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Electric Towing Tractors

NTF & NTT & HT series

NTF1500/2000 NTF360P NTF200P

NTT100H NTT100 NTT90 NTT50

HT12 HT12N



**Electric
Towing Tractors**



NTF series

NTF2000/1500



NTT series

NTT100H



HT series

HT12



NTF360P



NTF200P



NTT100



NTT90



NTT50



HT12N

NICHYU Electric Towing Tractors

Based on the latest technology cultivated from more than 60 years of experience with electric forklift trucks, the NICHYU electric towing tractors feature clean, quiet and powerful operation in the field resulting in a better work environment.

With choices from a wide range of models, NICHYU tractors can be matched to the needs of a particular application such as plant, factory, market, railway station, airport, distribution center, and other facilities.

NICHYU developed the powerful drive motors, drive units and controls to provide high transporting efficiency. The power source is the industrial battery which provides a stable, safe and low cost operation when compared with the engine powered tractors. Each component and unit of the tractor are logically placed in the chassis for ease of maintenance. Charging the battery is also made easy by the automatic charger.

**Electric
Towing Tractors**

The Power to Tow Heavy Loads with Ease

Clean, quiet battery power

Nichiyu, the battery forklift pioneer, introduces a clean, quiet, battery-powered towing tractor featuring a wide array of advanced mechatronics technology throughout. We offer several types with varied features, each of which is applicable to particular towing load and driving conditions.

1. The power to tow heavy loads

In addition to boasting increased power, these models incorporate Nichiyu's own motor, control system, drive system and other features. This powerful towing force greatly reduces the labor involved in the transportation tasks typical of a factory or market. What's more, the heavy towing capacity minimizes conveyance work between processes.

2. Low maintenance costs

Compared with gas-powered tractors, this battery-powered model uses a more stable, easy-to-use power supply (as provided by hydroelectric, thermal or nuclear power plants). In addition, the low cost of recharging (fuel cost) is attractive, with each charge providing many hours of operation.

3. Operator-friendly operation system

Everything in this operator-centered design is focused on ergonomics, including a spacious seat, highly visible indicator panel and concentrated layout of the various controls.

NTF2000/ NTF1500 Models

Safety, exceptional performance & ample power

Thanks to Nichiyu's own electrical devices, motors and super high-capacity batteries, these battery-powered towing tractors can be used in fields once dominated by gas-powered towing tractors.

Operator-friendly design

Operator-friendly design
These models are designed for the operator, with an open step for easy operator entrance and exit, a coupler visible from the operator's seat, and battery cover that opens and closes smoothly.



Functional operation equipment



Applicable for several height of towing things



Trailer coupler seen from the driving position

NTF360P/ NTF200P/ NTT100/ NTT100H/ NTT50 Models

Easier maintenance and checkups

Maintenance and checkups are simple because each section is configured as an easily accessible unit.

Nichiyu's own unique control system



The electromagnetic induction control system (NTT 100, NTT 50)



Operator-friendly design (NTF200P)



Easy-disconnect trailer coupler (NTF200P)

Simple charging

To charge, simply open the battery box, plug in the charging plug and set the timer. Models NTT 75/100 can be charged with a 100 V power source.

HT12/ HT12N Models

Rational control system

Nichiyu's own indirect control system comprises a controller and magnetic switch. The use of a special alloy having a large current capacity for the magnetic contacts prevents problems such as damage from arcing.



Mounted with 100V charger

Small turning radius with turret handle

The front wheel can be turned 90° to the left and right with the turret handle. This makes it ideal for maneuvering in small spaces despite having a large loading platform.



Turret handle for easy and small turn

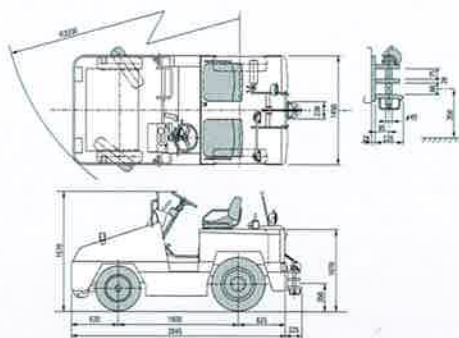
Standard and optional equipment

Model ▶	HT12	HT12N	NTT50	NTT90	NTT100	NTT100H	NTF200P	NTF360P	NTF1500	NTF2000
▼Option										
Headlight(s)	○	○	○	—	○	○	○	○	○	○
Turn-signal lamps	▲	▲	▲	—	▲	▲	○	○	○	○
Back lamp	▲	▲	▲	—	▲	▲	○	○	○	○
Stop & tail lamp	▲	▲	▲	—	▲	▲	○	○	○	○
Rear view mirrors	▲	▲	▲	—	▲	▲	○	○	○	○
Horn	○	○	○	○	○	○	○	○	○	○
Back buzzer	▲	▲	▲	▲	▲	▲	○	○	○	○
Coupler	▲	▲	○	○	○	○	○	○	○	○
Wheel stopper	▲	▲	—	—	▲	▲	▲	▲	▲	▲
Fier extinguisher	▲	▲	▲	—	▲	▲	▲	▲	▲	▲
Caster wheels	—	—	—	—	—	—	—	—	—	—

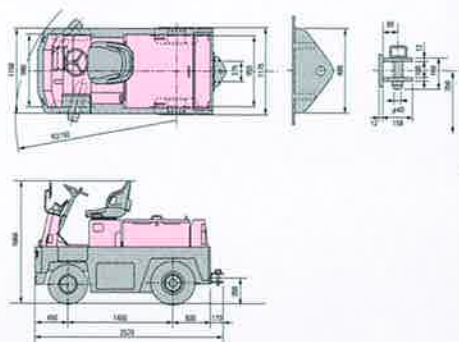
○ : Standard ▲ : Option

Dimensions

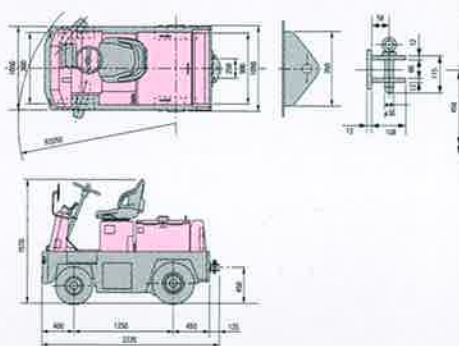
NTF2000/1500



NTF360P



NTF200P

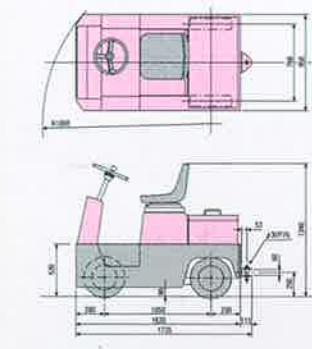


Specifications

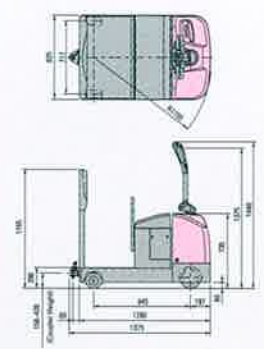
Model			NTF2000	NTF1500	NTF360P	NTF200P
Performance	Rated drawbar pull	N/(kgf)	7,300[740]	3,900[400]	3,530[360]	1,960[200]
	Standard loading capacity	(kg)	—	—	—	—
	Towing capacity	(kg)	—	—	14,400	8,000
	Max.loading capacity(flat road)	(kg)	—	—	—	—
	Travel speed	Laden (km/h) Unladen (km/h)	11.5 30.0	13.5 26.5	6.0 12.0	7.0 15.0
Dimensions	Gradeability(laden)	(%)	—	—	—	—
	Min.turning radius	(mm)	3,200	3,200	2,150	2,050
	Overall length(incl.coupler)	(mm)	3,070	3,070	2,520	2,220
	Length of coupler	(mm)	225	225	170	120
	Overall width	(mm)	1,450	1,450	1,175	1,090
	Overall height	(mm)	1,570	1,570	1,660	1,570
	height of coupler center(from floor)	(mm)	350-450	350-450	350	450
	Loading platform	Length (mm)	—	—	—	—
		Width (mm)	—	—	—	—
		Height(from floor) (mm)	—	—	—	—
	Wheelbase	(mm)	1,600	1,600	1,400	1,250
	Overhang	Front (mm)	620	620	450	400
		Rear (mm)	625	625	500	450
	Tread	Front (mm)	1,210	1,210	980	900
		Rear (mm)	1,230	1,230	955	900
	Service weight(incl.battery)	(kg)	3,900	3,800	2,780	1,820
Tyre	Tyre		Pneumatic			
	Front tyre(quantity)		165R-13-8PR(2)	165R-13-8PR(2)	6.00-9-10PR(2)	5.00-8-8PR(2)
	Rear tyre(quantity)		28x8-15-12PR(2)	28x8-15-12PR(2)	23x9-10-16PR(2)	21x8-9-14PR(2)
Motor		(kW)	25.0	17.5	10.0	7.8
Control system			FET chopper control			
Battery	120V 340Ah/5HR		80V 485Ah/5HR	72V 400Ah/5HR	48V 330Ah/5HR	
	(Sub-battery)		24V, 145Ah/5HR			
Charger	Automatic stationary charger		Automatic built-in charger			
	200V/3-phase		400V/3-phase	200V/3-phase		

Notes : Towing capacity was calculated under flat road and rolling resistance 0.025.

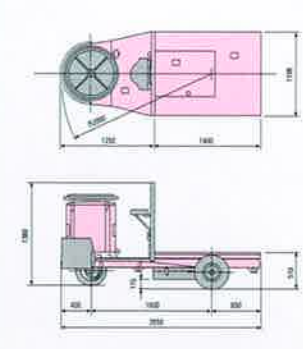
NTT100H



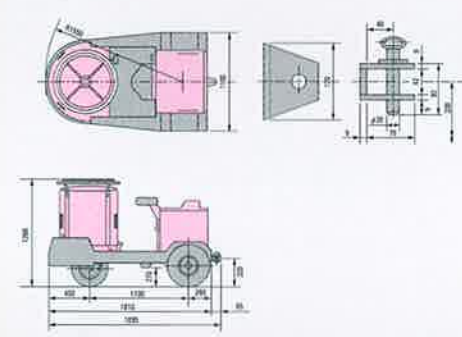
NTT90



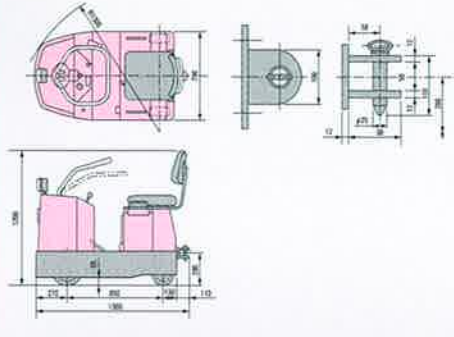
HT12



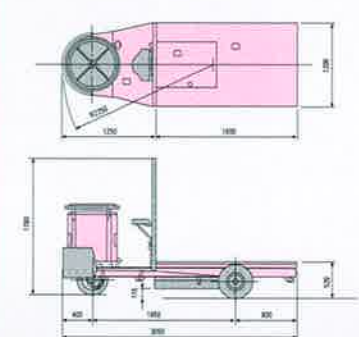
NTT100



NTT50



HT12N



NTT100H	NTT100	NTT90	NTT50	HT12	HT12N
980[100]	980[100]	882[90]	490[50]	—	—
—	—	—	—	1,200	1,200
4,000	4,000	3,600	2,000	—	—
—	—	—	—	1,500	1,500
7.0	4.0	6.5	6.0	10	10
11.5	10.0	7.0	9.5	13	13
—	—	—	—	10	10
1,660	1,550	1,155	1,300	2,000	2,250
1,735	1,895	1,375	1,360	2,650	3,050
115	85	60	110	—	—
950	1,100	825	790	1,100	1,200
1,340	1,200	1,440	1,200	1,380	1,780
250	320	150~420	280	—	—
—	—	—	—	1,400	1,800
—	—	—	—	1,100	1,200
—	—	—	—	510	520
1,050	1,100	945	850	1,600	1,850
280	450	197	270	400	400
290	260	138	130	650	800
—	—	—	—	—	—
760	960	717	650	960	1,060
1,200	750	780	620	555	610
No-puncture	(F)No-puncture (R)Pneumatic	(F)Solid (R)Urethane	Solid	(F)No-puncture (R)Pneumatic	No-puncture
4.00-8(1)	4.00-8(1)	ø215 x 84(1)	ø254 x 102(1)	4.00-8(1)	4.00-8(1)
4.00-8(2)	5.00-8-8PR(2)	ø152 x 76(2)	ø178 x 73(2)	5.00-8-8PR(2)	5.00-8(2)
5.0	1.5	1.6	1.6	1.6	1.6
Resistor control		FET chopper control		Resistor control	
48V 170Ah/5HR	24V 170Ah/5HR	24V 201Ah/5HR	24V 216Ah/5HR	24V 180Ah/5HR	
Automatic stationary charger	Automatic built-in charger 100V/single-phase		Automatic stationary charger 200V/3-phase	Automatic built-in charger 100V/single-phase	

*All specifications are subject to change without notice due to further improvement or modifications.

About Us

NICHIYU is a pioneer of electric forklift trucks in Japan. For over 60 years since developing the Japan's first electric forklift in 1937, NICHIYU has continued to develop and provide a variety of electric forklift trucks that solve the various problems faced by users in the workplace. Our user-oriented products never fail to satisfy the customers' expectations. NICHIYU is the leading forklift truck supplier in Japan and Southeast Asia. The demand for electric forklift truck is currently on the rise the world over. With our 3-point system of Europe, Oceania and Asia, We hope to help our customers the world over streamline their distribution while contributing to environmental conservation.

ISO9001 Certified



JQA2390

NICHIYU
NIPPON YUSOKI CO., LTD.

All specifications are confirmed based on manufacturer's terms and conditions.
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1-1,2-chome, Higashikotari, Nagaokakyo-shi, Kyoto 617-8585 Japan.
Phone:075-956-8622 Fax:075-955-0480 E-mail:overseas@nichiyunet.co.jp

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