

## Fork&Crane lifting truck

SOCMA (HNFC135-720) fork crane is a vehicle combining fork and crane lifting capability into one truck, developed by SOCMA material handling section.

- **Fork lifting capacity 13.5tons,**
- **Crane lifting capacity 72 ton\*m**
- **Wireless Remote control of crane operation**
- **Crane 360 degree rotating**
- **Crane boom reach up to 17meter height.**

### Benefit

- ◆ **Cost saving, using one truck to do two task with using fork or crane lifting;**
- ◆ **Reduce space, with one truck occupying space needed;**
- ◆ **Labor cost reduction on one operator wage pay;**
- ◆ **One truck's cost for fuel and maintenance**



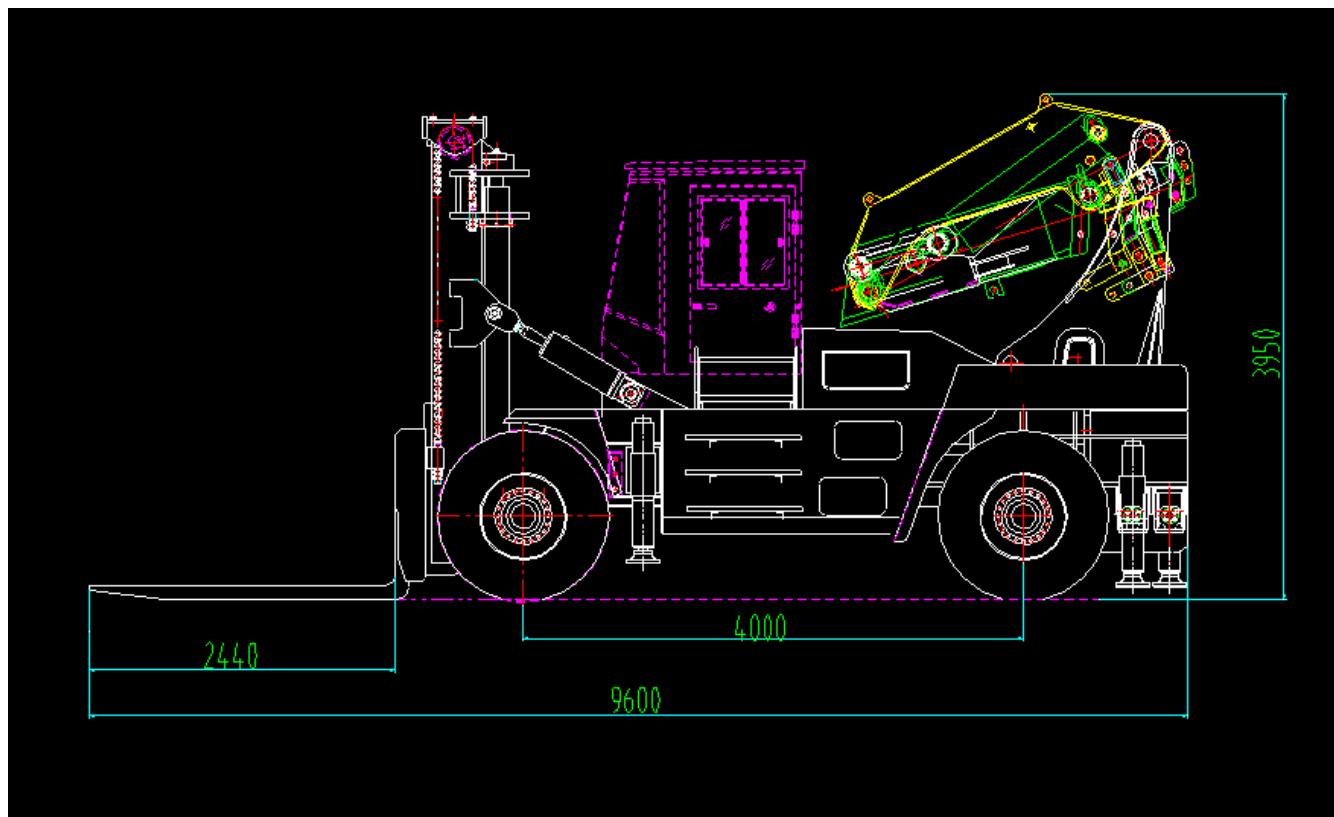
## One Truck Two Using

HNFC135-720 参数表 Parameter

POS	ITEM DESCRIPTION		UNIT	HNFC135-720
Characteristics	1. 1	起重量/载荷 Capacity	Q(t)	13. 5
	1. 2	载荷中心距 Load center	c (mm)	600
	1. 3			
	1. 4	轴距 Wheel base	y (mm)	3250
Weight	2. 1	自重 Truck Weight	kg	21950
	2. 2			
	2. 3			
Chassis	3. 1	轮胎规格, 前 Tyre Specs. :Front		10. 00x20/16PR

Dimension	3. 2	轮胎规格, 后 Tyre Specs. :Rear		10. 00x20/16PR
	3. 3	车轮, 数量前/后 (×=驱动轮) Tyres Qty, front/rear (X=drive wheels)		4×/2
	3. 4	轮距, 前 Wheel tread:Front	b10 (mm)	1677
	3. 5	轮距, 后 Wheel tread:Rear	b11 (mm)	2013
	4. 1	门架/货叉架前/后倾角 Mast/carriage tilt angle(front/rear)	°	6° /12°
	4. 2	整车高度 Mast height(fork lowering)	mm	3200
	4. 3	标准起升高度 Max. lifting height	h3 (mm)	3000
	4. 4	作业时最大高度 Overall height(fork raised)	h4 (mm)	4600
	4. 5	总长(含 2000mm 货叉) Overall length (with 2000mm forks)	l1 (mm)	7600
	4. 6	货叉垂直前表面至车辆后端距离 Fork front vertical surface to the rear end of the vehicle	l2 (mm)	5600
	4. 7	总宽 Overall Width	b1/b2 (mm)	2250
	4. 8	货叉尺寸 Fork dimension	s/e/l (mm)	90x180x2000
	4. 9	货叉架宽度 Fork carriage width	b3 (mm)	2200
Performance	4. 10	门架下最小离地间隙 满载 Mast Min ground clearance (with load)	m1 (mm)	225
	4. 11	支腿最小离地间隙 Outrigger min ground clearance (with load)	m2 (mm)	320
	4. 12	最小转弯半径 Min. Turning radius	Wa (mm)	
	5. 1	运行速度 (满载/无载) Travel speed (with load/without load)	km/h	23/26
Engine	5. 2	最大起升速度 (满载/无载) Max. lifting speed (with load/without load)	m/s	310/340
	5. 3	爬坡度 (满载/无载) Gradeability (with load/without load)	%	20
	5. 4	行车制动 Driving brake		钳盘式制动器 clamp disco brake
Engine	7. 1	内燃机生产厂名称/型号 Engine brand/model		玉柴 YC6J150-T301

	7.2	Power ISO 1585	KW	110
	7.3	rpm	$\text{min}^{-1}$	2200
	7.4	气缸 air cylinder	$\text{cm}^3$	6
Other	8.1	行驶控制方式 Driving control method		液力变矩器 torque converter
Jib	9.1	重量 Weight	Kg	7800
	9.2	控制方式 Control		无线遥控 Remote control
	9.3	支腿控制方式 Outrigger Control		手动下车阀控制 Manual landing valve control
	9.4	主支腿外伸两侧中心距 main Outrigger Longitudinal span	mm	4319
	9.5	后支腿外伸离转盘中心距 Distance between extending rear outrigger to center of swing platform	mm	1582
	9.6	附加支腿外伸两侧中心距 Distance between the center of additional extended outrigger at two sides	mm	2270





The new released truck is a perfect integration of fork and crane lifting vehicle, rather than a simple piece of fork plus crane machine. The fork fixes on the front mast, while the crane installed on the rear chassis of the truck. The crane designs to move and lift materials from ground to aerial space with the stretching out and drawing back, also foldable boom. It is with integral chassis, there are five outriggers around the front and rear chassis, which guarantee the balance of the truck.

Two isolated hydraulic system, which support the different working devices, shift valve control the combination and the distribution.

The outriggers can easily stretching out or drawing back, to facilitate the requirements of different fork lifting or crane hoisting job.

- ◆ ♦ Pilot control, a single joy sticker can control the forklift 3-group action, which reduce the hydraulic control hose, increase the cab space.
- ◆ ♦ Remote control and wireless receiver module control the actions of the crane, including rotating, folding, lifting, stretching and drawing back, enable operator manipulate the crane around the crane, that makes safe and reliable
- ◆ ♦ Rotating of the crane is controlled by double rotary motor, which make the rotating of the boom more smoothly, and improve the braking of the rotary motor.

The radiator system is arranged at the right side, the hydraulic motor control the hydraulic fan and hydraulic oil cooler, which guarantee the heat balance of the truck. The cab is arranged at the left side, the highest point of the folded crane is lower than the forklift mast, which reducing the overall height of the truck. Forklift + Crane, One plus one. It is much less than two in the consideration of the procurement cost.

Forklift + Crane, Models available as following :

HNFC160-1000, HNFC200-1200, HNFC250-1600, HNFC320-1800, HNFC400-200, HNFC450-2000, HNFC500-2000.