Axles with electronically controlled suspension

The new electronically controlled suspension system (Carraro patent) further enhances the already sophisticated range of Carraro axles. This system marks a further evolution in the concept of suspension-incorporated axles, ensuring perfect interchangeability with a traditional axle without the need for special preparation of the vehicle. A quadrilateral which changes shape according to the roughness of the terrain, with the help of a hydropneumatic shock dampening system, ensures constant contact between the tyres and the ground in any operating conditions.

- Range from 70 to 260 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)
- Outstanding shock absorbing ability
- Self-trimming function
- Suspension lock up

Outstanding manoeuvrability

Assured steering

High speed over harsh terrain

Greater productivity
Outstanding comfort
Greater safety
Axles with electronically controlled suspension

<table>
<thead>
<tr>
<th>Model</th>
<th>A Overall width (mm)</th>
<th>B Flange to flange (mm)</th>
<th>δ Max. steering angle</th>
<th>C Hub spigot diameter (mm)</th>
<th>D Wheel studs P.C.D. (mm)</th>
<th>E Wheel studs size</th>
<th>F Susp. wheel travel (mm)</th>
<th>α King-pin angle</th>
<th>β Camber angle</th>
<th>φ Caster angle</th>
<th>Peak torque (Nm)</th>
<th>Dynamic load capacity (N)</th>
<th>Static load capacity (N)</th>
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Limited slip differential lock
“Ball-type” lim-slip differential lock (Carraro patent)
100% mechanical (hydraulic actuation) differential lock
Differential lock with multidisc wet clutch
Wet brakes
Waterproof seals

Control unit: main dimensions