

* 1, 1 * 1, 1 * 1, 2
1, 2()

Production of pre-form mold by Direct Metal Laser Sintering(DMLS) process

*H. P. Park¹, B. S. Cha¹, S. Y. Lee¹, O. R. Kim¹, Y. G. Kim¹, C. O. Kwon²

¹ Precision Molds Technology Team, KITECH, ² DONG-A PRECISION CO., LTD

Key words : DMLS(Direct Metal Laser Sintering), Conformal Cooling Channel, Preform Mold

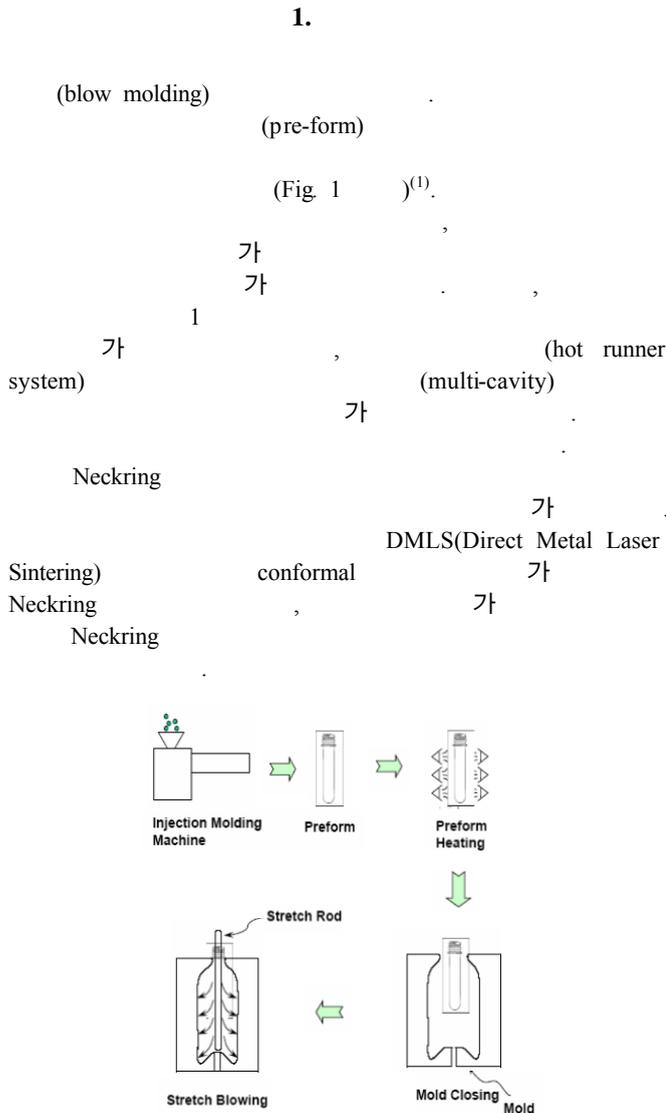


Fig. 1 Schematic drawing of blow molding

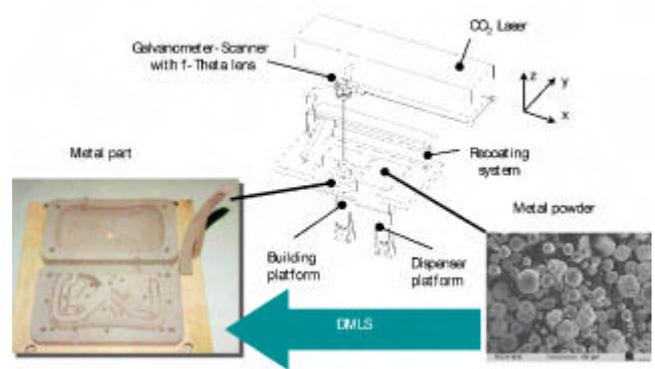


Fig. 2 Working principle of DMLS(Direct Metal Laser Sintering)⁽⁵⁾

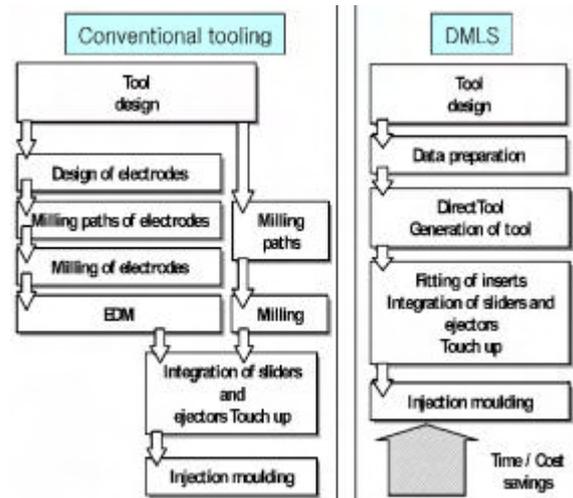


Fig. 3 Comparison of process for conventional mechanical working and DMLS⁽⁵⁾

2. DMLS

DMLS 3 CAD data (laser beam)

Fig. 2 (2,3,4) 가 가 DMLS Fig. 3 DMLS 가 가 DMLS 가 가 DMLS 가 가 DMLS

2.1 DMLS

EOS EOSINT M 250X
20um Neckring Steel 가
225HV 가
400HV Fig. 4(a) DMLS
Neckring 3 conformal Fig. 4(b)
V 가 가 DMLS 가 DMLS 가

