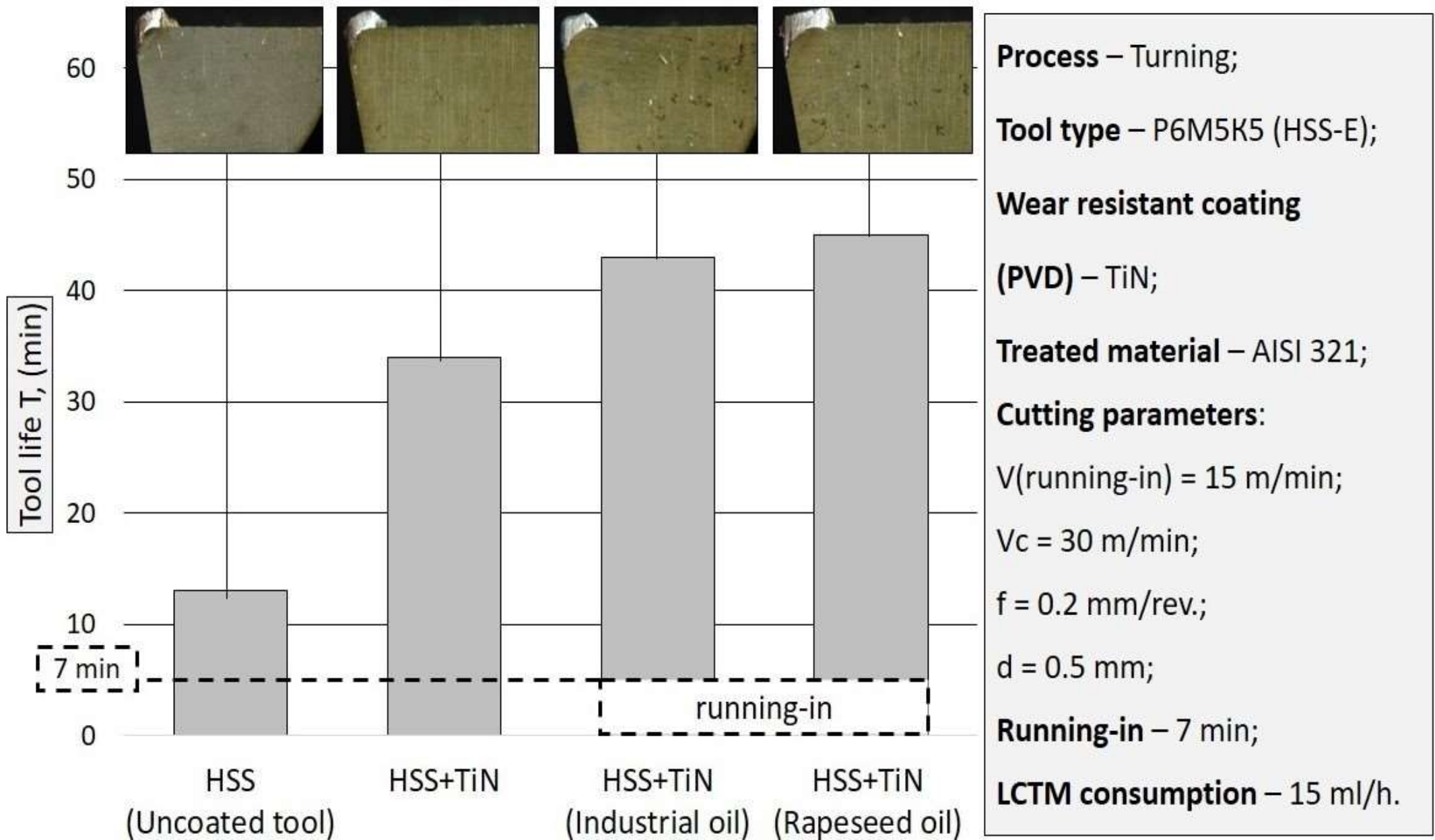
Measurement of zones of plastic and elastic contact (L_p and L_e)



The durability of the cutter made of high-speed steel P6M5K5 with "dry" turning of steel 45 after preliminary running-in in the medium of mineral and rapeseed oils



The durability of the cutter made of high-speed steel P6M5K5 with "dry" turning of AISI 321 after preliminary running-in in the medium of mineral and rapeseed oils



 **Thanks for attention**