

# Wheel Loaders Drivelines

Throughout the years, Carraro has gained invaluable experience as Driveline provider for Wheel Loaders ranging from 2 to 12 tonnes of Unladen Machine Mass.

The Carraro **Axle Range** offers the utmost in configurability for each model with respect to the axle structure, which is available in multiple flange-to-flange dimensions for the numerous ratio and differential lock configurations, and for the multiple brake configurations, from the dry disc to wet inboard types both for service and parking (Mechanical or SAHR actuation). This large number of options ensures that the specific requirements of each application are met in the best way possible. Moreover, every axle model has been designed and tested for use under the severest conditions, with a high load capacity and robust gear design to ensure an extended service life with improved durability.

The **Hydrostatic Transmissions** complete the Carraro product offer for these machines. The Carraro Hydrostatic Transmission Range spans from compact Gearboxes, best suited for installation in the most compact machines, to fully electronically-controlled, on-the-fly shifting (**Speedshift**) versions, designed for the larger and higher performance machines. All the Hydrostatic Units are designed to minimise power loss and for easy installation in every vehicle lay-out. The large number of available ratios allows for optimised speed/torque values to better fit every application. Carraro has also developed **Speedshift Technology**, which combines the Auto-Shift function (through simultaneous electronic control of Hydrostatic and Gearbox Shifting), with the best possible efficiency. As with all of its models, Carraro can provide complete control systems (SW & HW) for these units as well.

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## Augmented Contents

Direct Drive



ECOlogy Mode



<b>Machine operative weight</b> kg	<b>Engine power</b> kW	<b>Front axle model</b>	<b>Rear axle model</b>	<b>Transmissions</b>
<b>Hydrostatic Applications</b>				
3,500	37	28.09 26.09*	28.09 26.09*	TB135 / TB172 TB138-2 / TB172-2
5,500	51	28.16 26.16*	28.16 26.16*	TB135 / TB172 TB138-2 / TB172-2
6,500	63	28.25 26.25*	28.20 26.25*	TB135 / TB172 TB138-2 / TB172-2
7,500	66	28.28 26.28*	28.28 26.28*	TB135 / TB172 TB138-2 / TB172-2

\* Four Wheels Steering Applications



<b>Torque Converter Applications</b>				
7,000	70	28.32	28.32	TCB90 PS coaxial
8,500	81	28.44	28.44	TCB90 PS coaxial
10,000	96	28.56	28.56	TCB90 PS coaxial
12,500	118	28.64	28.64	TCB90 PS coaxial

All specifications can be subject to changes without prior advice by Carraro



**AXLES – WHEEL LOADERS**

MODEL		<b>28.09</b> <b>26.09*</b>	<b>28.16</b> <b>26.16*</b>	<b>28.20</b> <b>26.20*</b>	<b>28.25</b> <b>26.25*</b>	<b>28.28</b> <b>26.28*</b>
<b>Articulated Frame</b>						
Overall width	<b>mm</b>	1,400 1,550	1,550 1,650	1,570 1,810 1,910	1,570 1,810 1,910	1,640 1,840 1,940
Flange to flange distance	<b>mm</b>	1,250 1,400	1,400 1,500	1,430 1,570 1,760	1,430 1,570 1,760	1,430 1,630 1,730
Wheel mounting dimension	<b>mm</b>	n° 6 M18x1.5 on ø 205 mm	n° 8 M18x1.5 on ø 275 mm	n° 8 M20x1.5 on ø 275 mm	n° 8 M20x1.5 on ø 275 mm	n° 10 M22x1.5 on ø 335 mm
Peak torque	<b>kNm</b>	14	25	30	36	40
Dynamic load capacity	<b>kN</b>	40	55	90	90	100
Static load capacity	<b>kN</b>	100	137	225	225	250

\* Steering versions with steering angle up to 55°, depending on axle model

MODEL		<b>28.32</b>	<b>28.44</b>	<b>28.50</b>	<b>28.56</b>	<b>28.64</b>
Overall width	<b>mm</b>	2,050	1,930	1,930	2,070	2,070
Flange to flange distance	<b>mm</b>	1,800	1,800	1,800	1,930	1,930
Wheel mounting dimension	<b>mm</b>	n° 10 M22x1.5 on ø 335 mm	n° 10 M22x1.5 on ø 335 mm	n° 10 M22x1.5 on ø 335 mm	n° 10 M22x1.5 on ø 335 mm	n° 12 M22x1.5 on ø 425 mm
Peak torque	<b>kNm</b>	44.8	62	70	78	88
Dynamic load capacity	<b>kN</b>	100	110	110	120	140
Static load capacity	<b>kN</b>	250	275	275	300	350

**ALL MODELS AVAILABLE WITH**

Frame MTG	Rigid with pads / Center oscill. TRU / Offset oscill. ACP
Service brakes	Single dry / Wet immersed disc
Parking brake	Ext. single dry

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