

### QD-D Electric Towing Tractor



- Rider operated tow tractors are ideal for use in warehouses, factories, hospitals, laboratories and external sites.
- The operator simply hooks up the tow hitch to the required trailer.
- Ideal for walk on/off order picking operations.
- Quiet in operation.



■ QD-D

### ■ Specifications of QD-D series Electric Towing Tractor

Model		QD-20D	QD-30D	QD-40D
Towing Capacity	kg	2000	3000	4000
Driving Motor	W	DC-24V-2000W (Separately Excited Motor)		
Battery		D-240A 24V	D-300A 24V	D-400A 24V
Battery Charger	A	40	45	45
Driving Speed	km/h	7	7	7
Controller Type		MDSF, Automatic Transmission, Front Drive or Back Drive		
Working Time	Hours	6	6	5
Min. Turning Radius	R mm	1000	1380	1330
Operation Type		Stand-on	Stand-on	Stand-on
Ground Clearance	mm	85	85	85
Stand-on Plate Height	mm	230	230	230
Steering Wheel	mm	Φ210x80	Φ210x80	Φ210x80
Drive Wheel	mm	Φ250x90	Φ250x90	Φ250x90
Overall Length	L mm	1490	1690	1730
Overall Width	W mm	820	820	820
Overall Height	H mm	1350	1350	1350
Service Weight	kg	1150	1450	1550



Safe automotive controls and steering wheel eliminate hand injuries and carpal tunnel syndrome hazards associated with twist grip controls. State-of-the-art programmable CURTIS transistor controller motor provides smooth and seamless control. Auto reset circuit breaker and fused control circuit designed to protect the electrical system.



High capacity traction battery with battery state and hourmeter will give prolonged daily use. Easy access dash controls.

### QTT & QCT Prime Mover



■ QCT-20



■ QTT-20

- Small and compact for working in tight areas, but it has powerful towing capacity.
- Tight turning radius for increased mobility in narrow places.
- Complete with braking system.
- Suitable for towing trailers and bulky cargos in manufacturing and warehousing.

### ■ Specifications of QTT & QCT series Prime Mover

Model		QTT-20		QCT-20	
Towing Capacity	kg lbs	2000	4409	2000	4409
Lifted Drawbar Height	mm inch	325	12.8"	325	12.8"
Lower Drawbar Height	mm inch	200	7.9"	200	7.9"
Overall Length	mm inch	1339	52.7"	1464	57.6"
Overall Width	mm inch	750	29.5"	750	29.5"
Overall Height	mm inch	1390	54.7"	1390	57.6"
Drawbar	mm inch	Φ30*60	Φ1.2"*2.7"	Φ30*60	Φ1.2"*2.7"
Turning Radius	mm inch	1120	44.1"	1400	55.1"
Travel Speed (with Load)	km/hr	4-5		4-5	
Travel Speed (without Load)	km/hr	5-6		5-6	
Drive Motor	kw	24V*1.1kw		24V*1.1kw	
Hydraulic Motor	kw	24V*2kw		24V*2kw	
Battery		24V*170Ah/5Hr		24V*170Ah/5Hr	
Battery Charger		Ac1 Φ*220v,50Hz		Ac1 Φ*220v,50Hz	



The units front wheels automatically raise allowing the trailer to be easily moved into any desired position. Please contact our sales department for more information on our range of trailers.



The Prime Mover clamp is positioned in front of the trailer. The clamping action is electronically administered from the control panel. The Prime Mover securely engages the trailer with a positive hydraulic powered clamp.



**Speed Controller**  
Using a micro-processor and by adopting a digital control method and a highly integrated power module technology. The result is a small and compact speed control that prevents sudden accidental starts, and a self diagnostic/protective function, yet with a robust variable speed controller.



**Battery Charger**  
Automatically recharges to optimal levels while unit is connected to a power source. Automatic voltage checking system avoids overcharging, extending the battery life.



QDD/QD/QTT/QCT Series

Electric Towing Tractor

ISO9001  
CE



- Towing Capacity: 2T~10T
- High efficiency, No pollution and save energy
- Idea for gradients and outside use
- Quiet in operation



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**QDD Electric Towing Tractor**

- The programmable electronic controllers.
- Hydraulic disc brakes and heavy duty construction.
- Guarantee a more rugged, more efficient, and more easily maintained electric powered tow tractor.



■ QDD

**Specifications of QDD series Electric Towing Tractor**

Model		QDD-20	QDD-50	QDD-100	QSD-100
Operating Type		3-Fulcrums, Back Drive, Hydraulic Brake, MOFSET, Hand Brake			
Drawbar Pull	N	1250	1700	2500	2500
Towing Capacity	kg	2300	5000	10000	10000
Driving Speed	km/h	8	8	8	12
Turning Radius (outside)	R mm	1350	1650	1880	1880
Gradeability	%xM	10%×12m	10%×12m	10%×12m	10%×12m
Motor Model		XQ-3-3B	XQ-4.5-2	XQ-6.3	XQ-6.3
Rated Power	kw	3	4.5	6.3	6.3
Rated Voltage	V	45	45	45	45
Rated Current	A	87	120	173	173
Rated Rotate Speed	EPM	1780	1780	1200	1200
Seat Height (above ground)	H1 mm	1050	1050	1050	1050
Drawbar height (above ground)	H2 mm	350	350	350	350
Overall Size	LxWxH mm	1684x677x1340	1755x900x1380	2200x1100x1590	2200x1100x1590
Wheel Base	L1 mm	970	1040	1300	1250
Ground Clearance	mm	60	60	105	105
Front Wheel		4.00-8/×1	4.00-8/×1	4.00-8/×2	5.00-8/×2
Rear Wheel		4.00-8/×2	4.00-8/×2	6.00-9/×2	6.50-10/×2



Infinite speed control in forward and reverse | High capacity traction battery | Flexible function and smooth acceleration/deceleration | Human-based design and operator perception system

**QDD-F Electric Towing Tractor**

- The program-mable electronic controllers, hydraulic disc brakes, and heavy duty construction, guarantee a more rugged, more efficient, and more easily maintained electric powered tow tractor.
- Features unique front steering system is virtually maintenance free and provides extremely tight turning in restrictive spaces.
- Quiet in operation.



■ QDD-F

**Specifications of QDD-F series Electric Towing Tractor**

Model		QDD-20F	QDD-50F	QDD-80F	QDD-100F
Operating Type		4-Wheels, Back Drive, Hydraulic Brake System, MOFSET, Hand Brake			
Drawbar Pull	N	800	1100	1100	250N
Towing Capacity	kg	2000	5000	8000	10000
Drive Speed (full-loaded)	km/h	11	10	8	8
Turning Radius	R mm	2200	2200	2200	2200
Gradeability (full-loaded)	(%×m)	10%×12m	10%×12m	10%×12m	10%×12m
Load Distribute	front wheel kg	420	492	492	630
	rear wheel kg	520	608	608	1180
Service Weight	kg	940	1100	1100	1810
Load Rate (front : rear)		0.45: 0.55	0.45: 0.55	0.45: 0.55	0.35: 0.65
Motor Model		XQ-3-1	XQ-4.5	XQ-4.5	XQ-6.3
Rated Power	kw	3	4.5	4.5	6.3
Rated Voltage	V	45	45	45	45
Rated Current	A	87	120	120	173
Rated rotate speed	EPM	1780	1600	1600	1200
Overall Size	LxWxH mm	1700x1130x1300	1700x1130x1300	1700x1130x1300	2095x1080x1390
Wheel base	L1 mm	1030	1030	1030	1150
Tread	front wheel mm	980	980	980	920
	rear wheel mm	1000	1000	1000	890
Ground Clearance	B mm	110	110	110	142
Seat Height (above ground)	H1 mm	1050	1050	1050	1050
Drawbar Height (above ground)	H2 mm	320	320	320	365
Wheel (Penumatic)	front Wheel	145/70-R12/×2	145/70-R12×2	145/70-R12×2	6.50-10/×2
	rear Wheel	145/70-R12/×2	145/70-R12×2	145/70-R12×2	6.50-10/×2



Heavy duty construction | Simply hooks up the tow hitch to the required trailer | Human-based design and operator perception system | State-of-the-art programmable Curtis transistor controller

**QD-B Electric Towing Tractor**

- This QD-B Electric Tow Tractors are ideal machines for indoor as well as outdoor applications.
- The all-new QD-B has automotive style controls making them every operator's first choice.
- The QD-B is equipped as standard with four wheel hydraulic drum brakes, all round suspension, regenerative braking and fully adjustable acceleration / deceleration.



■ QD-B

**Specifications of QD-B series Electric Towing Tractor**

Model		QD-20B	QD-30B	QD-50B
Load Capacity	kg	2000	3000	5000
Driving Motor	v/w	DC-24V-2000W	DC-24V-2000W	DC-24V-3000W
Battery	v/Ah	D-240A 24V	D-300A 24V	D-300A 36V
Battery Charger	A	40	45	45
Steering		Manual front wheel steering and all wheel drive		
Brake		Hydraulic 4 wheel disc brakes independent,servo actuated type.		
Parking		Mechanical Parking brake actuated		
Driving Speed	km/h	7	7	7
Working Time	Hrs.	6	6	6
Min. Turning Radius	R mm	1000	1380	1380
Operation Type		Rider	Rider	Rider
Min. Under-clearance	mm	85	85	85
Steering Wheel	mm	White Rubber Φ267x127	White Rubber Φ267x127	White Rubber Φ267x127
Drive Wheel	mm	Φ330x165	Φ330x165	Φ330x165
Overall length	L mm	1490	1630	1700
Overall width	W mm	820	820	820
Overall height	H mm	1350	1350	1350
Service Weight	kg	1150	1450	1580



Ecostar DC drive units | High capacity traction battery | Easily checking layout components and circuits | Ergonomic designed operation system