

## Editorial

Dear Customer!  
Dear Business Partner!

For everyone who could not attend America's largest construction equipment exhibition 'Conexpo' in Las Vegas last month we herewith summarise new developments of our main partners for piling and foundation equipment.

APE of Kent (American Piledriving Equipment) showed the brand new RoboVib, a vibro for mounting to the excavator boom which grabs beams and sheet piles from the side so that no additional servicemen are required. Another invention is the new diesel hammer type D180 with a ram weight of 18000 kg. It was a pleasure to meet many piling contractors who gave a lot of credit to the quality and performance of the APE machines as well as to APE's continuous effort to develop new and better piling equipment.

IMT of Osimo presented a brand new foundation rig type AF215, the first of its kind for continuous flight augers, displacement piles and kelly bar drilling with a telescopic mast. The AF215 comes on a CAT 325CHP base machine with a 250 HP diesel engine and 205 kNm torque. Despite its ultra compact dimensions it can drill CFA and SDA piles up to a maximum depth of 25 m and accommodate a 4/40 m interlocking kelly bar.

Please also look at our updated second hand equipment list where you can find a number of vibrators, piling rigs, foundation rigs and crawler cranes for a wide range of piling and foundation applications. Let us have your requirements and we will send you product details and prices by return.

Hoping that you will find something of interest in our News I remain

Very truly yours,

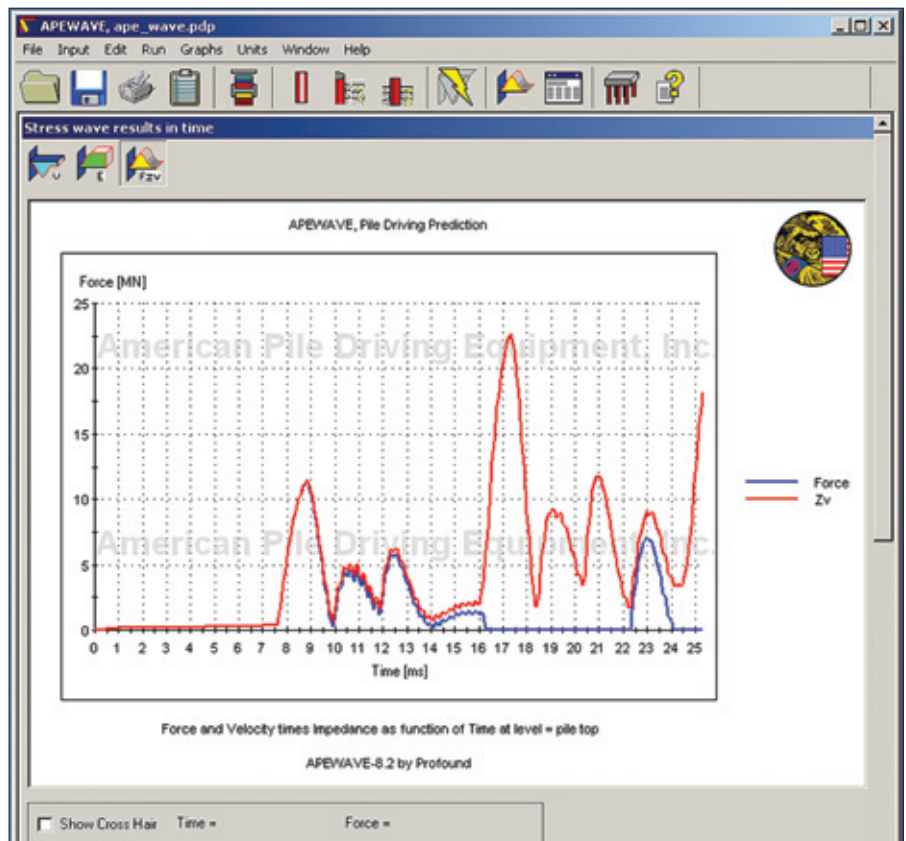
Karl H. Pacik

[www.imeco.at](http://www.imeco.at)

## Product News

### — APEWAVE

APEWAVE has been developed by Profound, a pioneer in manufacturing pile testing equipment as well as foundation testing. Profound develops and markets Foundation Pile Diagnostic and Monitoring Systems, including PDA, Statnamic, Pile Integrity Testing, and the wave equation program TNOWAVE.



One module of this program is PDPWAVE, which can be applied for professional driveability studies. With the results of PDPWAVE the piling engineer is able to:

- Predict driveability
- Optimise the selection of the impact hammer
- Select the maximum energy level without damaging the pile
- Increase the efficiency of the pile-driving set-up
- Optimise the energy transfer, including cushion and pile adapters

APEWAVE is a simplified and user-friendly version of Profound's PDPWAVE with built-in libraries for APE's impact hammers and related components as well as sheet piles and H-piles. With the APEWAVE program the user can get a first impression about driveability and produce impact diagrams, blow count graphs, and bearing graphs.

A free copy of APEWAVE can be downloaded from the APE website at [www.apevibro.com](http://www.apevibro.com) - APEWave.zip (42.5 MB).

For more information about APEWAVE or any of the TNOWAVE modules (PDPWAVE for impact hammer pile driving prediction, VDPWAVE for vibratory driving prediction, STNWAVE for Statnamic simulation, SITWAVE for pile integrity signal matching and DLTWAVE for PDA and DLT signal matching) and Geotechnical Monitoring systems please visit the Profound website ([www.profound-usa.com](http://www.profound-usa.com)) or contact us at [imeco@imeco.at](mailto:imeco@imeco.at).

## — APE at Conexpo



APE presented at the Conexpo in Las Vegas three crane-suspended hydraulic vibrators (from left to right):

- APE170VM (variable moment) with a centrifugal force of 1667 kN for piling near existing structures
- APE200 with a centrifugal force of 1513 kN, an ideal machine for driving and extracting heavy sheet piles, H-piles and smaller casings
- J+M416B, an enhanced version of the popular ICE416 with a centrifugal force of 907 kN and a gun-drilled top plate to eliminate hydraulic hoses.

APE offers the widest range of vibrators, impact hammers, diesel hammers, auger drives and leads.

The new APE RoboVib is the enhanced design of a known concept with many significant advantages:

- 2 side and 1 bottom clamp
- larger eccentric moment
- larger driving amplitude
- heavy duty rotation device
- no solenoid valve or wiring
- excavator size 23 ton up
- gun-drilled manifold
- integrated sling hook for lifting
- total weight 2090 kg
- centrifugal force 383 kN
- frequency 2500 rpm

The RoboVib can grip H-beams or sheet piles with 2 side clamps from the ground without any assistance, rotate it to vertical and drive it to a depth which allows to use the bottom clamp for final driving. Consequently much longer piles can be driven compared to standard boom-mounted vibros which are mostly limited to 7 or 8 m piles. The RoboVib is an extremely versatile tool transforming any hydraulic excavator of sufficient weight and power into an excellent piling unit.



The D180-42 is presently the largest diesel hammer made by Shanghai Engineering Machine Works (SEMW), the APE production facility in China. SEMW is an ISO9002 certified company which purchased the technology from Delmag and has been manufacturing diesel hammers since 1962.

Main technical data:

- impact energy max 92000 kgm
- stroke max 5110 mm
- ram weight 18000 kg
- total hammer weight 37500 kg
- overall length 8150 mm
- overall width 1400 mm
- clearance for leads min 1370 mm

We offer the complete line of diesel hammers starting from D8 to D180 with industry leading warranty.

In the category  
**METHOD STATEMENT**

at our website we provide instant information concerning the use of various equipment we offer.

## — IMT at Conexpo



The brand new foundation rig type IMT AF215 is the first of its kind with a telescopic mast. The mast height can be extended from 15700 mm to 25150 mm which allows to make CFA or SDA piles up to 24 m depth and up to 1000 mm diameter. Main technical data:

- torque max 215 kNm
- drilling speed 26/110 rpm
- rotary stroke 18900 mm
- push down force 250 kN
- pulling force 534 kN
- service winch 155 kN
- base CAT 325CHP
- diesel engine 250 HP
- telescopic lower 3000-4300 mm
- total weight 59 ton

The AF215 can be equipped with an interlocking kelly bar 4/30 m and installs steel casings of up to 9000 mm in standard configuration. In addition also diesel hammers, hydraulic hammers and hydraulic vibrators can be mounted.

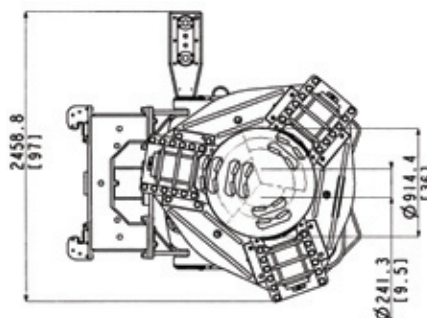


Another invention is the new IMT Rotary Clamp for driving long open-ended steel pipe piles of up to 914 mm diameter directly into the soil without any vibration.

The Rotary Clamp can be mounted to the AF250 and AF300 or to any crane boom-mounted leader of sufficient torque acceptance.

Main technical data:

- pipe diameter 241-914 mm
- torque max 325-600 kNm
- drilling speed 23-74 rpm
- clamping force 40-1200 kN
- weight of clamp ~10000 kg
- crowd stroke 6500-6900 mm
- crowd cylinder push 250-400 kN
- crowd cylinder pull 390-400 kN



## — Used Equipment

Presently we have following used machines and equipment for sale:

### Hydraulic Vibrators:

- APE200, 1513 kN, 1998
- APE400, 3200 kN, 1999
- ICE416L, 645 kN, 1997
- ICE815, 1250 kN, 91/05
- PTC50H4, 1540 kN, 1993
- PTC60HD, 1400 kN, 1999
- PVE50M, 1600 kN, 1998

### Hydraulic Impact Hammers:

- Junttan HHK9A, 1997
- Junttan HHK14A, 1997

### Diesel Impact Hammers:

- D30-32, 1995
- D36-32, 1998
- D46-32, 2001
- D62-32, 2003

### Mobilram Piling Rigs:

- RE12/14, 700 kN, 1993
- TM12/15, 600 kN, 1995
- TM12/15, 1000 kN, 1997
- KRB19, 925 kN, 1993

### Anchor Drilling:

- Auger drive RH1400, 2002
- Auger drive RH5000, new
- Drifter HD4008, 2004

### Foundation Rigs:

- BG14, 42 m, 1989
- BG22C, 40 m, 1997
- BG22H, 24 m, 1999
- TH15, 35 m, 2000
- TH18, 35 m, 2000
- RH22W, 37 m, 2000

### Crawler Cranes:

- Sumitomo SC500, 50 ton
- Sumitomo SC700, 70 ton
- Sumitomo SC800, 80 ton
- Liebherr HS871HD, 80 ton
- Liebherr HS872HD, 90 ton
- Liebherr HS881HD, 100 ton
- Sumitomo SC1000, 100 ton
- Kobelco 7100, 100 ton
- Linkbelt LS218H, 100 ton
- Hitachi KH700, 120 ton
- Sumitomo LS368RH5, 250 ton

### Others:

- Diaphragm wall grab 800 mm
- Casing Oscillator 1000 mm

Not all available items are listed. Please contact us for further details and prices.

Availability subject prior sale.

## — Projects

We had the pleasure to supply following equipment recently:

1. APE vibrator to Bahrain
2. Sumitomo cranes to Kuwait
3. J+M vibrator to Abu Dhabi
4. Vacuum pumps to Kuwait
5. Drum cutter to Indonesia

Please contact us with all your needs concerning machines and equipment for piling, drilling and foundation as well as for other related products.



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## — Imeco Product Line

### TRENCH SHORING

- trench sheets and sheet piles
- hydraulic manhole frames
- trench struts
- trenchboxes
- sliderail elements
- pit and shaft shoring
- bearing pile shoring

### DEWATERING

- vacuum pumps
- high pressure jetting pumps
- self-priming contractors pumps
- wellpoint accessories
- multi-stage centrifugal pumps
- deep well accessories
- submersible agitator pumps

### TUNNELLING

- horizontal directional drill rigs
- auger boring machines
- hard rock boring heads
- pipe jacking equipment
- microtunnelling machines
- tunnel boring machines
- mucking equipment

### PILING

- hydraulic add-on vibrators
- crane-suspended vibrators
- wick drain vibrators
- diesel impact hammers
- hydraulic impact hammers
- conventional piling leaders
- telescopic piling rigs
- multi-purpose piling rigs
- soil improvement equipment

### DRILLING

- hydraulic drifters
- double drill heads
- hydraulic crawler drills
- anchors and tiebars
- drilling tools
- self-drilling micropiles
- grouting mixers and pumps
- jetgrouting equipment

### FOUNDATION

- mechanical rotary tables
- hydraulic foundation rigs
- soil displacement rigs
- casing oscillators
- casings and casing joints
- drilling tools
- pile grabs
- diaphragm wall grabs
- friction and locking kelly bars
- bentonite equipment

### OTHERS

- hydraulic drum cutters
- telescopic excavator booms
- shaft ring excavators
- crawler cranes (used)