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**Lifting Jack Installation – HD-I**  
**Hyundai – Rotem USA**  
**Carrying capacity 4 x 15 t (50 000 967)**  
**Operation/Maintenance manual**  
**Year: 2008 Rev.: 2; Page 7**



## 6. Technical Data

### 6.1 Lifting jacks

Carrying capacity of each lifting jack	15 t / 33069 lbs	
Carrying capacity of the entire lifting jack installation	60 t / 132276 lbs	
Number of lifting jacks of the installation	4 pcs	
Lowest position of load support	400 mm / 15,75 inch	
Vertical stroke	2000 mm / 78,75 inch	
Upper position of load support	2400 mm / 94,5 inch	
Lifting speed / Lowering speed	350 mm/min / 13,8 inch/min	
Load arm	<input type="checkbox"/> fixed	<input checked="" type="checkbox"/> adjustable
Max. load cycle under nominal load	22.000	
Lifetime (assumption) 4 load cycles per day and 200 working days per year	27,5 years	
Max. sound level	<75 dB(A)	
Weight of each lifting jack	~ 1.720 kg / 3792 lbs	
Driving gear	<input type="checkbox"/> fixed	<input checked="" type="checkbox"/> movable
	<input checked="" type="checkbox"/> manual	<input type="checkbox"/> electrical
	<input type="checkbox"/> rail-bound	<input checked="" type="checkbox"/> moveable on concrete floor
max. surface pressure (with nominal load)	$p_{max} = 0,74 \text{ N/mm}^2$	
max. permitted surface pressure of concrete B 25 DIN 1045:1988 <=> C20/25 DIN EN 206-1:2001 / DIN 1045-2:2001	$p_{max \text{ zul}} = 7 \text{ N/mm}^2$	

### 6.2 Control system

Cable length of power supply with plug CEE 63A-6h to control panel	10 m			
Cable length from Control panel to terminal box of lifting jack	J1	J2	J3	J4
	15m	25m	15m	25m
	590 inch	984 inch	590 inch	984 inch
Intermittent duty	S2-25 min			
Max. switching frequency	10 c/h			
Duty cycle, related to 1 hour	30 %			
Power output of each lifting jack	3,6 kW			
Connected load	14,4 kW			
Voltage	480 V			
Frequency	60 Hz			
Control voltage	24 V			
Type of protection	IP 55			
Automatic synchronisation	not available			
Synchronisation monitoring tolerance	$\pm 10 \text{ mm} / \pm 0,4 \text{ inch}$			
Control panel	<input type="checkbox"/> fixed on Jack 1	<input checked="" type="checkbox"/> moveable		
Power supply to control panel	<input checked="" type="checkbox"/> Plug connection	<input type="checkbox"/> stationary wired		
electrical connection at lifting jack	<input type="checkbox"/> Plug connection	<input checked="" type="checkbox"/> stationary wired		