

Serie 6500

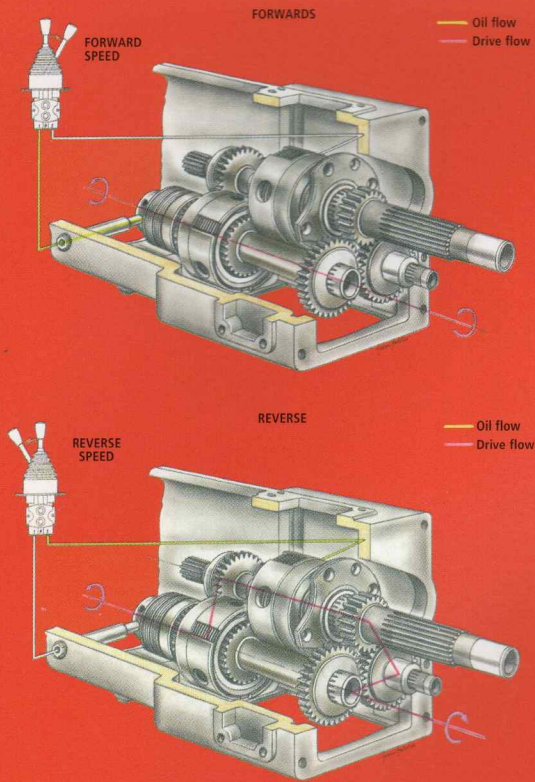
VARIANT - ARTICULATED
FOUR WHEELS EQUAL SIZE
REVERSIBLE FOUR WHEELS EQUAL SIZE



VALPADANA
think compact



HYDRAULIC REVERSE SHUTTLE



6500 SERIES: the "REVERSED PAST" tractors

Yes!the **FUTURE's** the place in which the 6500 Series vehicles have been created and the idea of making the **exclusive hydraulically controlled speed reversing system** comes straight from the "Reversed past".

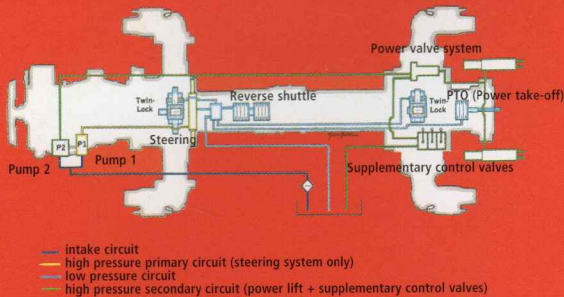
With its **ten models**, the series embraces all modern farming requirements, even those of future operators.

These machines, which have been created, designed and built in accordance with the "**compact philosophy**", go way beyond the concept of the purely conventional tractor to venture into the world of the "**specialistic tractor**", until becoming true **multi-functional implement carriers**.

Inspired by this basic notion, Valpadana's 6500 Series offers a range of products with the maximum **added value**, ones that are able to adapt perfectly to all the jobs required in **orchards, vineyards, for hay-making, in greenhouses and overhead cultivations, for farm management purposes, in nurseries and for vegetable growing**.

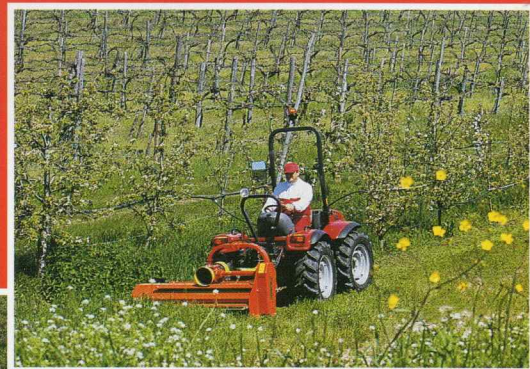
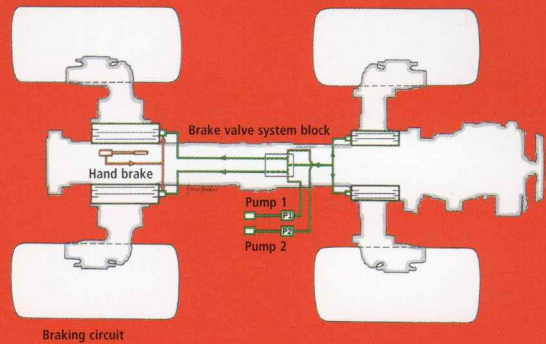
Thanks to their all-purpose use, these vehicles can be employed on a daily basis, something that increases their profitability and notably reduces the time it takes to amortize their initial cost. This makes them a **sure-fire investment**.

The utmost in **added value** obtained with all these vehicles, is represented by use of the new and exclusive **drive reversing system featuring dedicated oil-cooled multiple-plate clutch assemblies**. These are **con-**



HYDRAULIC CIRCUIT

BRAKING CIRCUIT



The only ones with hydraulic reverse shuttle

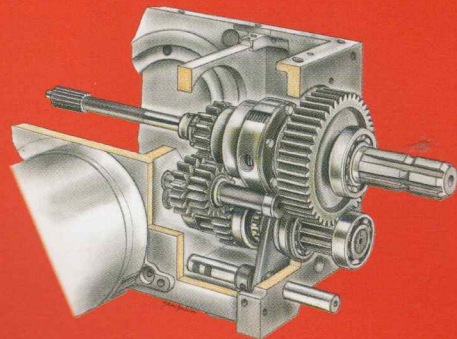
trolled either hydraulically from the console or by means of the dedicated pedal.

This singular feature makes the vehicles much more agile and increases their global efficiency, makes the transmission longer lasting (since there are no mechanical synchronizers in the reverse shuttle and no conventional clutch assemblies with dry plates), **does away with all adjustments** due to wear and allows the **front overhang to be reduced to the minimum** while allowing all 4-cylinder engine ratings to be used

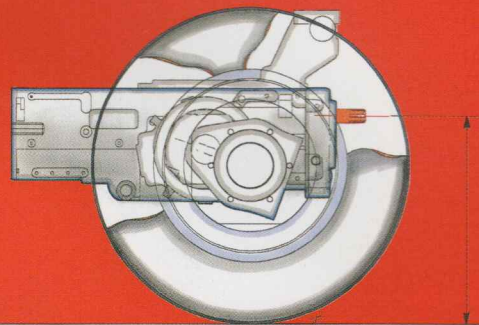
All this, plus the extraordinary ability to interchange all the currently available standard implements, whether they are pushed, towed or mounted, driven by the **electrohydraulically engaged 540/750 PTO**, or by the powerful supplementary hydraulic circuit with a maximum flow rate of almost 50 l/min.

The aspirated and turbocharged engines, the chassis with +/- 15° swing **between the axles**, the comprehensive range of models with **four wheels equal size, variant and articulated** versions, the driving seat on silent-blocks which comes in either the reversible version with sprung pedals and the lowered one-way version, the 16+16 transmission with a single central lever and **40 kph top speed**, the **very tight turning radius** and all the other features you'll discover, make the 6500 series tractors *the very best work mate* you'll ever desire.

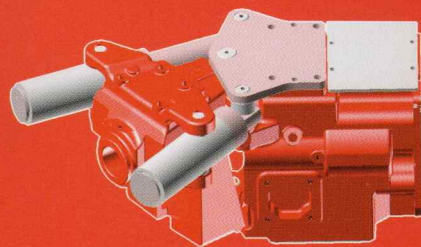
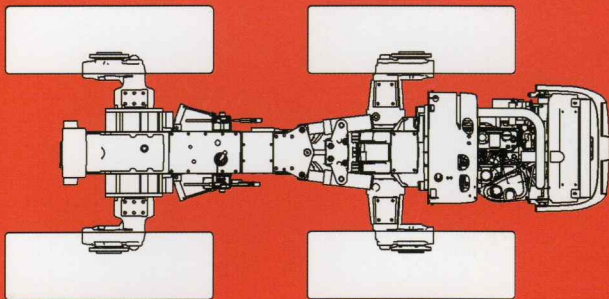
POWER TAKE-OFF



PTO in upward position



ARTICULATED TRANSMISSION



ARTICULATED PIVOT



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4-cylinder Yanmar engines and openable integral bonnet

All the engines in the **TNV Euro 2** series are known on the market as a reference point when it comes to **reliability, performance and low consumptions**.

Model 4 TNV 88, with a displacement of about **2200 cc, 46 HP ISO power rating and 144 Nm torque**, is the liveliest of its category. The generous displacement ensures **long life and fade-free performances**.

Model 4 TNV 84 T has a displacement of about **2000 cc**. It is the **turbocharged 16-valve type** with **54 HP ISO power rating and 164 Nm torque**, and is the **technologically most avant-garde** engine available on the market, one that's able to provide record performances.

Both engines have an **optimum cooling system** suitable for temperature climates and, thanks to the **50 liter capacity tank** possess **remarkable autonomy** even when heavy duty jobs must be done.

The **integral bonnet which opens through 90°** and the fast way the side grilles can be dismantled, make the internal components **perfectly accessible** and allow all **routine and supplementary maintenance work** to be carried out very quickly, speeding up the jobs required to keep the vehicle efficient.



Swinging chassis: absolute efficiency and safety

Thanks to its special shape with overhanging engine, the chassis ensures that **the tractor and implement are perfectly balanced, reducing the wheelbase and turning radius** and making the two axles independent and able to swing as much as 15 degrees upwards and 15 downwards.

Only in this way can a tractor be obtained with a **low center of gravity and driving position** able to slip under **overhead cultivations** with the operator standing while manoeuvring **amongst crops on slopes**.

The decision to "eliminate" the clutch that linked the engine and transmission enabled the planning engineers to retract the engine, thus obtaining an **overhang of less than 120 mm while installing 4-cylinder engines**.

The 6500 Series vehicles, whose overturning index is far higher than the side grip of the tyres, **safely challenge the laws of gravity**, maintaining a **perfect balance** and an **optimum operating range**.

Transmission: being exclusive today!

The exclusive innovation featured by these tractors is the **drive reversing system** which uses oil-cooled multiple-plate clutch assemblies hydraulically controlled by means of a dedicated lever on the steering wheel.

This integrated system **makes manoeuvring more accurate, lengthens the life of the transmission, does away with all adjustments due to wear and makes the vehicle extremely easy to handle**.

The gearbox features **4 synchronized speed gears, 3 reduction ranges and a creeper** for a total **16 forward speeds and 16 reverse speeds**. The vehicles are able to drive at up to **40 kph**.

The **oil-cooled multiple-plate PTO clutch with automatic brake** is electrohydraulically controlled and offers two normal spinning rates, **540/750 RPM**, plus one synchronized with the gearbox.

The **TWIN-LOCK simultaneous axle locking system** is electrohydraulically controlled and releases automatically when touched by the steering brakes, so as to always provide the **maximum lugging power and safety**.

Electrohydraulic disengagement of the front drive reduces the turning radius and prevents the soil from being damaged too much when the tractor is manoeuvred in tight corners.

As a whole, this new transmission makes the 6500 Series vehicles **truly specialistic machines** able to meet all the requirements that operators may ask of tractors of this type.



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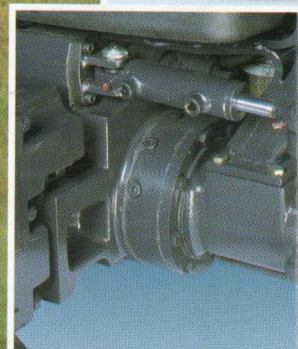


VARIANT
6550 VRM / 6560 VRM



ARTICULATED
6550 ARM / 6560 ARM

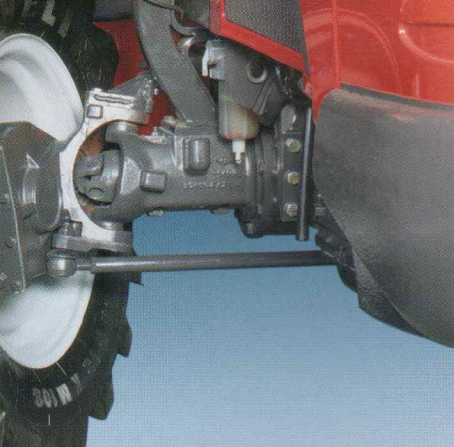
The specialization continues.



**FOUR WHEELS
EQUAL SIZE
6550 ISM / 6560 ISM**



**REVERSIBLE
FOUR WHEELS EQUAL SIZE
6550 ISR-REV / 6560 ISR-REV**



Steering system: the utmost in agility

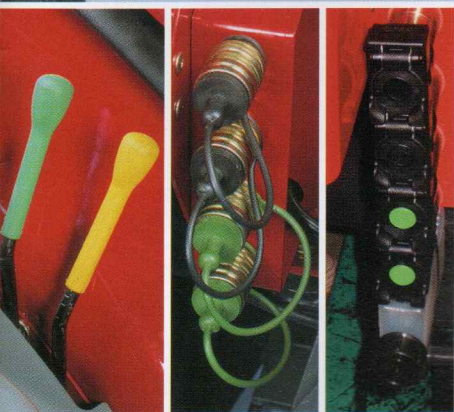
For these specialistic vehicles, a tight turning radius is a peculiar characteristic and, thanks to the increased **steering shaft tilt**, the **diversified steering angle** between the inner and outer wheel and to the **two double-acting rams** linked to the coupling bars, allows turning around a **1.6 meter inner radius** which improves by disengaging the front drive and using steering brakes.

Installation of a **fast single driveline** in the articulated version to link the engine and transmission, allows the chassis to lean to a greater extent until it reaches a **1.5 meter inner steering radius** without additional noise or damage to the soil.

Hydraulic circuit: up to 40 l/min. with heat exchanger

The steering system and supplementary hydraulic circuit are supplied by **two dedicated pumps** with **11 l/min.** and **28 l/min. (40 l/min. optional)** flow rates so as to avoid all possible interference between the two systems.

The way the **control valves and hydraulic taps** can be **customized**, the generous capacity of the hydraulic tank and the efficiency of the **dedicated heat exchanger**, allow these vehicles to hitch all types of hydraulically towed implements.



Rear power lift: made to measure!

The rear lifting system, with a **1700 kg maximum capacity**, has been created to meet all the customers' requirements, allowing them to choose between: **normal control** or the **option with draft and position control**, and amongst the **different types of coupling bar** with quick hitch, lengthening, adjustable or fixed coupling with side shift functions.



Braking system: the utmost in safety

The reversible models, also used for difficult jobs like hay-making in mountain areas or in vineyards on sloping ground, are fitted with a **powerful integral braking system with oil-cooled plates** plus hydraulic control that provides the **utmost both during work and when driving on the roads at 40 kph.**

The non reversible models are equipped with a **toughly built braking system** with oil-cooled plates which, thanks to the permanent engagement of the four-wheel drive also transmits the braking effect to the front drive to ensure **safe integral braking.**

Driving position: MONO or REV as needed

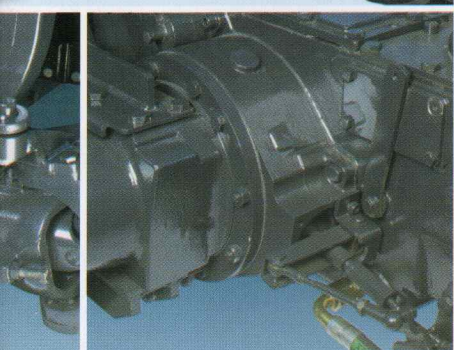
Since the **revolving turret, sprung pedals and piston-supported seat** are reversible, it only takes a few seconds to turn the driving position.

When pushed implements are used, reversed driving **improves the visibility and reduces manoeuvring errors, increasing the average operating speed.** It becomes essential when implements such as the hydraulic elevator are used.

The **non reversible driving position is absolutely the lowest**, allowing the operator to work standing even under **overhead or "Y" type cultivations.**

The controls, positioned according to ergonomic dictates in both versions, feature **one single central lever**, making the **driving position uncluttered, comfortable and easily reached.**

Both the non reversible and Reversible driving positions are mounted on a **sprung platform** and are perfectly sealed to provide a **clean, pleasant and silent place of work.**

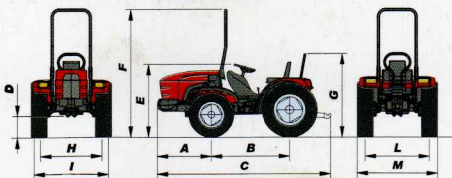




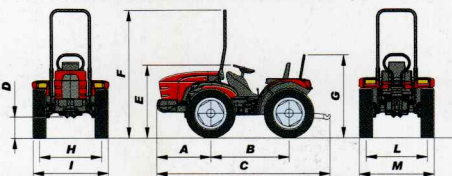
	6550 VRM	6560 VRM	6550 ARM	6560 ARM	6550 ISM	6560 ISM	6550 ISR-REV	6560 ISR-REV
Engine (green) Yanmar direct injection (EURO2/TIER2) maximum power ISO engine rate maximum torque maximum torque engine bore x stroke displacement N° cylinders/ n° valves compression ratio water cooling system air filter fuel tank capacity	4TNV88 - KVA HP/kW 46/34 rpm 2800 Nm 144 rpm 1600 mm 88x90 cm³ 2189 4 / 8 18:1 STD dry litres 50	4TNV84T - KVA HP/kW 54,2/39,9 rpm 2800 Nm 164 rpm 1600 mm 84x90 cm³ 1995 4 Turbo / 16 18:1 STD dry litres 50	4TNV88 - KVA HP/kW 46/34 rpm 2800 Nm 144 rpm 1600 mm 88x90 cm³ 2189 4 / 8 18:1 STD dry litres 50	4TNV84T - KVA HP/kW 54,2/39,9 rpm 2800 Nm 164 rpm 1600 mm 84x90 cm³ 1995 4 Turbo / 16 18:1 STD dry litres 50	4TNV88 - KVA HP/kW 46/34 rpm 2800 Nm 144 rpm 1600 mm 88x90 cm³ 2189 4 / 8 18:1 STD dry litres 50	4TNV84T - KVA HP/kW 54,2/39,9 rpm 2800 Nm 164 rpm 1600 mm 84x90 cm³ 1995 4 Turbo / 16 18:1 STD dry litres 50	4TNV88 - KVA HP/kW 46/34 rpm 2800 Nm 144 rpm 1600 mm 88x90 cm³ 2189 4 / 8 18:1 STD dry litres 50	4TNV84T - KVA HP/kW 54,2/39,9 rpm 2800 Nm 164 rpm 1600 mm 84x90 cm³ 1995 4 Turbo / 16 18:1 STD dry litres 50
Shuttle hydraulic disk oil bath type clutch control	STD STD hydraulic	STD STD hydraulic	STD STD hydraulic	STD STD hydraulic	STD STD hydraulic	STD STD hydraulic	STD STD hydraulic	STD STD hydraulic
Transmission Standard gearbox + creeper + shuttle +16 forw. + 16 rev. maximum travelling speed km/h 40	STD STD	STD STD	STD STD	STD STD	STD STD	STD STD	STD STD	STD STD
Power Take-off Hydraulic engagement Electro-hydraulic engagement N° 2 speeds 540/750 rpm 1" 3/8 (mm 34,9) shaft with 6 splines ground speed (synchronised with gearbox)	STD - STD STD STD	STD - STD STD STD	STD - STD STD STD	STD - STD STD STD	STD - STD STD STD	STD - STD STD STD	- STD STD STD STD	- STD STD STD STD
4WD front axle dropped reduction axle Permanently engaged 4WD Electrohydraulically engaged 4WD maximum pivoting angle twin-lock electro-hydraulic differential lock	STD STD - degrees ± 15 STD	STD STD - degrees ± 15 STD	STD STD - degrees ± 15 STD	STD STD - degrees ± 15 STD	STD STD - degrees ± 15 STD	STD STD - degrees ± 15 STD	STD STD - degrees ± 15 STD	STD STD - degrees ± 15 STD
Brake mechanic control hydraulic control rear with oil bath disks front with oil bath disks	STD - STD -	STD - STD -	STD - STD -	STD - STD -	STD - STD -	STD - STD -	- STD STD STD	- STD STD STD
Hydraulic power lift power lift with Up-Down movement and blocking valve draft control maximum lifting capacity Hydraulic pump capacity (lift + steering) Std three point linkage with quick coupling 2 way adjust.3 point linkage with quick coupling n. 1 rear control valve n. 2 rear control valve n. 3 rear control valve oil linkage drain recovery kit	STD OPT kg 1700 l/min 28+19 1" cat STD OPT STD OPT OPT	STD OPT kg 1700 l/min 28+19 1" cat STD OPT STD OPT OPT	STD - kg 1700 l/min 28+19 1" cat STD OPT STD OPT OPT	STD - kg 1700 l/min 28+19 1" cat STD OPT STD OPT OPT	STD OPT kg 1700 l/min 28+19 1" cat STD OPT STD OPT OPT	STD OPT kg 1700 l/min 28+19 1" cat STD OPT STD OPT OPT	- STD kg 1700 l/min 28+19 1" cat STD OPT STD OPT OPT	- STD kg 1700 l/min 28+19 1" cat STD OPT STD OPT OPT
Driver seat silent blocks suspended platform automatic reverse drive system cushioned driver seat analog dash board instruments	STD - STD STD	STD - STD STD	STD - STD STD	STD - STD STD	STD - STD STD	STD - STD STD	STD STD STD STD	STD STD STD STD
Tow hook cat "B" adjustable in height "SLIDER" cat "B" type	STD OPT	STD OPT	STD OPT	STD OPT	STD OPT	STD OPT	STD OPT	STD OPT
Standard and optional tyres front and rear front and rear front and rear front and rear front and rear front and rear front and rear front and rear front and rear front and rear front and rear front and rear front and rear front and rear front and rear	7.50-16 and 9.50-20 8.25-16 and 11.2-26 7.50-16 and 300/70-20 250/80-16 and 320/70-20 8.25-16 and 320/70-20 260/65-16 and 280/70-20 300/65-18 and 320/70-20 280/70-18 and 320/70-20		250/80-18 280/70-18 300/65-18 320/65-18 8.00-20 9.5-20 11.2-20 300/70-20 320/70-20 31x15.50-15 33x12.50-15 33x15.50-15 31x15.50-15 Garden 33x12.50-15 Garden 33x15.50-15 Garden		7.50-16 8.25-16 250/80-16 280/70-16 250/80-18 280/70-18 300/65-18 320/65-18 31x15.50-15 33x12.50-15 33x15.50-15 31x15.50-15 Garden 33x12.50-15 Garden 33x15.50-15 Garden			

Key: STD = standard; OPT = optional; - = not available

VARIANT



ARTICULATED - FOUR WHEELS EQUAL SIZE



Weights and dimensions (in running order)

	VRM	ARM	ISM	ISR-REV
with front tyres	250/80-16	320/70-20	320/65-18	
with rear tyres	320/70-18	320/70-20	320/65-18	
WEIGHT				
Total	kg. 1700	kg. 1600	kg. 1700	kg. 1700
Front axle	kg. 1050	kg. 1000	kg. 1050	kg. 1050
Rear axle	kg. 650	kg. 600	kg. 650	kg. 650
DIMENSIONS				
A. Front projection	mm 925	mm 925	mm 925	mm 925
B. Wheel base	mm 1394	mm 1454	mm 1394	mm 1394
C. Overall length	mm 3470	mm 3300	mm 3470	mm 3470
D. Ground clearance	mm 290	mm 300	mm 300	mm 300
E. Height to steering wheel	mm 1180	mm 1150	mm 1180	mm 1260
F. Height to safety frame	mm 2165	mm 1990	mm 2200	mm 2200
G. Height to rear safety frame	mm 1265	mm 1320	mm 1290	mm 1420
H. Front track adjustments:	Min. mm 1096 Max. mm 1396	mm 924 mm 1062	mm 1118 mm 1414	mm 1118 mm 1414
I. Front width:	Min. mm 1336 Max. mm 1636	mm 1242 mm 1380	mm 1429 mm 1725	mm 1429 mm 1725
L. Front track adjustments:	Min. mm 1030 Max. mm 1300	mm 924 mm 1062	mm 1118 mm 1414	mm 1118 mm 1414
M. Rear width:	Min. mm 1348 Max. mm 1618	mm 1242 mm 1380	mm 1429 mm 1725	mm 1429 mm 1725



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Gruppo Industriale ARGO