

tractors  
for 2015

a 32-speed (16F/16R) gearbox

# King of the hill

## Ferrari SkyJump V95 dualsteer

After more than 20,000 hours of research and development, Ferrari's SkyJump V95 Dualsteer tractor is ready to be released in 2015 and will reach Australia toward the end of the year.

The compact SkyJump comes with rubber tracks at the rear, pneumatic wheels at the front and a Dualsteer system that combines central chassis articulation with the front turning wheels able to achieve a steering angle of 60-deg.

SkyJump's low centre of gravity and short wheelbase, combined with the grip and stability of its rear tracks, makes it perfect for work in vineyards and orchards with tight confines and steep slopes.

In fact, the SkyJump name was taken from the inclined take-off ramp of an aircraft carrier with the idea being that when this tractor is climbing a steep slope the operator sees nothing but sky.

Working through SkyJump's development phase, engineers considered tracks on all four corners combined with isodiametric axle articulation (providing vertical offset

between the front and rear axles).

But found when working in rows that ran transversely across steep slopes, the tractor demonstrated instability when turning downhill to enter a lower row.

To avoid this tipping hazard, the decision was made to go with front pneumatic wheels and the Dualsteer system to achieve the required tight turning radius.

The development phase also involved machine prototypes being provided to vineyards, fruit growers and livestock operations working in steep and difficult conditions.

This allowed engineers to gather and analyse as much feedback as possible about the machine's performance that could then be integrated into the completion of the final product.

With its rear tracks the SkyJump is able to achieve grip some 60 per cent better than a wheel tractor on steep terrain while also reducing soil compaction and avoiding cutting up soft and wet ground the way steel tracks would.

At the same time, the tractor

is still able to attain a transport speed of 40kph on the road.

A 4-cylinder, 2970cc, VM common rail direct injection diesel engine with turbo and intercooler and developing 67kW (91hp) drives the SkyJump.

It is equipped with a Tier III compliant EGR emissions reduction system.

The engine achieves peak power at a relatively low 2300rpm. This reduces fuel consumption as well as improving operator comfort by minimising noise levels and vibration. Maximum torque is 420Nm at 1000rpm.

The SkyJump also has a European patent for its

self-cleaning radiator and air intake system.

Delivering power to the ground at all four corners is a 32-speed synchronised gearbox (16F/16R) with synchronised reverser.

Planetary gears are fitted to the front axle, while the rear has cascade reduction gears to minimise the tractor's wheelbase and increase its manoeuvrability.

The multidisc 'long life' clutch is immersed in an oil bath and has proportional hydraulic control to maximise performance.

The 4-wheel drive system provides for electro-hydraulic disengagement of drive to the



Designed for the tight confines of vineyard and orchard rows, the SkyJump has a narrow track of just 1.35m

view the operator gets on the steepest slopes: nothing but sky

# likes it steep

front wheels when required. In addition, electro-hydraulically controlled front and rear differential locks, that can be used simultaneously or on the rear only, assure maximum traction on any surface.

The SkyJump's rear PTO is independent from the gearbox and synchronised with all progress speeds. Electro-hydraulically controlled, the PTO offers 540 and 750rpm speeds as standard or 540 and 1000rpm as an option.

The Cat I/II rear linkage lifts 2700kg and hydraulic flow of 28.5-lit/min is available for attached implements. As an option, a 49-lit/min oversize pump is available.

A joystick with electronic control (optional) is used to control both the hydraulic system and the rear lift.

The braking system, with four multiple disc wet brakes, is assisted by a hydrostatic control acting as braking

distributor which intervenes constantly and simultaneously on the four brakes when acting on the pedal.

Unique to the Sky Jump is the independent Brake-off parking brake that is automatically applied when the Tractor's engine is turned off.

When the machine is in use, the parking brake is controlled by a button on the dashboard.

For operator comfort, the driving station is mounted on a silent block suspended platform, independent from the chassis of the tractor in order to reduce noise and vibrations. A rollbar and safety belt ensure operator safety.

Ergonomic controls are easily to hand and hydrostatic steering ensures maximum manoeuvrability.

The operator enjoys an unobstructed 360-deg view from the cab and the comfort of standard heating and air conditioning.

A compact cab with a lowered overall height is available for pergola vineyards or other operations where height restrictions apply.

Overall dimensions of the

SkyJump are 371 x 135 x 181 cm (L x W x H) and the standard weight is 2610kg.

For more information call Mirco Brothers Machinery on tel: 08 9434 6011. □



The Cat I/II rear linkage lifts 2700kg and hydraulic flow of 28.5 lit/min is available for attached implements



With its rear tracks SkyJump achieves traction up to 60 per cent better than a wheel tractor on steep terrain.



SkyJump's Dualsteer system combines central chassis articulation with the front turning wheels to achieve a 60-degree turning angle

## FERRARI SKYJUMP V95 DUALSTEER

Engine	4-cylinder, 2970cc, VM diesel
Power	67kW (91hp)
Transmission	32-speed synchronised (16F/16R)
Drive	2WD/4WD
Rear linkage	Cat I/II; 2700kg lift capacity
Hydraulic flow	25.6 lit/min standard
PTO	540/750rpm standard or 540/1000rpm as an option
Dimensions LxWxH	371 x 135 x 181cm