

No-dig equipment

The no-dig machines are used, when traditional construction activity is unacceptable. For example, open cut excavation method causes damage to ground or building foundations.

Many kilometers of water pipes are installed or replaced in historical and industrial regions of Saint-Petersburg, Moscow and other Russian cities with no-dig hydraulic machines manufactured by AVA Hydrosystems.

Tunnelling distance is up to 100 m.

The machines ACP can be assembled and work inside of wells or in other narrow places.



Fig.1. ACP-20 is a compact solution for pit or well use.



Fig. 2. Destroyer with changeable knives.

Tool set includes reamers and pipe destroyers, spare knives, thread adapters, symmetric and steering heads with angled tips.

System parts

(see fig. 3 and 4)

- I. No-dig machine
- II. Power unit
- III. Connecting hoses
- IV. Pilot bars
- V. Tool

No-dig machine main parts

(see fig. 3 and 4)

- 1 Base frame
- 2. Main cylinder
- 3. Hydraulic height adjusting and leveling system (optional)
- 4. Hydraulic holder for bars
- 5. Hydraulic bar screwing and rotating device (optional)

Technica	al data*							
Туре		ACP-20	AC-60	ACP-60	AC-120	ACP-240	ACT-250	AC-300
No-dig ma	chine							
Force, kN	Push	100	200	250	400	900	2500	1000
	Pull	200	600	600	1200	2000	2000	3000
Stroke, mm		400	500	400	500	400	1600	500
Pipe O.D., mm		60-150	up to 315	up to 315	up to 500	up to 630	up to 1620	up to 630
Weight, kg		300	1200	800	1500	2100	10200	3000
Dimensions, mm		1400x450 x450	2200x600 x500	1300x400 x700	2200x700 x500	1500x600 x1000	6800x1700 x1900	2200x800 x1200
Power Uni	t							
Work pressure, MPa		40	32	40	32	40	40	32
Flow, Ipm		10	50	10	50	20(10)	16	100
Power supply, kW		10	30	10	30	10	22	60

^{*} The catalogue data does not rerefer to any particular equipment and can be changed by AVA Hydrosystems without notifications. Please, see technical passport for equipment in use.

100

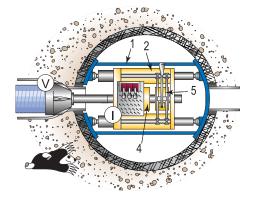
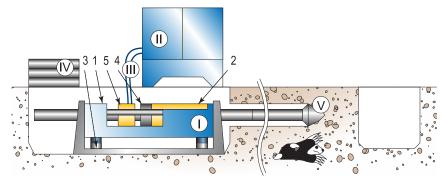


Fig.3. Type ACP - well machines.



250

100

320

400

Fig.4. Type AC - pit machines.

100

250

Tank volume, I

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Trenchless technologies

no-dig hydraulic machines and equipment design and production





No-dig machine ACP-60

Application

Pipe installation and replacement with pilot bar method (for pipes up to 315 mm).

Technical data

Pull force - 600 kN Push force - 350 kN



Multifunction machine ACT-250

Application

- I. Pipe jacking (for pipes from 820 to 1620 mm).
- II. Pipe installation and replacement with pilot bar method (for pipes up to 630 mm).

Technical data

Push force - 2500 kN Pull force - 2000 kN