Modern Mechanized Salt Harvesting
About ROV Durrant Engineering
Equipment for salt industry

Sea water pumps

Salt wash plants

Iodide mixers

Salt harvesters
Starting from first harvesters
Currently manufactured machines

250 tph
Durrant 566-70
salt harvester

350 tph
Durrant 590-95
salt harvester

450 tph
Durrant 7160-120
salt harvester
Major components of interest in a salt harvester

- Cutter drum (pick roll)
- Elevator
- Chassis
- Cab
Control system
Cutter drum

The pick roll

Pick holders with picks and scroll plates installed
Cutter tips

Mounting block

Chisel tip

General purpose tip for high-impact

Medium-impact tip

High penetration tip
Scroll plates

Scroll plates move the salt crystals to the elevator
Hydraulic motor for pick roll

Internal hydraulic motor

External hydraulic motor
Self-aligning spherical roller bearings for the pick roll being assembled

Used on the 450 tph Durrant 7160-120 salt harvester
‘Du-cone’ Seal
Chassis is being prepared
Cab interior

Instruments & gauge panel

Operator dashboard

Alarm and field lights dashboard
Control system

Water tight electrical panel with PLC
Laser system

Control panel inside harvester that works in conjunction with laser tower

Signal transmitted from laser tower is used to maintain cutting depth on the salt harvester.
Trailers used for hauling salt

- Bottom dump trailer
- Conventional rear tipper
- Tractor & trailer
Harvester waiting for trailers before it can continue salt harvesting operation
Harvesting methods

- Bulldozer
- Excavator
- Purpose built salt harvester
Conclusion

ROV Durrant Engineering will provide the best harvesting solution for your unique salt pan conditions
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