

IHC FUNDEX FDA data acquisition system

Virtually every machine leaving the IHC FUNDEX factory is fitted with a data acquisition system for drilling and piling. The system has been developed in collaboration with a well-known supplier and can be fully integrated into our machines. It is also possible to install these systems on other machines. The system is extremely user-friendly and can measure and record all the important measurements needed when drilling and piling.

It is suitable for the following types of foundations:

- Full displacement drilling
- Grout injection piles
- CFA drilling
- Screw piles
- Precast piling
- Vibro/vibrex piling
- Piling, either bottom driven or top-drive
- Vibrating

The following standard parameters can be viewed or measured:

- Rotary head rotation
- Rotary head gearing
- Rotary torque
- Depth
- Inclination
- Pull-down force
- Penetration speed
- Duration
- Start and end times per pile

Options:

- Hammer energy
- Hammer drop height
- Strokes per minute/per 25 mm (for set calculation)
- Concrete/grout pressure
- Concrete/grout volume (with or without remote control)
- Extraction speed while pumping concrete
- Fuel consumption per pile

Different languages can be selected

The data that is measured can be put onto a USB stick or sent via a modem and then made into reports using the software supplied. Reports can be created using the most relevant parameters. The system provides enormous possibilities and custom solutions can be provided for each individual customer.



IHC FUNDEX CD20D, a completely new standard in compact drilling

At the end of last year IHC FUNDEX Equipment supplied a Belgian customer with a machine that is completely new to the range. This was the IHC FUNDEX CD20D compact drilling machine used on construction sites with limited space or height.

It is actually based on a machine from Vermeer MT's range (Vermeer was taken over by IHC in 2011), although it has been completely redesigned in the meantime. The redesign involved both external and internal modifications. Because of the higher drilling torque, the power source was substantially scaled up to 160 kW, which of course also meets all the latest emission regulations. The hydraulic system has been expanded in accordance with the proven concept from the F series, which also applies to the CAN-bus operating system. The latter option means that a modem can be fitted to the machine, so that support can be provided remotely by the IHC FUNDEX service department.



The machine is operated using a remote control device. This gives the machine operator the freedom to move around the machine and obtain an optimal picture of the operations.

The rotary head has been completely updated and the design is now the same as the larger rotary heads in the FDE range. This means that it has a slewing ring with grease lubrication making oil filled rotary heads a thing of the past. The CD20D can be supplied for a number of different types of rotary heads with maximum torques of 120 kNm, 160 kNm and 200 kNm.

The leader is modular in design so that it can easily be set to the desired working height and even has a minimum working height of 3 metres.

The machine can be used for different types of piling, including screw piles, Fundex and Atlas piling systems. Of course we always endeavour to meet our customers' specific requirements. This particular customer wanted to vibrate steel sections into the ground and so we fitted this machine with a rotary head that can easily be exchanged for a vibrator.

In the meantime, this Belgian customer has carried out a number of projects using the CD20D and is very satisfied with the performance, specifically the power that is available. As a result of the delivery of the initial CD20D, two more IHC FUNDEX customers have placed orders for the CD20D. We will be showing these machines on our website and Facebook page later this year.

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SPECIALIST IN DRILLING AND PILING EQUIPMENT



IHC FUNDEX EQUIPMENT GOES DIGITAL!

In keeping with this digital age, IHC FUNDEX Equipment intends to make increasing use of digital facilities in order to stay in touch with our foundation specialist customers and other interested parties. Therefore, we have recently renewed our website www.ihcfundex.com and would like to keep you right up to date via our own Facebook page and YouTube channel. In addition, we have also launched a new website, www.usedfundex.com, for used equipment such as rigs, rotary heads and power packs.



This website is currently available in English and Russian, although more languages will follow in the near future.

Under the 'Contact' tab you can find the details of the sales manager or local agent for each country. Naturally they are always happy to discuss things with you!

The technology innovator.

The IHC FUNDEX F2800 is becoming even more popular

Our IHC FUNDEX F2800 machines compete in popularity with their big brother IHC FUNDEX F3500. The same numbers of each have been delivered, with the most recent deliveries of the F2800 going to various customers in Europe and Russia.

After more than 23 years of faithful service, a customer in Germany decided to exchange its Fundex F14 for an F2800. With heavy hearts they said farewell to their loyal servant, although with the delivery of the F2800 they have made the right decision with regard to reliability, safety, ergonomics and efficiency. In other words, the customer is now fully prepared to take on new foundation projects over the years to come.

A customer in France decided to invest in a second IHC FUNDEX F2800. They had already acquired their first F2800 in 2012. The experience and results achieved with the F2800 were so successful that they didn't wait long before ordering a second F2800.

One of our customers in Switzerland has taken delivery of its fifth IHC FUNDEX F2800! The customer has noticed specifically how the machines of this type have evolved substantially over the years. This was the first customer to invest in an F2800 in 2005 and when they compare it now with the latest one acquired (their fifth), the main differences include the Tier4i motor, the cable reel system, the advanced data acquisition system, the engine management read-outs, the modified connection system and a fully redesigned pull-up and pull-down system. Furthermore, another IHC FUNDEX F2800 was recently delivered to a customer in Russia. The customer intends to use the machine for both full displacement and CFA drilling in the region. It is anticipated that this will not be the only IHC FUNDEX machine that this customer takes delivery of!



IHC FUNDEX CP25D, for compact piling and drilling

The IHC FUNDEX CP25D is the next in line to the successful Vermeer MT HL2500 pile driver.

The first machine in this range was recently sold as a pile driver for piling 12 metre long tubes using an internal drop weight of 2,500 kg. Thanks to modifications to the telescopic leader, this machine can quickly be converted to the desired leader lengths between 8 and 12.5 metres. With the new IHC FUNDEX piling automation and FDA data acquisition systems, the piling process can be accurately monitored and recorded.

The machine can also be fitted with a CDE7 rotary head with up to 65 kNm torque. Thanks to the specially designed leader, this drill torque can be used up to a height of 8 metres.

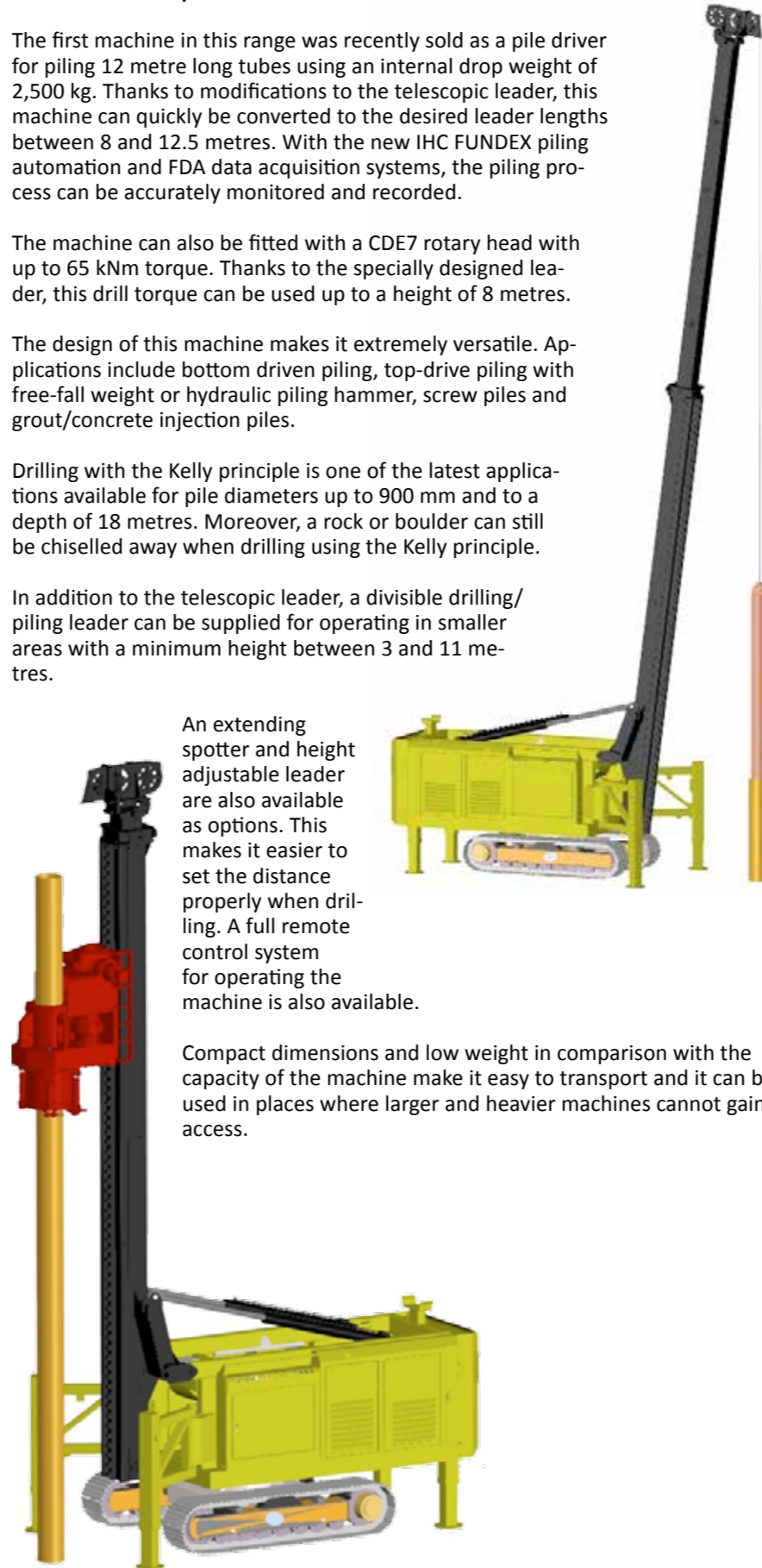
The design of this machine makes it extremely versatile. Applications include bottom driven piling, top-drive piling with free-fall weight or hydraulic piling hammer, screw piles and grout/concrete injection piles.

Drilling with the Kelly principle is one of the latest applications available for pile diameters up to 900 mm and to a depth of 18 metres. Moreover, a rock or boulder can still be chiselled away when drilling using the Kelly principle.

In addition to the telescopic leader, a divisible drilling/piling leader can be supplied for operating in smaller areas with a minimum height between 3 and 11 metres.

An extending spotter and height adjustable leader are also available as options. This makes it easier to set the distance properly when drilling. A full remote control system for operating the machine is also available.

Compact dimensions and low weight in comparison with the capacity of the machine make it easy to transport and it can be used in places where larger and heavier machines cannot gain access.



IHC FUNDEX free-fall winches, renowned for their optimal use of gravity

We have been busy for some time with the development of free-fall winches.

For many years now, IHC FUNDEX Equipment has been producing the well-known VVL1000 and VVL2500 models, where the number indicates the free-fall weight. Therefore, these winches operate with a maximum drop weight of 1,000 kg and 2,500 kg respectively, with a maximum drop height of 3 metres.

A lot of thought has gone into optimising the existing product. This has led to substantial improvements being made to the operation of the winch. Various improvements have been made to the hydraulic equipment and the controls. The ease of operation has been substantially increased thanks to the fully automatic piling process; furthermore, the frequency has been increased and the drop height is now easy to set accurately. This last feature is very important for obtaining the correct data for the set calculation. Wear, tear and maintenance have been reduced to a minimum.



IHC FUNDEX can see increasing numbers of international companies being convinced of the added value of our high-quality products. We recently successfully modified the VVL2500 to create the new CP25 (HL2500) for a company in the UK. A complete VVL1000 was also recently produced to the full satisfaction of the customer.

In addition to optimising existing types, IHC FUNDEX is also busy expanding the range of free-fall winches so that it can offer an extensive and far-reaching range of models.

HOW BIG.....? We already have our ideas for this! Find out more shortly on our website or Facebook page!



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