



MA.TRA. 300



language



MADE IN ITALY



MA.TRA. 300

MA.TRA.: A RANGE DESIGNED FOR GREENS MAINTENANCE PROFESSIONALS

BCS S.p.A. has been designing and manufacturing lawn mowers and garden machinery since 1943, the year of its establishment. The experience gained over the years and the success of these machines have enabled BCS S.p.A. to create a brand specifically for this market segment, namely Ma.Tra.

The professional models in the Ma.Tra. range are dedicated to users for whom a manicured garden is a true passion or a daily hobby. People and companies who use this type of machinery continuously demand the very best in terms of performance, reliability, comfort and cost-effective running, all enclosed within an innovative and attractive design.



THE NEW MA.TRA. 300: VERSATILITY THAT REACHES WHERE OTHERS COME TO A STOP.

The Ma.Tra. 300 is a professional multi-functional greens maintenance machine with four-wheel drive which has proven to be highly performing both in cleaning up rustic areas overrun with overgrown brambles, shrubs and brushwood, as well as on plots with normal lawns such as public flower beds and roadsides.

Easy handling, limited turning radius, a comfortable drive and ultimate stability even on steep slopes and slippery surfaces ensure high performance in all conditions of use.



HYDROSTATIC TRANSMISSION
with double pedal (forward/reverse) and two forward speed ranges.



LIMITED TURNING RADIUS
and steering wheel with hydro-guide operating on the rear wheels posteriori.



ENGINE WITH 29.4 HP POWER
and cooling system featuring a self-cleaning screen radiator.

THREE DIFFERENTIALS
front, rear and central, 'anti-scalp' for maximum traction and safety.

4-WHEEL DRIVE
with automatic disengagement when the fast speed is selected.



HYDRAULIC ADJUSTMENT OF CUTTING HEIGHT
directly from the driving position.



SERVICE BRAKES
with separate pedal operation.



LARGE COMFORTABLE DRIVING POSITION
with all controls within easy reach.

MA.TRA. 300

ENGINE AND TRANSMISSION

- > The Ma.Tra. 300 is fitted with Yanmar direct injection 3-cylinder diesel engine that develops 29.4 HP power at 3,000 rpm. The excellent thermal efficiency drastically reduces both fuel consumption and pollutant emissions, while performance levels are kept constantly high thanks to the outstanding torque reserve.
- > The engine cooling is provided by a special radiator with a self-cleaning screen, which is assisted by a high-capacity intake fan. The hydraulic circuit is cooled by the same air/oil combined radiator.
- > The double pedal (forward/reverse) hydrostatic transmission responds swiftly to the operator's commands, for maximum exploitation of the two forward speed range, slow for mowing (0 to 11.5 km/h) and fast for movement (0 to 23 km/h).
- > The 4-wheel drive makes it possible to work safely and with peace of mind even on slopes and uneven ground without ever

- losing grip. On the other hand, during movement, when the fast speed is selected, the rear-wheel drive is automatically disengaged.
- > The Ma.Tra. 300, in addition to traditional front and rear differential lock, implements a third central differential with torque splitter that eliminates any turf “scalping” damage when reversing and understeering, which is very common in a greens maintenance machine.
 - > The PTO clutch is electro-hydraulic with automatic blade brake and it enables soft and gradual power take-off.
 - > The ground clearance is 18 cm and the pivoting rear axle allows the Ma.Tra. 300 to work on rough terrain also and to overcome pavement curbs and bumps smoothly.

DRIVING POSITION

- > The driving position is generously-proportioned and comfortable. The clearly visible control instruments are integrated in the centre of the dashboard and all controls are positioned in an ergonomic and easy-to-reach position.
- > The adjustable spring seat, with armrests and a high back, designed in keeping with the adjustable steering column always put the operator at ease, regardless of his or her physique.
- > The steering wheel with hydro-guide controls the rear wheels and guarantees a turning radius of 400 mm (0 mm with the help of the independent brakes) and a relaxed drive even in the most difficult conditions.
- > The drum service brakes are independent and operate on the front wheels with separate pedals and a bolt to secure them during road travel.

LOAD-BEARING FRAME

- > The load-bearing frame of the Ma.Tra. 300 was built to make the machine extremely safe and compact. A single light and reliable structure makes it possible to house all the main components rationally.
- > The engine has been mounted in a raised position to avoid excessive overheating due to dust and debris generated by the cutting attachments in operation. It operates on flexible supports in order to minimise the transmission of any vibrations to the frame.
- > The Ma.Tra. 300 is equipped as standard with folding approved roll-bar, seat belts and lighting system approved for road traffic.



ENGINE	Yanmar 3TNV82
FUEL	Diesel
POWER KW/HP	21,9 / 29,4
NOMINAL SPEED (RPM)	3,000
NO. OF CYLINDERS	3
DISPLACEMENT (CC)	1,331
COOLING	Water

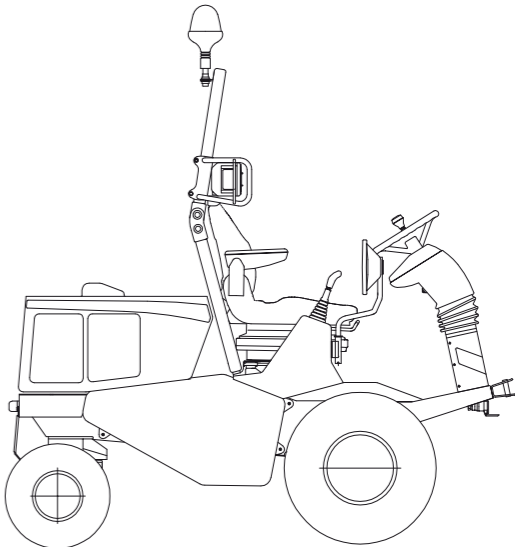
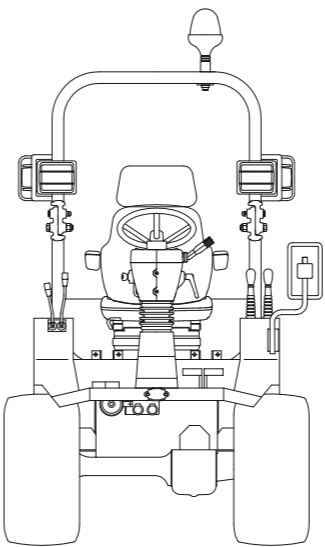
- > POWER 29.4 HP, LOW VIBRATION AND LOW NOISE.
- > HIGH-CAPACITY COOLING SYSTEM WITH SELF-CLEANING SCREEN RADIATOR.

- > ERGONOMICALLY DESIGNED CONTROLS, ADJUSTABLE SPRUNG SEAT WITH HIGH BACKREST FOR EXCELLENT DRIVING COMFORT.
- > LIGHT AND COMPACT FRAME FOR GUARANTEED SAFETY AND RELIABILITY.



TECHNICAL FEATURES

ENGINE	4-stroke direct injection Diesel
Model	YANMAR 3TNV82
No. of cylinders	3
Displacement cc	1,331
Aspiration	Natural
Maximum power at 3,000 rpm (kW/HP)	21.9 / 29.4
Maximum drive torque (Nm/rpm)	82.3 / 1,800
Cooling	Liquid
Tank capacity (l)	46
TRANSMISSION	Hydrostatic with two forward speed ranges (slow for mowing / fast for movement)
Travelling speed (km/h)	Slow speed range: 0 / 11.5 km/h - Fast speed range: 0 / 23 km/h
Drive control	Double pedal (forward / reverse)
DRIVE	Four-wheel drive with automatic disengagement when the fast speed range is selected
DIFFERENTIAL	Front, rear and central, 'anti-scalp'. The front differential has a pedal-operated lock and the central differential is concurrently locked
POWER TAKE-OFF	Rated speed: 2,770 rpm
Motion transmission system	Along a Cardan shaft
PTO clutch	Electro-hydraulic control with automatic blade brake
HYDRAULIC LIFT	Two cylinders with two-point coupler
ELECTRICAL SYSTEM	Alternator, 12 V - 40 A
STEERING	Steering wheel with hydro-guide, acting on the rear wheels
STEERING WHEEL	Adjustable, with tilting steering column
Minimum turning radius (mm)	400 (inside tyre) - Zero with the held of independent brakes
CONTROL INSTRUMENTS	Integrated into the dashboard on the steering column
SERVICE BRAKES	Independent drum service brakes operating on the front wheels with separate pedals with a bolt to secure them during road travel
Parking brake	Lever-operated, acting on the service brakes
SEAT	Adjustable and sprung. With high backrest, armrests and seat belts
TYRES	Front 26x12.00-12 with Garden profile or Terra Tyre * Rear 18x8.50-8 with Garden profile
STANDARD EQUIPMENT	Approved folding roll-bar, lighting system approved for road traffic, front hydraulic connection kit



Length:	2,200 mm (without attachment) 3,280 mm (with attachment)
Width:	1,315 mm (without attachment) 1,590 mm (with attachment)
Height:	2,360 mm
Ground clearance:	180 mm
Wheelbase:	1,300 mm
Empty weight:	1,107 kg (without attachment) 1,400 kg (with attachment)

ATTACHMENTS



FRONT CUTTING DECK MUSTER CM 140

- > This is the ideal equipment both for clearing areas overrun with overgrown brambles, cane thickets or generally tiresome undergrowth, as well as for mowing lawns in public parks, gardens, flower-beds and roadsides.
- > The secret of the unprecedented performance levels of the Muster is the special layout of two horizontal rotors with differentiated blades: the first rotor with grass-cutting blades cuts off the stems, while the second V-blade trimmer re-cuts the clippings into tiny even pieces and blows them back on to the lawn.
- > This makes for faster decomposition, giving the soil all the nutritional substances and encouraging the growth of a healthier lawn. This system is both practical and fast and it ensures savings in time and disposal costs.
- > In the presence of uneven and rough ground, an anti-scalp roller protects the surface and allows the attachment to proceed and overcome any sunken soil.
- > The cutting height of between 25 and 85 mm can be adjusted hydraulically directly from the driving position.

FINE GRASS: MORE EFFICIENT AND PRACTICAL THAN THE BEST MULCHING SYSTEM
HIGH GRASS: MORE PRACTICAL AND FASTER THAN THE BEST PROFESSIONAL MOWER
BRAMBLES: BETTER AND MORE UNRELENTING THAT THE BEST HEAVY-DUTY MOWER

THE SERVICES

**SPARE PARTS**

A complete range of original spare parts, guaranteed directly by the manufacturer.

**ASSISTANCE**

A team of specialists, well prepared and available to assure an efficient and resolving service.

**WARRANTY**

A precise certainty for the customer's satisfaction:
2-year warranty included in the price.

**LUBRICANTS**

We recommend to use the original PowerLube lubricants.



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