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# Axles with independent and electronically controlled suspension

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- › A new integrated system of independent suspension with position control. A revolutionary system (patented by Carraro) which marks a radical development in the four-wheel drive market by ensuring the absorption of stresses induced in the vehicle by the condition of the terrain.
- › The wheels, independently supported by a double wishbone, maintain the vehicle's set up even on rough terrain, while the hydro-pneumatic suspension provides a damping effect with wide load variation. A range of axles with integrated and independent suspension which is completely interchangeable with the traditional type and does not require any modification to the chassis or transmission shaft.

- › Better handling
- › Precision steering
- › Higher cross-country speeds
- › Greater productivity
- › Greater comfort
- › Greater safety

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## Features

- › Range from 70 to 185 HP
- › Suspension range +/- 45 mm
- › Max pressure of control system 180 bar
- › Electronic control integrated in valve unit
- › Improved grip (+70% vs. rigid axle at sprung mass frequency)
- › Improved damping capacity
- › Self-trimming function
- › Suspension lock up

AXLE MODEL	20.19SI	20.25SI	20.32SI	20.45SI
<b>Input Engine Power (ECE R24)</b>	81 kW	103 kW	132 kW	151 kW
<b>Peak Torque @ Wheels</b>	29.4 kN	35 kN	63 kN	84 kN
<b>Total Ratio</b>	10:1 - 21:1	10:1 - 21:1	12:1 - 21:1	12:1 - 21:1
<b>Static Load Capacity*</b>	44 kN	65 kN	75 kN	85 kN
<b>Dynamic Load Capacity**</b>	110 kN	170 kN	190 kN	210 kN
<b>Overall Dimension</b>	2054 mm	2100 mm	2150 mm	2206 mm
<b>Flange to Flange Distance</b>	1800 mm	1800 mm	1900 mm	1900 mm
<b>Center to Center Distance</b>	1550 mm	1550 mm	1600 mm	1600 mm
<b>Wheel stud P.C.D.</b>	275 mm	335 mm	335 mm	335 mm
<b>Brakes</b>	Optional	Optional	Optional	Optional
<b>Differential</b>	Limited slip system Wet clutch diff. lock (optional)	Limited slip system Wet clutch diff. lock (optional)	Limited slip system Wet clutch diff. lock (optional)	Limited slip system Wet clutch diff. lock (optional)
<b>Steering Sensor</b>	Optional	Optional	Optional	Optional

\* Ballasted vehicle & without implements

\*\* Front loader operation

Project related installation drawings can be made available on request as dimensions and technical data are subject to change due to continuous development.

