

# Operation Manual

## Hydraulic Car Jack 12 t

61974, 61975

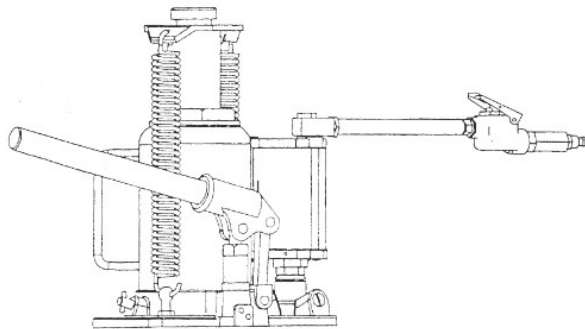


Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.



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## Introduction

Thank you for purchasing this quality product. **To minimize the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

## Introduction

For your safety and the safety of others around you, read these instructions carefully before attempting to assemble, service or use the jack. Regard all safety information and warnings. Always wear safety glasses when operating this product. Failure to comply with the information stated could result in severe, even fatal injury and/or property damage.

## Product Description

Hydraulic jacks are designed for lifting, but not sustaining loads ranging from to 12–20 t depending on the rated capacity of the jack. They can be used vertically or angled up to 5 degrees from the vertical position. After lifting, the loads must immediately be supported by appropriate means. Each model is suitable for use in an appropriately rated and designed vertical or bench press structure. These jacks are not recommended for use in lifting or positioning houses and/or building structures. These jacks comply with applicable standards. For air actuated use, ensure an air supply.

Model	Lifting capacity (t)	Base size (L×W)	Min. height (mm)	Lifting height (mm)	Regulating height (mm)	Air pressure range (MPa)	Net weight (kg)
QYL12	12	197×118	250	165	80	0.8-1.2	11.75
QYL20	20	223×133	260	170	80	0.8-1.2	14.82
QYL20D	20	223×133	220	130	80	0.8-1.2	15
QYL22	22	220×168	225 + 25	130	80	0.8-1.2	36
QYL32	32	226×150	250 + 25	160	—	0.8-1.2	21
QYL50	50	240×180	270 + 25	160	—	0.8-1.2	34

## Before Use

- Verify that the product and the application are compatible. Contact the manufacturer or an authorised service partner.
- Before using this product, read the operating manual completely and familiarise yourself with the product thoroughly and the hazards associated with its improper use.
- Open the release valve (not more than 2 full turns counter-clockwise).
- With the ram fully retracted, locate and remove the oil filler plug. Insert the handle into the hand sleeve, then pump 6–8 strokes. This will help release any pressurised air which may be



trapped within the reservoir. Ensure the oil level is just below the oil filler plug hole. Re-install the oil filler plug.

- Pour a teaspoon of good quality air tool lubricant into the air supply inlet of the lift control valve (see ill.). Connect to air supply and operate 3 s to evenly distribute the lubricant.
- Check to ensure that the jack rolls freely (if equipped with) and that the pump operates smoothly before putting it into service. Replace worn or damaged parts and assemblies with original spare parts from the manufacturer.
- This product is fitted for the common 1/4" NPT pressurised air plug nipple. When installing the 1/4" NPT nipple of your choice, ensure that thread tape or compound is used when servicing connections.
- Inspect before each use. Do not use if components are bent, broken or cracked. Broken parts must be repaired before the jack is taken into action again.

## Operation

### Lifting

- Assemble the two-piece handle and ensure that spring clips align with slots.
- Secure the load to prevent inadvertent shifting and movement.
- Position the jack near desired lifting point.
- Close the release valve by turning it clockwise until it is firmly closed.

**Caution:** Use the handle provided with this product or an authorized replacement handle to ensure proper release valve operation. Do not use an extender on the air hose nor the operating handle when using to lift vehicles. Lift only on the manufacturer's recommended lift point and in accordance with the published guidelines in your vehicle owner's manual. Always use the jack stands to support the load.

- Hold the handle safely at the end. Pump the handle or press the hoist control valve together until the load touches the ram. To stop the air operation, simply remove the handle of the hoist control valve. **Never** activate/deactivate the hoist control valve in a different way than by hand.
- Raise load to desired height, then immediately transfer the load to appropriately-rated support devices such as jack stands.

**Caution:** This is a lifting device only. It is designed to lift a part of the total vehicle (one wheel or axis). Always wear safety glasses when using this equipment. Center the load on the ram before lifting it. Never work on, under or around load until it is properly supported. Transfer the load immediately to appropriately rated jack stands.

**Do not use this product for any purpose other than that for which it was intended.** It is the owner's responsibility to keep labels and instructional material legible and available. Replacement labels and manuals are available from the manufacturer. Failure to heed these and all other warnings pertaining to this product can result in sudden loss of lifted load resulting in death, personal injury and/ or property damage.



## Lowering

- Raise the load enough to carefully remove the jack stands.
- Insert handle onto release valve and slowly turn the handle counter-clockwise, but not more than half a turn. If load fails to lower, carefully transfer the load to another lifting device and jack stands. Carefully remove the affected jack, then the jack stands. Lower the load again by slowly turning the release valve no more than half a turn.

**Caution:** Be sure all tools and personnel are clear before lowering the load. Dangerous dynamic shock loads are created by quickly opening and closing the release valve while the load is being lowered. The resulting overload may cause **hydraulic system failure which could cause severe personal injury and/ or property damage.**

- After removing the jack from under the load, push the ram and handle sleeve down to reduce exposure to rust and contamination.

## Maintenance

**Important:** Use only a good grade hydraulic oil. Avoid mixing different types of fluid and **never** use brake fluid, turbine oil, transmission fluid, motor oil or glycerine.

## Adding oil

- With the ram saddle fully lowered and pump piston fully depressed, set jack in its upright level position and remove the oil filler plug.
- Fill until oil is level with the filler plug hole and reinstall the oil filler plug

## Changing oil

- For best performance and longest life, replace the complete fluid supply at least once a year.
- With the ram saddle fully lowered and pump piston fully depressed remove the oil filler plug.
- Lay the jack on its side and drain the fluid into a suitable container.  
**Note:** Dispose hydraulic fluid environmentally friendly in accordance with local regulations.
- Refill with good quality jack oil. Reinstall oil filler plug. We recommend MOBIL DTE 13 or equivalent.

## Lubrication

- A coating of light lubricating oil to pivot points, axles and hinges will help prevent rust and assure that wheels, casters and pump assemblies move freely.
- Periodically check the pump piston and ram for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

**Caution: Never** use sandpaper or abrasive material on these surfaces.

- When not in use, store the jack with pump piston and ram fully retracted.



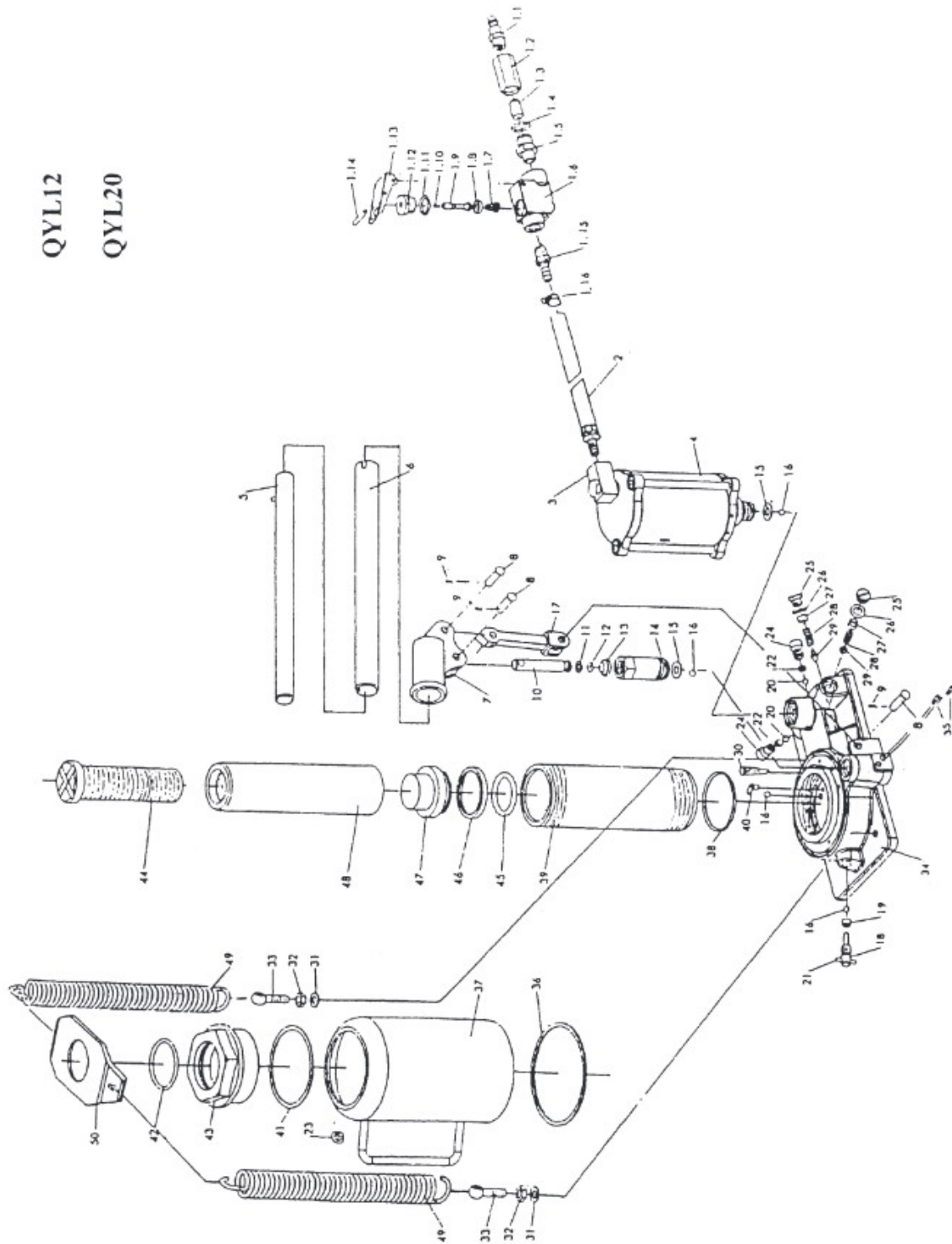


## Troubleshooting

Problem	Possible Causes	Solution
Jack will not lift load	<ul style="list-style-type: none"> <li>• Release valve not closed tightly</li> <li>• Overload condition</li> <li>• Air supply inadequate</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure release valve is tightly closed</li> <li>• Remedy overload condition</li> <li>• Ensure adequate air supply</li> </ul>
Jack bleeds off after lift	<ul style="list-style-type: none"> <li>• Release valve not closed tightly</li> <li>• Overload condition</li> <li>• Hydraulic unit malfunction</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure release valve is tightly closed</li> <li>• Remedy overload condition</li> <li>• Contact manufacturer or service partner</li> </ul>
Jack will not lower after unloading	<ul style="list-style-type: none"> <li>• Reservoir overfilled</li> <li>• Linkages binding</li> </ul>	<ul style="list-style-type: none"> <li>• Drain fluid to proper level</li> <li>• Clean and lubricate moving parts</li> </ul>
Poor lift performance	<ul style="list-style-type: none"> <li>• Fluid level low</li> <li>• Air trapped in system</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure proper fluid level</li> <li>• With ram fully retracted, remove oil filler plug to let pressurized air escape; reinstall oil filler plug</li> </ul>
Will not lift to full extension	<ul style="list-style-type: none"> <li>• Fluid level low</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure proper fluid level</li> </ul>

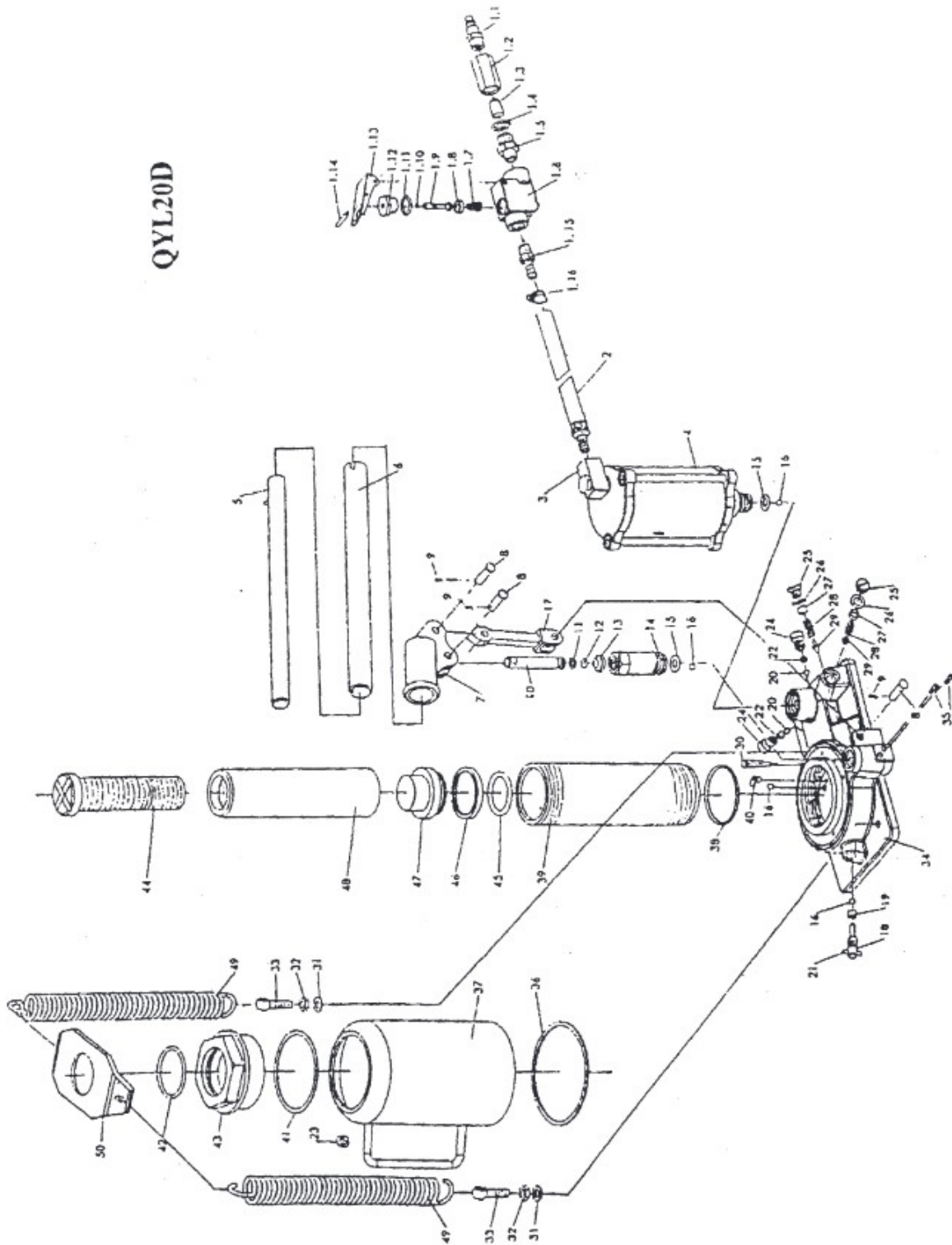
# Exploded view

QYL12  
QYL20





QYL20D



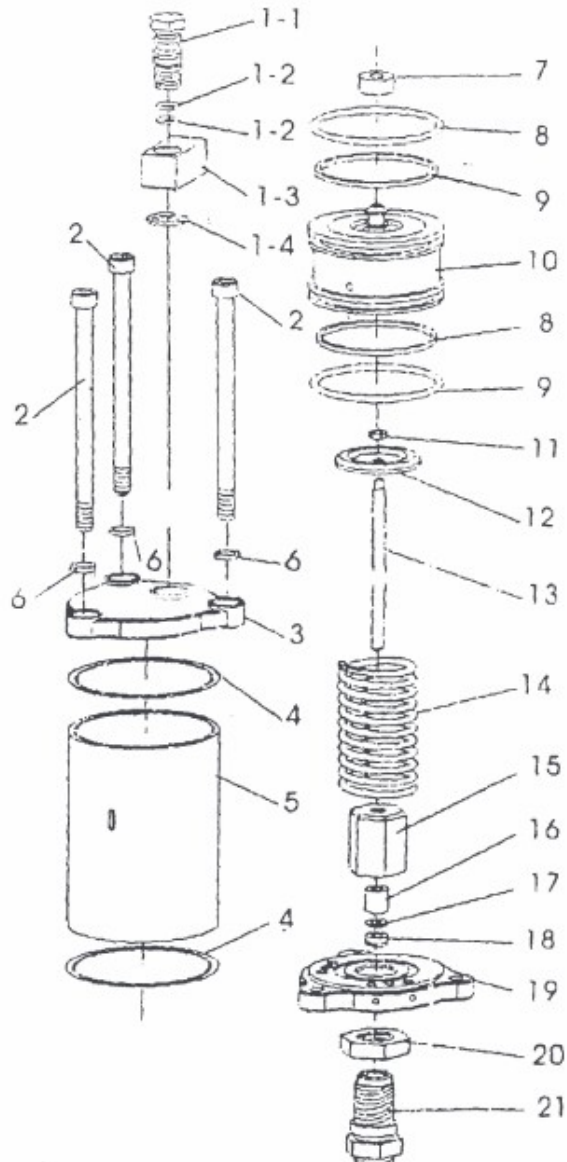
## Parts list

№	Description	Quantity		№	Description	Quantity	
		QYL12D QYL20D	QYL20W			QYL12D QYL20D	QYL20W
1.1	Hose connector	1	1	19	Release valve seal	1	1
1.2	Connecting nut	1	1	20	Steel ball 6.35	1	1
1.3	Air filter	1	1	21	Pin	1	1
1.4	O-ring 18×2.4	1	1	22	Valve spring	2	2
1.5	Connector	1	1	23	Filler plug	1	1
1.6	Valve body	1	1	24	Screw	2	2
1.7	Spring	1	1	25	Plug screw	1	2
1.8	Packing	1	1	26	Plug washer	1	2
1.9	Throttle	1	1	27	Overload valve screw	1	2
1.10	O-ring 3×1.6	1	1	28	Safety valve spring	1	2
1.11	O-ring 18×2.4	1	1	29	Overload tapering valve	1	2
1.12	Nut	1	1	30	Filter net	2	2
1.13	Lever	1	1	31	Spring washer 8	2	2
1.14	Lever rin	1	1	32	Nut 8	2	2
1.15	Hose connector	1	1	33	Bolt M8×35	2	2
1.16	Hose band	2	2	34	Basis	1	1
2	Air hose	1	1	35	Plug screw	4	4
3	Connector	1	1	36	Cylinder bottom seal	1	1
4	Air pump	1	1	37	Reservoir	1	1
5	Upper handle	1	1	38	Packing	1	1
6	Lower handle	1	1	39	Cylinder	1	1
7	Plunger	1	1	40	Steel ball retainer	2	2
8	Shaft pin	3	3	41	Cylinder top seal	1	1
9	Cotter pin	3	3	42	O-ring	1	1
10	Pump plunger	1	1	43	Top nut	1	1
11	Pump plunger retainer	1	1	44	Extension screw	1	1
12	O-ring	1	1	45	O-ring	1	1
13	Dust proof ring	1	1	46	O-ring returner	1	1
14	Pump reservoir	1	1	47	Ram header	1	1
15	Copper washer	1	1	48	Ram	1	1
16	Steel ball 6	6	6	49	Spring	2	2
17	Plunger connecting rod	1	1	50	Spring plate	2	2
18	Release valve screw	1	1				

## Air motor

### Exploded view and parts list

No	Description	Qty
1.1	Tube connector	1
1.2	O-ring	2
1.3	Removable Base	1
1.4	Split Washer	1
2	Hex socket screw	3
3	Cover	1
4	Washer	2
5	Air pump body	1
6	Spring washer	3
7	Seal	2
8	O-ring 63.5×3.55	2
9	Square ring	1
10	Piston	1
11	Nut M5	1
12	Block	1
13	Plunger	1
14	Spring	1
15	Nut	1
16	Packing guide	1
17	NL retainer	1
18	Y-seal	1
19	Cover	1
20	Adjusting nut	1
21	Plunger cover	1



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## EG-Konformitätserklärung

Declaration of Conformity / Déclaration de Conformité

(gemäß den Richtlinien 2006/42/EC Maschinenrichtlinie)

Reference Nummer: No. CE-C-02026-15-18-01-2A

Firma / Company / Société	WilTec Wildanger Technik GmbH Königsbenden 12 52249 Eschweiler, Deutschland
erklärt, dass das Produkt:	Stempelwagenheber
Type:	61974, QYLQ12T bis 12000kg 61975, QYLQ20T bis 20000kg
Verwendungszweck:	Anheben von Lasten

mit den folgenden EG-Rats-Richtlinien übereinstimmt:  
This appliance is in conformity with the following European directives:  
Cet appareil est conforme aux directives européennes :

### 2006/42/EC

Es ist nach folgenden harmonisierten Normen geprüft worden:  
It has been tested with the following harmonised standards:  
Il a été testé à partir des normes harmonisées suivantes :

EN 1494::2000+A1::2008,

Bevollmächtigter für die Zusammenstellung der technischen Unterlagen:

Bernd Wildanger, Geschäftsführer WilTec Wildanger Technik GmbH  
Königsbenden 12  
52249 Eschweiler  
Deutschland

Eschweiler, 10. März 2015



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*Bernd Wildanger*  
Geschäftsführer