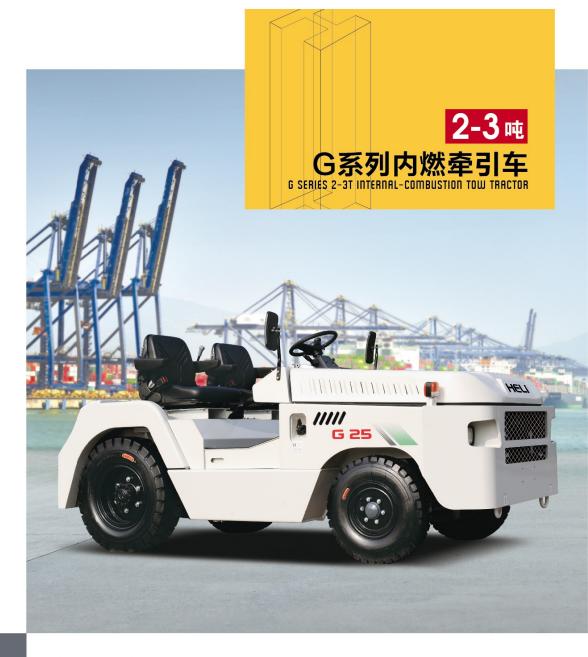


G SERIES 2-3T INTERNAL-COMBUSTION TOW TRACTOR

	全液压横置油缸式动力转向 Fully hydraulic transverse cylinder steering	月白色涂装 Lunar white painting				
	前后桥板簧悬挂 Front/rear axle spring suspension	液晶数字化仪表 LCD digital instrument	前桥阻尼减震 Front axle damping			
	智能换挡(液力车) Intelligent gear shifting(tractor with tor-con)	0.5kg干粉灭火器 0.5kg fire extinguisher	倒车镜 Rearview mirror			
	电液换向(液力车) Electro-hydraulic direction changing(tractor with tor-con)	合力驱动桥 HELI drive axle	双座椅 Double seat			
	合力变速箱(液力车) HELI gearbox(tractor with tor-con)	前远光灯(汽油车) Front high-beams(Gasoline powered tractor)	充气胎 Pneumatic tyre			
	一汽长齿变速箱 (QYC20/25-W1G) FAW gearbox(QYC20/25-W1G)	国产钢瓶(汽油车) Homemade steel cylinder(Gasoline powered tractor)	全车LED灯 LED light			
	软轴操纵式变速箱 (QYC20/25-J1G/J2G) Flexible shaft control type gearbox(QYC20/25-J1G/J2G)	全液压动力两轮制动 Hydraulic power brake acts on the rear wheels	随机工具箱 Spare parts box with tractor			
	标准配置 Standard configuration					

选项配置 Optional configuration					
动力四轮制动	日本岗村变速箱	速度里程表			
Hydraulic power brake acts on four wheels	Okamura gearbox imported from Japan	Speedometer			
真空助力双回路四轮制动	排气火花熄灭器	空调			
Vacuum assisted dual circuit four wheel brake	Exhaust spark extinguisher	Air conditioner			
LED警示灯(闪光/旋转/旋转蜂鸣)	进口钢瓶(汽油车)	暖风机			
LED warning light(flash/revolving/ revolving and buzzing)	Imported steel cylinder(Gasoline powered tractor)	Warm air blower			
双层牵引座/多层牵引座	后工作灯	除霜装置			
Dual-layer traction seat/ multi-layer traction seat	Rear working light	Defroster			
全封闭驾驶室(含风扇、内饰软包等,配0.5公斤灭火器)	总电源开关	加装行李栏			
Fully enclosed cab(with fan,inner accessories, 0.5kg fire extinguisher)	Power switch	Luggage fence			
一汽长齿变速箱(QYC20/25-J1G/J2G)	前牵引座	加装防撞块			
FAW gearbox(QYC20/25-J1G/J2G)	Front traction seat	Anti-collision block			
倒车语音喇叭 Backward loud speaker	实心胎 Solid tyre				
用户自选涂装 Customized painting	格拉默座椅 Grammer seat				









C SCRIES 2-3T INTERNAL-COMPUSTION TOUR TRACT



≫ 整车简介 General Introduction 合力G系列2~3t内燃牵引车是安徽合力股份有限公司最新研制的牵引车产品,是原有H2000系列内燃牵引车的升级换代。整车充分利用了本公司成熟的设计、制造技术,整机由车身系统(含配重)、动力系统、传动系统、变速操纵系统、行车制动系统、油门操纵系统、转向系统、电气系统、前/后悬挂、转向桥、驱动桥、牵引销机构、驾驶室等部分组成。

G series 2-3t internal-combustion tow tractor is a series of new product designed by HELL.It is the latest generation based on H2000 series. The whole tractor adequately adopts the mature design and manufacturing technology of our company. It's composed of bodywork system (including the rear counterweight), power system, transmission system, transmission control system, service brake control system, accelerator control system, steering system, electric system, front suspension ass'y, rear suspension ass'y, steering axle, drive axle, operation stick & pin component, cab and so on.



动力传动系统 Power and transmission system

选用高品质的发动机,整机排放要求符合国家最新环保要求。经过优化设计的传动系统与发动机的动力输出达到最佳匹配。传动系统有机械传动和液力传动两种。

机械变速箱采用三个前进档,一个倒档。I、II、III档之间有同步器,空档定在档位中心,具有良好的操作性能和合理的传动比。 液力变速箱传动比合理,前进和后退换档平稳无冲击,具有良好的散热和密封性能,舒适性好。智能自动技术的应用,实现"智能换档",避免因II档起步及误操作等造成离合器损坏或安全事故。

High quality engine is assembled on the tractor and the tractor meets national latest environment requirement. Superior devised transmission system matched with engine power output perfectly. There are two types of transmission model: mechanical transmission and hydraulic powered transmission.

The transmission box have three forward gears and one reverse gear, synchronizer among I,II and III gear and good operating performance is adopted. The neutral is fixed in the center of the gear position. The transmission ratio of the transmission box is reasonable.

Hydraulic tractor assembled with hydraulic powered transmission box with reasonable transmission ratio. The transmission box has smooth forward/reverse gear shifting, excellent cooling and sealing performance,good comfort. Application of intelligent automatic technology, the achievement of intelligent automatic gear shifting system, to avoid starting at the II gear or improper operation which may cause clutch damage or accident.

制动系统 Brake system

※两轮/四轮动力制动,应用无动力全行程有效制动技术,可靠性、安全性高,制动力小,保证在发动机坡道意外熄火的情况下,仍然可以实现5脚以上的制动。

For hydraulic power brake system act on two/four tyres, application of effective brake technology during total travel, ensures high reliability, high safety and small brake force, makes effective brake for five times after the engine is flame out on a slope.

转向系统 Steering system

合力自行研发的全液压横置油缸动力转向技术(其中转向油缸U形密封圈为进口件),刚性好,转向轻便、准确。该项技术解决了国内同类产品转向桥刚性不足,轮胎过早磨损、前桥早期报废等问题。

The tractor adopts HELI homemade fully hydraulic transverse cylinder powered steering technology(the U-ring of cylinder is imported part), has good rigidity, has easy and accurate steering and operating feeling,thus effectively avoids the problems such as steering axle rigidity insufficient,tyre early worn out and front axle early discarding in domestic similar products.









G SERIES 2-3T INTERNAL-COMBUSTION TOW TRACTOR

弹性悬挂装置 Suspension system

采用专业汽车配件生产厂家生产的前、后板弹簧悬挂装置。且前桥另装有筒式阻尼减震器,使得整机更加具有良好的平稳性。

The tractor adopt leaf spring suspension at front and rear axle which are made by professional auto parts manufacturers. Further more, the shock absorber is assembled on the front axle, which makes the tractor has favorable stability.

液压系统 Hydraulic system

合力自行研发的集成化稳流单齿轮泵技术(与同行业不同)。液压系统采用单齿轮泵,泵体集成单稳分流阀,其特点是齿轮泵流量近似恒流,系统简洁,油温低,性能可靠,故障点少,布置、维护、维修方便。液压系统工作密封可靠,无泄露,工作油液温度≤90℃。

The tractor assembled with integrated steady flow single gear pump designed by HELI(different from domestic similar products). The hydraulic system adopts single gear pump, the pump integrated monostable shunt valve, which is characterized by the gear pump flow is approximate to constant flow. The hydraulic system has excellent performance, for instance, simple, low oil temperature, reliable, few fault points, convenient maintenance. The hydraulic system sealing reliable, no leakage, the hydraulic oil temperature in pipeline \$90 C.

车身系统 Bodywork system

较小的车身长度、轴距提高了车辆灵活性。

最小离地间隙150mm,提高了车辆通过性。

机罩采用二次开启机构(与同行业不同),有效防止行车时因车辆颠簸或误操作发生机罩突然打开的现象,提高了行车安全性。

Small overall length and wheel base improve vehicle maneuverability.

Min. underground clearance is 150mm, improves vehicle trafficability.

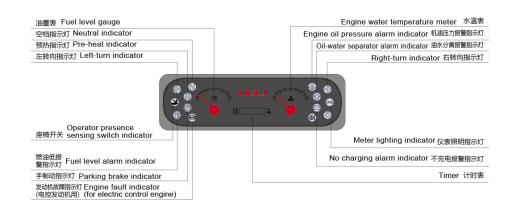
Hood opening mechanism need two steps to fully open (different from domestic similar products), effectively prevent hood suddenly open during travelling caused by vehicle bumps or improper operation, improves travelling safety.

操纵牵引销机构 Operation stick & pin component

采用可双点操作的带自锁及自动导引功能的操纵牵引销装置,驾驶室内、外均可实现拖车的脱、挂操作,操纵方便,效率高。自锁功能有效避免因误操作或行车颠簸导致拖车脱销的隐患,提高行车安全性。

The tractor adopts double point operation stick & pin component with self lock and automatic guide function Trailer hook on and off operation can be realized in or out of cab to improve operational convenient and working efficiency. Self lock function effectively avoids trailer hook suddenly off caused by vehicle jolt during travelling or mis-operation, improves travelling safety.

可靠的专业仪表 RELIABLE PROFESSIONAL INSTRUMENT



2-3 内燃牵引车获航空地面设备检测合格证 AVIATION GROUND EQUIPMENT INSPECTION CERTIFICATE WON BY 2-3t IC TRACTOR

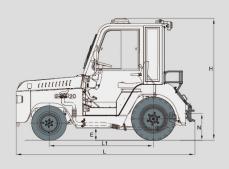


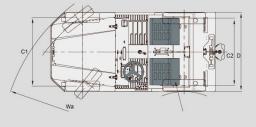














G SERIES 2-3T INTERNAL-COMBUSTION TOW TRACTOR





	女名称 ameter		单位Unit	QYC20- J1G	QYC25- J1G	QYCD20-	QYCD25- J1G	QYC20- J2G	QYCD20- J2G	QYCD25- J2G	QYCD20- YNG	QYCD25- YNG	QYQD20- RCG	QYQD25- RCG	QYYD20- RCG	QYYD25- RCG	QYQYD20- RCG	QYQYD25- RCG	QYC20- W1G	QYC25- W1G	QYCD20- W1G	QYCD25- W1G	QYCD20- CUG	QYCD25- CUG	QYCD3 CUG
最大	 	all	kN	20	25	20	25	20	20	25	20	25	20	25	20	25	20	25	20	25	20	25	20	25	30
Max.drawbar 空载最大行驶 Max.Travel s			km/h	30	30	30	30	27	26	20	28.5	28.5	24	21	24	21	24	21	25	25	24	24	25	25	19
	皮度(空载) ide ability (w	rithout load)	%		30																				
最小	转弯半径		mm											≤3	3250										
制动	加距离 (20)		m		≤5																				
整车	F质量(不含 al Weight(w	3驾驶室)	kg	3150	3650	3200	3700	3100	3150	3650	3260	3760	3420	3860	3420	3860	3420	3860	3110	3160	3160	3660	3160	3660	3660
桥负		前桥(不含驾驶室) Front(without cab)	kg	1000	1000	1020	1020	960	980	980	1050	1050	1170	1170	1170	1170	1170	1170	970	970	1000	1000	1000	1000	1000
Axle	e load	后桥(不含驾驶室) Rear(without cab)	kg	2150	2650	2180	2680	2140	2170	2670	2210	2710	2180	2680	2180	2680	2180	2680	2140	2640	2160	2660	2160	2660	2600
		型 号 Model			JX49	3ZG3		JX493G53			云内YN4BZ060- 31CR			NI	NISSAN K25发动机				五十铃GK-4JG2NKFC01				康明斯QSF2.8		
	发动机 Engine	缸径×冲程 Bore×stroke	mm	4-93×102			4-93×102						4-89×100				4-95.4×107				4-94×100				
Eng		额定功率/转速 Rated output	kW/rpm		64/3	3000		36.5/2500		44.1/2600		37.6/2400						36/	36/2450			36.5(43)/2500			
		最大扭矩/转速 Max. output	N·m/rpm		243/	1800		156/1800		200/1600-1950			176.5/1600					170/1700			186/1100-1500				
	由箱容积 el tank capad		L		6	5		65			65		6	5	3	35	65		65				65		
		长 Overall length	mm	3110	(包括牵引)	· with cou	pler) 3050 (包括牵引座 with coupler) 3110 (包括牵引座with coupler) 3050 (包括牵引座 with coupler)									ıpler)	3110(包括牵引座 with couple								
Exte	》尺寸 ernal	宽 Overall Width	mm											1	390										
dim	ensions	高(不含驾驶室) Overall height(without cab)	mm									1370)(无驾驶室,	方向盘处 v 2070(驾驶室	without cab 室顶部 with	,at steering cab)	y wheel),								
轴 Whe	距 eel base		mm											1	780										
松阳		前 轮 Front	mm											1	200										
Tre	Tread	后 轮 Rear	mm	1180																					
3 最小离地间隙 Min.underground clearance			mm		150																				
	座中心线層 ter height o		mm											450(可选	customized	i)									
	E/容量 tery (voltage	e/capacity)	V/Ah		6-QW-80 12V 80Ah																				
	か桥型号 /e axle			P62L3-0000 P62	01(配真空助力 L3-00011(配式	制动 Vacuum 加力制动 Powe	servo brake) 、 r brake)	P62L3-	P62L3-00011(配动力制动 Power brake)		P66L3-0001	11			-			P62L3-00011 (配动力制动 Power brake)			P66L3-00011				
变速		型号 Model		М	L320A	YYX	Z25H	ML320A	ML320A YYXZ25H		YYXZ25F	ł	YYY			YYXZ25H			CAS3-20 YYXZ25H			YYXZ25H			
Tran	nsmission e	变速型式 Type			器机械式 is mechanica	无级变速 Steple 变矩器 To	ss change speed or-con:YQB265	同步器机械式 Synchronous mechanical	,		无级变速 Stepless change speed 变矩器 Tor-con:YQB265								同步器机械式						
制动		行车制动 Service brake										全液	压两轮动力	制动 Hydr	aulic oil act	ts on the re	ar wheels								
Bra app	aratus	停车制动 Parking brake		机械制动。 Mechanic on the tran	作用于变速箱 al type acts smission box	机械制动, Mechanica on the re	作用于后轮 al type acts ear wheels	机械制动,作用于 变速和Mechanical type acts on the	Unckillable (中国)									anical type	e acts on the rear wheels						
	前轮 Front 轮胎	规格 Model				.,		T data in a sout box						6.50	-10-10PR										
#AP		气压 Air pressure	kPa												790										
轮胎 Tyre		规格 Model												7.00	-15-12PR										
	Rear =	气压 Air pressure	kPa	860																					