

광정보저장용 광픽업 대물렌즈 성형용 코어 초정밀 형상가공 (I)

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Ultra Precision Machining of Optical Pick-up Aspheric Glass Objective Lens Molding Press Core for Optical Information Storing (I)

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Abstract : Blu-ray Disk, the next generation optical information storing equipment used Blu-ray is the next generation leading storing equipment that has capacity is about from six times to thirty-five times bigger than the existing CDs, DVDs. Especially, we need elaborate optical pick-up equipment to record and recognize detailed date. Moreover, Blu-ray disk has so narrow track-pitch so it is used high NA(Numerical Aperture) aspheric glass objective lens. In this research, we processed optical pick-up aspheric glass objective lens molding press core by parallel grinding method with ultra precision machining and mold core surface measured form accuracy(PV), surface roughness(Ra).

Key Words : Optical Pick-up, NA(Numerical Aperture), Molding Press Core, Form Accuracy(PV), Surface Roughness(Ra)