

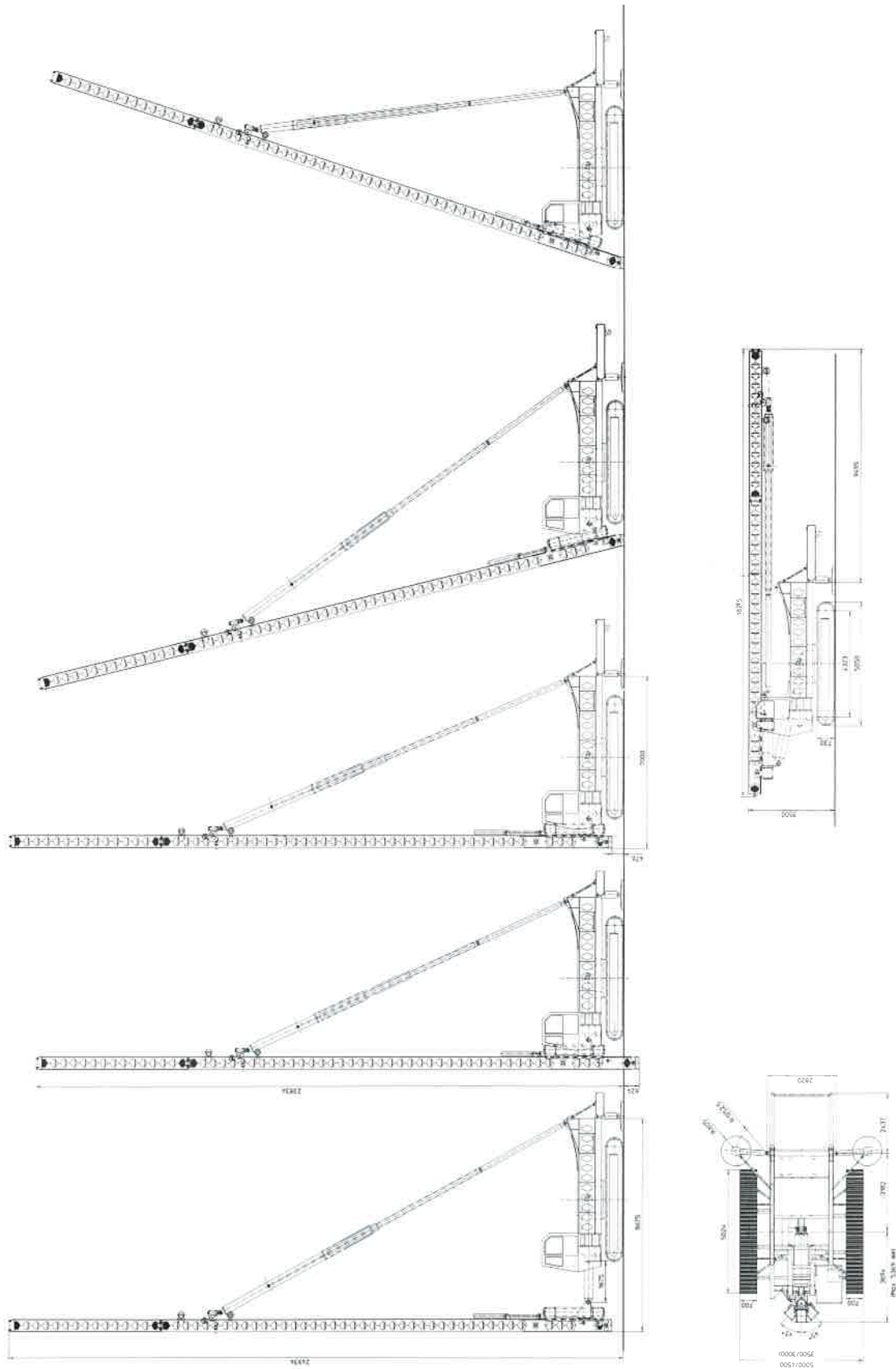
FUNDEX

Fundex F 14 Hydraulic foundation rig



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Fundex F 14 - Hydraulic foundation rig

Description of the rig :

The hydraulic driven tracked undercarriage is 5.00 m long and carries the fully rotating superstructure. This gives the machine great mobility. The exceptionally ingenious method of locating the mast makes possible very speedy erection on site. Within 15 minutes of arriving on site the complete rig may be off loaded from the low loader and made ready to drive piles. The Fundex F 14 as with other Fundex rigs, is fitted with hydraulic stabilizers, two being positioned at the back and one at the front. This allows the machine to be inclined with great accuracy and to allow for any unevenness on the worksite. The weight of rig has been kept to a minimum giving a bearing pressure of only 0.5 kg/cm² this feature and the previously described stabilizers, allows the unit to operate on rough terrain without the need for additional support platforms. The leader has a length of 18 m with a 6 m extension at the top. This piece can be turned sitewards for transport. The maximum inclination backwards of the leader is 30° and forwards 14°. Lateral inclination is 3° - Horizontal movement is 1.68 m.

Vertical movement = + 0,48 m.
- 0,62 m.

Technical specifications:

Carriage:

Engine:

DAF DNTD 620A 6 cyl.
140 HP to DIN standards
DIN 6270 B, at 2100 RPM

Hyd. pump:

Constant hydraulic pump with 2 outlets.
Max. working pressure: 350 ato.
Delivery: 2x85 LT/min.

Rotation equipment:

Reduction driven high speed motor with brake and breakvalve. Turning joint: ball bearing rotation sleeve with enclosed teeth. Hydraulic rotating joint with unlimited rotation.

Winches :

1 winch of ^{8 To}10 ton and 1 winch of ^{5 To}6 ton for lifting pile and lifting of pile drive hammer.

Optional : 1 winch 3 ton capacity for handling reinforcing cage and concreting skip or support platforms.

Operation:

Manual operated proportional valves patent Beringen.

Hydraulic tank cap. 300 litre.

Fuel tank cap. 300 litre.

Cabine is mounted at front for a good visability, all operating is made inside cabine.

Stabilizers:

The machine has 2 hydraulic stabilizers mounted at the back by means of a rotating arm, mounted to the machine and there is one at the front mounted to the leader.

Undercarriage :

Driving system : Track driven system HD specification.

Drive shaft, rollers and reverse roller are life team greased and Hydraulic track tensioner.

Bottom track consists of 3 ribs 700 mm wide.

Driving system : full hydraulic with hydromotor reduction transmission mounted with hydraulic brake valves. The total width of the undercarriage can be hydraulically extended from 3,5 to 5 m.

Leader:

Leader is moved by means of a triangle in which 1 Hyd. ram is mounted for raking and 1 Hyd. ram for lateral inclination.

Fixed crane :

The crane can be mounted to the leader and can be either turning or fixed.

The fixed crane has a capacity for 2 winches.

Max. cap. 10,5 ton.

Weight :

36 tonne.

Counterweight :

Can be mounted on 2 support beams weight 6 ton.

Max. torque on leader : 100 kNm.

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The possibilities in relation to pile driving

Variations :	Weight of hammer	Max. Pile or tube length	Max. pile or tube weight
Vertical with counterweight	3,2 tonne	18 m	10,5 tonne
	6,2 tonne	18 m	10,5 tonne
	8,2 tonne	18 m	9,5 tonne
1: 4 Front inclination with counterweight 6 tonne	3,2 tonne	16 m	10,5 tonne
	6,2 tonne	14 m	8,5 tonne
	8,2 tonne	12 m	6,5 tonne
1: 3 Back inclination :	3,2 tonne	18 m	10,5 tonne
	6,2 tonne	16 m	8 tonne
	8,2 tonne	14 m	6 tonne

Equipment available is:

F 11: light duty rig.

F 12: medium duty rig.

F 14: light duty rig.

F 15: heavy duty rig.

F 16: super medium duty rig.

TUBEX: medium duty rig for restricted headroom.

FUNDEX special design rigs.

FUNDEX auxillary equipment such as vibrators for Vibrex system, drill tables, power packs, hydro-hammers (4-20 tons), and special equipment on customers demand, etc...

PILING EQUIPMENT NEDERLAND B.V.

Head office :
BRUGSEVAART 6 TEL. : 31.1170-57510
P.O. BOX 55 TELEX : 55 181 fundx
4500 AB OOSTBURG FAX : 31.1170-57560
THE NETHERLANDS

FUNDEX PILING EQUIPMENT N.V./S.A.

Branch office :
KUSTLAAN 118
8380 ZEEBRUGGE - BELGIUM
TEL.: 32.50.544164 - FAX : 32.50.547902