



# **ATLAS UNIVERSAL-EXCAVATOR 1500**

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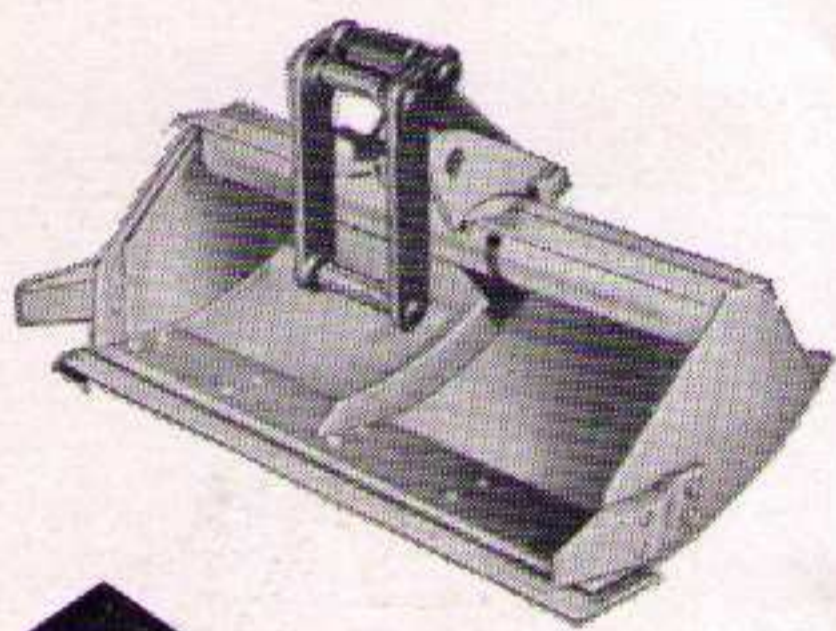
## THE UNIVERSAL HIGH PERFORMANCE EXCAVATOR ATLAS 1500

"ATLAS" has for more than 10 years been a password in Earthmoving circles in Germany and all over the world for high performance Hydraulic Excavators. The new ATLAS 1500 EXCAVATOR which we are introducing in this leaflet closes a gap between the sizes of excavators produced to date.

The practical experience of many years of manufacture has been put into practice in the development of the new ATLAS 1500 EXCAVATOR.

Experience demanded a "middle size" excavator whose performance lay between the lighter ATLAS 1200 and the heavy ATLAS 1800. And we have succeeded! It is a 14.12 cu.ft. excavator! The exceptional speed which is otherwise only available on small excavators, the enormous power development and the wide range of attachments offered, put the ATLAS 1500 EXCAVATOR in the performance class of much larger machines.

**The standard basic unit is available with the following refinements which make operation easier and guarantee accurate application under difficult conditions: Grader attachment – 8 large tyres – independant hydrostatic steering – self drive and trailer attachment – trailer brake attachment – automatic slewing disc brake – cab heater – 3 simultaneous operations.**



Buckets of 3'11" to 6'7" long and of various shapes make accurate working easy on every excavating application.

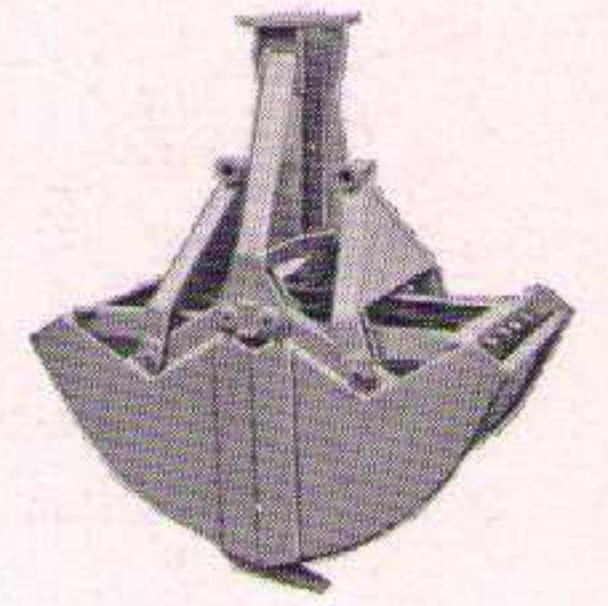
### The title picture:

ATLAS EXCAVATOR "1500" – fitted with "uprooting" tooth in the process of uprooting a tree.

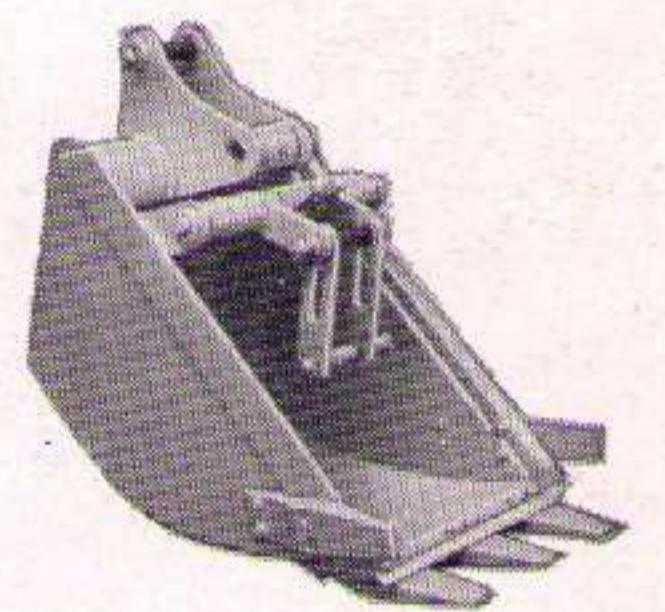


In ditch digging one can see how accurately this machine operates. Forming a ditch so exactly that manual labour is not required. This necessitates precise control of all operations. The ATLAS EXCAVATOR "1500" has just this.

A useful type of attachment is the hydraulically rotated ballast grab. Amongst trees where a machine cannot travel the ATLAS EXCAVATOR "1500" digs pipe, cable, trenches or ditches which previously could only be done with manual labour.



Ballast grabs of 10,6 and 14,12 cu.ft. capacity are universal in so much as according to arm length they can be used for any operation.



Back Actor Buckets of 1'4" to 3'3" can be used for any application.

ATLAS EXCAVATOR "1500" with combined Back Actor/Face Shovel i.e. a Back Actor Bucket without ejector that can be reversed for use as a Face Shovel.

# FIGURES that speak for

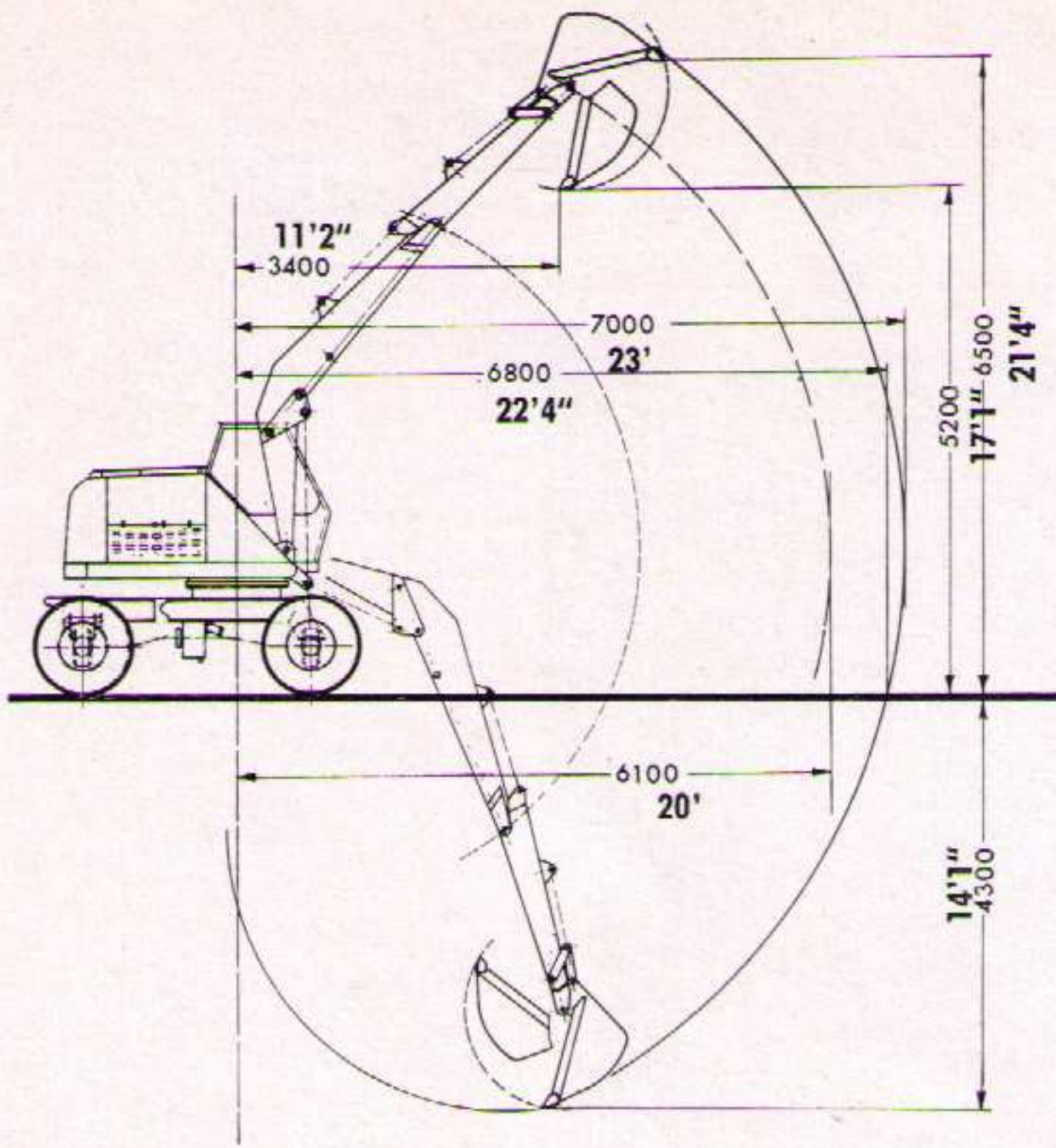


Fig. 1

**Fig. 1**  
ATLAS EXCAVATOR "1500" with C 2 D 1 Boom/Jib can achieve with Back Actor Buckets F 3 F 15 ditch depths of 12'6". With Boom/Jib C 2 D 2 (see sketch) it can achieve a ditch depth of 14'1".

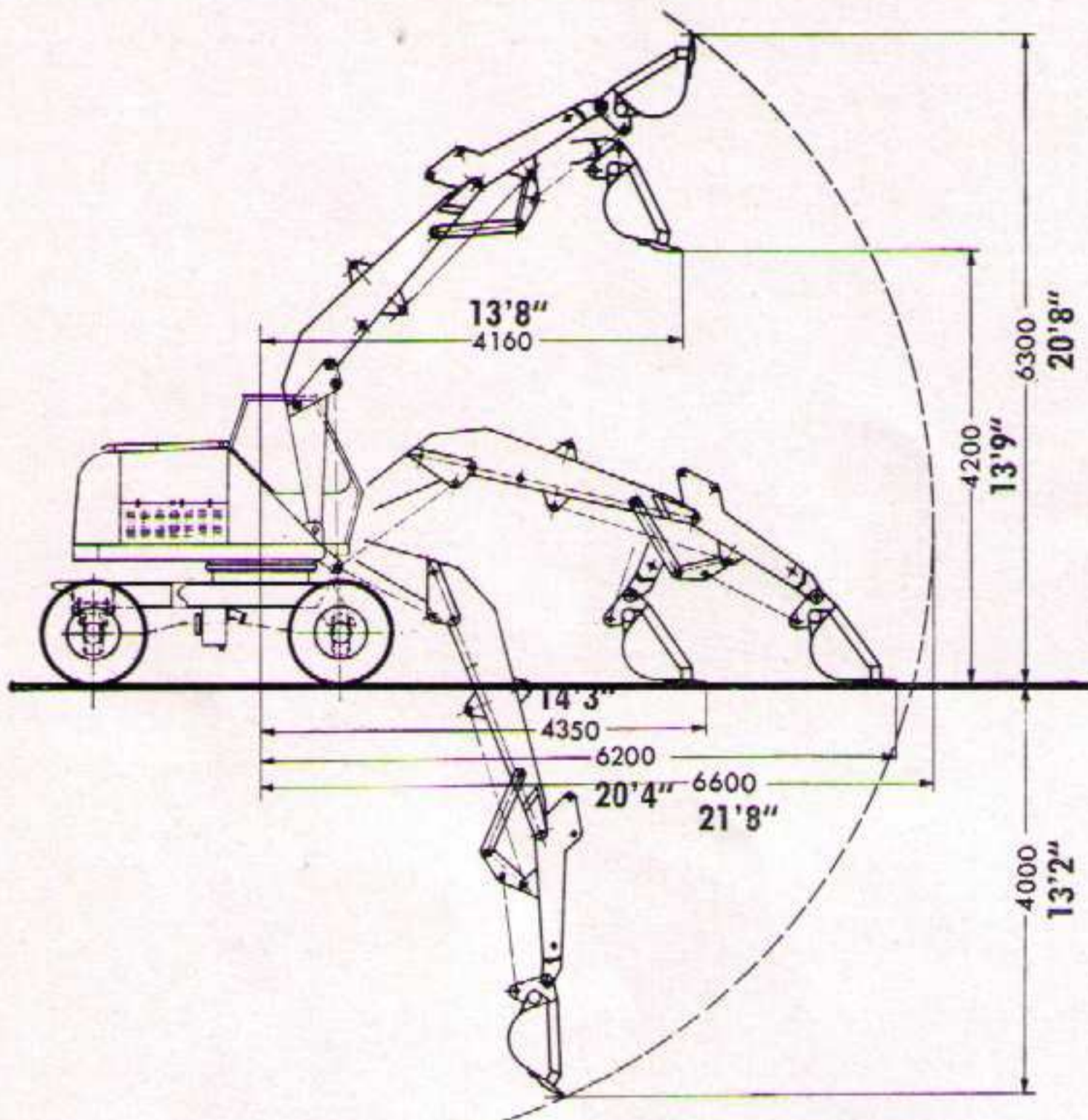


Fig. 3

**Fig. 2**  
ATLAS EXCAVATOR "1500" with C 3 D 3 Boom/Jib achieves with Back Actor Buckets F 3 F 15 a ditch depth of 17'1". Greater ditch depths can be achieved with correspondingly longer Buckets.

**Fig. 3**  
ATLAS EXCAVATOR "1500" with C 2 D 1 Boom/Jib covers an uncommonly large Working Area with Face Shovels F 17 F 19. A ditch depth of 13'2", a dumping height of 13'9", and an effective parallel to ground travel of 7'5" offer an hitherto unobtainable operating range.

**Fig. 4**  
ATLAS EXCAVATOR "1500" in ditch digging. Clearly visible is the wide operating range and the large radius. Note that the excavator with C 2 D 2 or C 3 D 3 arm covers a large area without having to travel.

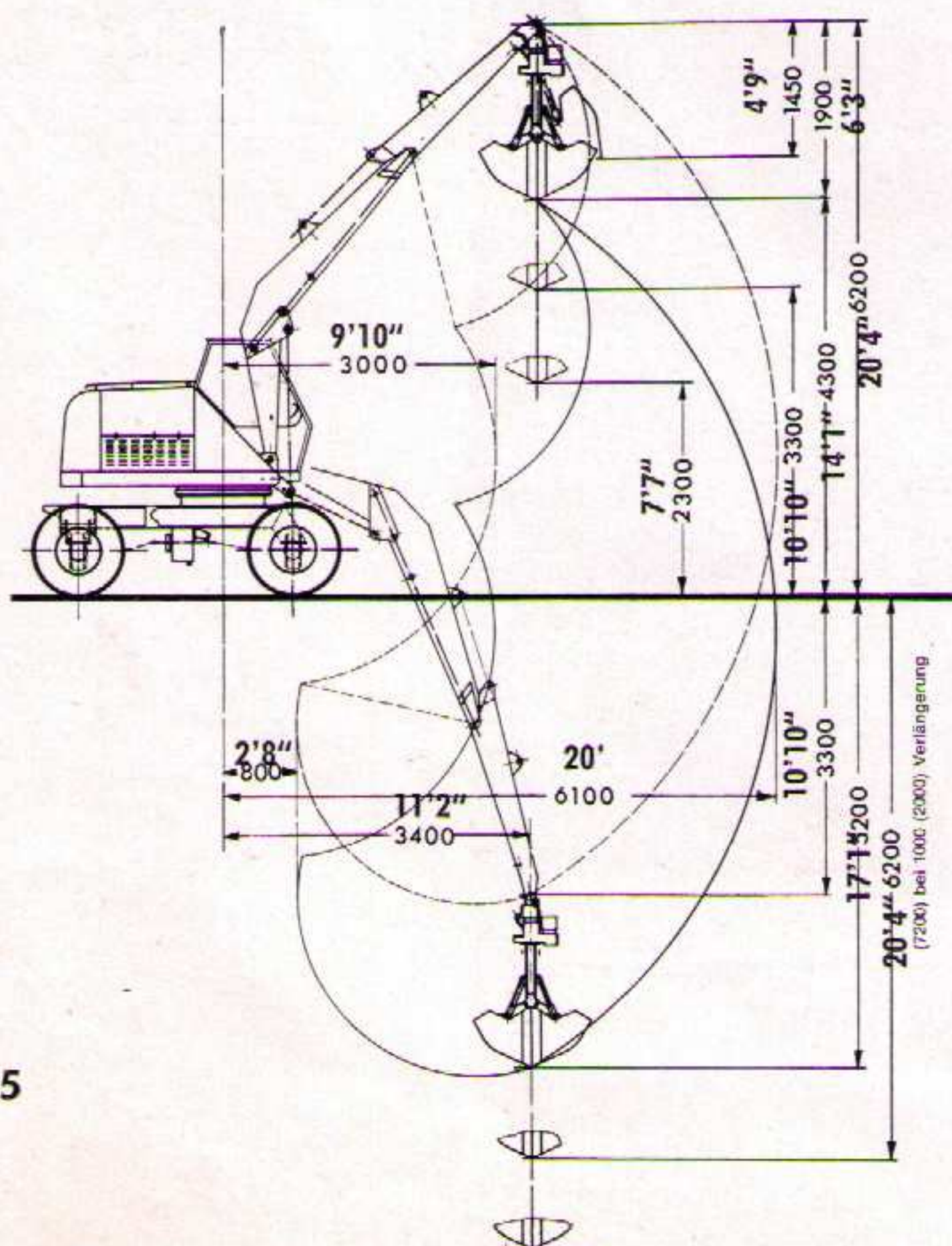


Fig. 5

**Fig. 5/6**  
The ATLAS EXCAVATOR "1500" with the main Boom/Jib C 2 D 2 or C 3 D 3 can achieve with the extensions E 4 and E 6, according to equipment, ditch depths up to 26'3". Greater depths can be reached with hydraulic extensions. Telescopic arms for 16'5" and 19'8" extensions are available.

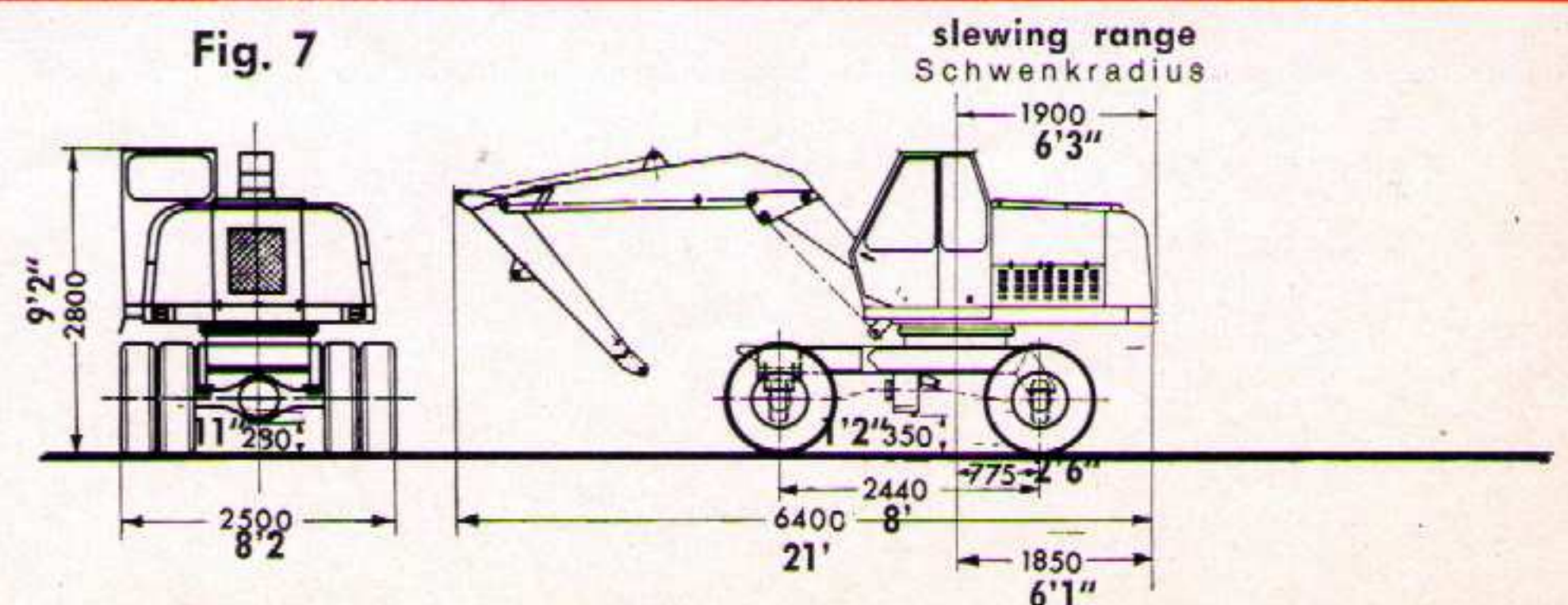


Fig. 7

**Fig. 7**  
slewing range  
Schwenkradius  
1900  
6'3"  
9'2"  
2800  
11'2"  
3400  
2500  
8'2"  
6400  
21'  
775  
2'6"  
1850  
6'1"

# r themselves

## TECHNICAL DATA

- Type of drive: Diesel hydraulic  
 Type of engine: Ford or Deutz engine  
 Engine output: 48 HP  
 Tyres – Front: 4 × 9.00-20  
           Rear: 4 × 12.5-20 (vehicle width 8'6")  
           or Rear: 4 × 9.00-20 (vehicle width 8'2")  
 Weight of vehicle: Tracked, 11 tons max.  
                           Wheeled chassis, 9 tons max.  
 Distance between axles: 8'  
 Overall width: 8'2"  
 Overall height: 9'2"  
 Overall length: 21'  
 Speeds of travel: Hydrostatic drive from 1.2 to 12.4 miles/h in both directions  
 Lifting speed: max. 394'/min.  
 Traverse speed: 9.25/17.1 r.p.m.  
 Obtainable force from all working cylinders: 24 tons  
 Operating pressure of hydraulics: 3271 p.s.i.  
 Grade ability: 40 %  
 Steering: Hydraulic steering with 2.1 tons turning force

Carrying capacities on load hook:

Arm	Length	Carrying cap.
C 2	9'10"	3.2 tons
C 2/D 1 short	16'9"	1.75 tons
C 2/D 1 long	18'5"	1.55 tons
C 2/D 2 short	18'5"	1.55 tons
C 2/D 2 long	20'0"	1.40 tons
C 3/D 2 long	21'8"	1.25 tons
C 3/D 3 long	23'4"	1.10 tons

Fig. 7

The principal dimensions of the ATLAS EXCAVATOR "1500" with main Boom/Jib C 2 D 2 in position.

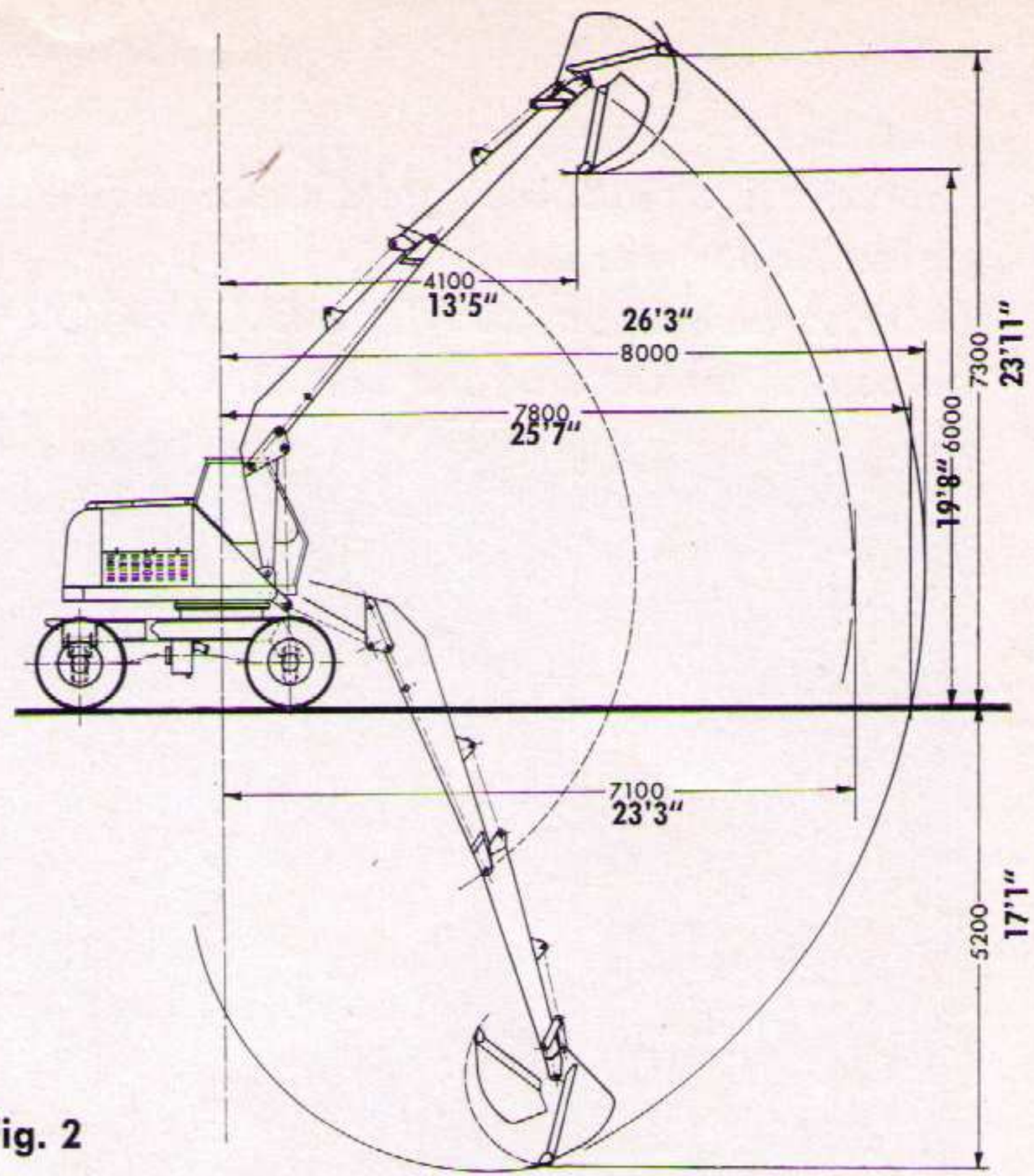


Fig. 2

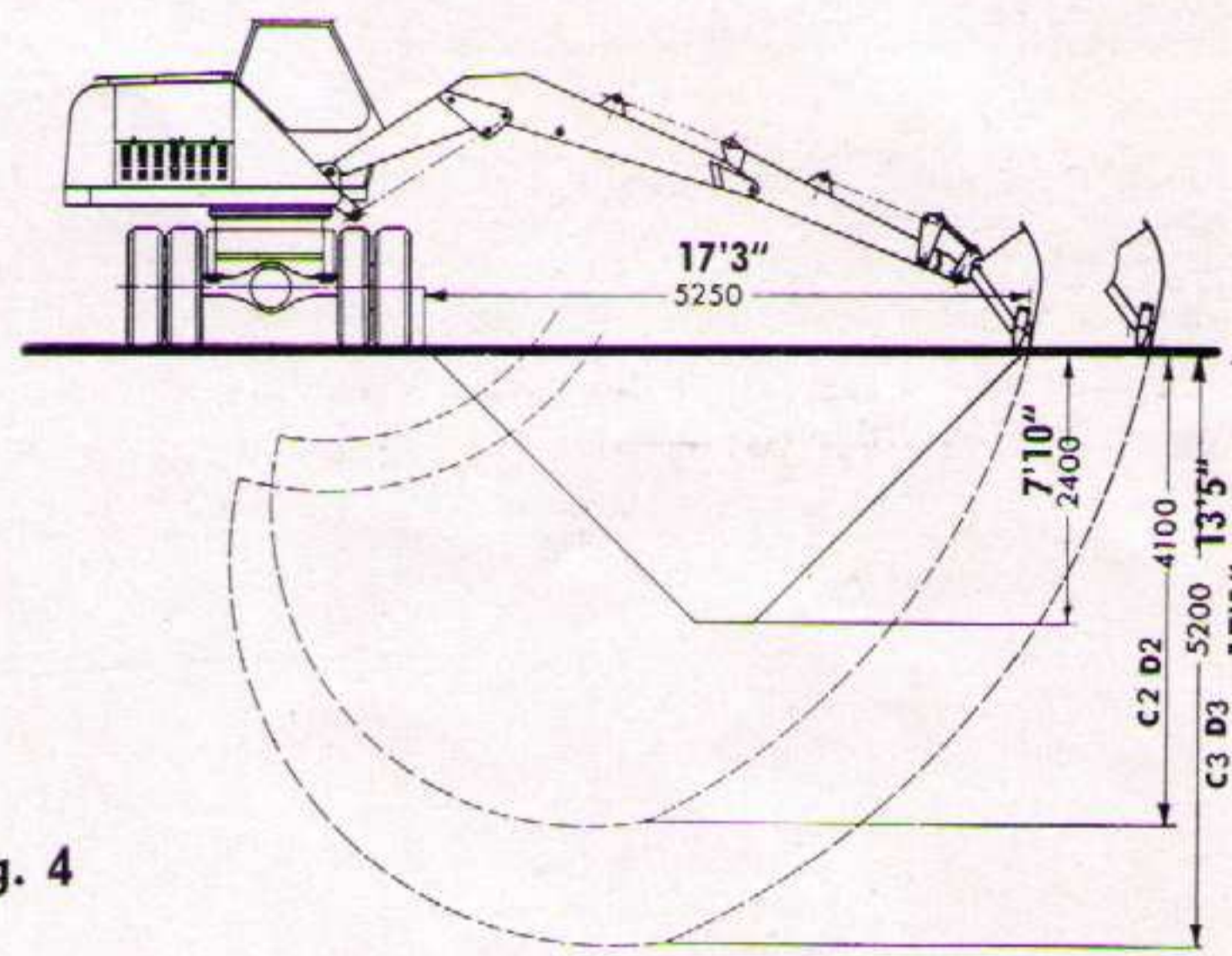


Fig. 4

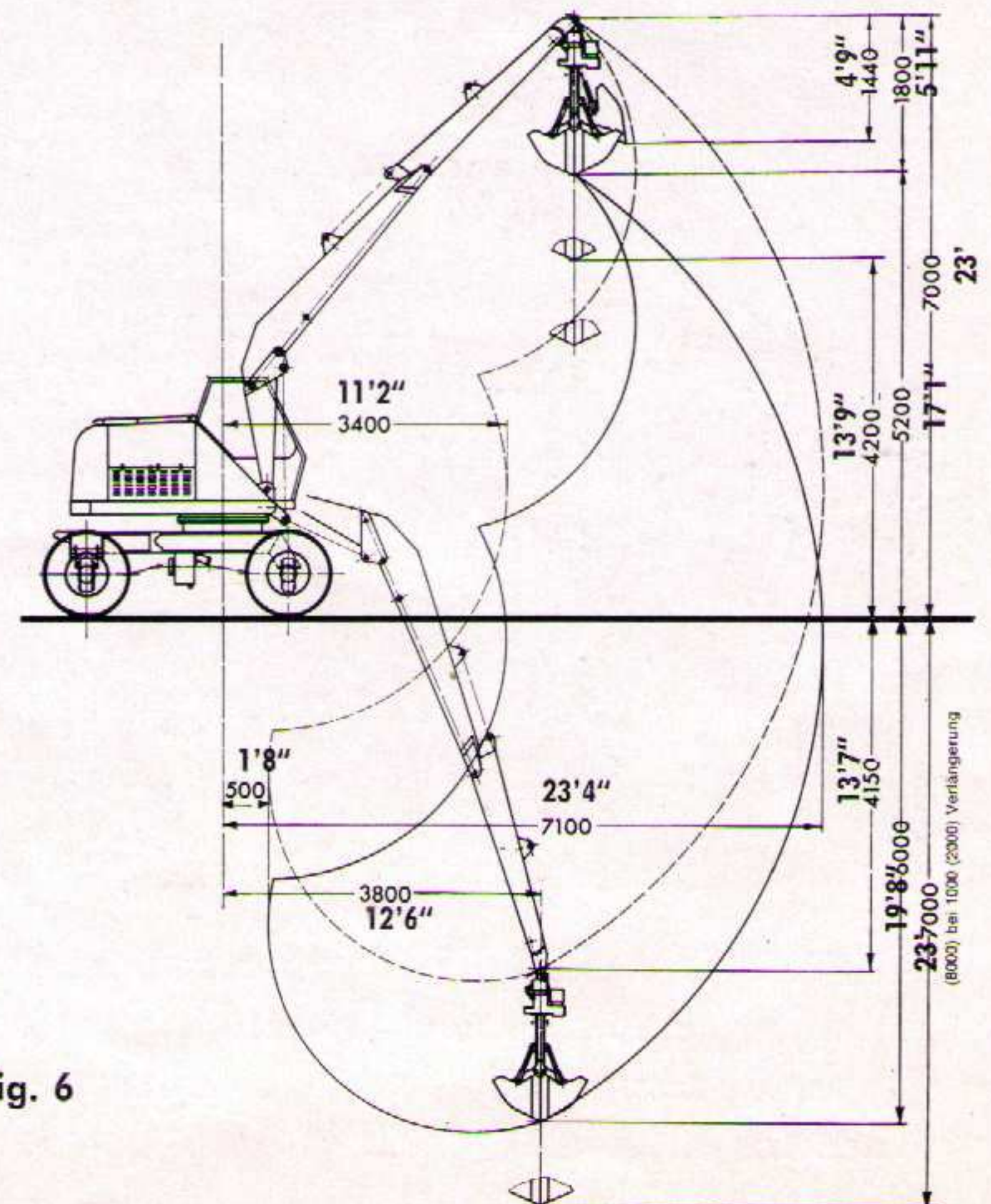
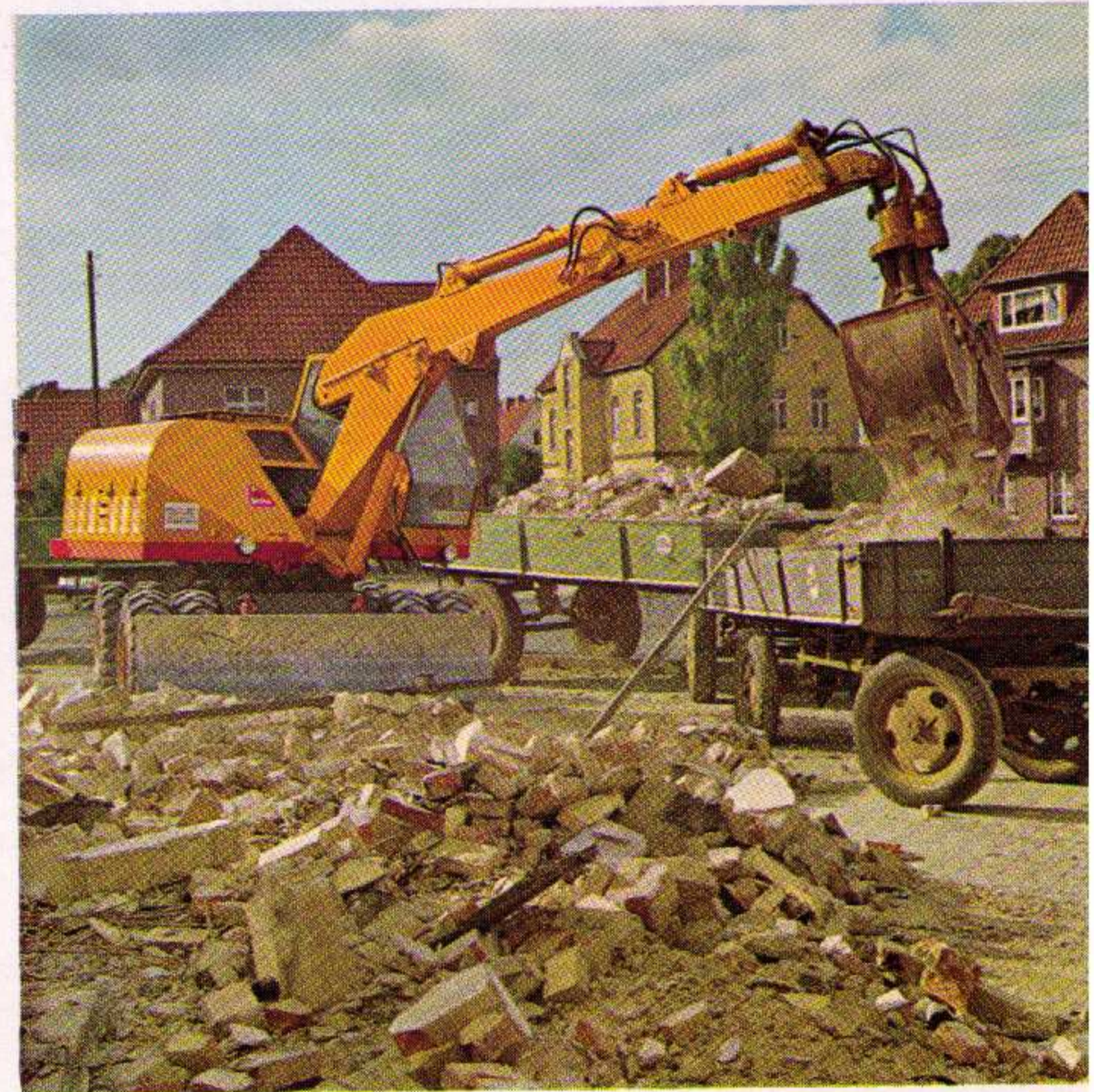


Fig. 6

The extensive reach is of great importance the excavator can operate without difficulty over heaped rubble, pits or foundation walls.

In house demolition the ATLAS EXCAVATOR "1500" can do all the work. The rubble is heaped together with the blade and removed by the excavator.



ATLAS EXCAVATOR "1500" with marsh tracks. The tracks can be widened to 3'2" by using track extensions. With this equipment the ground pressure is considerably reduced and the excavator can safely travel over difficult soft terrain. By means of the various attachments and special equipment most problems can be solved without difficulty. The ATLAS EXCAVATOR "1500" can do "made to measure" work — even when ditch digging!

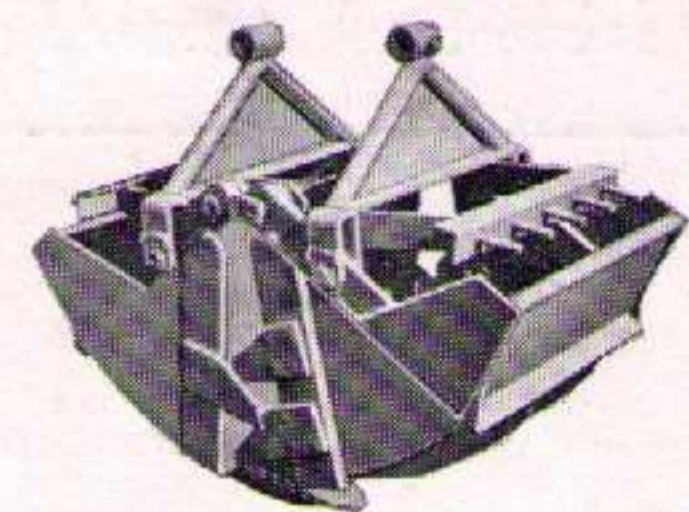
# The ATLAS 1500

with Grab and Grab extension excavating a trench.

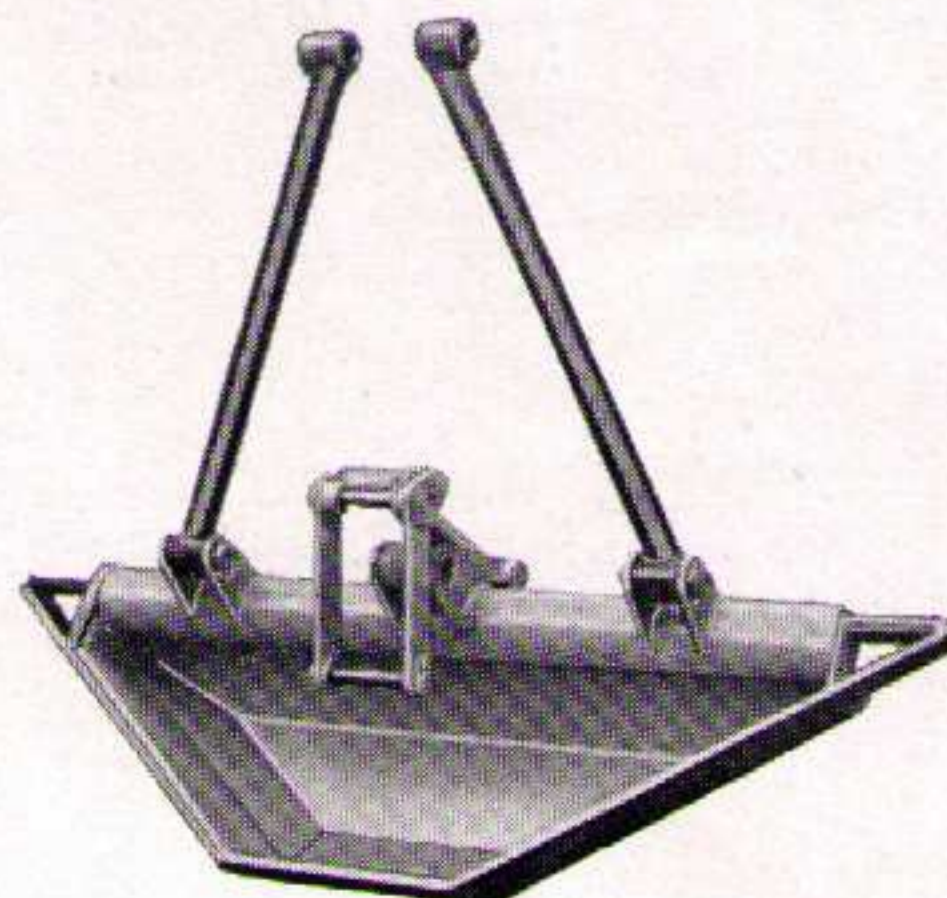


The Grab works to a hair's breadth between props and planking. Working with various Booms and Jibs in conjunction with Grab extensions of a variety of types ditch depths up to 26'3" may be dug.

Clay shovels E9, approx 9,7 cu.ft. capacity, 2' wide. A universal type of Grab.




6 cyl. multi-grab



trapezoid bucket

### Attachments -

other shovels can be supplied on request.



ATLAS EXCAVATOR "1500"  
Mass Excavation. With a rever-  
sable Back Actor/Face Shovel.

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Presented by:

Nr. 95/9/66 HS

**H. WEYHAUSEN KG. MANUFACTURERS, DELMENHORST**