



EQUAL-WHEELED
TRACTORS

VP 4600 **VRM**

VP 4600 **ISM**

VALPADANA

ORIGINAL
PASSION

4600 Series...

The 4600 series completes Valpadana's range of equal-wheel tractors in the low-power range. These compact tractors provide superior performance and unique technical features.

Supplied in a variety of configurations, with either equal wheels or oversized rear wheels, they are specially designed for intensive crop cultivations such as orchards and vineyards, greenhouses and nurseries, as well as for the maintenance of green areas.

These ultra-compact tractors cover the power range from 23 to 47.5 hp. **They feature quiet, environmentally-friendly engines, a powerful wet multi-disc braking system, a synchronized transmission with 8 FWD + 4 REV speeds and a completely independent PTO with wet multi-disc clutch.**

The sturdy construction of the chassis, along with a high lifting capacity, allows the 4600 series tractors to work with heavy implements in complete safety.

Special attention has been paid to the steering system which features a steering cylinder integrated into the housing, thereby dispensing with the conventional front wheel tie rod, while providing **impressive steering angles**.

The driving position mounted on semi-platform with tilting steering wheel and gearshift levers placed to the driver's side, and the instrument panel with ergonomically arranged controls make the 4600 tractor comfortable and safe to drive in every situation.



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ISM:

One-way Equal-wheel

The equal-wheel version allows both the front and rear fenders to be mounted in low position, making this tractor ideal for use in greenhouses, overhead trellis systems and dense-canopy crops.

The tractor design gives the driver an unobstructed view of the rear implements, allowing for safe manoeuvring even in confined spaces.



The chassis has been redesigned with a new hood and a large, more aggressive front grill to provide better air flow.

The sloping hood design provides optimum visibility and the headlights are integrated into the front fenders.

The rear fenders - either low-mounted for the ISM version or high-mounted for the VRM version - follow the tyre profile preventing low-hanging branches from getting caught.

VRM:

One-way Variant

Equipped with oversized rear wheels, the VRM model offers greater traction capability for maximum productivity in any situation.

With a super tight turning radius and only the rear final drives turned upwards, the VRM version maintains a low centre of gravity.

Specially designed for medium-scale orchards and vineyards, this tractor model can be equipped with implement draft and position control, making it ideal for operation with ploughs, spring cultivators and grubbers.

SAFETY FRAME

An approved front folding ROPS allows this tractor to comfortably work in overhead trellis systems, dense-canopy crops and greenhouses, while ensuring maximum operator safety.

ENGINES

The 4600 series offers three Yanmar liquid-cooled, three and four cylinder engine options, including a direct-injected 23-hp model and two indirect-injected models delivering 36 and 47,5 hp respectively. All engines meet the Euro III emission standards and are equipped with a 35-liter fuel tank ensuring many hours of operation without refuelling.

2006/42/EC MACHINERY DIRECTIVE

Hood opening device, protection against hot surfaces and engine oil sump guard, double protection for hydraulic hoses.

2006/42/EC MACHINERY DIRECTIVE

General safety switch, operator presence sensor, transmission neutral sensor, double protection on electric cable rub points.

CHASSIS

The chassis with $\pm 15^\circ$ oscillation between the two axles provides maximum traction on all terrains, while keeping a low centre of gravity for optimum stability of the tractor/implement combination and increased safety on slopes.

STEERING SYSTEM

The first equal-wheel tractor with a single "central drive" cylinder and diversified steering angles for an unbeatable turning radius. This feature makes for a cleaner design, while increasing the efficiency of the steering system.

TRANSMISSION

The only "low power" equal-wheel tractor with a synchronized 8 FWD + 4 REV gearbox, a maximum speed of 30 km/h and controls to the side of the steering wheel. Synchromesh gears allow smooth and quick gear change even while the tractor is moving, without damaging the transmission. This makes the tractor very easy to use while providing a high performance for long-distance travel and transport operations.

VISIBILITY

The compact and clean design of the tractor offers the operator optimum all-round visibility.

ACTIVE SAFETY

The powerful braking system and improved axle oscillation combine with excellent traction and unequalled stability on all terrains, maximizing the active safety of the tractor.



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ORIGINAL PASSION



BRAKES

The only "low power" equal-wheel tractor with **internal wet multi-disc brakes** for superior braking performance in any conditions with no need for maintenance or adjustment. This braking system increases considerably the active safety of the vehicle, making it ideal for work on sloping terrain and transport operations, or any situation requiring the use of the steering brakes.

DRIVE

The four-wheel drive and differential locking system provide optimum wheel grip and lugging power in any conditions. The front-wheel drive can be disengaged to minimize soil damage.

DRIVING POSITION

With the gearshift levers placed to the side of the steering wheel and the ergonomic arrangement of all controls, the driving position mounted on semi-platform is the most uncluttered and comfortable of its category.

POWER TAKE-OFF

The only "low power" equal-wheel tractor with a **completely independent power take-off engaged via a wet multi-disc clutch**. The PTO system features a clutch and a control device that enable control of the PTO rotation independently of the tractor transmission. This allows the operator to either start or stop the rotation of the PTO shaft while the tractor is moving, or to keep the rotation of the implement constant both while changing gears and while operating the clutch pedal for starting and stopping the tractor.

PASSIVE SAFETY

In full compliance with current regulations on work safety, the 4600 series tractors provide a comfortable and safe driving position.

POWER LIFT

The power lift is equipped as standard with raise/lower and float functions. Lowering speed adjustment and draft control are available as options. The lift features two adjustable lifting bars and a cat. 1 three-point hitch providing a maximum lift capacity of 1000 kg.

4600 series: the compact shape of technology

Original Passion: the key features of the 4600 series

The driving position with sprung seat and tilting steering wheel allows any driver to find the most comfortable position.

Viewed from above, the driving position has a clean, uncluttered design which provides plenty of room and a comfortable access to the driver's seat. The fully synchronised transmission with the control levers placed to the sides of the steering wheel offers 8 forward and 4 reverse gears providing a maximum speed of 30 km/h.

The PTO is completely independent of tractor motion, allowing the implement to be raised or lowered at any time regardless of whether the tractor is moving or stationary.

This feature makes the Valpadana 4600 a **unique** tractor, capable of operating with extreme accuracy in every situation, especially when working with sprayers, cultivators, spading machines, and other PTO-driven implements that must be stopped for headland turning.

The new exclusive "central drive" steering system with cylinder integrated into the front axle allows tight turning and dispenses with the conventional front wheel tie rod, thus eliminating an exposed element in the front of the tractor.

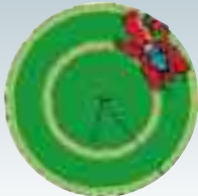


THE BENEFITS

- Safe and comfortable driving position
- Maximum speed 30 km/h
- Utmost precision when working with the PTO
- High maneuvering speed in confined spaces with "central drive" steering system
- Maximum productivity
- Less stress for the operator



Turning radius	VRM	ISM
with front wheels	260/70R16	260/70R16
with rear wheels	300/70R16	260/70R16
• INNER RADIUS	1,25 m	1,25 m
• OUTER RADIUS	3,00 m	2,85 m
track widths	970 mm	970 mm



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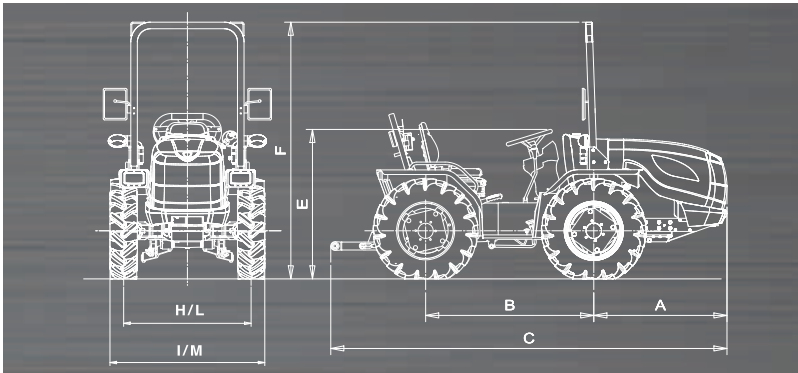
ORIGINAL PASSION

Weights and dimensions

(in running order without driver)

		4630 ISM	4645 ISM	4655 ISM	4645 VRM	4655 VRM
with front wheels		7.50 R16	7.50 R16	7.50 R16	7.50 R16	7.50 R16
with rear wheels		7.50 R16	7.50 R16	7.50 R16	300/70 R20	300/70 R20
• WEIGHTS						
Total	kg	1160	1235	1290	1250	1305
Front axle	kg	700	750	800	750	800
Rear axle	kg	465	485	490	500	505
• DIMENSIONS						
A. Overhang	mm	920	920	1012	920	1012
B. Wheelbase	mm	1280	1280	1280	1240	1240
C. Total length	mm	2888	2888	2980	2888	2980
D. Ground clearance	mm	208	208	208	208	208
E. Height to steering wheel	mm	1095	1095	1095	1095	1095
F. Height to safety frame	mm	1954	1954	1954	1954	1954
G. Height to rear safety frame	mm	1250	1250	1250	1250	1250
• DIMENSIONS WITH VARIOUS TYRES COMBINATIONS						
H. Front track widths	Min./Max. mm	970/1286	970/1286	970/1286	970/1126	970/1126
I. Front width	Min./Max. mm	1178/1494	1178/1494	1178/1494	1178/1494	1178/1494
L. Rear track widths	Min./Max. mm	970/1286	970/1286	970/1286	936/1250	936/1250
M. Rear width	Min./Max. mm	1178/1494	1178/1494	1178/1494	1202/1472	1202/1472

EQUAL WHEELS



ISM wheels

front / rear

7.50-16

260/70R16

29x12.50-15 Garden



VARIANT

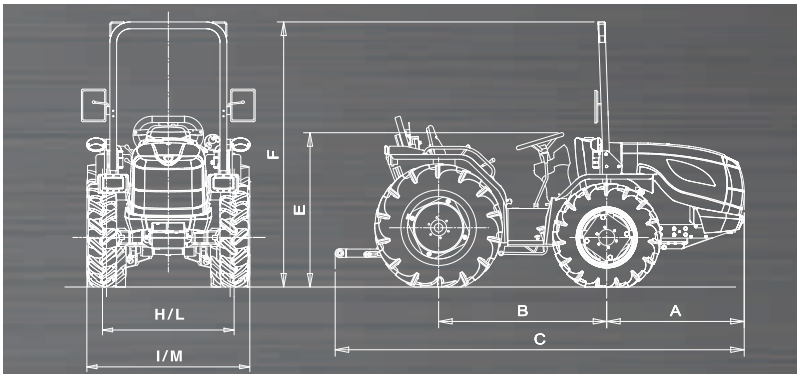
VRM wheels

front / rear

7.50-16 and 9.50R20

7.50-16 and 300/70R20

260/70-R16 and 300/70R20



Thank you for the time you have dedicated to reading this brochure. We hope we have been able to convey the superiority of our products, which are the result of the “Original passion” that drives the Valpadana team and which we hope you will soon share with us.



VP 4600

4630 ISM

4645 ISM

4655 ISM

4645 VRM

4655 VRM

Engine		(TIER 3)	(TIER 3)	(TIER 3)	(TIER 3)	(TIER 3)
make		YANMAR	YANMAR	YANMAR	YANMAR	YANMAR
injection		indirect	direct	direct	direct	direct
model		3TNV76 - XVA	3TNV88-BKVA	4TNV88-BKVA	3TNV88-BKVA	4TNV88-BKVA
ISO max. power speed	HP / kW	23 / 17	35,5 / 25	47,5 / 35	35,5 / 25	47,5 / 35
engine speed	RPM	2800	2800	2800	2800	2800
maximum torque	Nm	66	105,4	142,7	105,4	142,7
max. torque speed	RPM	1800	1200	1100	1200	1100
swept volume	cc	1115	1642	2189	1642	2189
N° cylinders / valves		3 / 6	3 / 6	4 / 8	3 / 6	4 / 8
water cooled		STD	STD	STD	STD	STD
fuel tank capacity	liters	35	35	35	35	35
Transmission						
mechanical gearbox with 8 FWD + 4 REV speeds		synchronized			synchronized	
max. speed		30 km/h			30 km/h	
Power take-off						
engine / gearbox connection		independent			independent	
control		mechanical			mechanical	
1 speed 540 RPM		STD			STD	
1" 3/8 (34.9 mm) PTO shaft with 6 splines		STD			STD	
synchronized with gearbox		STD			STD	
Front axle						
four-wheel drive		disengageable		permanent	disengageable	permanent
max. swing angle		± 15°			± 15°	
differential lock		mechanical			mechanical	
Steering						
hydraulic		STD			STD	
max. steering angle		42°			42°	
Brakes						
control		mechanical			mechanical	
rear with wet discs		STD			STD	
Hydraulic power lift						
Up / Down / Float control		STD	STD	STD	STD	STD
draft control		–	OPT	OPT	OPT	OPT
lifting capacity	kg 1000	kg 1000	kg 1000	kg 1000	kg 1000	kg 1000
hydraulic pump flow rate (power lift + steering system)	l/min 18	l/min 27	l/min 27	l/min 27	l/min 27	l/min 27
standard three-point hitch	1 ^a cat	1 ^a cat	1 ^a cat	1 ^a cat	1 ^a cat	1 ^a cat
1 rear control valve (double-acting)	STD	STD	STD	STD	STD	STD
Driving position						
semi-platform		STD			STD	
sprung seat		STD			STD	
steering wheel		adjustable			adjustable	
folding safety frame		STD			STD	
Tow hook						
CUNA class "C"		cat. "B" adjustable in height			cat. "B" adjustable in height	
Other equipment						
wheel ballast 2x36 kg		OPT (front/rear)			OPT (front)	
wheel ballast 2x55kg		–			OPT (rear)	

Key: STD = standard; OPT = on request; – = not available

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The technical data in this brochure are purely indicative and may be modified without prior notice