The philosophy of HD Engineering, as manufacturing engineers has been to design, develop and manufacture its range of drilling and ancillary equipment to embody the latest technology, the most stringent quality control, maximum reliability in operation and a long operation life. The company’s founder, Hans Reiner Fritz, a graduate engineer from Germany, had the know-how gained from experience in the European oil and water exploration fields and foundation industry. He also recognised the enormous potential in the developing countries of Asia. With this know-how and vision he established HD Engineering in 1976 with his partner Cheng Chor Shing, with Hong Kong being the natural place to establish a factory to serve the region. The company has been playing an active role in the worldwide drilling market. This success story today reflects the on-going programmes of reinvestment in research and development, new machinery and operative skills which enable HD Engineering to meet the growing demands for its products.
Combining European engineering standards with the economic benefits of manufacturing in Asia has been a considerable achievement. Today this accomplishment is realised in the new factory housing state-of-the-art machinery and facilitating the on-going research and development programmes.

Sustained growth has been achieved by building a strong domestic market and by capturing a large share of the overseas export sales markets. Diversification within the company’s traditional fields of operation has also paid dividends and becoming an active player in the international market enables HD Engineering to offer a wider consultancy service and a more extensive range of product lines.
precision technology

The highly advanced manufacturing facility is linked to the latest computers and software allowing the Company’s designers to evaluate immediately the effects of changes which may be required to meet a particular customer’s needs. Factory production and customer service information move quickly and efficiently via HD’s integrated office and manufacturing network. A precise understanding of the location and progress of any order is always available through the network of workstations throughout the plant. Having the production flexibility to match lead times to customer delivery dates, however tight, has undoubtedly played a critical part in the Company’s success.
As a design-led company HD Engineering has solid commercial and manufacturing expertise which enables it to tender competitively in the world market. From creating the initial concept, HD drilling rigs are designed and developed to be multi-functional in their mode of operation. Each function and the problem to be overcome is closely analysed, engineered and the most practical solution incorporated into the particular drilling rig or ancillary piece of equipment.

The ability to design, using modern modular techniques and established European standards within the company's own specialist engineering departments, enables HD equipment to be customised to suit any non-standard application. In practice, this means that any HD machine or component may be supplied to exact specification demanded by the customer.

From the economic point of view, emphasis is always placed on the full utilisation of interchangeable modules, and easy access to major components and service parts.
foundation systems

A wide variety of products and systems are offered by HD Engineering to tackle different situations. Plus a variety of rotators and combination packages with different speed and torque options are also available.

All rigs are complemented by a wide choice of flushing heads, retaining clamps and break-out tongs. Compressors, flushing and grout pumps and winches are additional options. And, the company also manufactures an extensive range of equipment for piling and concreting.

**Equipment:**
- concrete buckets
- grout mixers
- grout pumps
- hydraulic jacking equipment
- pile boring tools and accessories
- tremie pipe systems

**Systems:**
- anchoring
- down-the-hole hammer applications
- micro-piling
- rotary drilling
- soil investigation
above and below ground

Contractors continually face the problem of rising costs. The introduction of different materials and advances in new drilling techniques enables HD machines to successfully meet the demands of today’s contractors.

Depending on the application and choice of modules selected the rigs are available as diesel powered, electrically or pneumatically driven. All rigs have been developed to meet the latest environmental standards on exhaust emissions and noise levels.

Retractable undercarriages for extremely narrow passages, dust collectors, compressors, flushing pumps and a variety of hydraulic drifters and rotators are just a small selection of features offered by HD Engineering.

methods and applications:
anchor drilling
cable-tool drilling
diamond coring
direct rotary mud drilling
directional drilling
down-the-hole hammer drilling
dry auger and bucket boring
grouting
micro piling
piling
reverse circulation air drilling with down-the-hole hammers
reverse circulation airlift drilling
water well drilling
geothermal hole drilling

HD accessories:
belling tools
casing extraction systems
casing crowns
excavator attachments
gROUT mixers
hydraulic control systems
hydraulic cylinders
hydraulic grout pumps
hydraulic power packs
large diameter bit bodies
pile leader attachments
rock breaker brackets
roller cutters
With its experience and knowledge, HD Engineering has been working together with customers to design and manufacture different types of special-made equipment to suit the particular requirement of the project.

In the course of sourcing parts and components for its own products and through its involvement in numerous construction projects, HD Engineering has built up a detailed knowledge of the requirements of contractors and of the most appropriate equipment available.

In addition to its own equipment HD Engineering is able to offer a selected range of trading products and ancillary equipment. For these trading products HD Engineering is able to provide the same comprehensive level of service that it offers with its own products. This includes pre-sales advice to ensure the equipment is the most appropriate to the customer’s needs, full training and instruction, and, of course, after-sales service.