

Projects

June 2004

- Project: 10-02-00187
- Location: Skien Pukkverk, Norway

NOR CRUSHER (Ltd) AS, the distributor of Buell Classifier's in Scandinavia supplied the first Buell Air Classifier System in Norway to NCC Roads A/S, Skien Pukkverk. NCC Roads A/S is the Norwegian Division of the NCC Group located in Stockholm, Sweden. The main activities for NCC are road construction, bridges, tunnels, and aggregate for asphalt and concrete. One of the most famous NCC projects is the Oresund Bridge, between Sweden and Denmark, which is one of the longest in the world at 16 kilometers. NCC Group has 26,000 employees mainly in the Scandinavian and Balticum (Baltic States) countries, as well as other European countries. They wanted to make four direct products by classifying the granite material that is the normal type of rock found all over the Scandinavian countries. These products consist of:

1. Manufactured Sand with a percentage of fines in the range of 3% to 5% for asphalt and concrete products.
2. A high quality filler passing EN-standard with good margin.
3. Fine sand cut from 63 micron to 300-1,000 micron, to filter sand and others.
4. Air field winter sand.

To accomplish this task, two Buell Air Classifiers were used in series. The first was a Model GI-90 Gravitational Inertial, that was followed by a Model C66-33 Centrifugal Classifier. This was then followed by a third stage fabric filter to collect the fines. The system design allows for some blending of the materials.



DESIGN CONDITIONS:

INLET FEED RATE:	AIR FLOW RATE:	MOISTURE OF FEED MATERIAL
60 Tons/Hr. of 0 to 2 mm granite	20,388 cm/Hr. 12,000 ACFM	2%

WHY A BUELL CLASSIFIER?

1. Series arrangement allowed multiple cuts. (Coarse, standard and fine).
2. Produces a dry product, which permits easy blending of the materials.
3. No moving parts.
4. No settling ponds.

FIELD RESULTS

The Buell Classifier System is working excellent with this type of rock and will meet the hardest new European specifications and market requirements.