

R 70 Technical Data.

LP Gas Trucks R 70–35T R 70–40T R 70–45T



Achieve more.

In accordance with VDI guidelines 2198, this specification applies to the standard model only. Alternative tyres, mast types, ancillary equipment, etc. could result in different values.

	1 1	Mapufacturer					
	1.1				D TO OF T	D TO 40 T	
s	1.2	Manufacturer's model designation			R 70-35 I	R 70-40 I	R 70-45 I
stic	1.3	Power supply – electric, diesel, petrol, gas, mains electric			gas	gas	gas
teri	1.4	Type of control – hand, pedestrian, stand-on, rider seated			rider seated	rider seated	rider seated
arac	1.5	Carrying capacity / load	Q	kg	3500	4000	4500
Ch	1.6	Load centre	с	mm	500	500	500
	1.8	Load distance	x	mm	510	510	510
	1.9	Wheelbase	y	mm	2030	2030	2030
	2.1	Weight		kg	6160	6160	6540
	22	Axle loadings laden front		kg	8200	8950	9640
igh	221	Axle loadings laden rear		ka	1420	1220	1310
We	2.2.1			ka	2050	2050	2805
	2.0			∧g ka	2750	2750	2645
	2.3.1	Types where () our eveloptic (CE) provide the second secon		∧g	5210	5210	5045
	3.1	Tyres - rubber (V), superelastic (SE), prieumatic (L), polyurethane (PE)			L/ 3E		L/ SE
res	3.2				200-10/10 PR	200-10/10 PR	250-15/16 PR
ty	3.3	Tyre size – rear			250-15/18 PR	250-157 18 PR	250-15/18 PR
els	3.5	Wheels – number front (x = drive wheel)			2 x (4 x)	2x (4x)	2x (4x)
Whe	3.5.1	Wheels – number rear (x = drive wheel)			2	2	2
-	3.6	Track width – front	b10	mm	1150 (1336)	1150 (1336)	1150 (1336)
	3.7	Track width - rear	b11	mm	1120	1120	1120
	4.1	Tilt angle, mast / fork carriage forwards		degrees	6	6	6
	4.1.1	Tilt angle, mast / fork carriage backwards		degrees	12	12	12
	4.2	Closed height	h1	mm	2400	2400	2400
	4.3	Free lift	h ₂	mm	160	160	160
	4.4	Lift height	h₃	mm	3320	3320	3320
	4.5	Height, mast raised	h4	mm	4130	4130	4183
	4.7	Height to top of overhead guard (cabin)	h ₆	mm	2320	2320	2320
	4.8	Seat height	h ₇	mm	1196	1196	1196
	4.12	Coupling height	h10	mm	493	493	493
	4 19	Overall length	1	mm	4022	4022	4080
su	4.20	Length to front face of forks	10	mm	3022	3022	3080
nsio	4.20		h12	mm	1380 (1760)	1380 (1760)	1380 (1760)
mei	4.21			mm	50	50	50
D	4.22	Fork unickness	5		100	120	120
	4.22.1	FOIK WIDLI	e		1000	1000	1000
	4.22.2	Fork length		mm	1000	1000	1000
	4.23	Fork carriage to DIN 15173 – class / form A or B			ISO III B	ISO III B	ISO III B
	4.24	Fork carriage width	D3	mm	1310	1310	1310
	4.31	Ground clearance beneath mast, laden	m1	mm	120	120	120
	4.32	Ground clearance at centre of wheelbase	m ₂	mm	165	165	165
	4.33	Aisle width for pallets 1000 x 1200 wide	Ast	mm	4460	4460	4610
	4.34	Aisle width for pallets 800 x 1200 long	Ast	mm	4460	4460	4810
	4.35	Outer turning radius	Wa	mm	2750	2750	2900
	4.36	Inner turning radius	b13	mm			
	5.1	Speed laden		km/h	24	24	24
	5.1.1	Speed unladen		km/h	24	24	24
	5.2	Lift speed laden		m / s	0.43	0.41	0.4
	5.2.1	Lift speed unladen		m/s	0.43	0.41	0.4
	5.3	Lowering speed laden		m / s	0.5	0.5	0.53
ance	5.3.1	Lowering speed unladen		m/s	0.4	0.4	0.4
orm.	5.5	Rated drawbar pull laden		N	24000	24000	22600
erfo	5.5.1	Rated drawbar pull unladen		N	14900	14900	14900
4	5.7	Gradeability laden		%	25	24	22
	5.7.1	Gradeability unladen		%	27	26	26
	5.9	Acceleration time laden		s	5.4	5.5	5.7
	5.9.1	Acceleration time unladen		s	4.4	4.6	4.7
	5.10	Brakes			electr. / hvdr.	electr. / hvdr.	electr. / hvdr.
	7.1	Engine manufacturer			Perkins	Perkins	Perkins
	711	Туре			1004 40 S	1004 40 S	1004 40 S
	7.2	Engine rated power to ISO 1585		kW	51	51	51
Engine	7.3	Rated rpm		1 / min	2100	2100	2100
	7.4	No. of cylinders		1 / 11111	1	1	1
	7.4	Displacement		om ³	3000	3000	3000
	7.4.1			L/h	3770	3770	3770
her	7.5			1/11	Stilltropio	Stilltropio	Stilltropio
	0.1	Onerating pressure for attachments		hor	210	210	210
	0.2	Operating pressure for attachments		bar	210	210	210
Oth	0.3			i / min	7/	7/	7/
	0.4	Average horse peak at operator s ears		aR(A)	/0	/0	/0
	10.0	Trailer coupling, type / DIN	1	1	DIN	ו מוס	i Din

The models depicted in this brochure may contain special parts or attachments which are not supplied as standard.





Mast types in use with pneumatic or superelastic tyres.

					Telescopic		Full free lift (HiLo)			Triple	
	Width (single front wheel)		mm	1380			1380			1380	
	Width (twin front wheels)		mm	1769			1769			1769	
	Load distance		mm	510			510			537	
	Angle of tilt	α β	¢°	6 8*	6 8*	3 8*	6 8*	6 8*	3 8*	3	8*
R 70-35/40 T	Rated lift		mm	3220-3420	3520-4020	4120-5020	2370-3570 3670-4170 4270-4770		3330	3330-7530	
	Height, mast lowered		mm	2350-2450	2500-2750	2800-3250	1850-2450	2500-2750	2800-3050	1850	-3250
	Height, mast raised		mm	4030-4230	4330-4830	4930-5830	3280-4380	4480-4980	5080-5580	4155	-8355
	Free lift		mm	160			1070-1670	1720-1970 2020-2270		1070-2470	
	Overall length	12	mm	3022			3022			3049	
	Working aisle width Ast		mm	4460 / 4660			4460 / 4660			4487	/ 4687
	Pallet 1000 x 1200 wide 800 x 1200 long										
R 70-45 T	Rated lift		mm	3220-3420	3520-4020	4120-5020	2270-3470	3570-4070	4170-4470	3180	-7380
	Height, mast lowered		mm	1850-2450	2500-2750	2800-3250	1850-2450	2500-2750	2800-2950	1850	-3250
	Height, mast raised		mm	3083-4283	4383-4883	4983-5883	3080-4280	4380-4880	4980-5280	4005	-8205
	Free lift		mm	160		1070-1670	70 1720-1970 2020-2170		1070-2470		
	Overall length		mm	3080			3080			3107	
	Working aisle width Ast		mm	4610/4810			4610/4810			4637 / 4837	
	Pallet 1000 x 1200 wide 800 x 1200 long										

** with front screen 6° max. backward tilt ** with front screen up to 2550 mm closed height 6° max. backward tilt



Capacity Chart R 70-40 T Telescopic, HiLo, and Triple mast



Capacity Chart R 70-45 T Telescopic, HiLo, and Triple mast



Drive.

The generator coupled to the engine generates current and feeds the drive motor through an electronic speed and power regulator.

The drive has the following advantages:

- The truck constantly holds the speed set by the foot pedal regardless of gradient. This makes for safe driving and simplifies operation.
- The travel speed is controlled independently of the lift





Capacity Chart R 70-40 T Telescopic, HiLo, and Triple mast



Capacity Chart R 70-45 T Telescopic, HiLo, and Triple mast

Q

capacity in kg



speed. Therefore fast hoisting and slow driving (inching) can take place at the same time without special equipment. This is completely free of wear, saves on operating costs and simplifies operation.

 Wear free braking is achieved through the drive system: both to a standstill and then holding the truck in position.
Even on a gradient, the R 70 will remain stationary until the drive pedal is depressed – holding it with the brake pedal is not necessary. This simplified operation takes the pressure off the driver when positioning the forks or the load.

R 70 Technical Data.

- The driver can electronically adjust the performance characteristics at any time to suit the job in hand. Thus, he can adapt his truck to all working conditions and thereby achieve maximum productivity.
- The R 70 enjoys the high reliability, long life and low maintenance costs of an electric drive.

Cruise Control (Tempomat):

Optionally, the STILL R 70 can be supplied with Cruise Control. For travel speeds of 6 kph and above, by pressing a key on the control console, the truck will maintain a constant driving speed. For travel distances of 20 metres and above, the Cruise Control offers enormous advantages. The truck runs more smoothly and quietly and the travelling comfort for the driver is improved.

Economy:

Diesel-electric drives are particularly economical for many reasons.

 The fuel usage is minimised even with the engine working in partial load ranges. This gives the optimum fuel consumption, particularly in the typical short work cycle applications (start, accelerate, reverse, brake, stop).

Electrics.

The digital electrical system allows simple adaptation to altered operating conditions. The exchange of information between electrical assemblies, e.g. between the drive controller and the cockpit, is achieved using the CAN bus system already used successfully in other types of vehicle. The number of cables and plug connectors is reduced in comparison to the previous system and thus reliability is increased. In addition, it is easy to implement variants to the electrical equipment.

Driver's compartment.

Constant research and development have decisively improved the driver's compartment in the R 70:

- The cockpit has an LCD display and a facility for the driver to select from a range of pre-set drive performance levels.
 He can select the most suitable acceleration or braking and travel speeds from 5 pre-set options. Further adjustments of the drive parameters to suit the application conditions can be made by simply altering the software.
- Automotive style pedal arrangement*, no driver learning curve.
- Roomy footwell with inclined floor plate and non-slip rubber matting.
- Automotive style handbrake to the right of the driver's seat.
- Drive and braking regulated by the drive pedal position make it simple and easy for the driver.
- Adjustable steering column plus reach and rake adjustment for the seat provide an extremely comfortable working position for any physique.
- The driver is protected from vibrations which could cause injury by the
 - resiliently mounted drive unit
 - rubber mounting for driver's compartment
 - hydraulically damped seat, adjustable to the driver's weight.



Driver's compartment.

Mast.

STILL clear view masts in telescopic, HiLo and triplex designs for every application:

- Telescopic: Suitable for most applications. Economical mast design. The hoist chains are run in protective guide rails. This prevents noise and increases chain life.
- HiLo: For high stacking under low ceilings. Utilises the space right up to the roof.
- Triplex: For applications with low doorways and greater stacking heights.

Nested I-beam mast sections with integral hoist cylinders and in-line rear mounted lift chains give the best clear visibility. Attachment hoses do not obstruct the driver's vision and with no hose reels, are virtually wear-free in operation.

Overhead guard.

The overhead guard is available in different designs so that the R 70 can be adapted to a wide range of applications and driver requirements.

Safety.

The STILL clear view mast and good all round visibility ensure the highest possible safety levels. The new R 70 complies with all applicable EC safety requirements and regulations. It thus carries the "CE" symbol.

* available with twin pedal control if required



For further information on the R 70 please visit: www.still.de/R70

STILL GmbH Berzeliusstrasse 10 D-22113 Hamburg Telephone: +49 (0)40 / 73 39-0 Telefax: +49 (0)40 / 73 39-16 22 info@still.de www.still.de

Achieve more.