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SINCE 1921

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DHM 1800

CRAWLER HYDROMECHANIC DRAGLINE

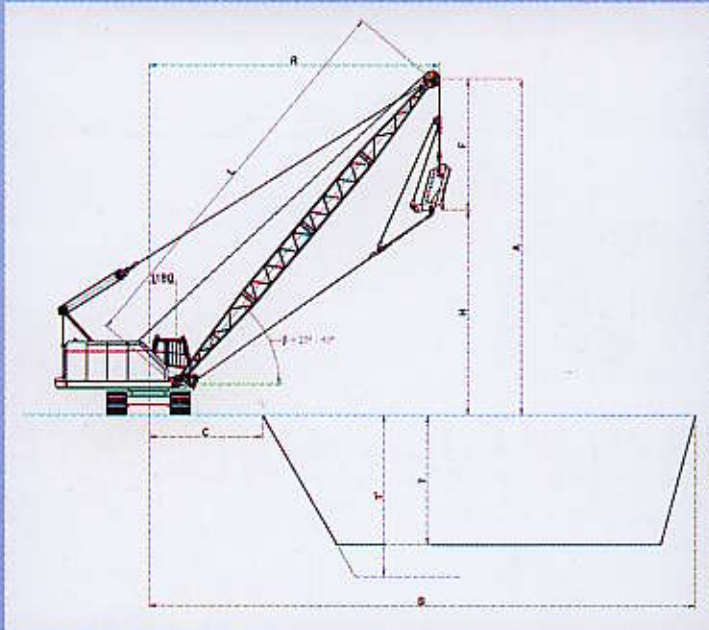




PUBLIC WORK EQUIPMENT

FIELD OF USE

The equipment is used at the cutreach of about 20m to perform a wide range of works such as hydro-melioration, hydrotechnical constructions, mining, as well as in road and railway building. The dragline is also used efficiently for loading.



DESCRIPTION

The equipment consists of the following:

- travelling carriage made up of chassis, travelling mechanism, tighteners, assembled crawler chain, rotary connection assembly.
- platform, including welded platform, engine-reducer driving system, bent-plasts chain transmission, bucket lifting-pulling winch, bearing and rotation mechanism, boom winch, boom suspension support cable controller.
- working equipment made of several modular transoms: for bucket capacities of 0.8; 1.0; 1.25; 1.6 cu. m., the required arm length is achieved by means of trans transoms

The dragline hydraulic installation works at the pressure of:

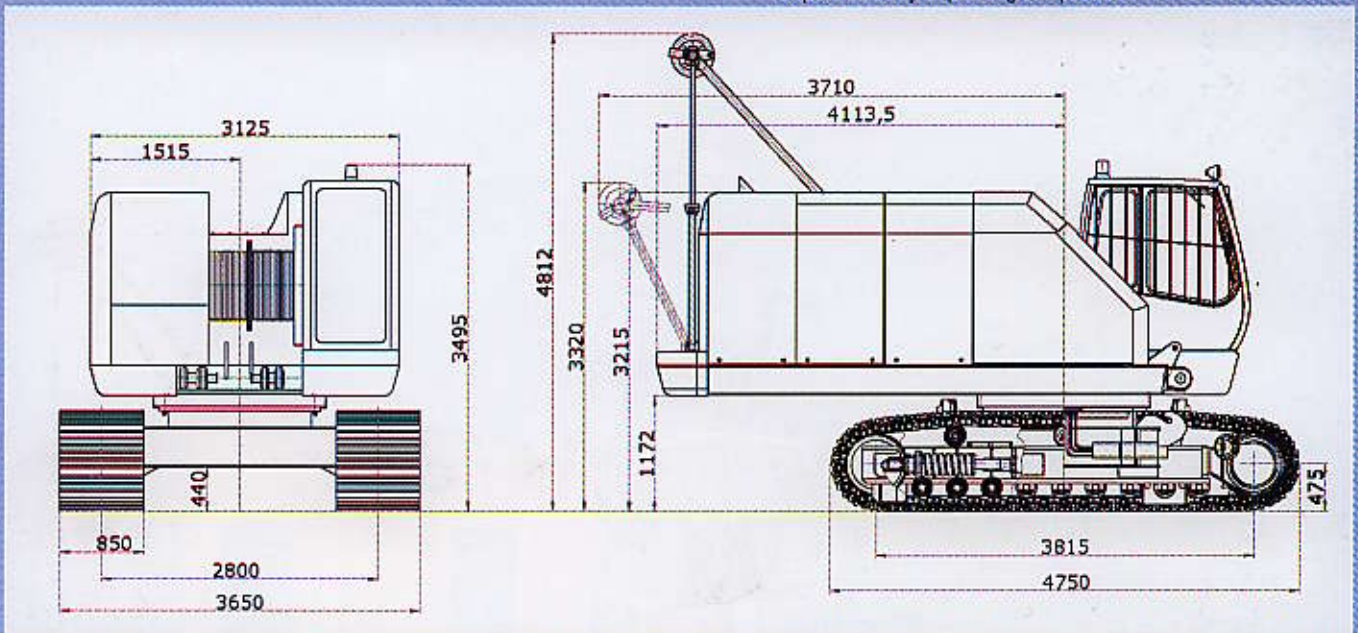
- 280 bar for travelling mechanism
- 150 bar for rotary mechanism
- 150 bar for arm lifting/lowering

The digging elements are driven mechanically by the winch cable, while the dragline travel and rotation and the lattice arm are driven hydraulically.

TECHNICAL CHARACTERISTICS

- Thermic engine - rated power at 2100 rpm, KW (HP) 132 (180)
- Mechanical drive
 - max. pulling force (daN) 11500
 - lifting/pulling speed of cables m/min
 - maximum 69
 - minimum 53
- Hydraulic drive
 - pump hydraulic, power, HP 100
 - safety-pressure, bar 280
 - pressure in hydraulic control system, bar 30
 - arm tilting time, sec. 50
 - travel speed, km/h 0 1.8
 - slewing speed, rpm 0 4.0
- Pressure on ground, daN 3 sq.m. 0.51
- Hydraulic tank capacity, l 440
- Diesel-oil tank capacity, l 260
- Duty weight with standard equipment, t 35.7

The data in the present prospect are informative. The manufacturing plant takes upon itself the right of permanently improving the product.



WORKING DIAGRAM

Bucket capacity, cu.m.	V	1.6;1.25;1.0;0.8	1.25;1.0	0.8	1.0;0.8	0.8		
Length of boom, m	L	13.5	15.5	17.5	19.5			
Boom inclination angle, degrees		25° 40°	25° 40°	25° 40°	25° 40°			
Maximum digging radius, m	B	17870	15500	20000	18400	22330	20000	24500
Maximum discharging height, m	H	2480	5520	3400	6900	4320	8280	5240
Maximum lifting height of boom, m	A	7000	10040	7840	11340	8880	12640	9520
Maximum discharging radius, m	R	13680	11760	15480	13280	17280	12800	19080
Distance between the slewing radius axis of platform and the edge of the bank, m	C	5000	5000	5000	5000	5000	5000	5000
Digging depth, m	T	6210	5000	7210	6600	8410	7210	9560
Distance between the top of the bucket and the axle of the winch, mm	F	4520	4520	4440	4440	4360	4360	4280
Maximum digging depth in the equipment longitudinal axis on sloping of 1.0:1.5	T'	12000	11300	13000	12300	14000	13200	15000