

IT융합 지능형 자율생산기계 연구를 위한 진동센서 활용

Application of Vibration Sensors for Intelligent Manufacturing System of IT-Convergence Research

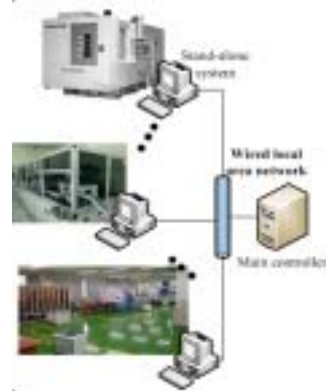
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1.

M2M

가 IT()
 2010 , IT-
 M2M(machine-to-machine)
 (1)
 가
 가
 가
 M2M



(a) conventional system

2. M2M

2.1 Machine - to - machine

Fig. 1 (a)

LAN



(b) intelligent system

Fig. 1 Manufacturing systems.

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2.2
가

M2M
가
가
(3) 가

3.

M2M

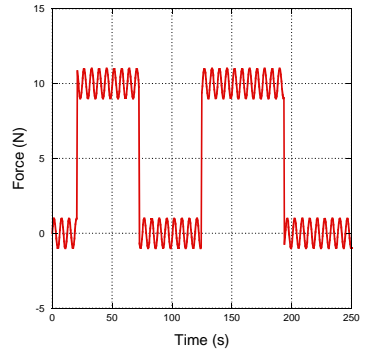


Fig. 3 Cutting force signal

4.

3.1

가
MEMS
가
Fig. 2
(4)
가
가

IT()

3.2

가
가
Fig. 3
가
가
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(NIPA-2010-C6150-1001-0004).

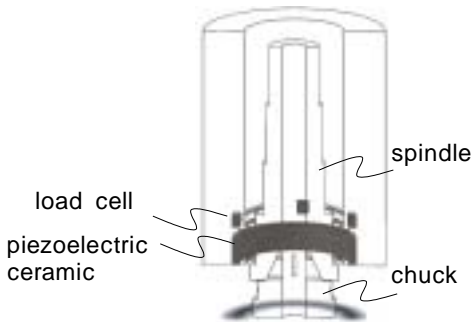


Fig. 2 diagram milling tip and sensor

(1) Kim, B. H., Ahn, H.-J., Kim, J. O., Yoo, M., Cho, K. J., Choi, D. S., 2010, "Application of M2M technology to manufacturing systems," Proceedings of ICTC 2010, pp. 519-520.

(2) Kim, D.-H., Song, J.-Y., 2008, "Mobile and remote operation for M2M application in upcoming u-manufacturing," Journal of Mechanical Science and Technology, Vol. 22, pp. 12-24.

(3) , , 2007, " , " Auto Journal, No. 12, pp. 38-46.

(4) , , 2010, " 가 , "

10-2010-0130641.