



Designed for logistics centers and transportation hubs, the F3 is ideal for moving goods across intensive shift operations. Its sturdy frame guarantees reliability under heavy use, while the Li-ion plug & play battery supports opportunity charging for continuous availability. The upgraded tiller design reduces strain on operators' hands, and the flip cover ensures battery safety against water ingress, making the F3 a trusted choice for long-term industrial performance.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Li-lon
Battery nominal capacity		Ah	20
Battery voltage		V	24
Load capacity	Q	kg	1500
Load centre distance	С	mm	600
Service weight		kg	120
Lift height	h ₃	mm	105
Overall length		mm	1550
Overall width	b ₁ /b ₂	mm	695/590
Length to face of forks	I ₂	mm	400
Fork dimensions	s/e/l	mm	55/150/1150
Turning radius		Wa	1360
Operator type			Pedestrian
Load distance, centre of drive axle to fork		mm	950
Wheelbase		mm	1180
Axle loading, laden front/rear		kg	480/1140

Strong structure & Li-ion heart

The F3 inherits EP's proven EPL153 frame and integrates a plug & play Li-ion battery, ensuring tough performance in demanding logistics environments.





Ergonomic tiller head

The redesigned tiller allows operators to steer with the palm instead of the thumb, reducing strain and improving comfort during long shifts.

Battery flip cover

A protective flip cover safeguards the Li-ion battery from water ingress, enhancing operational safety and extending service life.



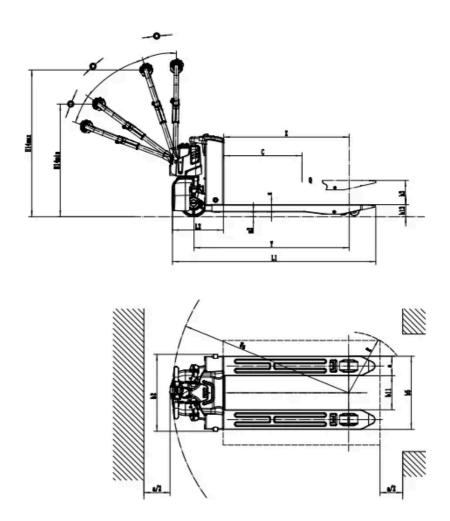
Built for logistics

With its 1.5-ton capacity and robust design, the F3 is purpose-built to meet the challenges of transportation in busy logistics centers.

VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.4	Operator type			Pedestrian
1.5	Load capacity	Q	kg	1500

1.6 Load centre distance, centre of drive axle to fork r mm 950 1.9 Wheelbase mm 1180 2.1 Service welght kg 120 2.2 Axle loading, laden front/rear kg 480/1140 2.3 Axle loading, unladen front/rear kg 90/30 3.1 Tyre size, front by yelpe 90/30 3.2 Tyre size, front by yelpe 210x70 3.3 Tyre size, front by yelpe 380x60/74x88 3.3 Tyre size, front by yelpe 380x60/74x88 3.4 Tyre size, front by yelpe 380x60/74x88 3.5 Wheels, number front/rear (x=drive wheels) yelped, load (xyl) 380x60/74x88 3.5 Wheels, number front/rear (x=drive wheels) yelped, load (xyl) yelped, load (xyl) 4.2 Length to face of forks fy yelped, load (xyl) yelped, load (xyl) 4.2 Fork dimensions x/e/1 yelped, load (xyl) yelped, load (xyl) 4.2 Fork carriage with		SPECIFICATION	REF	UNIT	VALUE
1.9 Wheelbase mm 1180 2.1 Service weight kg 120 2.2 Axie loading, laden front/rear kg 480/1140 2.3 Axie loading, unladen front/rear kg 90/30 3.1 Tyre type 210x70 210x70 3.2 Tyre size, front 210x70 210x70 3.3 Tyre size, rear 1x2/4, 1x2/2 210x70 3.7 Tread width, rear b ₁₁ mm 535/410 4.19 Overall length mm 535/410 4.20 Length to face of forks Imm 595/590 4.21 Overall width b ₁ /b ₂ mm 595/590 4.22 Fork dimensions Imm 585/590 4.24 Fork dimensions Imm 585/590 4.24 Fork dimensions Imm 585/590 4.24 Fork dimensions Imm 585/560 4.24 Fork dimensions Imm 525 4.31 Aisie width for pa	1.6	Load centre distance	С	mm	600
2.1 Service weight kg 120 2.2 Axle loading, laden front/rear kg 480/1140 2.3 Axle loading, unladen front/rear kg 90/30 3.1 Tyre type 210x70 3.2 Tyre size, front 210x70 3.3 Tyre size, rear 80x60 / 74x88 3.5 Wheels, number front/rear (x=drive wheels) 1x2/4, 1x2/2 3.7 Tread width, rear b131 mm 535/410 4.19 Overall length mm 1550 4.20 Length to face of forks 12 mm 695/590 4.21 Overall width b1/b2 mm 695/590 4.22 Fork dimensions s/e/l mm 55150/1150 4.24 Fork carriage width mm 55750/1150 4.34 Fork width for pallets 1000×1200 crossways Ast 2160 4.34.1 Alse width for pallets 800×1200 lengthways Ast 2025 4.34.2 Tirk eight b1 0017/0020 <	1.8	Load distance, centre of drive axle to fork		mm	950
2.2 Axie loading, laden front/rear kg 480/1140 2.3 Axie loading, unladen front/rear kg 90/30 3.1 Tyre type 20070 3.2 Tyre size, front 210x70 3.3 Tyre size, rear 80x60 / 74x88 3.5 Wheels, number front/rear (x-drive wheels) 1x2/4,1x2/2 3.7 Tread width, rear b11 mm 555/410 4.19 Overall length mm 400 4.20 Length to face of forks I2 mm 695/590 4.21 Overall width b1/b2 mm 695/590 4.22 Fork dimensions s/e/l mm 65/150/1150 4.24 Fork carriage width mm 55/150/1150 4.32 Ground clearance, centre of wheelbase mm 25 4.34.1 Asie width for pallets 800×1200 lengthways Ast 2160 4.34.2 Asie width for pallets 800×1200 lengthways Ast 2025 4.35 Turning radius m/s 0046/0.058	1.9	Wheelbase		mm	1180
2.3 Axle loading, unladen front/rear kg 90/30 3.1 Tyre type Jox70 3.2 Tyre size, front Jox70 3.3 Tyre size, rear 80x60 / 74x88 3.5 Wheels, number front/rear (x=drive wheels) 1x 2/4, 1x 2/2 3.7 Tread width, rear b11 mm 535/410 4.19 Overall length mm 400 4.20 Length to face of forks T2 mm 695/590 4.21 Overall width b1/b2 mm 695/590 4.22 Fork dimensions s/e/1 mm 55/150/1150 4.24 Fork carriage width mm 25 4.32 Ground clearance, centre of wheelbase mm 25 4.34.1 Aisle width for pallets 1000×1200 crossways Ast 2160 4.34.2 Aisle width for pallets 800×1200 lengthways Ast 2025 4.35 Turning radius mm 105 5.1 Travel speed, laden/unladen m/s 0.017/0.020	2.1	Service weight		kg	120
3.1 Tyre type 1 Polyurethane 3.2 Tyre size, front 210x70 3.3 Tyre size, rear 80x60/74x88 3.5 Wheels, number front/rear (x=drive wheels) 1x 2/4, 1x 2/2 3.7 Tread width, rear b11 mm 555/410 4.19 Overall length mm 1550 4.20 Length to face of forks I2 mm 400 4.21 Overall width b1/b2 mm 695/590 4.22 Fork dimensions x/e/1 mm 655/60 4.24 Fork carriage width mm 25 4.24 Fork carriage width of pallets 1000×1200 crossways mm 25 4.34.1 Aisle width for pallets 1000×1200 crossways Ast 2025 4.34.2 Aisle width for pallets 800×1200 lengthways Ast 2025 4.35 Turning radius mm 105 4.4 Lift height m/s 4/4.5 5.1 Travel speed, laden/unladen m/s 0.017/0.020 5.2 Lifting speed, laden/unladen m/s 0.046/0.058<	2.2	Axle loading, laden front/rear		kg	480/1140
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3.3 Tyre size, rear 3.5 Wheels, number front/rear (x=drive wheels) 3.7 Tread width, rear 3.8 Tread width, rear 3.9 Overall length 3.0 Uverall length 3.1 Tread width, rear 3.1 Tread width, rear 3.1 Tread width, rear 3.1 Tread width 3.2 Tread width 3.3 Tread width 3. Tread wide 3. Tread width 3. Tread width 3. Tread width 3. Tread width 3.	3.1	Tyre type			Polyurethane
3.5 Wheels, number front/rear (x=drive wheels) 1x 2/4, 1x 2/2 3.7 Tread width, rear b1 mm 535/410 4.19 Overall length mm 1550 4.20 Length to face of forks 12 mm 400 4.21 Overall width b1/b2 mm 695/590 4.22 Fork dimensions s/e/1 mm 55/150/1150 4.24 Fork carriage width mm 685/560 4.32 Ground clearance, centre of wheelbase mm 25 4.34.1 Aisle width for pallets 1000×1200 crossways Ast 2160 4.34.2 Aisle width for pallets 800×1200 lengthways Ast 2025 4.35.1 Turning radius Wa 1360 4.4 Lift height h3 mm 105 5.1 Travel speed, laden/unladen m/s 601 5.1 Lifting speed, laden/unladen m/s 0.017/0.020 5.3 Lowering speed, laden/unladen % 5/16 6.1	3.2	Tyre size, front			210x70
3.7 Tread width, rear b11 mm 535/410 4.19 Overall length mm 1550 4.20 Length to face of forks 12 mm 400 4.21 Overall width b1/b2 mm 695/590 4.22 Fork dimensions \$/e/1 mm 55/150/1150 4.24 Fork carriage width mm 685/560 4.32 Ground clearance, centre of wheelbase mm 25 4.34.1 Aisle width for pallets 1000×1200 crossways Ast 2160 4.34.2 Aisle width for pallets 800×1200 lengthways Ast 2025 4.35.1 Turning radius Ma 1360 4.4 Lift height Ma 1360 5.1 Travel speed, laden/unladen Mm/h 4/4.5 5.1 Travel speed, laden/unladen m/s 0.017/0.020 5.3 Lowering speed, laden/unladen m/s 5/16 6.1 Drive motor rating \$2.60 min kW 0.75 6.2 Lift motor ra	3.3	Tyre size, rear			80x60 / 74x88
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4.28 Length to face of forks I 2 bl/b2 mm 400 4.21 Overall width b 1/b2 mm 695/590 4.22 Fork dimensions s/e/1 mm 55/150/1150 4.24 Fork carriage width mm 685/560 4.32 Ground clearance, centre of wheelbase mm 25 4.34.1 Aisle width for pallets 1000×1200 crossways Ast 2160 4.34.2 Aisle width for pallets 800×1200 lengthways Ast 2025 4.35 Turning radius Wa 1360 4.4 Lift height h3 mm 105 5.1 Travel speed, laden/unladen km/h 4/4.5 5.10 Service brake Electromagnetic 5.2 Lifting speed, laden/unladen m/s 0.017/0.020 5.3 Lowering speed, laden/unladen m/s 5/16 6.1 Drive motor rating \$2.60 min kW 0.75 6.2 Lift motor rating at \$3.15% kW 0.5 6.4 Battery voltage V 24	3.7	Tread width, rear	b ₁₁	mm	535/410
4.21 Overall width b ₁ /b ₂ mm 695/590 4.22 Fork dimensions s/e/1 mm 55/150/1150 4.24 Fork carriage width mm 685/560 4.32 Ground clearance, centre of wheelbase mm 25 4.34.1 Aisle width for pallets 1000×1200 crossways Ast 2160 4.34.2 Aisle width for pallets 800×1200 lengthways Ast 2025 4.35 Turning radius Wa 1360 4.4 Lift height h ₃ mm 105 5.1 Travel speed, laden/unladen km/h 4/4.5 5.10 Service brake Electromagnetic 5.2 Lifting speed, laden/unladen m/s 0.017/0.020 5.3 Lowering speed, laden/unladen m/s 5/16 6.1 Drive motor rating S2 60 min kW 0.75 6.2 Lift motor rating at S3 15% kW 0.5 6.4 Battery voltage V 24 6.4.1 Battery weight kg	4.19	Overall length		mm	1550
4.22 Fork dimensions s/e/1 mm 55/150/1150 4.24 Fork carriage width mm 685/560 4.32 Ground clearance, centre of wheelbase mm 25 4.34.1 Aisle width for pallets 1000×1200 crossways Ast 2160 4.34.2 Aisle width for pallets 800×1200 lengthways Ast 2025 4.35 Turning radius Wa 1360 4.4 Lift height hg mm 105 5.1 Travel speed, laden/unladen km/h 4/4.5 4/4.5 5.10 Service brake Electromagnetic Electromagnetic 5.2 Lifting speed, laden/unladen m/s 0.017/0.020 5.3 Lowering speed, laden/unladen m/s 5/16 6.1 Drive motor rating S2 60 min kW 0.75 6.2 Lift motor rating at S3 15% kW 0.5 6.4 Battery nominal capacity kW 2 6.4 Battery type Li-lon 6.5 Battery weight kg 5 6.5 Battery weight kg <td< td=""><td>4.20</td><td>Length to face of forks</td><td>I₂</td><td>mm</td><td>400</td></td<>	4.20	Length to face of forks	I ₂	mm	400
4.24 Fork carriage width mm 685/560 4.32 Ground clearance, centre of wheelbase mm 25 4.34.1 Aisle width for pallets 1000×1200 crossways Ast 2160 4.34.2 Aisle width for pallets 800×1200 lengthways Ast 2025 4.35 Turning radius Wa 1360 4.4 Lift height h ₃ mm 105 5.1 Travel speed, laden/unladen km/h 4/4.5 5.10 Service brake Electromagnetic 5.2 Lifting speed, laden/unladen m/s 0.017/0.020 5.3 Lowering speed, laden/unladen m/s 0.046/0.058 5.8 Max. gradeability, laden/unladen % 5/16 6.1 Drive motor rating \$2.60 min kW 0.75 6.2 Lift motor rating at \$3.15% kW 0.5 6.4 Battery nominal capacity Ah 20 6.4.1 Battery voltage V 24 6.4.1 Battery type Li-lon 6.5 Battery weight kg 5 7	4.21	Overall width	b ₁ /b ₂	mm	695/590
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4.34.2 Aisle width for pallets 800×1200 lengthways Ast 2025 4.35 Turning radius Wa 1360 4.4 Lift height h ₃ mm 105 5.1 Travel speed, laden/unladen km/h 4/4.5 5.10 Service brake Electromagnetic 5.2 Lifting speed, laden/unladen m/s 0.017/0.020 5.3 Lowering speed, laden/unladen m/s 5/16 5.8 Max. gradeability, laden/unladen % 5/16 6.1 Drive motor rating S2 60 min kW 0.75 6.2 Lift motor rating at S3 15% kW 0.5 6.4 Battery nominal capacity kW 20 6.4 Battery voltage V 24 6.4.1 Battery type Li-lon 6.5 Battery weight kg 5 10.5 Steering design Mechanical	4.32	Ground clearance, centre of wheelbase		mm	25
4.35 Turning radius Wa 1360 4.4 Lift height ha mm 105 5.1 Travel speed, laden/unladen km/h 4/4.5 5.10 Service brake Electromagnetic 5.2 Lifting speed, laden/unladen m/s 0.017/0.020 5.3 Lowering speed, laden/unladen m/s 0.046/0.058 5.8 Max. gradeability, laden/unladen % 5/16 6.1 Drive motor rating \$2.60 min kW 0.75 6.2 Lift motor rating at \$3.15% kW 0.5 6.4 Battery nominal capacity Ah 20 6.4 Battery voltage V 24 6.4.1 Battery type Li-lon 6.5 Battery weight kg 5 10.5 Steering design Mechanical	4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	2160
4.4 Lift height h3 mm 105 5.1 Travel speed, laden/unladen km/h 4/4.5 5.10 Service brake Electromagnetic 5.2 Lifting speed, laden/unladen m/s 0.017/0.020 5.3 Lowering speed, laden/unladen m/s 0.046/0.058 5.8 Max. gradeability, laden/unladen % 5/16 6.1 Drive motor rating \$2.60 min kW 0.75 6.2 Lift motor rating at \$3.15% kW 0.5 6.4 Battery nominal capacity Ah 20 6.4.1 Battery voltage V 24 6.4.1 Battery type Li-lon 6.5 Battery weight kg 5 10.5 Steering design Mechanical	4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	2025
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5.10 Service brake Electromagnetic 5.2 Lifting speed, laden/unladen m/s 0.017/0.020 5.3 Lowering speed, laden/unladen m/s 0.046/0.058 5.8 Max. gradeability, laden/unladen % 5/16 6.1 Drive motor rating \$2 60 min kW 0.75 6.2 Lift motor rating at \$3 15% kW 0.5 6.4 Battery nominal capacity Ah 20 6.4 Battery voltage V 24 6.4.1 Battery type 6.5 Battery weight kg 5 10.5 Steering design	4.4	Lift height	h ₃	mm	105
5.2 Lifting speed, laden/unladen m/s 0.017/0.020 5.3 Lowering speed, laden/unladen m/s 0.046/0.058 5.8 Max. gradeability, laden/unladen % 5/16 6.1 Drive motor rating S2 60 min kW 0.75 6.2 Lift motor rating at S3 15% kW 0.5 6.4 Battery nominal capacity Ah 20 6.4 Battery voltage V 24 6.4.1 Battery type Li-lon 6.5 Battery weight kg 5 10.5 Steering design Mechanical	5.1	Travel speed, laden/unladen		km/h	4/4.5
5.3 Lowering speed, laden/unladen m/s 0.046/0.058 5.8 Max. gradeability, laden/unladen % 5/16 6.1 Drive motor rating \$2 60 min kW 0.75 6.2 Lift motor rating at \$3 15% kW 0.5 6.4 Battery nominal capacity Ah 20 6.4 Battery voltage V 24 6.4.1 Battery type Li-lon 6.5 Battery weight kg 5 10.5 Steering design	5.10	Service brake			Electromagnetic
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6.1 Drive motor rating S2 60 min kW 0.75 6.2 Lift motor rating at S3 15% kW 0.5 6.4 Battery nominal capacity Ah 20 6.4 Battery voltage V 24 6.4.1 Battery type Li-lon 6.5 Battery weight kg 5 10.5 Steering design Mechanical	5.3	Lowering speed, laden/unladen		m/s	0.046/0.058
6.2 Lift motor rating at S3 15% kW 0.5 6.4 Battery nominal capacity Ah 20 6.4 Battery voltage V 24 6.4.1 Battery type Li-lon 6.5 Battery weight kg 5 10.5 Steering design Mechanical	5.8	Max. gradeability, laden/unladen		%	5/16
6.4 Battery nominal capacity 6.4 Battery voltage 6.4.1 Battery type 6.5 Battery weight 6.5 Steering design Ah 20 Li-lon kg 5 Mechanical	6.1	Drive motor rating S2 60 min		kW	0.75
6.4 Battery voltage V 24 6.4.1 Battery type Li-lon 6.5 Battery weight kg 5 10.5 Steering design Mechanical	6.2	Lift motor rating at S3 15%		kW	0.5
6.4.1 Battery type Li-lon 6.5 Battery weight kg 5 10.5 Steering design Mechanical	6.4	Battery nominal capacity		Ah	20
6.5 Battery weight kg 5 10.5 Steering design Mechanical	6.4	Battery voltage		V	24
10.5 Steering design Mechanical	6.4.1	Battery type			Li-lon
	6.5	Battery weight		kg	5
10.7 Sound pressure level at the drivers ear dB(A) <74	10.5	Steering design			Mechanical
	10.7	Sound pressure level at the drivers ear		dB(A)	<74



Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	1150x560 800×560 900×560 1000×560 1220×560 1350×560 1500×560 800×685 900×685 1000×685 1150×685 1220×685 1350×685 1500×685
Fork lowered height	80
Load wheel type	Double Single
Handle head type	Hands big handle head Hands small handle head
Load wheel material	PU
Drive wheel material	PU
Battery capacity	20Ah
Charger	24V-5A external 24V-10A external
Battery display indicator (BDI)	Without time
Buzzer	Yes and not customized

ITEM	OPTIONS (optional items marked in yellow)
Turtle speed	Yes and not customized
Castor wheels	No Yes and not customized
Drive assembly	Yes and not customized