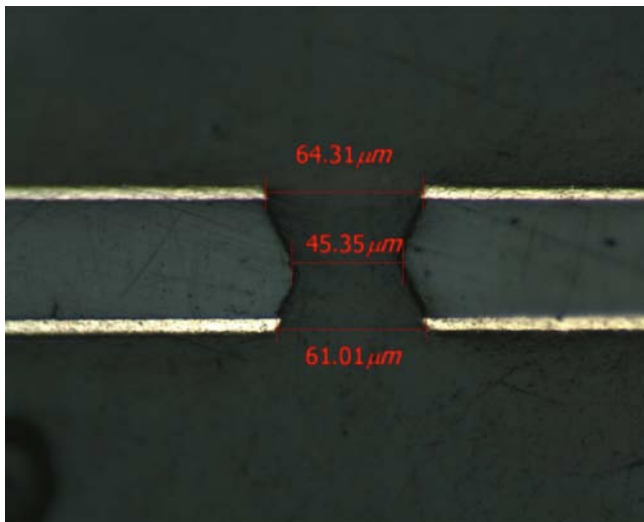


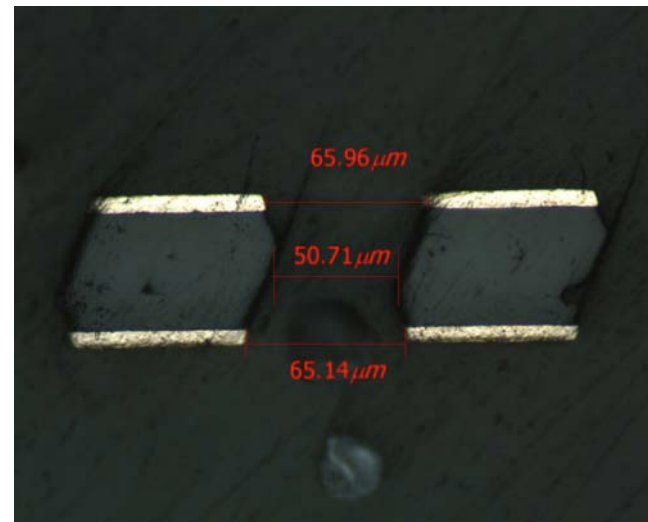
Production of large foils at Korea

Sung Park
KODEL

The First Foil of 6cm x 6cm (June, 2011)

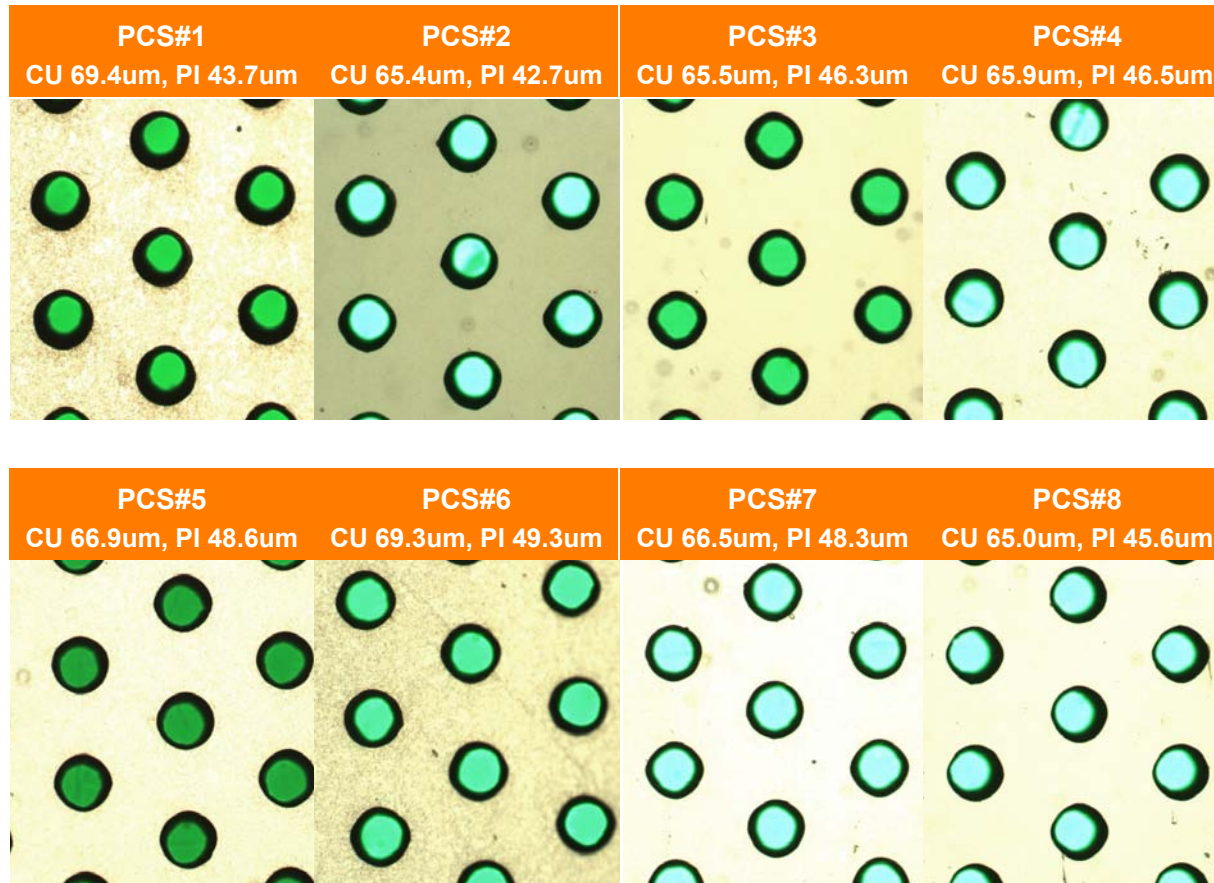


x-axis



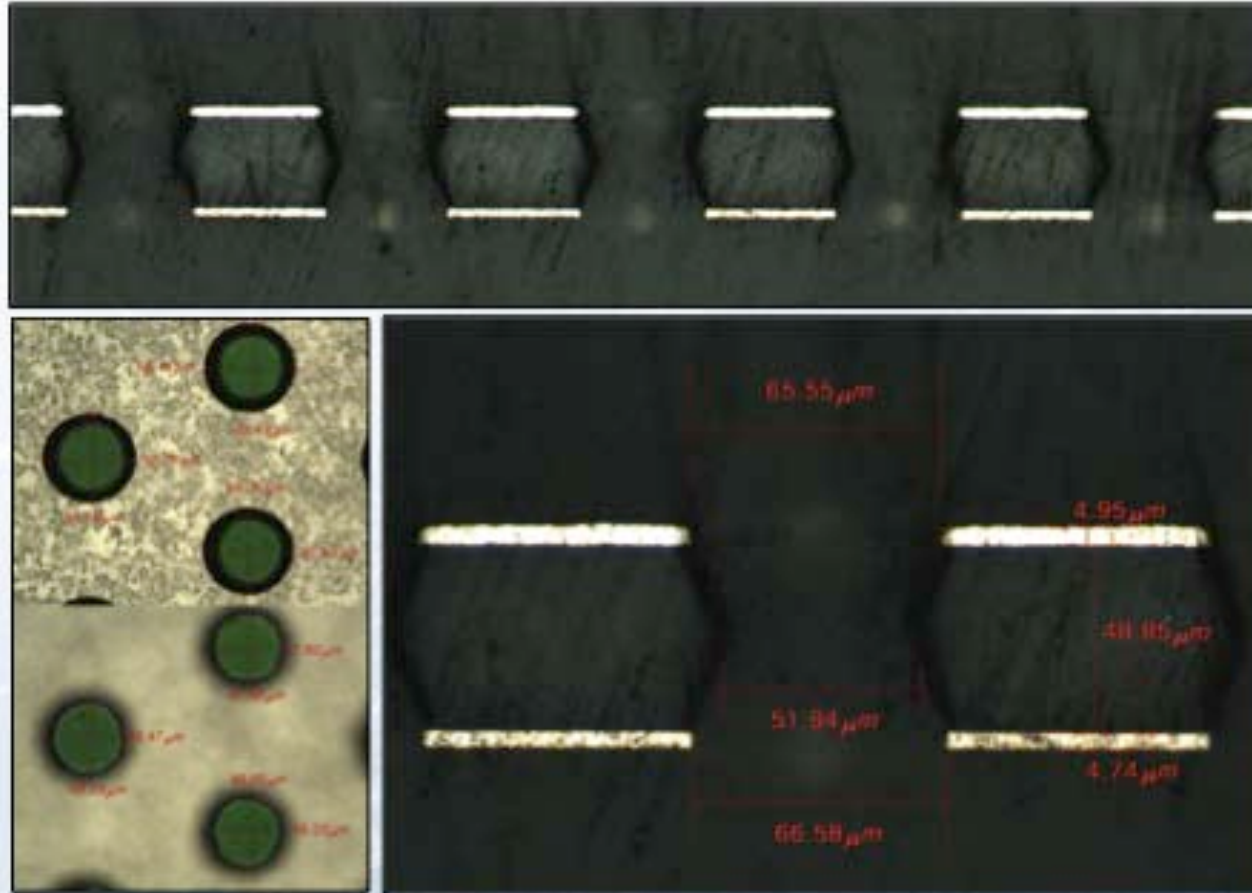
y-axis

Microscopic Images of 6cm x 6cm (June, 2011)



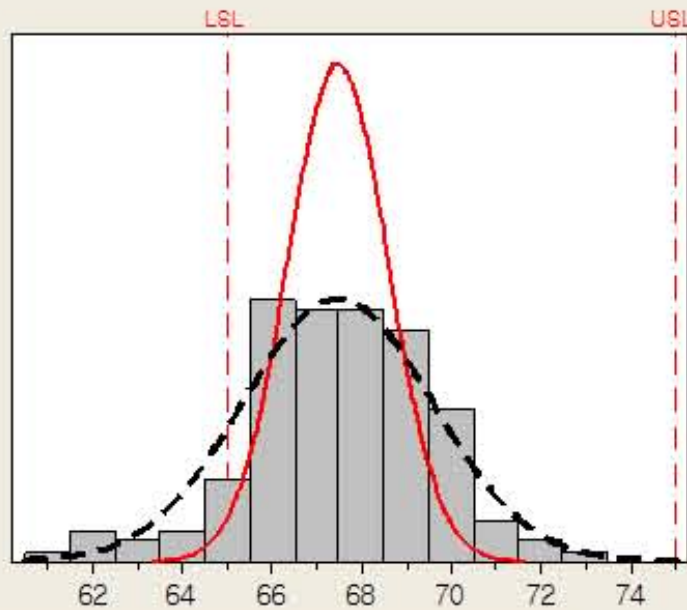
The Foils of 10 x 10 (Dec, 2011)

CROSS-SECTIONAL IMAGE



Copper Radius

공정 데이터	
LSL	65
공정 상한	*
USL	75
공정 평균	67.4751
공정 N	138
공정 편차(내부)	1.12161
공정 편차(총합)	2.12217



—	내부
- - -	전체

잠재적(내부) 공정 능력	
Cp	1.49
CPL	0.74
CPU	2.24
Cpk	0.74
CCpk	1.49

전체 공정 능력	
Pp	0.79
PPL	0.39
PPU	1.18
Ppk	0.39
Cpm	*

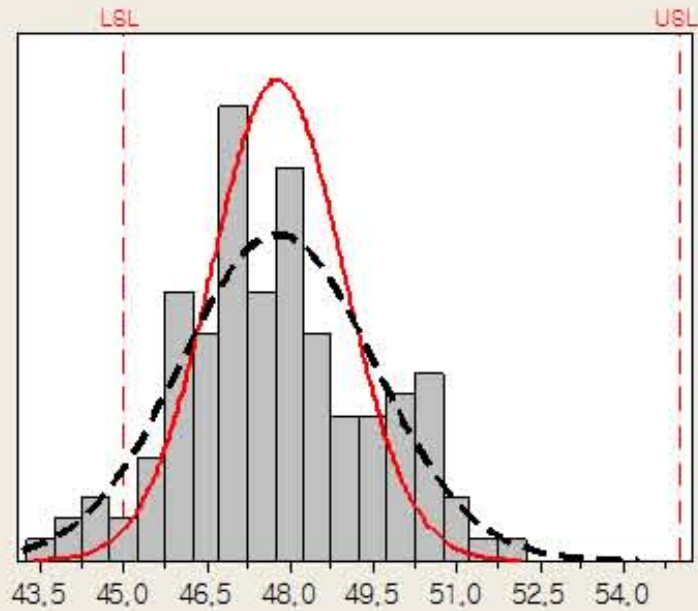
관측 성능	
PPM < LSL	94202.90
PPM > USL	0.00
PPM Total	94202.90

기대 내부 성능	
PPM < LSL	13864.69
PPM > USL	0.00
PPM Total	13864.69

기대 전체 성능	
PPM < LSL	121741.09
PPM > USL	195.89
PPM Total	121936.78

PI Radius

공정 데이터	
LSL	45
목표값	*
USL	55
표준 편차	47.7791
표준 N	138
표준 편차(내부)	1.18612
표준 편차(총합)	1.74409



—	내부
- - -	전체

잠재적(내부) 공정 능력	
Cp	1.41
CPL	0.78
CPU	2.03
Cpk	0.78
CCpk	1.41

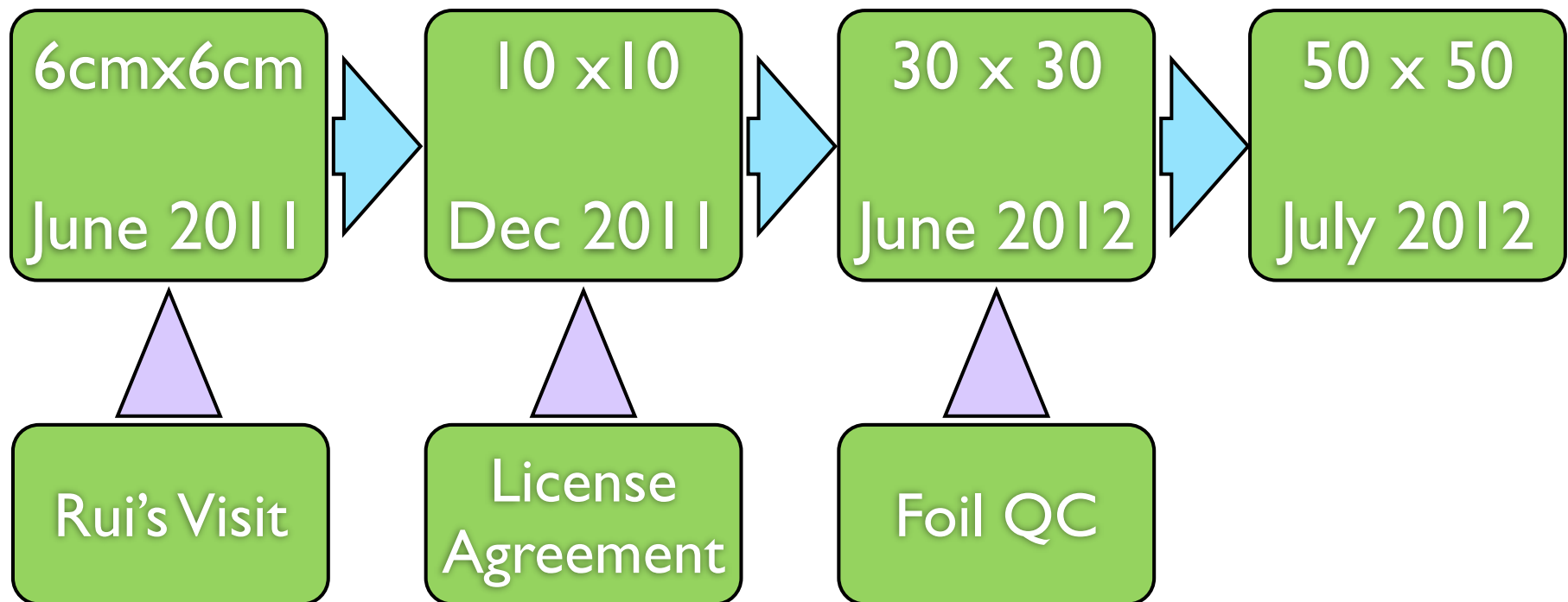
전체 공정 능력	
Pp	0.96
PPL	0.53
PPU	1.38
Ppk	0.53
Cpm	*

관측 성능	
PPM < LSL	57971.01
PPM > USL	0.00
PPM Total	57971.01

기대 내부 성능	
PPM < LSL	9585.75
PPM > USL	0.00
PPM Total	9585.75

기대 전체 성능	
PPM < LSL	55594.04
PPM > USL	17.31
PPM Total	55611.35

Roadmap to larger size foil



Conclusions

- NewFlex produces up to 10cm x 10cm
- The test results at CERN are Good
- 30 x 30 will be produced by June
- 50 x 50 will be produced by July
- NewFlex will go to the larger size