

# Status of the Barrel Hybrid Production and Delivery

(As of 28, Feb. '03)

## "PC" Hybrid

🍏 So far produced;

1089 pcs' of good "PC" hybrids  
(incl. the ones with old PA and "white" PA(159))

So far delivered to;

UK	US	Nordic	Japan	
147(47)	97(9)	33(4)	499(57)	pcs'
(with "white" PA)				

🍏 Delivery schedule update;

-----	
Mar. 2003	400
Apr. 2003	400
May. 2003	400
Jun. 2003	211
-----	
Total	2,500

## "ASIC" Hybrid

So far delivered to;

Nordic	Japan
33(4)	499(57) pcs'
(with "white" PA)	

## Recent Progress;

Jigs have been doubled recently.

Soon, we expect, the production will reach to the max. rate of 400 pcs'/month.

## "White" PA problem;

So far we have used five lots of PA. One lot contains about 200 pcs'. Those in the latest lot have an Al layer of slightly whiter and rougher surface. They seem to have a weaker Al layer. Failure rate of the bonding between PA and Si (mostly 1st bond) is claimed to be about 2% by Hamamatsu.

Although the cause hasn't been identified yet, we keep PA production under rigorous examination.