

Wheel Excavators Drivelines

Carraro offers Drivelines that have been designed for both Compact and Standard Wheel Excavator Loaders with up to 24 tonnes of Unladen Machine Mass.

The Compact Range comprises several configuration options for axle structures in multiple flange-to-flange dimensions for each axle model, numerous ratio and differential lock configurations, multiple brake configurations (from the dry disc to wet inboard types, both for service and parking), and various sensor arrangements (steering, load, speed).

Besides offering the utmost in configurability, the Standard Range also includes the wheel speed wet brake configuration, which is key to minimising machine movement while digging on wheel. The unique brake design ensures very low axle power loss while ensuring higher vehicle speed and lower fuel consumption. Every axle model has been designed and tested for use under the severest conditions and offers a high load capacity and robust gear design to ensure an extended service life with improved durability.

The Wheel Excavator Drivelines are completed by the Carraro Hydrostatic Transmissions. These range from compact Gearboxes, best suited for installation in the most compact machines, to fully electronically-controlled, on-the-fly shifting (**Speedshift**) versions, designed for faster, higher performance machines. All the Hydrostatic Units work to minimise power loss and provide 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 developed **Speedshift Technology** for its Compact Excavators as well, combining 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.

Moreover, for the Standard Excavator Class Carraro has developed two models of dual-speed Powershift hydrostatic transmissions with electro hydraulic controls.

Vehicle weight tons	Front axle model	Rear axle model	Transmissions
From 5 to 7	26.16 E	28.16 E	TB 172 C TB 172-2 C
From 8 to 10	26.25 E	28.25 E	TB 172 TB 172-2
From 11 to 16	26.32 E	28.32 E / 26.32 E	FLS 3.2
From 17 to 19	26.38 E	28.38 E / 26.38 E	FLS 3.2 FLS 4.2
From 20 to 24	26.54 E	28.54 E / 26.54 E	FLS 4.2

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



AXLES — EXCAVATORS

MODEL		26.16 E	26.25 E	26.32 E	26.38 E
Overall width	mm	1,954	2,074	2,241	2,348
Flange to flange distance	mm	1,720	1,832	1,920	1,890
Wheel mounting dimension		n° 8 M18x1.5 on ø 275 mm or n° 8 M20x1.5 on ø 275 mm	n° 8 M18x1.5 on ø 275 mm or n° 8 M20x1.5 on ø 275 mm	n° 10 M22x1.5 on ø 335 mm	n° 10 M22x1.5 on ø 335 mm
Max. steering angle		45°	45°	40°	40°
Peak torque	kNm	22	35	45	53
Dynamic load capacity	kN	70	85	95	130
Static load capacity	kN	175	212.5	237.5	325

MODEL		28.16 E	28.25 E	28.32 E	28.38 E
Overall width	mm	1,954	1,980	2,241	2,348
Flange to flange distance	mm	1,720	1,838	1,920	1,890
Wheel mounting dimension		n° 8 M18x1.5 on ø 275 mm or n° 8 M20x1.5 on ø 275 mm	n° 8 M18x1.5 on ø 275 mm or n° 8 M20x1.5 on ø 275 mm	n° 10 M22x1.5 on ø 335 mm	n° 10 M22x1.5 on ø 335 mm
Peak torque	kNm	22	35	45	38
Dynamic load capacity	kN	80	85	95	130
Static load capacity	kN	200	212.5	237.5	325

ALL MODELS AVAILABLE WITH

Frame MTG	Rear: Rigid with pads / Front: Offset oscill. ACP
Service brakes	Wet immersed disc acting "on wheel" for WE axles

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