

METFLOW – A Rethink of Diamond Final Recovery Plants

CONSULMET and Flow Sort (Pty) Limited's unique partnership in the design of complete final diamond recovery plants, as explained by Peter Wolf of Flow Sort:

"Final Recovery' is a well-understood term in the diamond mining industry. After all this is the stage where the results of the efforts that went into finding diamonds become visible and measurable!

A lot of costs are incurred in the process of bringing diamondiferous material to the "final recovery". The worst thing that can happen in this final phase of diamond mining is that diamonds remain un-recovered or end up in the wrong hands.

A final recovery is made up of several process stages. These stages vary from mine to mine depending on material type, size-range and volume to be treated, as well as the types of and conditions of the diamonds in the feed.

All diamond recoveries however have one thing in common; they ensure that all diamonds are securely, efficiently and cost effectively recovered.

The dilemma for diamond miners and diggers alike is to choose the **right** components for their particular application and to ensure that all these components work together with maximum efficiency.

There are many suppliers around the world that market and sell such components, each one claiming that their product or process is the best.

Diamond recovery is a relatively simple process when viewed upon in basic terms. However, once examined in detail, it appears to be a rather complex process with many hidden pitfalls. Each component must complement the other to ensure a smooth and homogenous overall plant performance.

Misleading sales talk offering the incorrect equipment for the job, as well as lack of understanding of diamond recovery processes by many suppliers, often results in poor performance and uneconomical final diamond recovery.

A further common problem is the lack of cooperation between suppliers of different diamond recovery processes and equipment, which typically results in a less than optimized overall recovery performance. To top it all there is often a lack of after sales service. Each supplier of plant components blames the other when things go wrong, resulting in the unlucky customer sitting with the costly and frustrating task of sorting out "his own problems".

We at METFLOW provide a ONE-STOP-SERVICE. We don't just supply a variety of recovery plant components, but we design and supply turnkey final diamond recoveries; AND we provide COMPLETE after-sales service and back-up.

METFLOW enjoys the support of some of the world leading experts in diamond recovery. Our staff comprises highly skilled and dedicated process engineers, electronic engineers, machine and plant designers backed by a state of the art CAD facility.

All components that make up our recovery plants are designed to provide a fully integrated process guaranteeing optimal results. All our plants are state of the art in design and utilize only the best available equipment for the job; be it for fully mobile or, semi-mobile plants; be it for fixed installations or offshore operated marine diamond recovery installations.

We offer over 35 years of experience in final diamond recovery equipment and plant design and manufacture. Over these years many of our innovations have been trend-setting for the diamond recovery industry. Today our equipment is installed in diamond mines in no less than 15 countries around the world.

Amongst our expertise you find:

X-Ray Diamond Recovery Technology

Optical Diamond Detection Technology

Grease based Diamond Recovery Technology

DMS Technology

Jigging, Screening, Washing, Scrubbing, Drying, Hand-Sorting

SADA Plant Control (Remote and Local)

Security and Surveillance (Remote and Local)

Acidisation