



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 (330 kW) @ 1800 d/d	450 PS (330 kW) @ 1800 d/d	450 PS (330 kW) @ 1800 d/d	450 PS (330 kW) @ 1800 d/d	450 PS (330 kW) @ 1800 d/d	450 PS (330 kW) @ 1800 d/d	450 PS (330 kW) @ 1800 d/d	450 PS (330 kW) @ 1800 d/d
Torque	1400 Nm @ 1200-1650 d/d	1400 Nm @ 1200-1650 d/d	2500 Nm @ 1100-1200 d/d (Off-Road Mode) 2300 Nm @ 1300-1500 d/d (Normal Mode)	2500 Nm @ 1100-1200 d/d (Off-Road Mode) 2300 Nm @ 1300-1500 d/d (Normal Mode)	2500 Nm @ 1100-1200 d/d (Off-Road Mode) 2300 Nm @ 1300-1500 d/d (Normal Mode)	2500 Nm @ 1100-1200 d/d (Off-Road Mode) 2300 Nm @ 1300-1500 d/d (Normal Mode)	2500 Nm @ 1100-1200 d/d (Off-Road Mode) 2300 Nm @ 1300-1500 d/d (Normal Mode)	2500 Nm @ 1100-1200 d/d (Off-Road Mode) 2300 Nm @ 1300-1500 d/d (Normal Mode)	2500 Nm @ 1100-1200 d/d (Off-Road Mode) 2300 Nm @ 1300-1500 d/d (Normal Mode)	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	7,5 T	7,5 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	

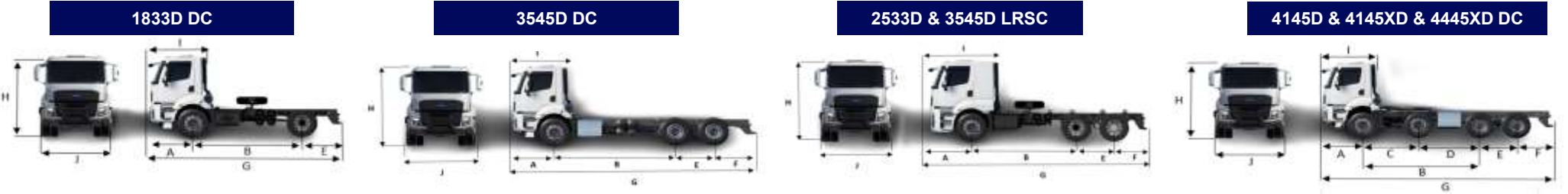
Standard and Optional Features

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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	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 & 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	○	○	-	-	-	-	-	-	-	-
AGM Battery	○	○	○	○	○	○	○	○	○	○
EFB (240 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)	-	-	○	○	-	-	-	-	●	●
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)	6690	7800	7495	7495	8866	8866	8866	8866
Front Overhang (A)	1450	1439	1450	1450	1450	1450	1450	1450
Rear Overhang (F)	1450	1437	905	905	966	966	966	966
Distance Between 1st and 2nd Wheel Centers (C)	3790	3782	3790	3790	2050	2050	2050	2050
Distance Between 2nd and 3th Wheel Centers (D)	-	1312	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	2459	1777	2260	1827	2256	1827	2256
Total Vehicle Height (H)	3106	3090	3354	3354	3198	3198	3229	3229
Turning Radius	7900	9690	9700	9700	11230	11230	11230	11230
Useful Chassis Length	4368	5250	5140	4755	6663	6199	6663	6199

Weights (kg)		1st Axle	2nd Axle	3rd Axle	4rd Axle	Total
1833D (Day Cab)	Technically Permissible Weight	7500	12600	-	-	19000
	Kerb Weight	4777	2454	-	-	7230
	Payload	2723	10146	-	-	11770
	Regulatory Permissible Weight	7500	11500	-	-	18000
2533D (Low Roof Sleeper Cab)	Technically Permissible Weight	7500	12600	10900	-	25000
	Kerb Weight	4812	2215	1594	-	8620
	Payload	2688	10385	9306	-	16380
	Regulatory Permissible Weight	7500	11500	10000	-	25000
3545D (Day Cab)	Technically Permissible Weight	8000	13400	13400	-	34000
	Kerb Weight	5370	2553	2410	-	10333
	Payload	2630	10847	10990	-	23667
	Regulatory Permissible Weight	8000	9500	9500	-	26000
3545D (Low Roof Sleeper Cab)	Technically Permissible Weight	8000	13400	13400	-	34000
	Kerb Weight	5507	2553	2410	-	10470
	Payload	2493	10847	10990	-	23530
	Regulatory Permissible Weight	8000	9500	9500	-	26000
4145D (Day Cab)	Technically Permissible Weight	8000	8000	13400	13400	41900
	Kerb Weight	3744	3774	2164	2032	11715
	Payload	4256	4226	11236	11368	30185
	Regulatory Permissible Weight	8000	8000	9500	9500	32000
4145D (Low Roof Sleeper Cab)	Technically Permissible Weight	8000	8000	13400	13400	41900
	Kerb Weight	3881	3774	2164	2032	11852
	Payload	4119	4226	11236	11368	30048
	Regulatory Permissible Weight	8000	8000	9500	9500	32000
4145XD (Day Cab)	Technically Permissible Weight	8000	8000	13400	13400	41900
	Kerb Weight	3698	3818	2192	2060	11843
	Payload	4302	4182	11208	11340	30057
	Regulatory Permissible Weight	8000	8000	9500	9500	32000
4145XD (Low Roof Sleeper Cab)	Technically Permissible Weight	8000	8000	13400	13400	41900
	Kerb Weight	3910	3818	2192	2060	11980
	Payload	4090	4182	11208	11340	29920
	Regulatory Permissible Weight	8000	8000	9500	9500	32000
4445XD (Day Cab)	Technically Permissible Weight	9000	9000	13400	13400	44000
	Kerb Weight	3767	3809	2180	2048	11804
	Payload	5233	5191	11220	11352	32196
	Regulatory Permissible Weight	8000	8000	9500	9500	32000
4445XD (Low Roof Sleeper Cab)	Technically Permissible Weight	9000	9000	13400	13400	44000
	Kerb Weight	3904	3809	2180	2048	11941
	Payload	5096	5191	11220	11352	32059
	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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