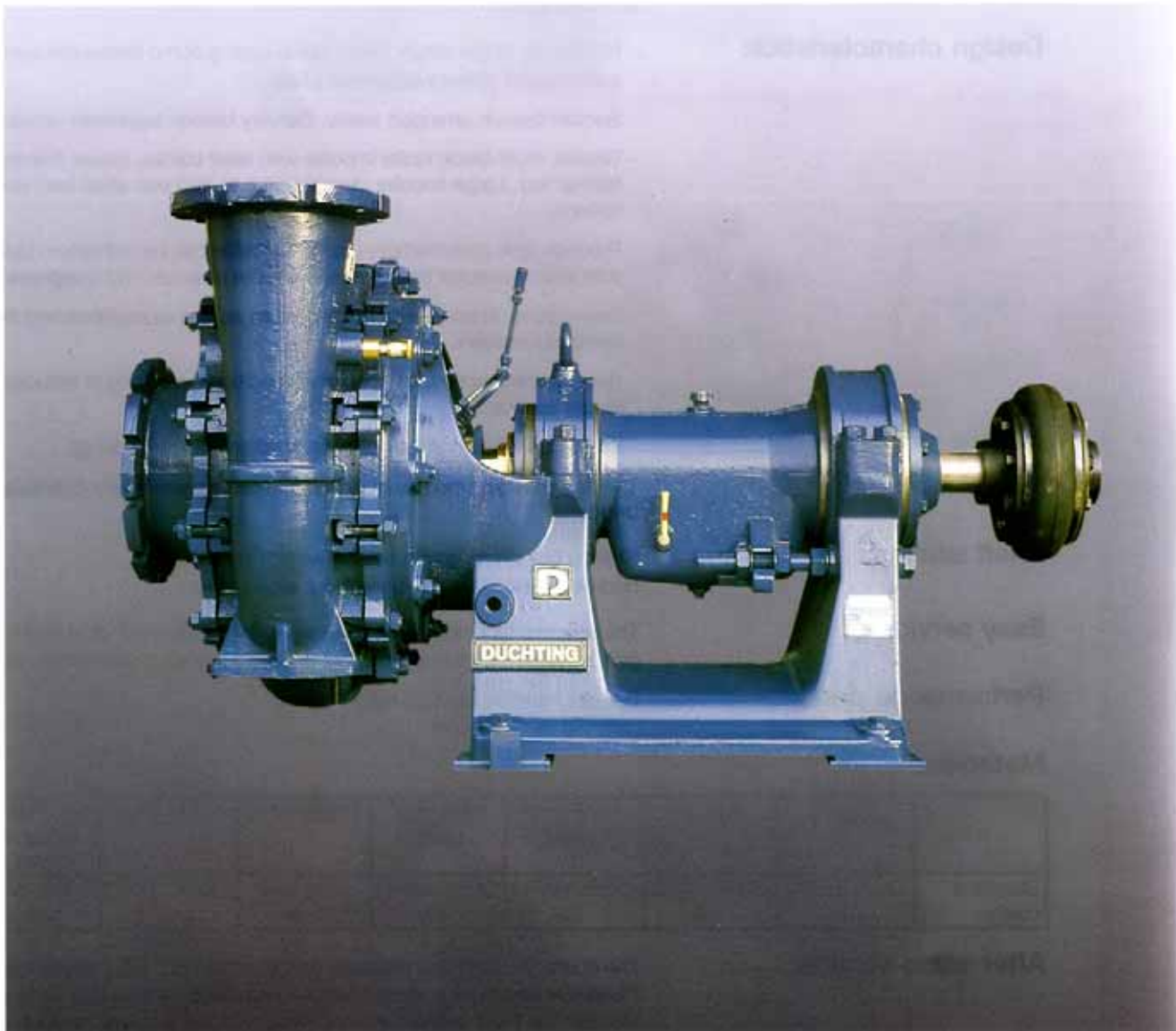




High abrasion-resistant Centrifugal Pumps

DH Series



Reg.-Nr. 929997

Applications: For liquid mixtures with high to very high solids contents

Applications:

Düchting DH Series Centrifugal Pumps are particularly suitable for handling solid/liquid mixtures with high to very high solids contents.

Applications exist wherever severe abrasive and/or corrosive chemical stresses occur, such as in:

- coal and ore mining (heavy and concentrated slurries)
- iron and steel works (descaling water)
- refuse incineration plants
- the chemical industry
- sand and gravel processing plants
- the potash industry.

Modular construction:

The modular construction of the DH Series allows optimum pump size selection tailored to each application. This provides ideal flow conditions for favourable wear behaviour and an economical service life.

The use of identical components in different pump sizes guarantees low-cost stock-keeping.

Design characteristics:

- Horizontal, single-stage, heavy spiral-casing pump (armoured pump with suction- and delivery-side wear plate).
- Suction branch arranged axially. Delivery branch tangentially upwards.
- Closed, multi-blade radial impeller with relief blades, power transmission via feather key. Large impeller diameters up to 800 mm allow low, wear-reducing speeds.
- Process-type construction, i. e. the impeller can be withdrawn towards the drive side while the spiral casing remains in the pipe run - no realignment required.
- Heavy pump bracket with bearing drum as well as readjustment facility for the complete impeller, quiet running, optimized operating conditions, resulting in reduced wear and longer service life.
- Oil-lubricated, generously dimensioned antifriction bearings.

The design allows the use of extremely hard materials with optimized material thickness.

Shaft sealing:

Stuffing box packing with sealing water connection.
Hydrodynamic shaft sealing without sealing liquid.

Easy servicing:

The process-type construction allows instant inspection of all hydraulic pump components. Simple replacement of the wear plate clamped into the spiral casing.

Performance data:

Delivery head: up to 12,5 bar
Duty: up to 4000 m³/h

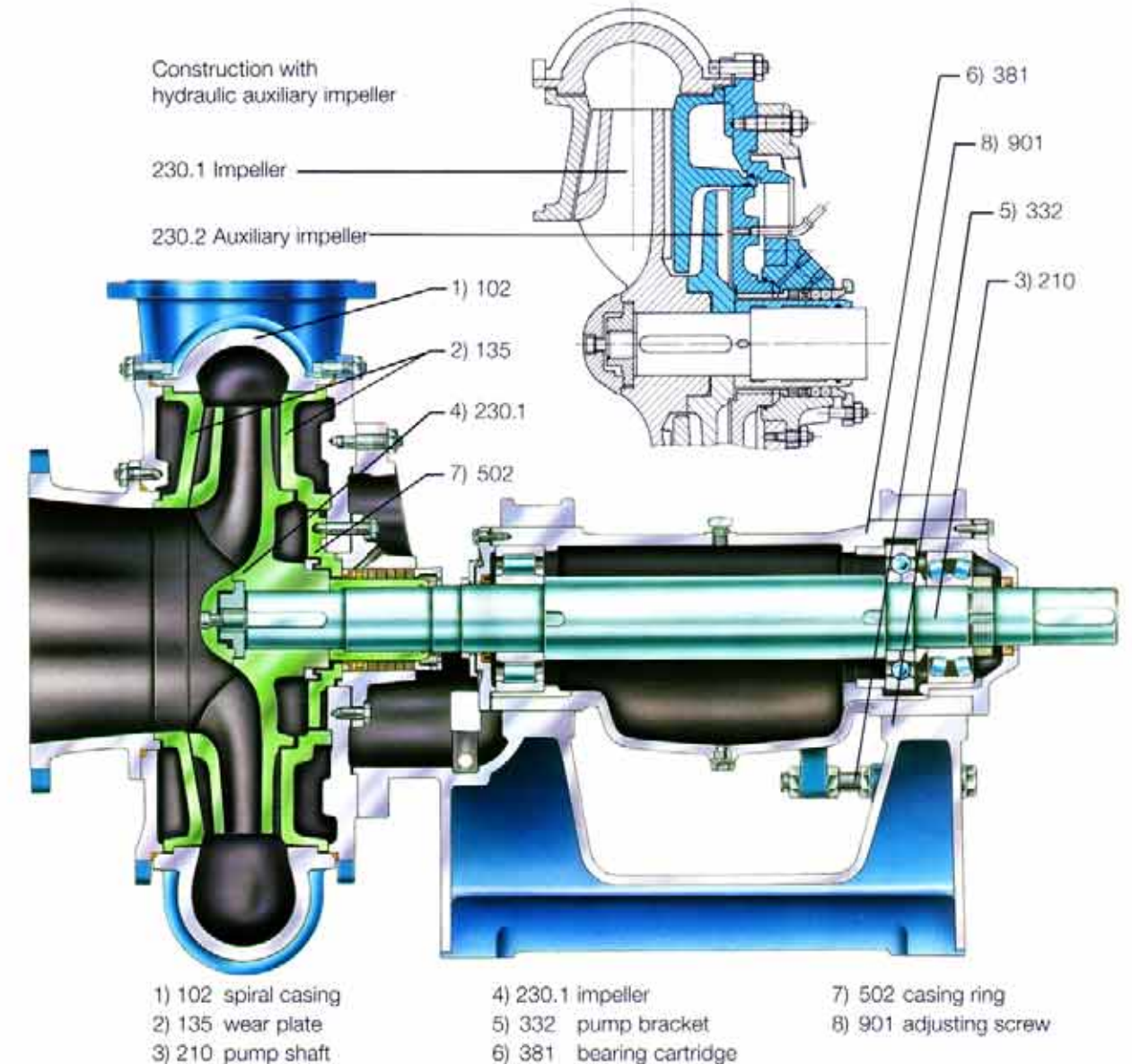
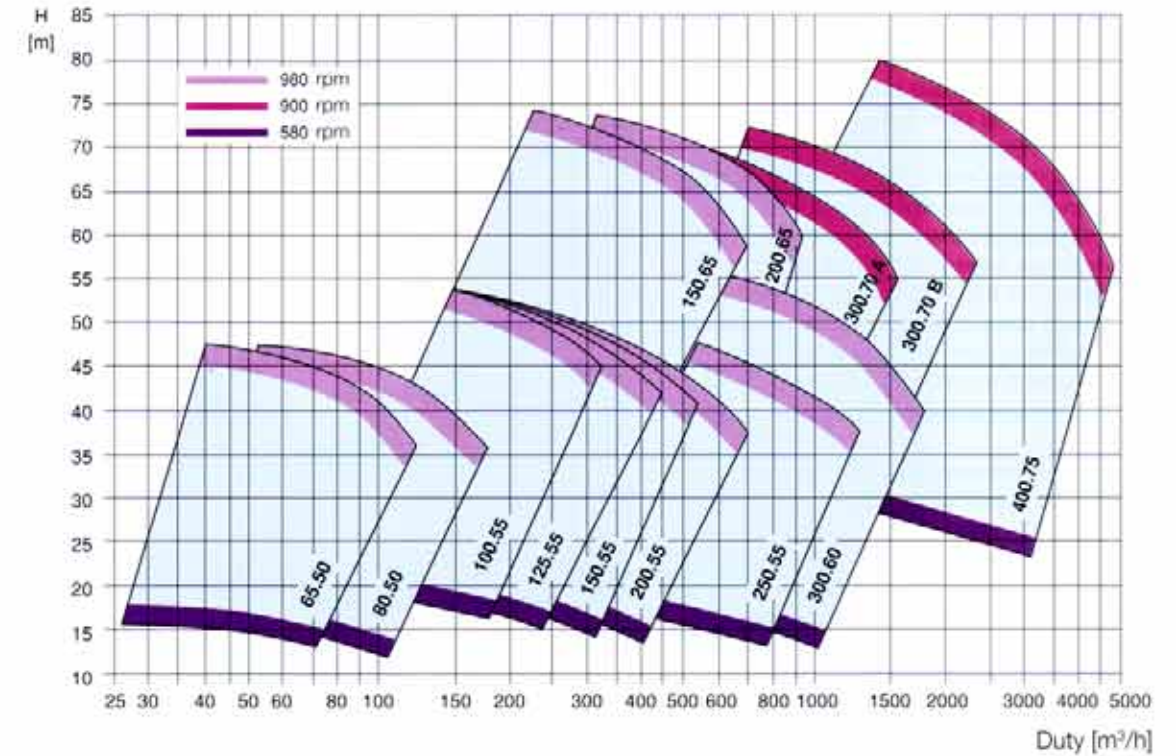
Materials:

	Casing	Impeller	Front wear panel	Rear wear panel	Pillow block	Expeller	Shaft protection sleeve	Shaft
Standard design	DÜROHARD 29	DÜROHARD 29	DÜROHARD 29	DÜROHARD 29	Grey cast Iron	DÜROHARD 29	Mat. No. 1.4086	St 50.2

After-sales service:

The quality of a product depends on the work of all departments - and at **DÜCHTING PUMPEN** we count a comprehensive and reliable after-sales service as part of this. Our Service Team technicians are highly qualified and can deal with problems quickly and thoroughly. They are in constant touch with the service manager and pass on all information and customer requirements direct in this way, onsite analysis in consultation with the customer can yield important clues for further improvements. Ongoing training courses for our service technicians ensure that any problems arising in the future will also be dealt with.

Characteristic diagram



To ensure that our centrifugal pumps meet quality assurance standards, it is necessary to subject the machines to a test run before they leave the factory. In most cases this involves documents confirming performance and an acceptance test (according to national and international standards) performed in the presence of the customer.

For this purpose and with this objective, work was carried out over many years on a concept based on the latest findings. Following our experience and assessment of standards and future proposals our test facility was completely upgraded in 1990. The pipeline system of the test facility is designed for a maximum flow rate of 10000 m³/h and a delivery pressure of 160 bar.

A variety of calibrated three phase motors up to 2000 kW output with different speeds of between 600 - 3000 rpm are available to drive the centrifugal pumps.

A wide range of turbo-machines can be tested for all acceptance and test series parameters.



The recording, evaluation, documentation and archiving of all measured values takes place centrally via a computer at the measuring station.



The test facility can also be made available to other companies for the above-mentioned possibilities.