

CARBON BLACK PLANTS

Feedstock oil and coal tar pumps

High head at low flow, from one rotating stage. With wear-resistant pickup tubes for oils that carry hard particles.



422

supply records in carbon black plants, 2007–2026

1,050 m

head in one stage (3,445 ft)

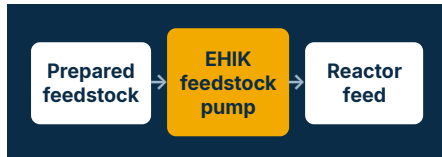
**Cabot · Birla Carbon
Orion · Black Cat**

are among our carbon black customers

WHERE THE PUMP FITS

Start with the liquid circuit

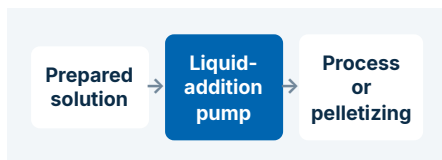
Feedstock, liquid additives and process water have different jobs. Each pump is selected for its own flow, pressure and liquid.



MAIN APPLICATION

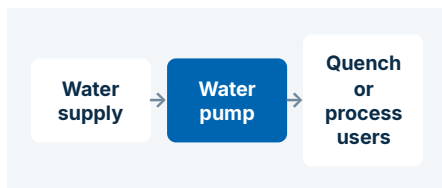
Feedstock oil and coal tar

We define the feed rate, oil temperature, viscosity and inlet conditions for both startup and normal production.



Additives and binder solutions

The pump is matched to the solution, its concentration and the small flow needed at the addition point.



Quench and process water

The water pump is selected separately, based on water quality, inlet supply and the demand of the process users.



LONGXING CHEMICAL, CHINA

Pump sets in a working plant

EHIK pump sets replaced an existing belt-connected arrangement. The pumps connect to the plant's process piping, valves and instruments.

High head in one stage

A rotor and a fixed pickup tube give up to 1,050 m (3,445 ft) of head. Speed and pickup tube are chosen for your flow and head.

Planned for startup

For oils that can solidify, the seal area is heated by steam or heat tracing before startup. Cold startup is part of the selection.

Wear-resistant pickup tubes

With a high content of hard particles, a standard tube may need replacing after **1-3 weeks**. Our coated tube can last **2-3 months**.

Parts within reach

Pickup tubes and rotor assemblies are in stock. We send drawings to confirm the right spare part before supply.

PLANT INSTALLATIONS

Installed in working carbon black plants

EHIK pumps at Naisiter, Yunwei Feihu and Longxing are real references for new equipment and for upgrading existing lines.



Belt-driven pumps · Yunwei Feihu



EHIK pitot tube pump · production lines 1 and 2

YUNWEI FEIHU · FEEDSTOCK OIL

EHIK replaced belt-connected feedstock-oil pumping equipment on production lines 1 and 2. The pump and motor sit on a common base, connected to the plant's existing feedstock-oil pipework.



NAISITER, SHANDONG

Replacing a multistage pump

Feedstock- and fuel-oil pumps replacing a multistage-pump arrangement.

Replacing a belt-driven or multistage pump? We review the operating requirements and the existing space together. Custom flanges can match your existing piping.

SUPPLY REFERENCES

Feedstock oil at 450 m. Coal tar at 23 m³/h.

Real supply orders cover feedstock oil and coal tar. The values below are per pump.

AUGUST 2023 · 6 PUMPS

Feedstock oil

FLOW

5 m³/h

22 US gpm

HEAD

450 m

1,476 ft

MOTOR

37 kW

50 hp

MARCH 2024 · 2 PUMPS

Coal tar

FLOW

23 m³/h

101 US gpm

HEAD

390 m

1,280 ft

MOTOR

75 kW

101 hp

Liquids we pump in carbon black plants

- Feedstock oil
- Coal tar
- Ethylene tar
- Process water
- Fuel oil
- Anthracene oil
- Potassium carbonate solution
- Condensate

CUSTOMERS INCLUDE

Cabot, Birla Carbon, Orion and Black Cat Carbon Black.

PARTS AND WEAR PROTECTION

Wear protection where it matters

Particles in feedstock oil wear the pickup tube first. We protect it, hold it firmly and keep spares in stock.



Wear-resistant pickup tubes

With a high content of hard particles, a standard tube may need replacing after 1–3 weeks. Our coated tube can last 2–3 months.



A stronger tube joint

One large threaded nut holds the pickup tube in place of several small bolts.



Rotor assemblies in stock

Pickup tubes and rotor assemblies ship after payment. We send drawings to confirm the right spare part.



Roto-Jet pumps too

We supply replacement parts for Roto-Jet pumps and overhaul complete pumps, for example for a carbon black plant in Tianjin.

No old tube to return: you do not need to send back your old pickup tube to order a new one.

SELECTION

Plan for startup, not just steady production

Oil properties and plant conditions change. A good selection plans for these changes before the equipment is ordered.

Temperature and viscosity

Startup and operating temperatures change oil viscosity. Warm-up, flushing and shutdown routines affect the pump, drive and seal.

Solids and wear

Particle size, amount and wear patterns guide our review. We offer wear-resistant pickup tubes where needed.

Materials and seals

The oil and its contaminants decide the materials and the seal. Seals and support equipment are part of the configuration.

Inlet conditions

Vessel pressure, liquid level and the suction line decide the conditions at the pump inlet.

Operating range

Minimum, normal and maximum flow define the range. We match the pickup tube, drive speed and controls to it.

Site and supply

Power supply, motor, connections and space decide the layout. We supply complete pump sets or integrated packages.



SEALS FOR HOT AND HEAVY OILS

Seal support and flushing

The mechanical seal sits at the inlet and sees only inlet pressure. Single or double cartridge seals; API seal plans (such as Plan 52 or 53) on request.

For oils that can solidify, heat the seal area by steam or heat tracing and turn the shaft by hand for at least 10 minutes before startup.

Send us your oil, flow and pressure.

We reply within 1 business day.

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