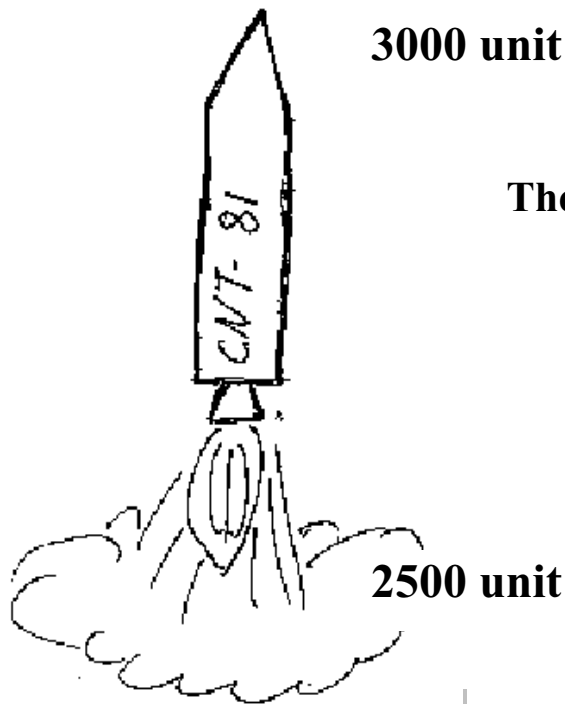




Pendulum Success Story 1



**The extra cost for the Pendulum counter
was earned back in one day!
Benefit 20% for the customer**

The benefit of using counters

One of our big customers north of Stockholm produces circuit boards for mobile radio systems. The customer needs to measure a lot of parameters, including the phase difference between the two antenna outputs from the circuit boards (specification max 6 ns difference). For this purpose, their R&D department was using a multi-purpose radio tester for all measurements. The tester could perform all measurements, within a certain time, where the phase difference measurement took a fairly long time due to the limited time interval resolution of the tester. For R&D engineers, time is not very important, but for the production manager, time is literally money. A faster test, means a higher factory throughput and higher revenues.

Our customer was at that time using the Rhode & Schwartz unit FSIO-7 for their measurements and they managed to produce about 2500 circuit boards a week. The company wanted to produce more circuit boards in a much more effective and faster way. To buy a completely new test system would, however, have cost them about 500.000 EUR.

To improve the test system, the test engineers installed a counter CNT-81 from Pendulum to measure the phase difference of the antennas. By this move, the test time per circuit board was shortened by 30 seconds. This means, that with our counter, their test system did work 20% faster than before and the company was now able to produce 3000 circuit boards a week instead of 2500. The price for a counter was earned in one day.

The conclusion of this practical example is, that in order to get faster test systems, you should let counters take over the dedicated counter measurements that they are best at, and use the expensive multi-purpose radio testers for other purposes. And remember; it is Pendulum that produces the fastest counters in the world!

Pendulum Instruments AB