

Axles for agricultural applications

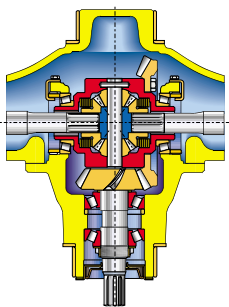
Features

- **The widest and most complete range of steering drive axles** designed for tractor power ratings from 35 to 300 HP
- Possibility of obtaining **electronic control of the principal axle and tractor functions** - differential locking and front wheel drive engagement - on the basis of variables such as steering angle, tractor speed and other parameters. The axle thus becomes a perfectly integrated component of the vehicle as a whole
- **Simplicity and rapidity of servicing** thanks to the rational arrangement of the subcomponents which can be disassembled without having to use special tooling
- **Extreme adaptability** to the final user's most different needs thanks to the numerous options available and to the high standardization of the subcomponents adopted. Such standardization also allows customers and dealers to make significant saving in spare parts storage space
- **Elimination of routine servicing** thanks to adoption of long life lubricated U-joints and availability of waterproof seals

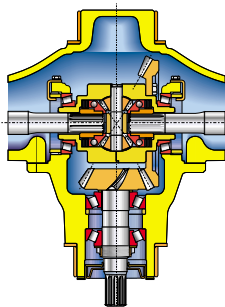
Options

- **2 different self-locking differentials** (standard and ball-type limited slip) and **2 different kinds of hydraulically controlled** (clutch and pins) **100% lock**, guarantee correct traction in all conditions
- The **oil-immersed hub located service brakes**, easily accessible upstream of the planetary reduction, ensure adequate braking power even at high speed
- The **wide variety of integrated cylinder dimensions** affords realization of an extremely flexible steering system and maximum adaptability toward meeting the various requirements of the vehicle itself
- The **2 possible methods of fitting** - above center pivot and trunnion mounting, with relative specific anchorings - as well as the numerous available types of input flange, afford the Carraro axle a high degree of adaptability to the customer's tractor
- The possibility of fitting up the axle with **waterproof seals** assures maximum reliability even when cultivating in the most unfavorable environmental conditions
- Other options, such as **final painting, filling up with lubricating oil and wheel nuts** complete the axle making it ready for immediate fitting upon receipt without having to carry out any further operations

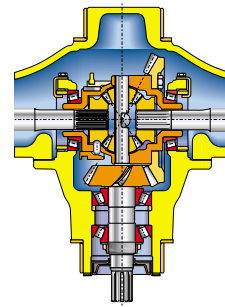
Limited slip differential lock



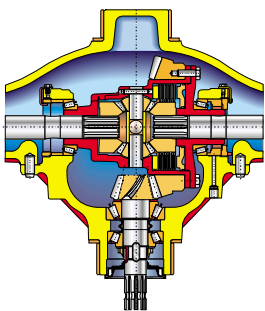
"Ball-type" lim-slip differential lock (Carraro patent)



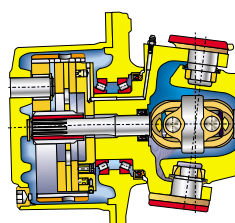
100% mechanical (hydraulic actuation) differential lock



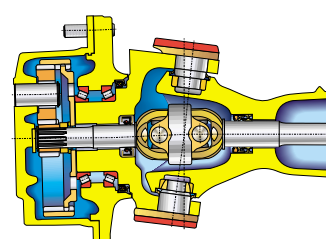
Differential lock with multidisc wet clutch



Wet brakes

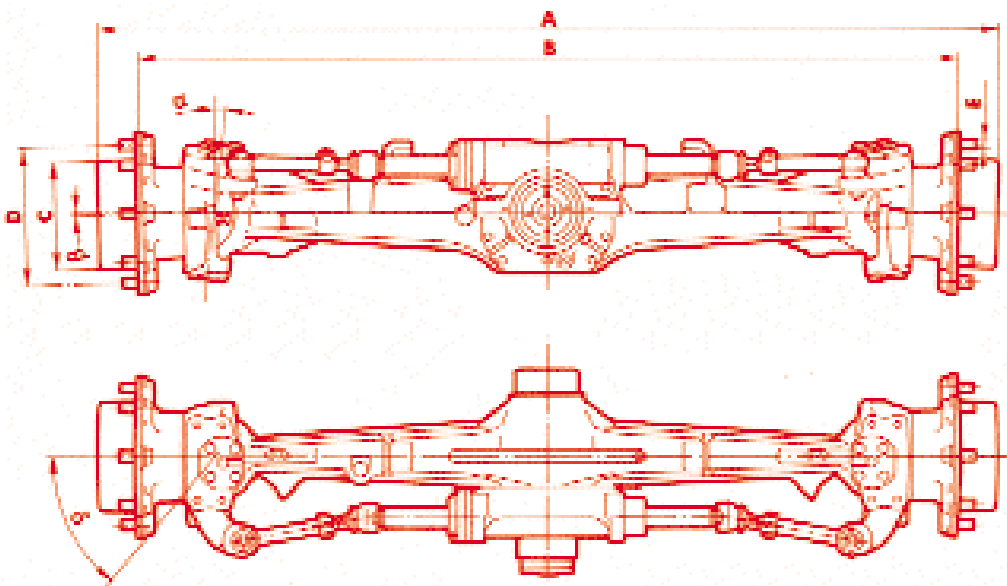


Waterproof seals



Axles for agricultural applications

Model	A Overall width (mm)	B Flange to flange (mm)	δ Max. inner wheel angle	C Hub spigot diameter (mm)	D Wheel studs P.C.D. (mm)	E Studs	α King - pin angle	β Camber angle	ϕ Caster angle	Peak torque (Nm)	Dynamic load capacity (N)	Static load capacity (N)
20.09V Compact	1030	925	55°	160	205	n. 6 studs M18 x 1.5	7°	1°30'	6°	12500	24000	60000
20.09F	1325	1155	55°	160	205	n. 6 studs M18 x 1.5	7°	1°30'	6°	14000	24000	60000
20.09 STD	1725	1555	55°	160	205	n. 6 studs M18 x 1.5	7°	1°30'	6°	14000	24000	60000
20.11	1716 1776 1846	1580 1640 1700	55°	220.8	275	n. 8 studs M18 x 1.5	7°	1°30'	6°	17500	28000	70000
20.14	1740 1800 1860	1580 1640 1700	55°	220.8	275	n. 8 studs M18 x 1.5	7°	1°30'	6°	20500	36000	90000
20.16	1740 1800 1860	1580 1640 1700	55°	220.8	275	n. 8 studs M18 x 1.5	7°	1°30'	6°	22500	36000	90000
20.19	2045 2045	1800 1900	55°	220.8	275	n. 8 studs M18 x 1.5	7°	1°30'	6°	29000	44000	110000
20.22	2045 2045	1800 1900	55°	220.8	275	n. 8 studs M18 x 1.5	7°	1°30'	6°	33000	50000	125000
20.25	2090	1890	55°	280.8	335	n. 10 studs M22 x 1.5	7°	1°30'	6°	35000	65000	170000
20.29	2150	1900	55°	280.8	335	n. 10 studs M22 x 1.5	7°	1°30'	6°	45000	75000	190000
20.43	2206	1900	55°	280.8	335	n. 10 studs M22 x 1.5	7°	1°30'	6°	60000	85000	210000
20.48	2245	1890	55°	280.8	335	n. 10 studs M22 x 1.5	7°	1°30'	6°	67000	85000	210000
20.80	2300	1890	55°	370.8	425	n. 12 studs M22 x 1.5	7°	0°	0°	115000	110000	275000



Information are to be considered indicative

