



Technical Features

F-LINE Tipper Series



Sharing the load

Technical Features	1833D	2533D	3545D		4145D		4145XD		4445XD	
Engine	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab
Type	GEN1.5 Ecotorq Euro 6 115 mm x 144 mm	GEN1.5 Ecotorq Euro 6 115 mm x 144 mm	GEN2 Ecotorq Euro 6 130 mm x 160 mm	GEN2 Ecotorq Euro 6 130 mm x 160 mm	GEN2 Ecotorq Euro 6 130 mm x 160 mm	GEN2 Ecotorq Euro 6 130 mm x 160 mm	GEN2 Ecotorq Euro 6 130 mm x 160 mm	GEN2 Ecotorq Euro 6 130 mm x 160 mm	GEN2 Ecotorq Euro 6 130 mm x 160 mm	GEN2 Ecotorq Euro 6 130 mm x 160 mm
Displacement (cc)	8.974 cm3	8.974 cm3	12.740 cm3	12.740 cm3	12.740 cm3	12.740 cm3	12.740 cm3	12.740 cm3	12.740 cm3	12.740 cm3
Power PS (kW)	330 PS (243 kW) @ 1900 d/d	330 PS (243 kW) @ 1900 d/d	450 PS (353 kW) @ 1800 d/d	450 PS (353 kW) @ 1800 d/d	450 PS (353 kW) @ 1800 d/d	450 PS (353 kW) @ 1800 d/d	450 PS (353 kW) @ 1800 d/d	450 PS (353 kW) @ 1800 d/d	450 PS (353 kW) @ 1800 d/d	450 PS (353 kW) @ 1800 d/d
Torque	1400 Nm @ 1200-1650 d/d	1400 Nm @ 1200-1650 d/d	2500 Nm @ 1100-1200 d/d	2500 Nm @ 1100-1200 d/d	2500 Nm @ 1100-1200 d/d	2500 Nm @ 1100-1200 d/d	2500 Nm @ 1100-1200 d/d	2500 Nm @ 1100-1200 d/d	2500 Nm @ 1100-1200 d/d	2500 Nm @ 1100-1200 d/d (Off-Road Mode) 2300 Nm @ 1300-1500 d/d (Normal Mode)
Powertrain										
Clutch	430 mm Single Disc	430 mm Single Disc	430 mm Single Disc	430 mm Single Disc	430 mm Single Disc	430 mm Single Disc	430 mm Single Disc	430 mm Single Disc	430 mm Single Disc	430 mm Single Disc
Transmission / Ratios	Automated: ZF AS 1510 TO (9,48 - 0,75) Manual: Eaton 9S 14409 (9,40 - 0,75)	Automated: ZF AS 1510 TO (9,48 - 0,75) Manual: Eaton 9S 14409 (9,40 - 0,75)	Automated: Ecotorq 16S 2600 OD (14,107 - 0,823)	Automated: Ecotorq 16S 2600 OD (14,107 - 0,823)	Automated: Ecotorq 16S 2600 OD (14,107 - 0,823)	Automated: Ecotorq 16S 2600 OD (14,107 - 0,823)	Automated: Ecotorq 16S 2600 OD (14,107 - 0,823)	Automated: Ecotorq 16S 2600 OD (14,107 - 0,823)	Automated: Ecotorq 16S 2600 OD (14,107 - 0,823)	Automated: Ecotorq 16S 2600 OD (14,107 - 0,823)
Forward and Reverse Gear	Automated: 9 forward + 1 reverse Manual: 9 forward + 1 reverse	Automated: 9 forward + 1 reverse Manual: 9 forward + 1 reverse	Automated: 16 forward + 2 reverse	Automated: 16 forward + 2 reverse	Automated: 16 forward + 2 reverse	Automated: 16 forward + 2 reverse	Automated: 16 forward + 2 reverse	Automated: 16 forward + 2 reverse	Automated: 16 forward + 2 reverse	Automated: 16 forward + 2 reverse
FDR	4,44	4,44	4,08	4,08	4,87	4,87	4,87	4,87	4,87	4,87
Axle & Suspension										
Axle Configuration	4x2	6x2	6x4	6x4	8x4	8x4	8x4	8x4	8x4	8x4
Front Axle	7,1 T	7,1 T	8 T	8 T	8 T	8 T	8 T	8 T	9 T	9 T
Rear Axle	XSS - 510, 13.5T	XSS - 510, 13.5T	XPT - 330, 16T	XPT - 330, 16T	XPT - 330, 16T	XPT - 330, 16T	XPT - 330, 16T	XPT - 330, 16T	XPT - 330, 16T	XPT - 330, 16T
Suspension	Parabolic Front Leaf Spring/ Multileaf Spring Rear Mechanical Suspension	Parabolic Front Leaf Spring/ Compensating Rear Mechanical Suspension	Parabolic Front Leaf Spring/ Medium Duty Tandem Rear Mechanical Suspension	Parabolic Front Leaf Spring/ Medium Duty Tandem Rear Mechanical Suspension	Parabolic Front Leaf Spring/ Medium Duty Tandem Rear Mechanical Suspension	Parabolic Front Leaf Spring/ Medium Duty Tandem Rear Mechanical Suspension	Parabolic Front Leaf Spring/ Medium Duty Tandem Rear Mechanical Suspension	Parabolic Front Leaf Spring/ Mechanical Rear Suspension	Parabolic Front Leaf Spring/ Mechanical Rear Suspension	Parabolic Front Leaf Spring/ Mechanical Rear Suspension
Brakes										
Brake System	Dual Brake Circuit - Air Processing Unit with Integrated Oil Separator and Heater	Dual Brake Circuit Air Processing Unit with Integrated Oil Separator and Heater	Dual Brake Circuit Air Processing Unit with Integrated Oil Separator and Heater	Dual Brake Circuit Air Processing Unit with Integrated Oil Separator and Heater	Dual Brake Circuit Air Processing Unit with Integrated Oil Separator and Heater	Dual Brake Circuit Air Processing Unit with Integrated Oil Separator and Heater	Dual Brake Circuit Air Processing Unit with Integrated Oil Separator and Heater	Dual Brake Circuit Air Processing Unit with Integrated Oil Separator and Heater	Dual Brake Circuit Air Processing Unit with Integrated Oil Separator and Heater	Dual Brake Circuit Air Processing Unit with Integrated Oil Separator and Heater
Service Brake	Front and Rear Drum Brakes	Front and Rear Drum Brakes	Front and Rear Drum Brakes	Front and Rear Drum Brakes	Front and Rear Drum Brakes	Front and Rear Drum Brakes	Front and Rear Drum Brakes	Front and Rear Drum Brakes	Front and Rear Drum Brakes	Front and Rear Drum Brakes
Brakes (Front/Rear) (Ø.mm x mm. Length)	410 mm x 200 mm Z-Cam Drum Brake	410 mm x 200 mm Z-Cam Drum Brake	410 mm x 200 mm Z-Cam Drum Brake	410 mm x 200 mm Z-Cam Drum Brake	410 mm x 200 mm Z-Cam Drum Brake	410 mm x 200 mm, Z-Cam Drum Brake	410 mm x 200 mm, Z-Cam Drum Brake	410 mm x 200 mm, Z-Cam Drum Brake	410 mm x 200 mm, Z-Cam Drum Brake	410 mm x 200 mm, Z-Cam Drum Brake

Technical Features	1833D	2533D	3545D		4145D		4145XD		4445XD	
Brakes	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab
Engine Brake Power	max. 220 kW (Engine Level)	max. 220 kW (Engine Level)	max. 320 kW (Engine Level)	max. 320 kW (Engine Level)	max. 320 kW (Engine Level)	max. 320 kW (Engine Level)	max. 320 kW (Engine Level)	max. 320 kW (Engine Level)	max. 320 kW (Engine Level)	max. 320 kW (Engine Level)
Hydraulic Retarder	-	-	max. 450 kW / continuous 160 kW	max. 450 kW / continuous 160 kW	max. 450 kW / continuous 160 kW	max. 450 kW / continuous 160 kW	max. 450 kW / continuous 160 kW	max. 450 kW / continuous 160 kW	max. 450 kW / continuous 160 kW	max. 450 kW / continuous 160 kW
Fuel & AdBlue Tank										
Fuel Tank	315 L, Right Hand Side, Steel	315 L, Right Hand Side, Steel	315 L, Right Hand Side, Steel	315 L, Right Hand Side, Steel	315 L, Right Hand Side, Steel	315 L, Right Hand Side, Steel	315 L, Right Hand Side, Steel	315 L, Right Hand Side, Steel	315 L, Right Hand Side, Steel	315 L, Right Hand Side, Steel
SCR Tank	55 L	55 L	55 L	55 L	55 L	55 L	55 L	55 L	55 L	55 L
Chassis										
Thickness and Material	U Profile, High Strength, 7 mm Thickness, S355 MC Material	U Profile, High Strength, 7 mm Thickness, S355 MC Material	U Profile, High Strength, 10 mm Thickness, S500 MC Material	U Profile, High Strength, 10 mm Thickness, S500 MC Material	U Profile, High Strength, 10 mm Thickness, S500 MC Material	U Profile, High Strength, 10 mm Thickness, S500 MC Material	U Profile, High Strength, 10 mm Thickness, S500 MC Material	U Profile, High Strength, 10 mm Thickness, S500 MC Material	U Profile, High Strength, 10 mm Thickness, S500 MC Material	U Profile, High Strength, 10 mm Thickness, S500 MC Material
Tires										
Front Axle	315/80 R 22,5	315/80 R 22,5	315/80 R 22,5	315/80 R 22,5	315/80 R 22,5	315/80 R 22,5	13 R 22,5	13 R 22,5	385/65 R 22,5	385/65 R 22,5
Rear Axle	315/80 R 22,5	315/80 R 22,5	315/80 R 22,5	315/80 R 22,5	315/80 R 22,5	315/80 R 22,5	13 R 22,5	13 R 22,5	13 R 22,5	13 R 22,5
Rims	22.5X9.0 Steel	22.5X9.0 Steel	22.5X9.0 Steel	22.5X9.0 Steel	22.5X9.0 Steel	22.5X9.0 Steel	Reinforced	Reinforced	22.5X11.75 Steel	22.5X11.75 Steel

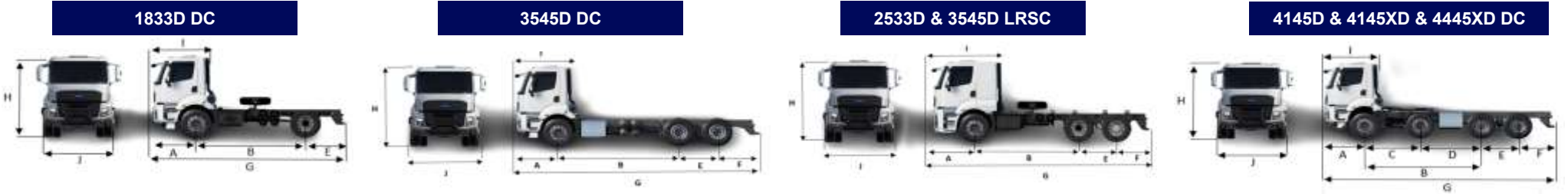
Standard and Optional Features

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Standard and Optional Features	1833D	2533D	3545D	4145D	4145XD	4445XD
Exterior	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab
Heated and Electrically Controlled Side Mirrors	●	●	●	●	●	●
Reinforced Wheel Rim	-	-	-	-	○	○
250L Steel Fuel Tank (Right Side)	-	-	-	-	○	○
350L Aluminum Fuel Tank (Right Side)	○	-	-	-	-	-
4,87 FDR	-	-	○	○	●	●
4,08 FDR	-	-	●	●	○	○
4,63 FDR (with Full Trailer Pack - O3)	-	○	-	-	-	-
8 Ton Front Axle Capacity	○	○	●	●	●	●
4500 mm Wheelbase	-	-	-	○	-	-
4750 mm Wheelbase (For 1833D it transforms to 1833P)	○	-	-	-	○	○
4250 mm Wheelbase	○	-	-	-	-	-
HVO Compatability	-	-	●	●	●	●
Engine PTO	○	○	○	○	○	○
Twin PTO (Low and High Ratio)	○	○	○	○	○	○
Flange Type Direct Output PTO	○	○	○	○	○	○
Pump Type Direct Output PTO	○	○	-	-	○	○
Flange Type Offset Output PTO	○	○	○	○	○	○
Pump Type Offset Output PTO	●	●	●	●	●	●
Hydraulic Cab Tilting	●	●	●	●	●	●
Electrically Operated Cab Tilting	○	○	○	○	○	○
FL, EX/II, OX & AT Classification ADR Package	○	○	○	○	-	-
Full Trailer - O2 (up to 3,5T towing capability)	○	○	○	○	○	○
Full Trailer - O3 (up to 10T towing capability)	○	○	○	○	○	○
Full Trailer - O4 (more than 10T towing capability)	-	-	○	○	○	○
Without Front Spare Tire	○	○	○	○	○	○
Front Spare Tire / Rim	●	●	●	●	●	●
Horizontal Exhaust	●	●	●	●	●	●
Vertical Exhaust	○	-	○	-	-	-
LED Headlamps	○	○	○	○	○	○
Halogen Headlamps	●	●	●	●	●	●
Rain Sensor & Autolamps	○	○	-	-	-	-
225 aH Battery	●	●	●	●	●	●
Construction Capacity Increase Package (9 ton front axle, 385/65 R 22,5 front tires, Electro-Hydraulic Steering Wheel -EHPAS, 22.5X11.75 Steel, 44T GVM)	-	-	-	-	-	-
Residual Pack	○	○	-	-	-	-
Switchable Air Brake Compressor	-	-	●	●	●	●
Smart Tachograph	●	●	●	●	●	●
4 Points Independent Cab Suspension	●	●	●	●	●	●
Medium Bumper	●	●	-	-	-	-
Short Bumper	○	-	●	●	●	●
Snow Plower Short Bumper	○	-	○	○	○	○
Oil Pan Shield	-	-	-	-	○	○
Cold Pack	○	○	○	○	○	○
Beacon Lamp	○	-	○	-	○	-
Double Roof Beacon Lamp (Passenger Side Lamp & Driver Side Infrastructure)	○	○	○	○	○	○
Rear Towing Hooks	○	○	○	○	○	○
Front Towing Hooks	○	○	●	●	●	●

● Standard ○ Optional



Dimensions (mm)	1833D	2533D	3545D		4145D & 4145XD		4445XD	
	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab	Day Cab	Low Roof Sleeper Cab
Wheelbase (B)	3800	3800	3800	3800	5100	5100	5100	5100
Overall Length (G)	6700	7988	7500	7500	8868	8868	8883	883
Front Overhang (A)	1450	1450	1450	1450	1450	1450	1485	1485
Rear Overhang (F)	1450	1442	900	900	968	968	948	948
Distance Between 1st and 2nd Wheel Centers (C)	3800	3781	3800	3800	2050	2050	2050	2050
Distance Between 2nd and 3th Wheel Centers (D)	-	1315	1350	1350	3050	3050	3050	3050
Distance Between 3th and 4th Wheel Centers (E)	-	-	-	-	1350	1350	1350	1350
Overall Vehicle Width (Excluding Mirrors) (J)	2540	2540	2540	2540	2540	2540	2540	2540
Overall Cab Length (I)	1777	2260	1777	2260	1777	2260	1827	2310
Total Vehicle Height (H)	3106	3133	3160	3160	2927	2927	3249	3249
Turning Radius	7900	9690	9700	9700	11230	11230	11230	11230
Useful Chassis Length	4368	5268	5136	5530	6665	6195	6665	6195

Weights (kg)		1st Axle	2nd Axle	3rd Axle	4rd Axle	Total
1833D (Day Cab)	Technically Permissible Weight	7100	12600	-	-	19000
	Kerb Weight	4772	2379	-	-	7151
	Payload	2328	10221	-	-	11849
	Regulatory Permissible Weight	7500	11500	-	-	18000
2533D (Low Roof Sleeper Cab)	Technically Permissible Weight	7100	12600	10900	-	25000
	Kerb Weight	4779	2117	1557	-	8513
	Payload	2321	10483	9343	-	16487
	Regulatory Permissible Weight	7100	11500	10000	-	25000
3545D (Day Cab)	Technically Permissible Weight	8000	13400	13400	-	34000
	Kerb Weight	5395	2553	2410	-	10358
	Payload	2605	10847	10990		23642
	Regulatory Permissible Weight	8000	9500	9500	-	26000
3545D (Low Roof Sleeper Cab)	Technically Permissible Weight	8000	13400	13400	-	34000
	Kerb Weight	5504	2553	2410	-	10467
	Payload	2496	10847	10990	-	23533
	Regulatory Permissible Weight	8000	9500	9500	-	26000
4145D (Day Cab)	Technically Permissible Weight	8000	8000	13400	13400	41900
	Kerb Weight	3784	3774	2164	2032	11754
	Payload	4216	4226	11236	11368	30146
	Regulatory Permissible Weight	8000	8000	9500	9500	32000
4145D (Low Roof Sleeper Cab)	Technically Permissible Weight	8000	8000	13400	13400	41900
	Kerb Weight	3893	3774	2164	2032	11863
	Payload	4107	4226	11236	11368	30037
	Regulatory Permissible Weight	8000	8000	9500	9500	32000
4145XD (Day Cab)	Technically Permissible Weight	8000	8000	13400	13400	41900
	Kerb Weight	3813	3818	2192	2060	11883
	Payload	4187	4182	11208	11340	30017
	Regulatory Permissible Weight	8000	8000	9500	9500	32000
4145XD (Low Roof Sleeper Cab)	Technically Permissible Weight	8000	8000	13400	13400	41900
	Kerb Weight	3922	3818	2192	2060	11992
	Payload	4078	4182	11208	11340	29908
	Regulatory Permissible Weight	8000	8000	9500	9500	32000
4445XD (Day Cab)	Technically Permissible Weight	9000	9000	13400	13400	44000
	Kerb Weight	3807	3809	2180	2048	11844
	Payload	5193	5191	11220	11352	32156
	Regulatory Permissible Weight	8000	8000	9500	9500	32000
4445XD (Low Roof Sleeper Cab)	Technically Permissible Weight	9000	9000	13400	13400	44000
	Kerb Weight	3916	3809	2180	2048	11953
	Payload	5084	5191	11220	11352	32047
	Regulatory Permissible Weight	8000	8000	9500	9500	32000

*The kerb weight data includes a 90% full fuel tank, other fluids, tools, a spare tire, and a driver weighing 75 kg. Weight values may vary depending on the vehicle configuration.

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