

CONTENTS

No.1008E

English Edition June 2011

FOREWORD	Passing on a Beautiful Earth to Future Generations
CONTRIBUTION	Boundary Lubrication from the Viewpoint of Surface Chemistry -Role of nascent surface on tribochemical reaction of lubricant additives-
	Iwate University, Faculty of Engineering, Department of Chemistry and Bioengineering Professor Shigeyuki MORI
SURVEY	"Monozukuri" Manufacturing in Emerging Countries····································
TECHNICAL PAPERS	Estimation of Residual Stress Distribution Induced by Shot Peening · · · · · 18 J. KUSTER T. KOBAYASHI Strategy for Transfer Elemental Designing and Employing Physical Characteristic Modeling of Steering Maneuvering (the Second Report) · · · 23 S. KIMURA S. NAKANO Development of Automatic Process Planning System for Indexed 5-Axis Machining
TECHNICAL REPORTS	Deposition Technology and Applications of DLC Films

Development of e640V3 Vertical Machining Center · · · · · · · · · · · · · · · · · · ·
K. YAMAZAKI K. TSUDA
Development of e500H Horizontal Machining Center······74
K. IMANISHI Y. OOTSUKA
Development of GC20R-63 CBN Camshaft Multi-Task Grinder78
S. YAMAGUCHI
Development of Energy-Saving High-Performance Continuous
Carburizing Furnace·····82
M. MINAMIGUCHI T. SAITOU

GLOBAL NETWORK