

HYDRAULIC PILE DRIVER MACHINE
TONKER 830



PRESENTATION

HYDRAULIC PILE DRIVER MACHINE

TONKER 830



GENERAL DESCRIPTION

The MGI Tonker 830 is a pile driver machine designed and built to drive steel poles/piles into the ground.

The main components of the Tonker 830 are (1) the tracked undercarriage, which allows the machine to operate on different types of terrain and (2) the hydraulic percussion hammer, which is adjustable to different power ranges, to drive a variety of poles and steel profiles into the ground.

The machine is powered by the hydraulic energy generated by an oleo dynamic unit and activated by an endothermic engine and an oleo dynamic pump that powers the whole system.

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The Tonker 830 is a standard model that can be customized according to the requests of the client. It can be provided with columns of different heights (to support the percussion hammer) ranging from 4,500 to 5,500 mm.

Furthermore, with the Clamp Extractor, which can be supplied upon the specific request from the buyer, it is possible to extract poles even after having driven them into the ground without resorting to using additional devices.

Importantly the Tonker 830 has been designed so that it can be used in a safe and efficient manner by one trained person

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PRINCIPAL PARTS - 1



FOOTBOARD - Used by the operator to stand on when driving the machine with good standards of comfort and safety.

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PRINCIPAL PARTS - 2



COLUMN WITH HEADLIGHT - The column is used as a guide to place the hammer in the correct position in relation to the pile that will be driven into the ground.

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PRINCIPAL PARTS - 3

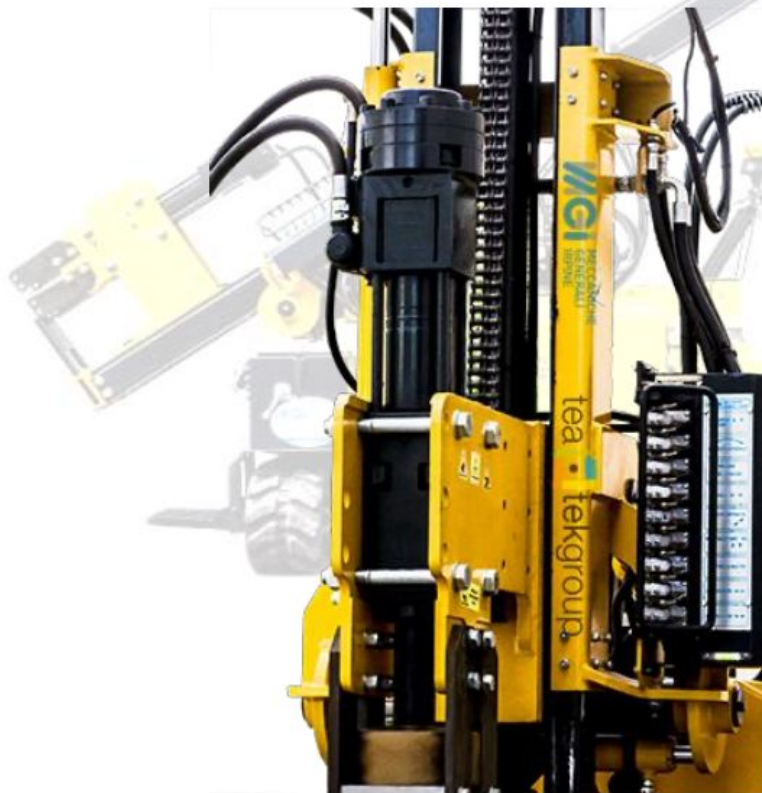


CROSS COLUMN - Contains the mechanism for the transverse movement of the column

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PRINCIPAL PARTS - 4



PERCUSSION HYDRAULIC HAMMER - Tonker 830 is equipped with, an easy to assemble, Indeco Spa hammer. Thanks to its power of 950 Joules and a range of 650 -1500 strokes/min, it provides outstanding performance in the ramming phase

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PRINCIPAL PARTS - 5



INTERNAL COMBUSTION ENGINE - It supplies energy to the hydraulic components of the machine

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PRINCIPAL PARTS - 6



HEAT EXCHANGER- It dissipates the excessive heat of the hydraulic oil.

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PRINCIPAL PARTS - 7



CATERPILLAR GEAR MOTOR - It is used to move the crawler car

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PRINCIPAL PARTS - 8



FUEL & HYDRAULIC OIL TANKS - These supply the internal combustion engine and the hydraulic system of the machine

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PRINCIPAL PARTS - 9



TOOL BOX

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PRINCIPAL PARTS - 10



STEEL POLE EXTRACTOR - By means of this device it is possible to apply a force up to 6,000 kg in extraction tasks (Attachment available upon customer request, it is not included in the price of the machine).

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PRINCIPAL PARTS - 11



SWINGING HEAD – Thanks to its design and stability, it makes possible the rapid insertion of wood /steel piles, having different cross-sections up to a size of 300 mm. The design, choice of material and shape of each head, can be made according to the customer's requests

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PRINCIPAL PARTS - 12



CRAWLER CART – The crawler cart dimensions are relevant. The specifications, being 2000 mm in length, 1980 mm in width and 480 mm in height, make it fast and highly manoeuvrable, even on uneven and rough ground.

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MACHINE USE

INTENDED USE

The machine has been designed and built to insert or drive metal poles for road or streets (guard rails), as well as to insert metal poles for photovoltaic panels.

With specific accessories supplied by the manufacturer, it is possible to extract the poles.

Any other use will invalidate any warranty.

UNAPPROVED USE

The machine must be used without making modifications.

Must not use the machine in a potentially explosive environment.

Must not use the machine with equipment not approved by the manufacturer.

Must not use the machine to transport people.

Must not use the machine to lift people to different heights using the hammer.

Must not use the machine with the column inclined to insert or remove poles.

Movement in public streets is forbidden since the machine is not approved to be driven in streets.

While working on public streets make sure to use proper signage around the work area.

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TECHNICAL FEATURES - 1

MACHINE MODEL	TONKER 830
INTERNAL COMBUSTION ENGINE	YANMAR - TIER 3
MODEL	4TNV88-BDYED
POWER (kW)	MIN 18 – MAX 35,4
SPEED (RPM)	3.000
HYDRAULIC PUMP (MODEL)	PUMP TUROLLA GRUPPO 3 IN CAST IRON
ENGINE CAPACITY OF HYDRAULIC PUMP (cc)	34
HYDRAULIC OIL TANK CAPACITY (lt)	180
ENGINE OIL TANK CAPACITY (lt)	5
FUEL TANK CAPACITY (lt)	55
ELECTRICAL SYSTEM VOLTAGE (V dc)	12
LONGITUDINAL SLOPE MAX (%)	23 (13°)
TRANSVERSE SLOPE MAX (%)	17 (10°)
MAXIMUM STEP HEIGHT (mm)	510
FULL SPEED (km/h)	4,5
MACHINE WEIGHT (kg)	4.000

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TECHNICAL FEATURES - 2

PERCUSSION HYDRAULIC HAMMER (950 e 1200 JOULE)		
MANUFACTURER	INDECO SPA	INDECO SPA
WEIGHT (kg)	185 (IN WORKING CONDITIONS 350 KG)	550 IN WORKING CONDITIONS
POWER AT IMPACT (Joules)	950	1200
HITS PER MINUTE (hits/min)	620-1500	580-1180
WORK PRESSURE (bar)	180	180
OIL FLOW (HAMMER) (l/min)	60/90	60/90

ROTARY HEAD (small and big version)		
TORQUE OUTPUT	500	2500
MEDIUM SPEED (RPM)	60	30
OIL FLOW MAX (l/min)	40	75
HYDRAULIC MOTOR (cc)	500	315
WORK PRESSURE MAX (bar)	200	200
CONNECTION TO THE ROTARY HEAD	FEMALE 3 1/2" API REGULAR	MALE 2 3/8" API REGULAR
MAXIMUM DIAMETER OF THE DOWNHOLE DRILLING HAMMER	4" (101,6 mm)	6" (152,4 mm)
MAXIMUM DIAMETER OF THE BIT (mm)	152	219