LiTE

TCM

FR(D)(S)15-20U

STAND-ON SCISSOR REACH TRUCK

1.5 - 2.0 TONS



CONSISTENT PRODUCTIVITY

Engineered for high-density warehouse environments, the FR series stand-on scissor reach truck delivers precise load handling with outstanding mast visibility and a compact footprint. Suitable for medium to high-intensity worklaods, this machine combines efficient energy utilisation with consistent power delivery to reduce maintenance requirements and sustain reliable daily operation. Available in single reach (FRS15-20U) and double reach (FRD15U), with load capacities of 1.5 and 2.0 tonnes.

ERGONOMICS

- Effortless boarding height with waist and elbow supports reduces operator fatigue during shift
- Adjustable multifunctional integrated handle complements working posture
- Large instrument display presents clear vehicle status and operating information

SAFETY

- Automatic deceleration during turns to prevent accidents
- Adaptive load-sensing system adjusts lift height based on rated capacity
- Automatic fork levelling function ensures safe and consistent load handling
- Fully proportional hydraulic control supports precision and long-term durability



STRUCTURE

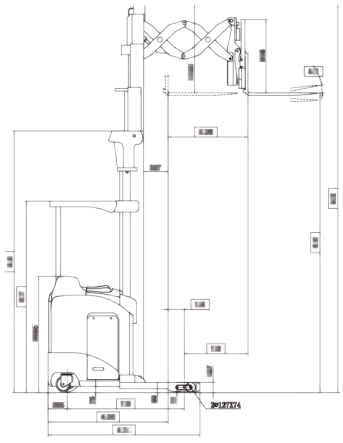
- Highly robust and stable scissor mechanism enables smooth fork reach while minimising vibration and rocking
- Lifts up to 0.8 tons at 11.5 m height with smooth power delivery
- Scissor mechanism folds neatly upon retraction, significantly maximises space utilisation
- End-of-scissor cushioning reduces impact and improves overall stability during retraction

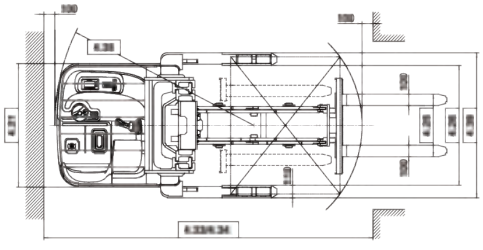
EFFICIENCY

- Sturdy load wheels facilitate access across multiple mast height configurations
- Versatile battery capacities support various travel distances and shift durations
- Compact chassis enables easy access to narrow-aisle applications
- Neatly arranged components ensure efficient part identification during service

SPECIFICATIONS

CHARACTERISTICS						
1.1	Manufacturer (abbreviation)			**TCM Forklift Trucks**		
1.2	Manufaturer's type designation			**FRD15U**	**FRS15U**	**FRS20U**
1.3	Power source:			Electric		
1.4	Operator type			Stand		
1.5	Load capacity	Q	kg	1500		2000
1.6	Load centre	c	mm	600		
1.7	Load distance	x	mm	See Table 2	See Table 6	See Table 10
1.8	Wheelbase	y	mm	See Table 2	See Table 6	See Table 10
WEIGHT						
2.1	Service weight (less battery)		kg	See Table 4	See Table 8	See Table 12
TYRES						
3.1	Tyres (Power unit side, Drive)		mm	Ø 343 x 140		
3.2	Tyres (Load side, Standard wheel)		mm	Ø 127 x 74		
3.3	Castor wheel, size		mm	Ø 205 x 101		
3.4	Wheels (x = driven wheels), number power unit side / load side			1x, 4 / 1		
3.5	Track width	b10	mm	800		
DIMENSIONS						
4.1	Tilt: Fork carriage (forward/backward)	α/β	(°)	3 / 4		
4.2	Mast, Collapsed height	h1	mm	See Table 1	See Table 5	See Table 9
4.3	Free lift	h2	mm	See Table 1	See Table 5	See Table 9
4.4	Lift height	h3	mm	See Table 1	See Table 5	See Table 9
4.5	Extended mast height	h4	mm	See Table 1	See Table 5	See Table 9
4.6	Overhead guard height, overhead guard (cabin)	h6	mm	See Table 1	See Table 5	See Table 9
4.7	Outrigger height (standard wheel / Ø 102 / Ø 127 / Ø 152)	h8	mm	125		
4.8	Headlength	l2	mm	See Table 2	See Table 6	See Table 10
4.9	Width overall, power unit side	b1	mm	1080		
4.10	Fork dimensions, standard / optional lengths	T x W x L	mm	40 x 100 x 1070		40 x 120 x 1070
4.11	Fork carriage DIN15173 class/form A, B			2A		
4.12	Fork carriage width, including load backrest	b3	mm	820		
4.13	Width across forks, with sideshifter / without sideshifter	b5	mm	200 - 760		240 - 760
4.14	Inside straddle, in 25mm increments	b4	mm	1050 / 1270		
4.15	Reach, with sideshifter / without sideshifter	l4	mm	1060	570	
4.16	Ground clearance, centre of wheelbase	m2	mm	50		
4.17	Working aisle width, 1000 x 1200 crossways	Ast	mm	See Table 2	See Table 6	See Table 10
4.18	Working aisle width, 800 x 1200 lengthways	Ast	mm	See Table 2	See Table 6	See Table 10
4.19	Turning radius	Wa	mm	See Table 2	See Table 6	See Table 10
4.20	Length over outriggers	l7	mm	See Table 2	See Table 6	See Table 10
4.21	Width outriggers	b2	mm	See Table	1295	
PERFORMANCE						
5.1	Travel speed - standard		km / h	9 / 9.5		
5.2	Lift speed, with / without load		m / s	0.35 / 0.5		
5.3	Lowering speed, with / without load		m / s	0.50 / 0.50		
5.4	Reach speed, with / without load		m / s	0.15 / 0.15		
5.5	Max.Gradeability, with load		%	5		
5.6	Service/Parking brake			Electric		
ELECTRIC MOTOR						
6.1	Drive motor rating S2 60 min		kW	5.5		
6.2	Lift motor rating at S3 15%		kW	11		
6.3	Max. battery size, DIN43531/35/36 A, B, C, no	l x w x h	mm	See Table 2	See Table 6	See Table 18
6.4	Lead-acid battery voltage, nominal capacity 5h		V / Ah	See Table 2	See Table 6	See Table 18
6.5	Lithium battery voltage, nominal capacity 2h		kg	See Table 2	See Table 6	See Table 18
6.6	Battery weight		kg	See Table 2	See Table 6	See Table 18
OTHER DETAILS						
7.1	Type of drive control			AC		







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Note:
These products and specifications are subject to change without notice.
Photos and illustrations may slightly differ from the actual trucks.
Photos and illustrations may or may not include optional equipment and accessories.
Features and specification may vary depending on markets.
Performance data and dimensions are normal and subject to tolerances.
Produced in ISO certified factory.

FLITE0016 (07/26)