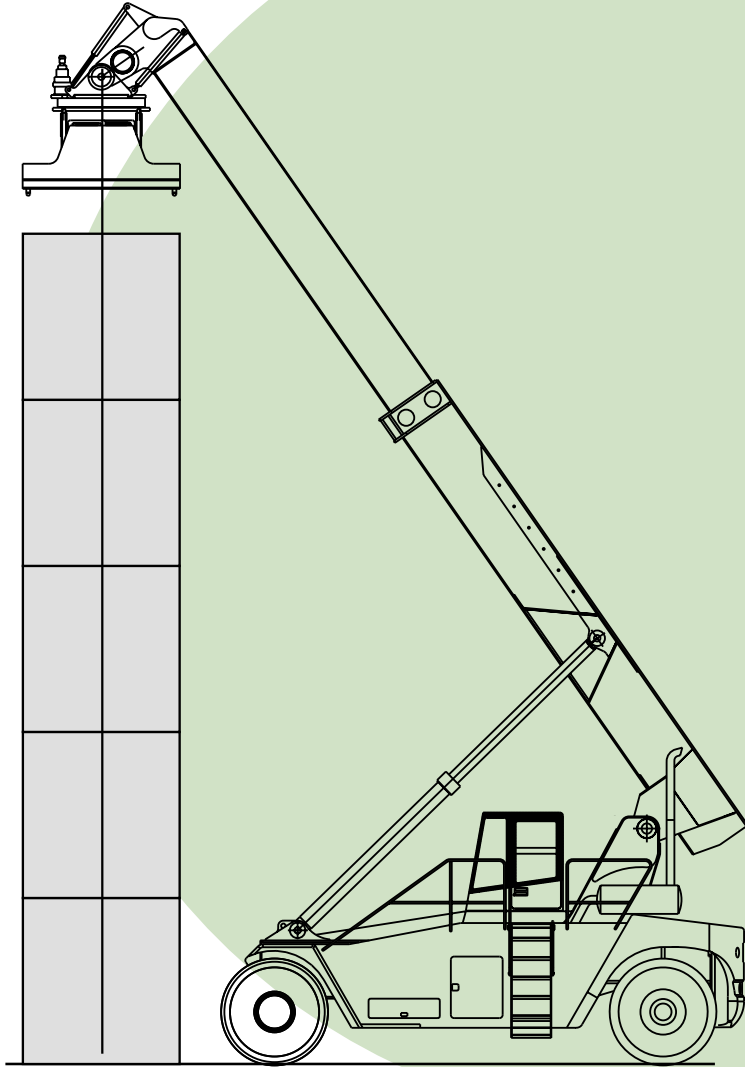




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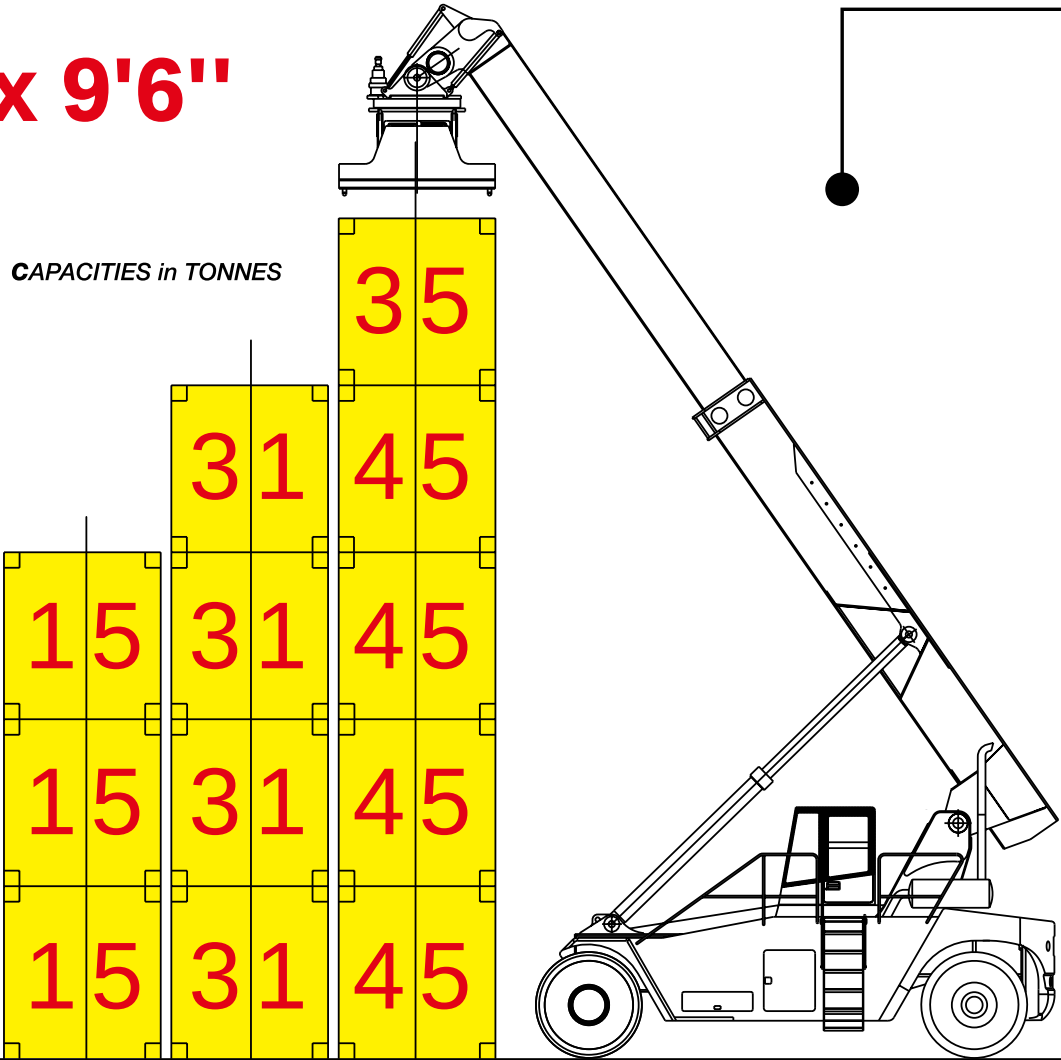
- Loaded Container
Handling Reachstacker

Product Presentation



5 x 9'6"

CAPACITIES in TONNES



Capacity

All capacities at 75% DIN H₂ B₄

	CAPACITY	LIFTING ABILITY
1st ROW	45 TON	5 x 9'6"
2nd ROW	31 TON (40' Full Capacity)	4 x 9'6"

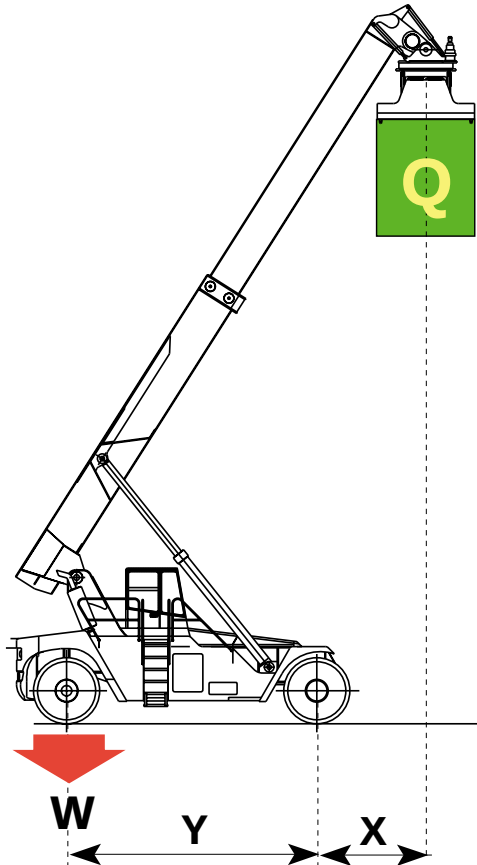
STABILITY FACTOR

$$\frac{\text{Truck Moment}}{\text{Overtipping Moment}} = \frac{W \times Y}{Q \times X} = \frac{32000 \times 6000}{45000 \times 1450}$$

= **2,94**

Longitudinal Stability Stacking Configuration

= **2,94**

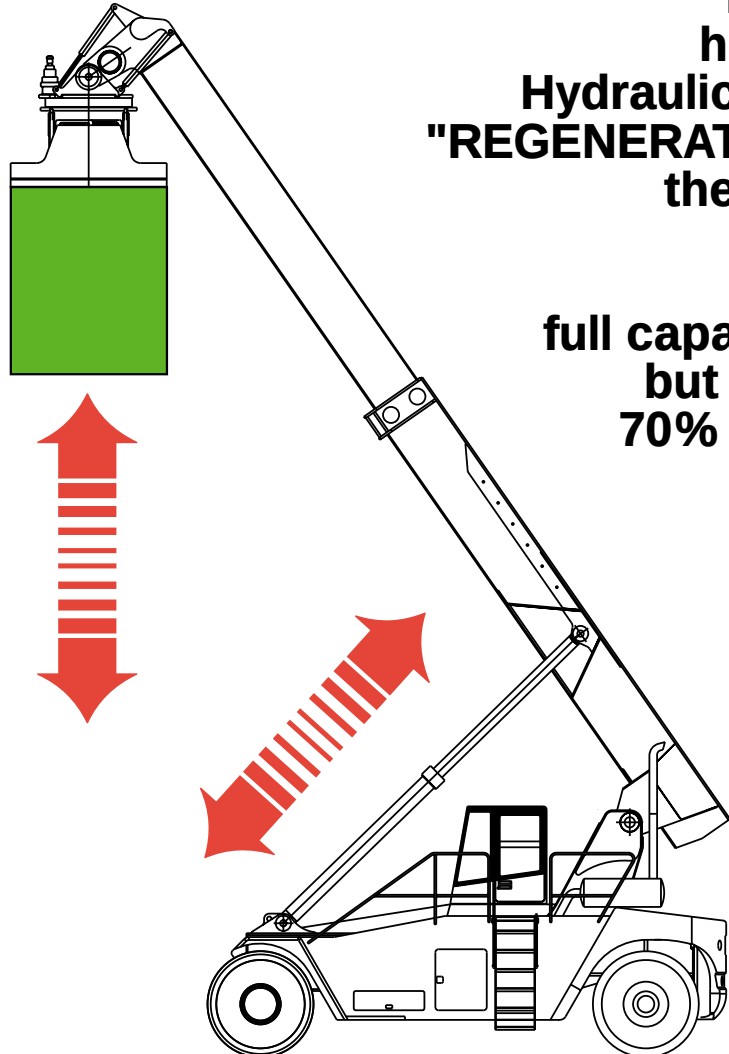


Q	Load	45000 Kg
W	Steer Axle Weight Unladen	32000 Kg
X	Load Centre Distance (2 high and above)	1450 mm
Y	Wheelbase	6000 mm

Lifting Speeds

Thanks to the
high efficiency
Hydraulic System with
"REGENERATIVE DEVICE"
the lifting speed
is extremely
high both at
full capacity (45 TON)
but 'especially at
70% of Max Load,
meaning:

● 31 TON = Full 40' Container Load



	EMPTY	70% LOAD (31 TON)	LOADED (45 TON)
Lifting Speed	0,38 m/sec	0,32 m/sec	0,24 m/sec



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- Loaded Container Handling Reachstackers

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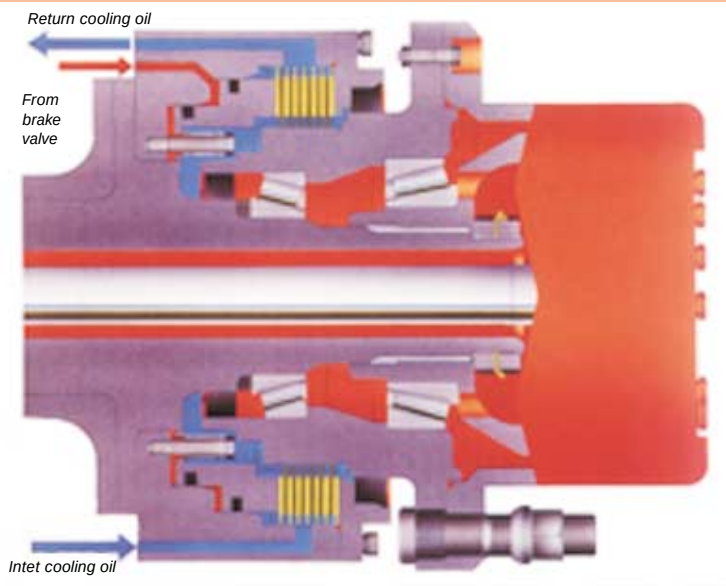


CONTstacker
F O R M U L A 2
R A N G E 2



LIFTRUCKS

Wet Disc Brakes



- All machines supplied by FANTUZZI today are fitted with Wet Disc Brakes as standard.
- Wet Disc Brakes put an end to timeconsuming and expensive repair. Exhaustive tests show that these brakes give full braking effort without any fading even when working under extreme conditions.
- Brakes are an essential component in machines used for trasport and load handling.
When the new asbestos-free brake lining materials were put into service, problems also arose concerning the brakes fitted on machines used for really tough handling operations.
This was also the reason why FANTUZZI started to use Wet Disc Brakes.
- Because the system is entirely free from any wear, no brake adjustment is required and there is only a minimun need for service and maintenance. It is easy to understand what this implies: lower maintenance costs and extra productivity. Your truck can be used when other trucks fitted with more conventional types of braking system are taken out of service for brake repair and service.



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• Loaded Container
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LIFTRUCKS

- **VOLVO
TWD 1031 VE**

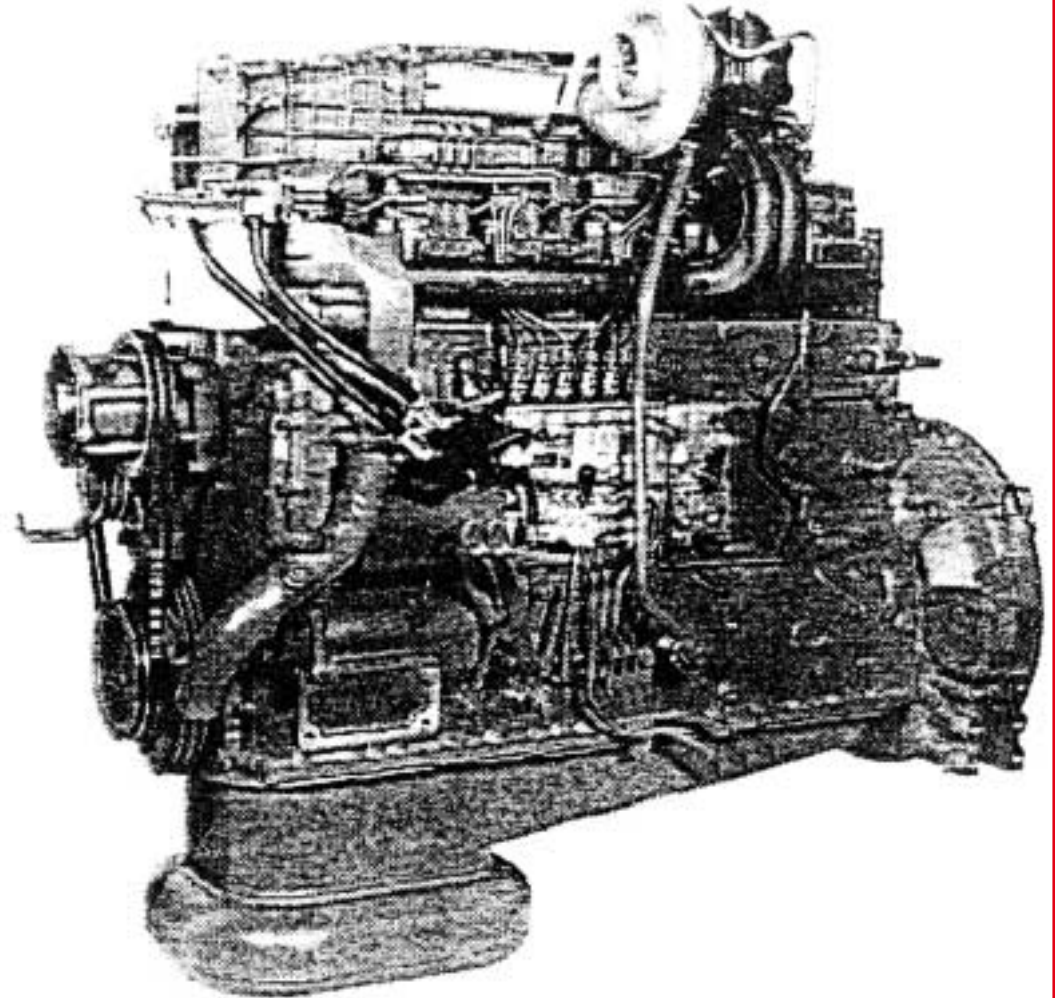
- **Engine**

Max Power

Output:

320 HP

at 2100 RPM





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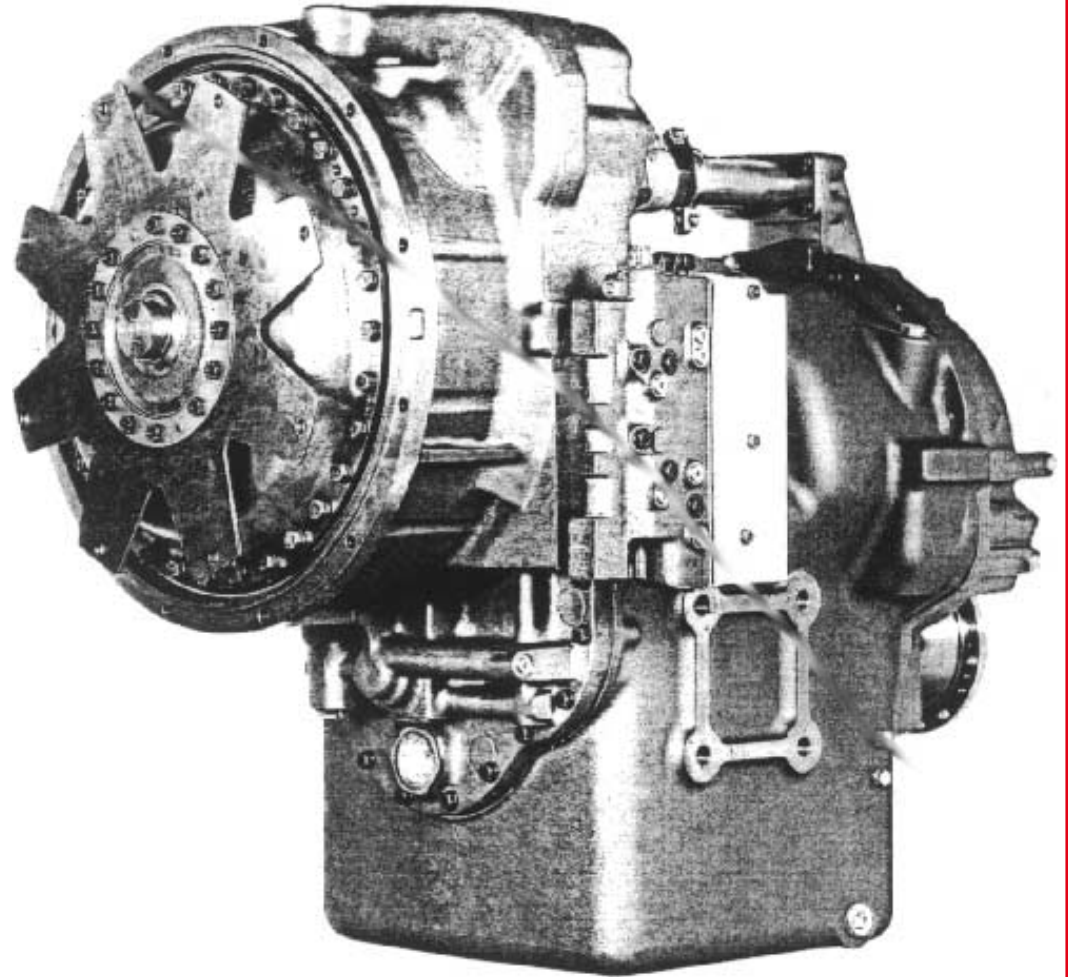
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LIFTRUCKS

• Clark 36000

• Transmission

- Last generation
- Fully automatic



CAT[®]

ENGINE + TRANSMISSION = POWERTRAIN

**HIGH CONTINUOUS
PoPOWER OUTPUT AT LOWER RPM**

- Low fuel consumption
- Low smoke and noise emissions

OPTION

**Unique
Features**

**MULTI-CLUTCH PACK
(one pack for every gear)**

- Incredible Gearshift smoothness
- Ability to insert gears at right RPM

**MECHANICAL COUPLING
IN OIL BATH (with circulation system)**

- No Shock on transmission
- "Built to last" Design

CATERPILLAR[®]

**Engine
Transmission**

**Maximum Parts
and Service Availability**

Worldwide

+ 3 Years Full Warranty



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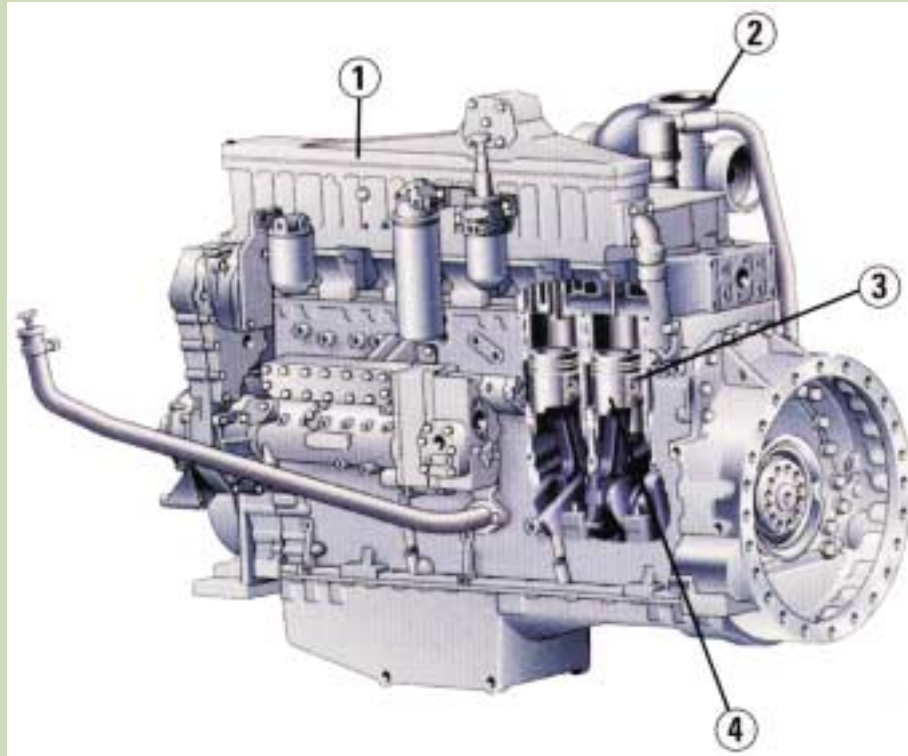


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F O R M U L A 2
R A N G E 2



CATERPILLAR

DIT(A) 3306 B ENGINE OPTION



The six cylinder, turbocharged and aftercooled 3306 DIT (A) engine is one of the most developed and proven engines offered by Caterpillar. It has a strong reputation for reliability, durability and performance. Thanks to redesigned pistons, cylinder head, turbo and aftercooler it is now cleaner running too.

The 3306 DIT (A) delivers a **full-rated net power** up to 224 kW (300 hp). high torque rise delivers performance you can feel. The results is more rimpull, greater lift force and faster cycle times.

The four-stroke engine delivers fuel economy durability and reliability in the most demanding conditions. Improved intake and combustion chamber designs help **meet emission standards** up to 2001.

Resilient engine mounts dampen vibration for lower sounds levels.

- | | |
|---|--------------------|
| 1 | Aftercooler |
| 2 | Turbocharger |
| 3 | Cylinder liners |
| 4 | Oil-cooled pistons |



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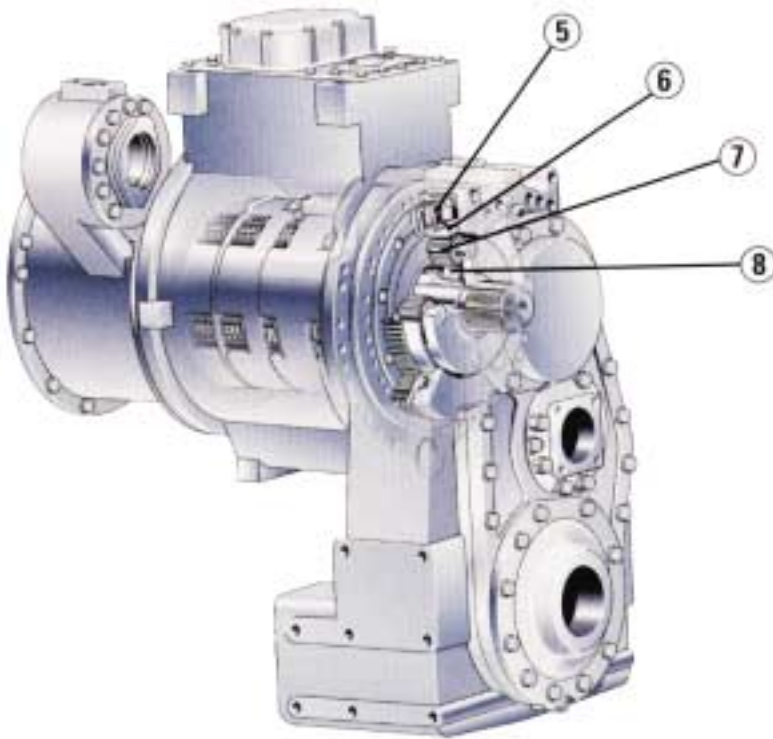


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F O R M U L A 2
R A N G E 2



CATERPILLAR

970F TRANSMISSION OPTION



- The Caterpillar planetary, power shift transmission features heavy duty components to handle the toughest jobs. Electronic controls provide features to enhance productivity, durability and serviceability.
- A heavy duty transmission with 432 mm (17) extreme service four planet drive in first gear and 345 mm (13.6) heavy duty four planet drives in 2-4 gears, is now standard. The torque converter uses a high-capacity impeller to handle the engine's increased power.
- The flywheel interface uses a long spline oil dam, and the pump drive and output transfer use high contact gear ratios to reduce sound levels. **Perimeter-mounted, large diameter clutch packs control inertia for smooth shifting and increased component life.**
- **Electronic Autoshift transmission** increases operator efficiencies and optimize machine performance. The operator can choose between manual or autoshift modes. And, by using the left brake pedal, the operator can engage the adjustable neutralizer, maintaining high engine RPM for full hydraulic flow.

5

Clutch Packs

6

Ring Gear

7

Planet

8

Sun Gear



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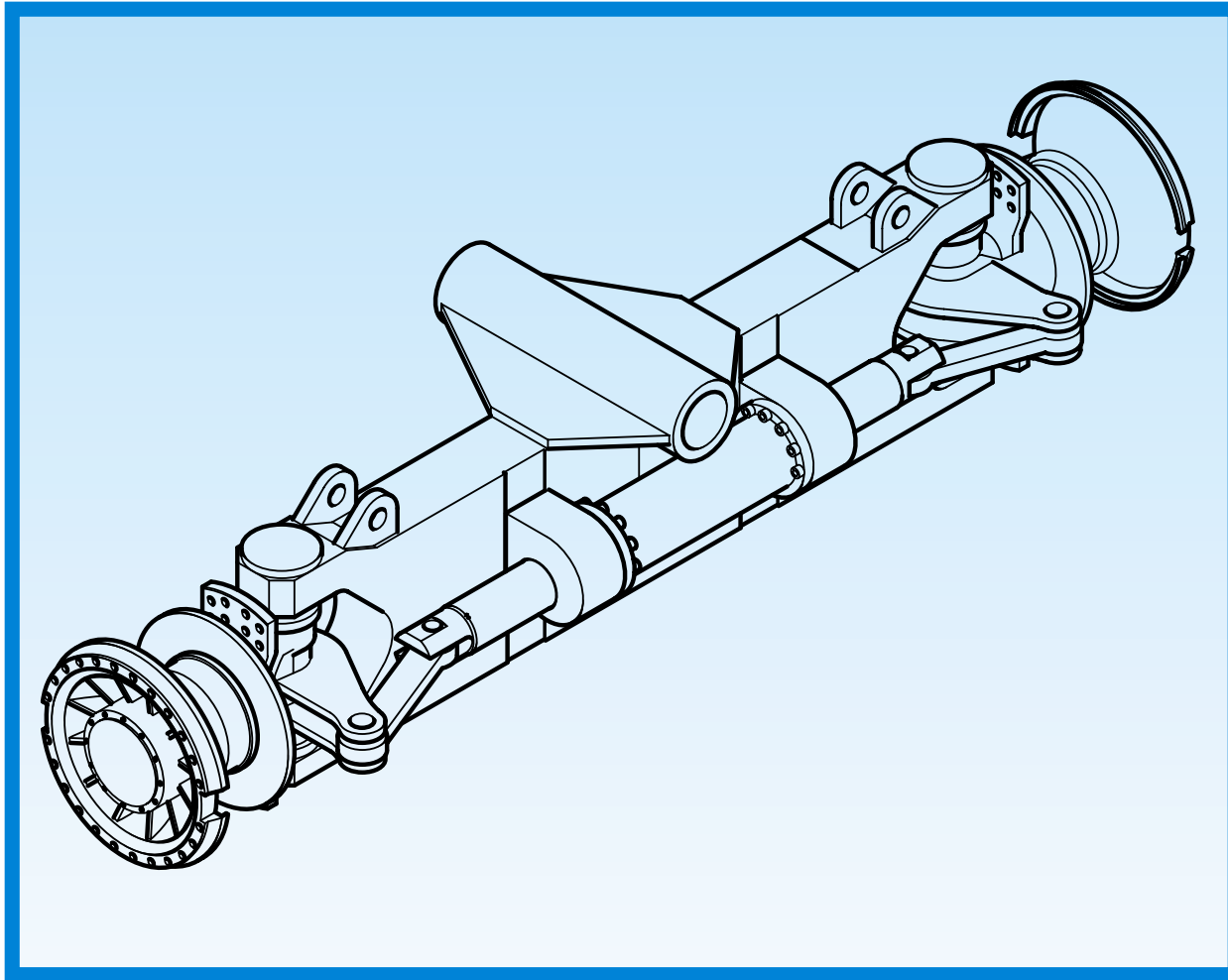
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F O R M U L A 2
R A N G E 2

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LIFTRUCKS



- Heavy Duty Steer Axle
- Oscillating
- Mano-bar Structure
- Single Cylinder Equalizer
- ACKERMANN Steering Geometry
- Fully Greasable in every joint
- King Size Knuckles
- Disc Brakes Equipment



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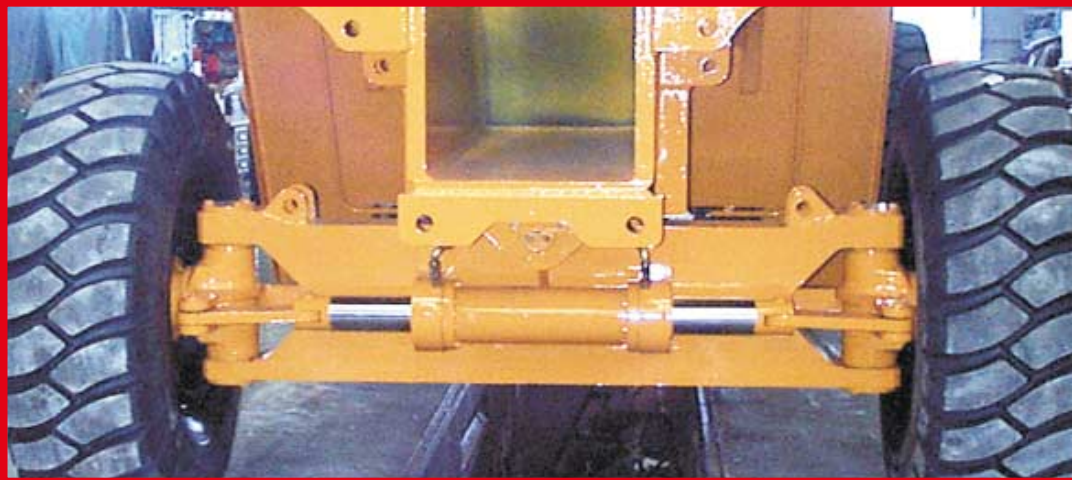
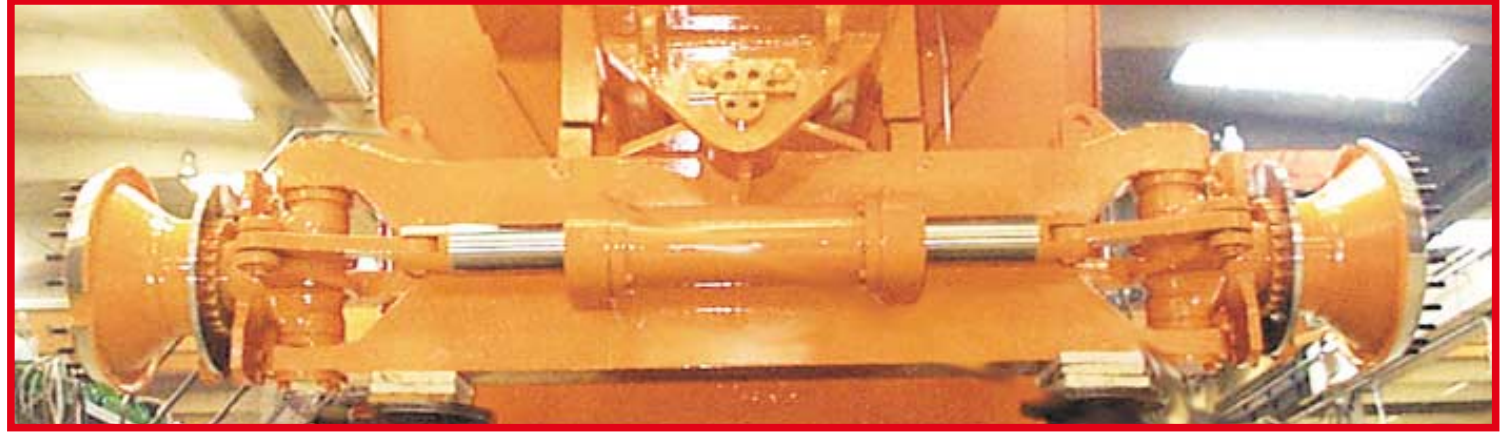


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LIFTRUCKS

• Steering Axle

- Oscillating Heavy Duty Structure



- Double Acting Single Steering Cylinder & Dry Disc Brake on Rear Wheels



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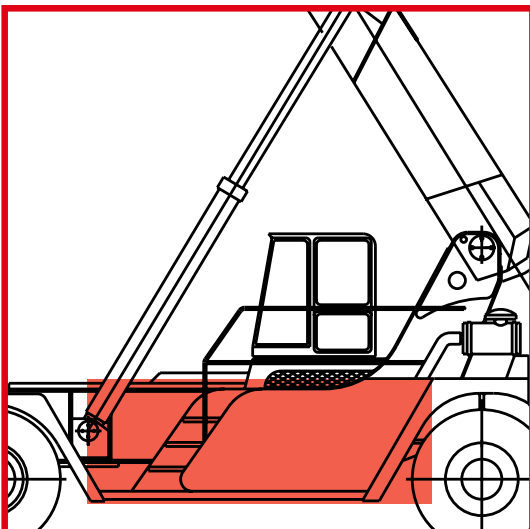


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F O R M U L A 2
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LIFTRUCKS

Hydraulic System



- Extra Large Hydraulic Tank 850 l.



- Regenerative hydraulic circuit for fast lift speed at low working pressure



- Hydraulic oil and brake cooling system



- Oversized components and low working pressure



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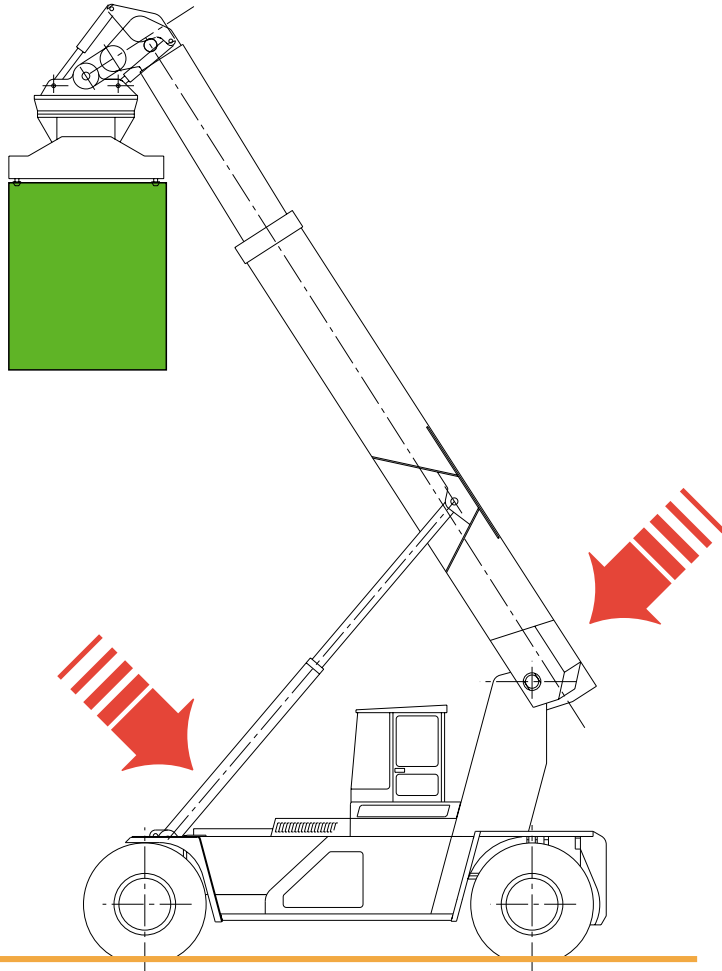


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FORMULA 2
RANGE 2

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LIFTRUCKS

Safety Valves on Cylinders

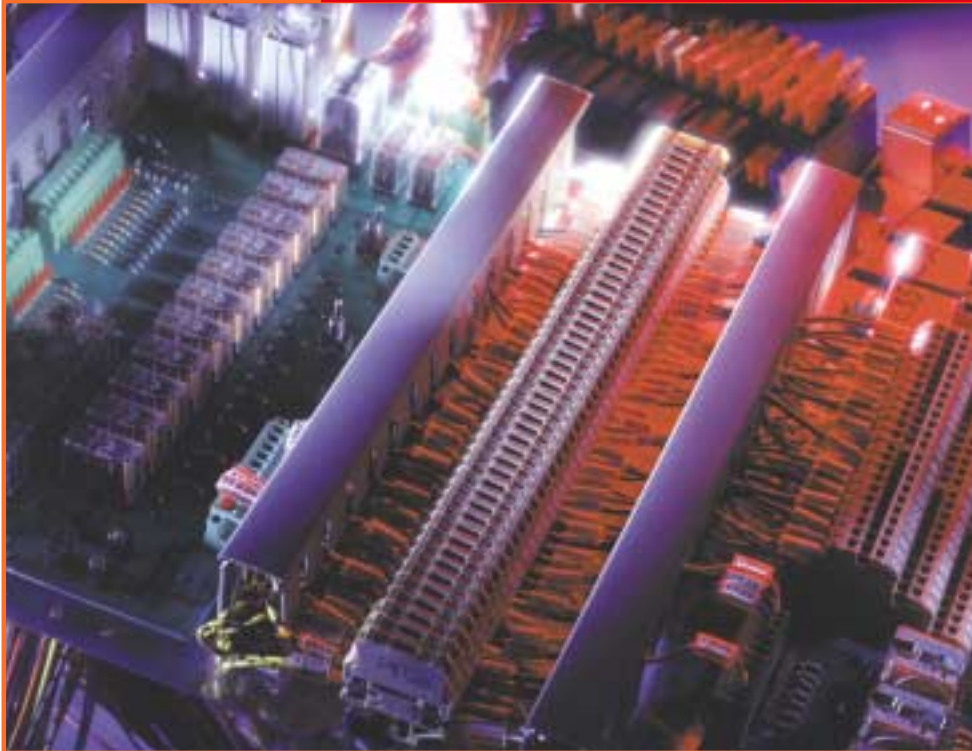


- Prevent load lowering in case of hydraulic system failure (lock valves)



Electric System

• Simplicity



• Faults diagnostic

- Minimized wiring.
- All components are plug-connected and easily replaceable.
- Fully enclosed IP 55 standard complying system.
- All wires are colour and number coded for easy tracking.
- Faulty relays and fuses are signaled by leds or back-lit lights for easy fault diagnostic.





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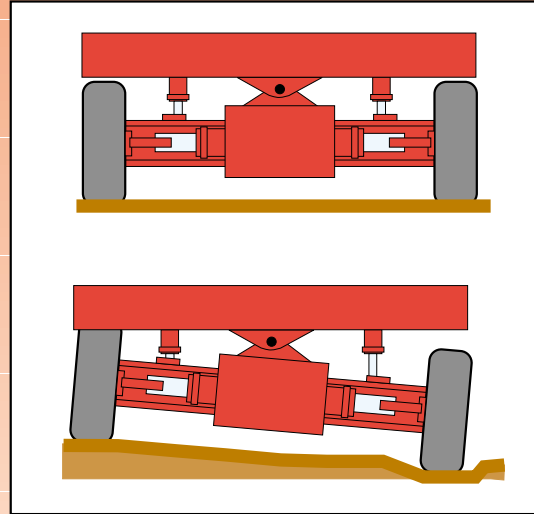
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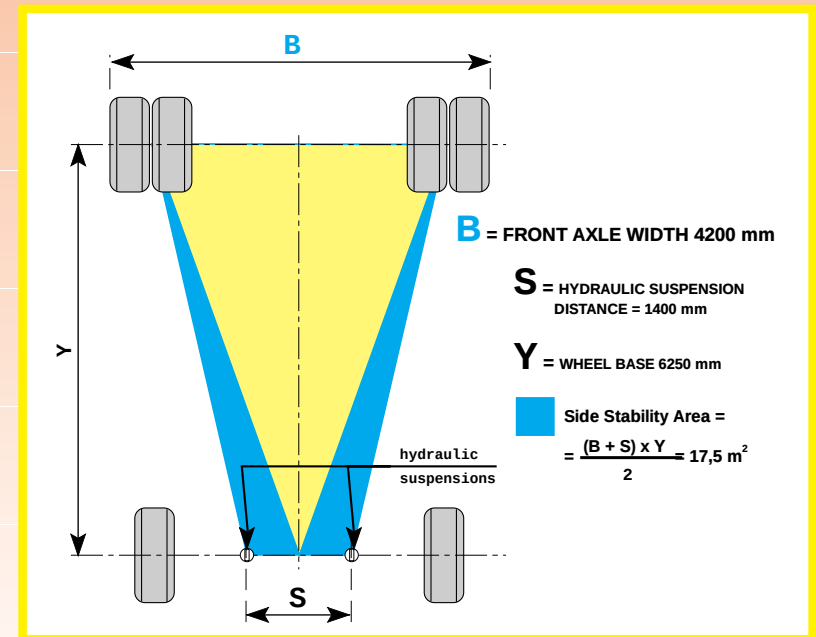
LIFTRUCKS



Rear Suspensions

OPTION

The rear suspensions greatly enhance the truck side stability area and so for greatly increase the truck lateral stability. Moreover, by always keeping the truck body planar irrespective of ground conditions, they sensibly reduce lateral shocks on chassi and boom, and notably improve driver's comfort.





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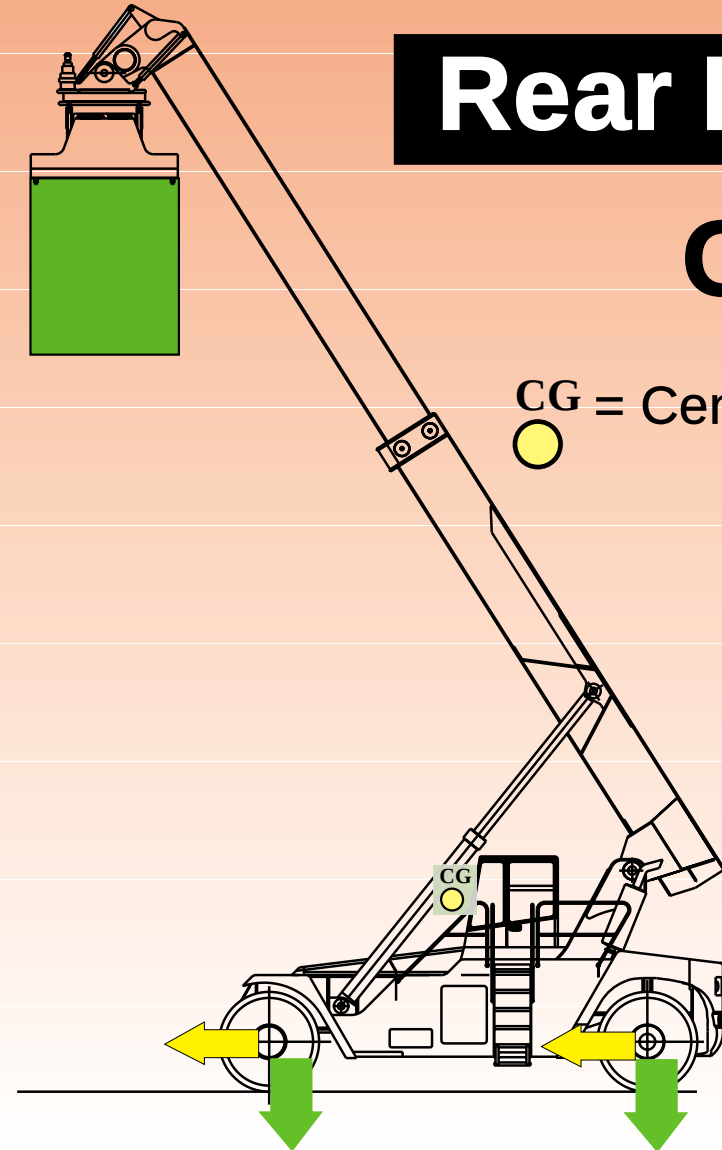
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FORMULA
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Rear axle brakes, by applying a deceleration behind the truck center of gravity, provide rear pulling effect which eliminates the tip over tension created by the front braking.



Rear Brakes

OPTION

CG = Centre of Gravity



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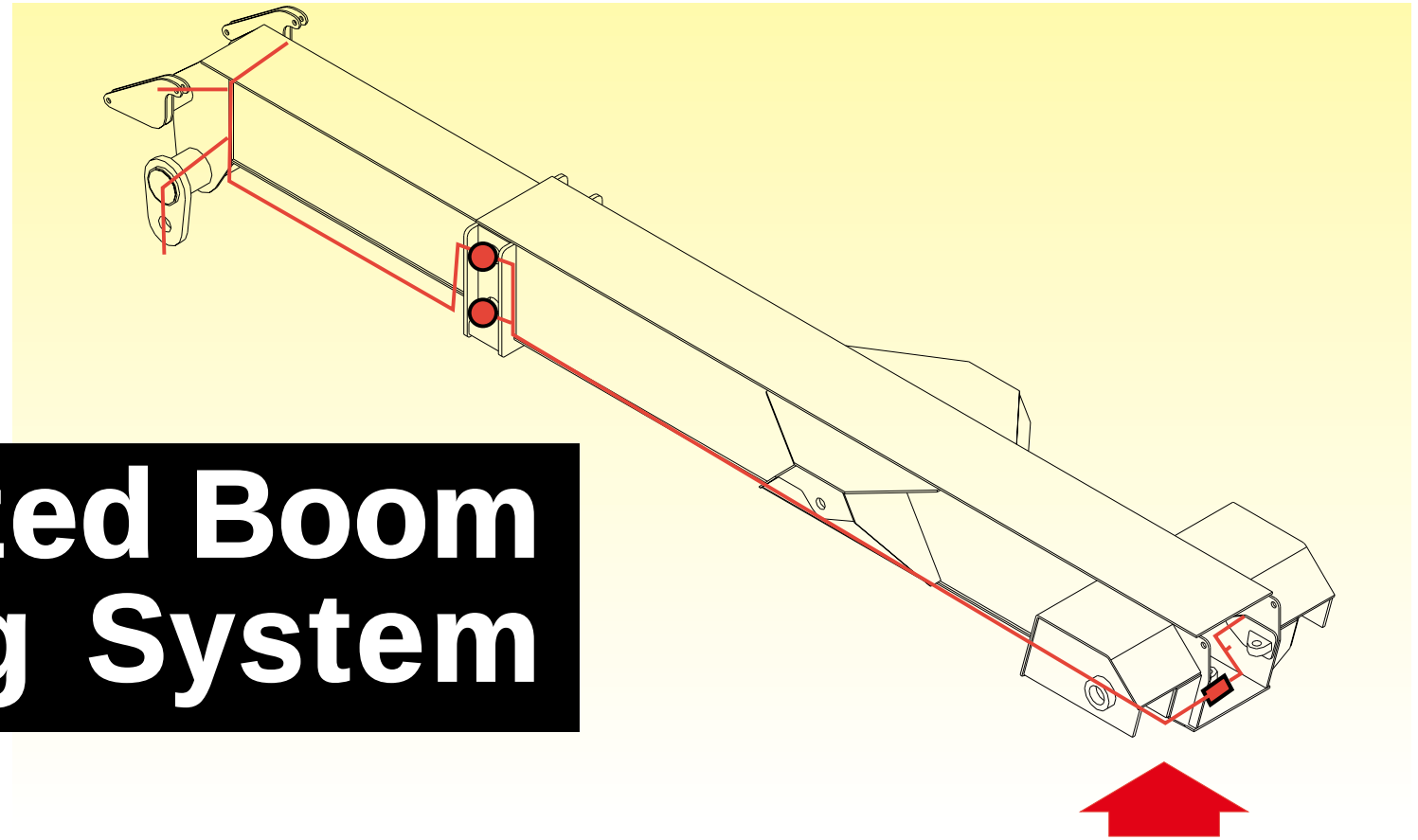
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Centralized Boom Greasing System

- From one single point (with multiple head) all pads and bearings of the boom are greased



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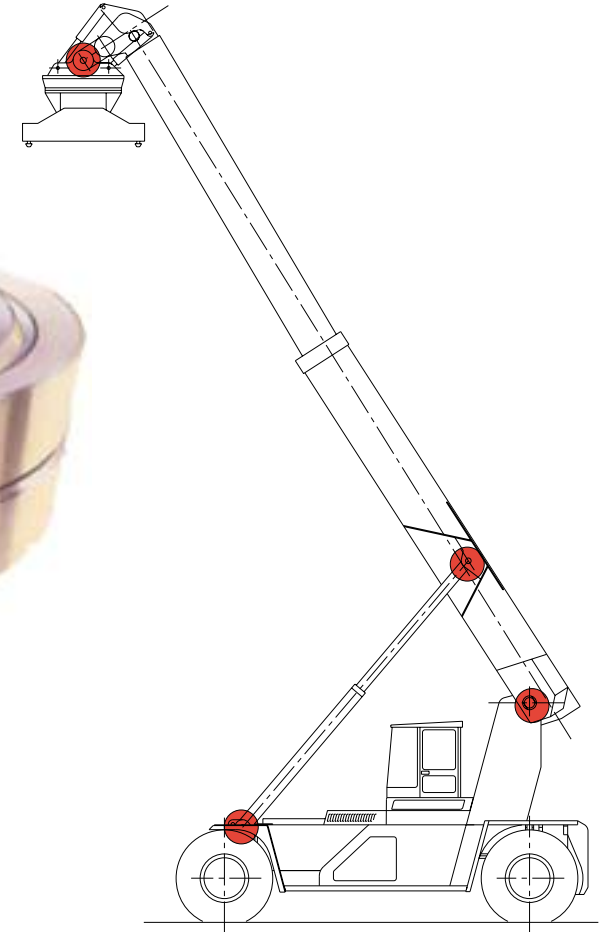
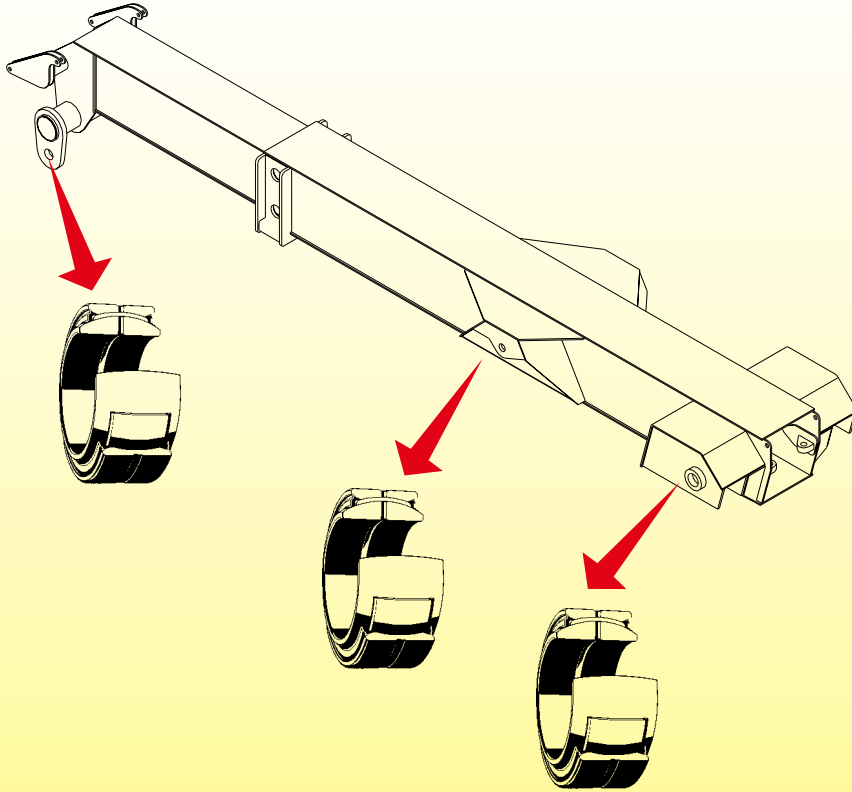


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LIFTRUCKS

• Boom Articulation



- All boom articulations are fitted with spherical bearings - No bushers



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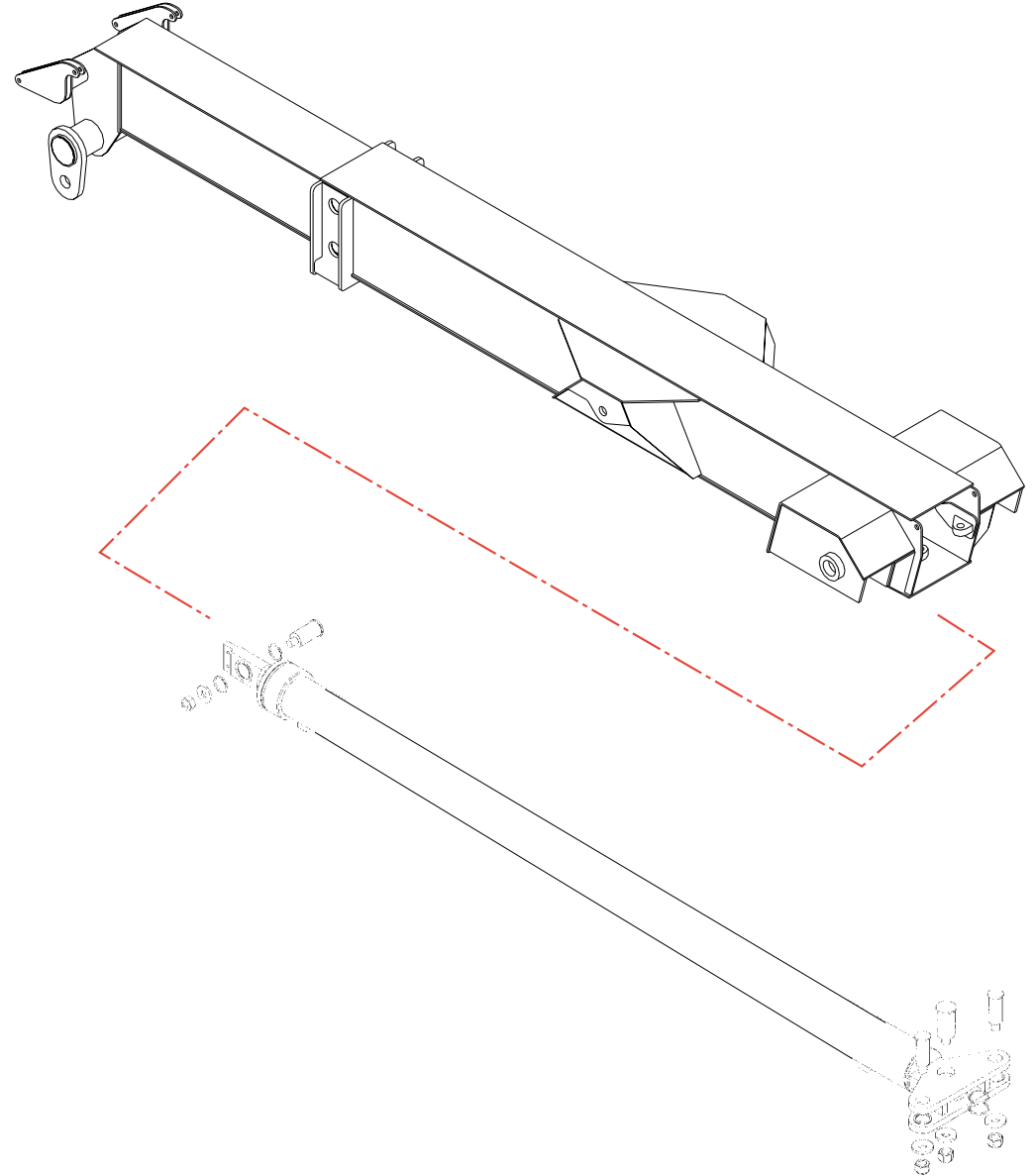
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Boom Articulation Cylinder Demounting

- The boom telescopic cylinder is demountable without demounting the boom





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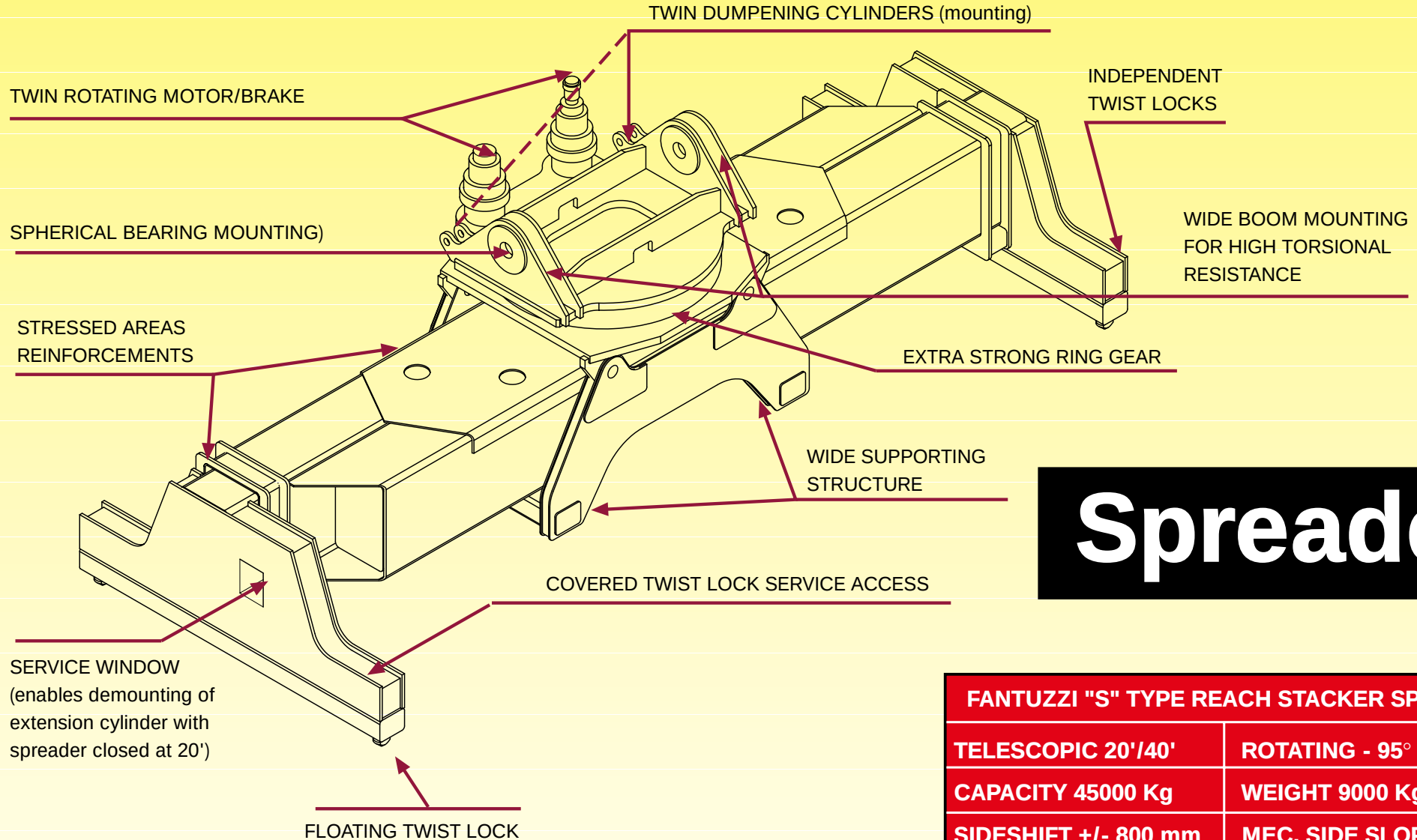
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LIFTRUCKS



Spreader

FANTUZZI "S" TYPE REACH STACKER SPREADER

TELESCOPIC 20'/40'

ROTATING - 95° / +185°

CAPACITY 45000 Kg

WEIGHT 9000 Kg

SIDESHIFT +/- 800 mm

MEC. SIDE SLOPING +/- 5°



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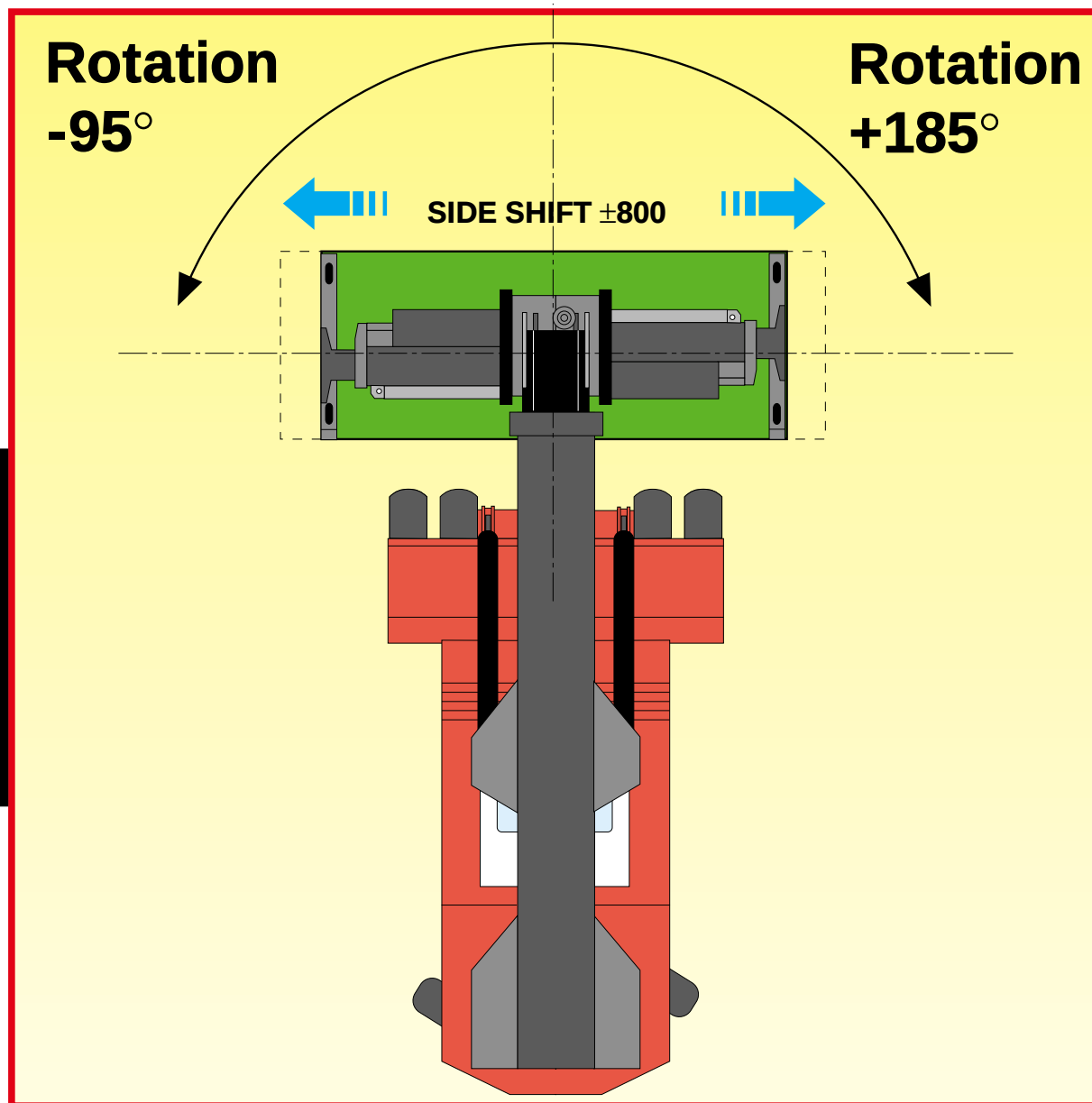


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Spreader Rotation



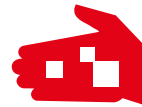


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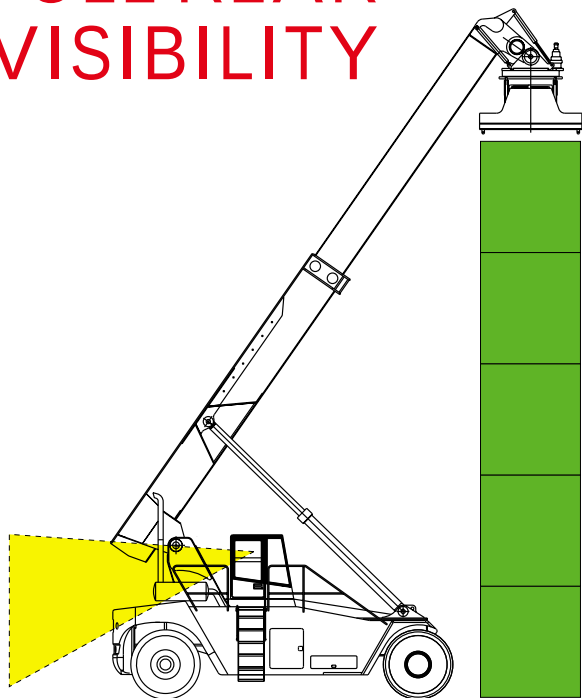
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LIFTRUCKS

• Visibility

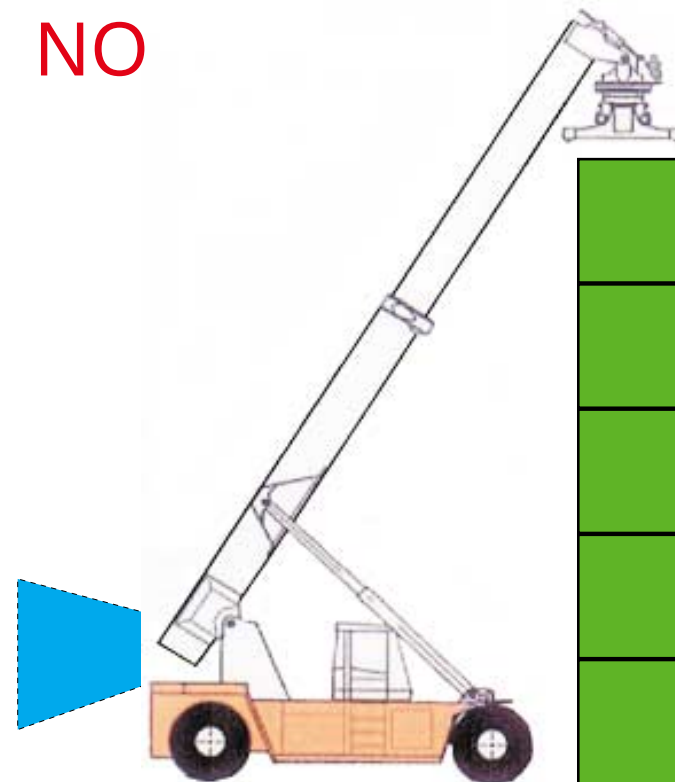
FULL REAR
VISIBILITY



Others

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NO





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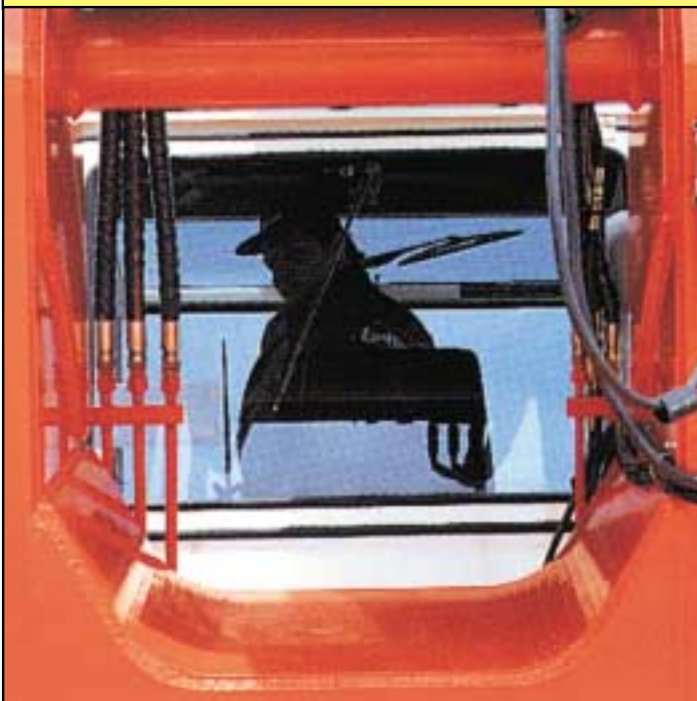
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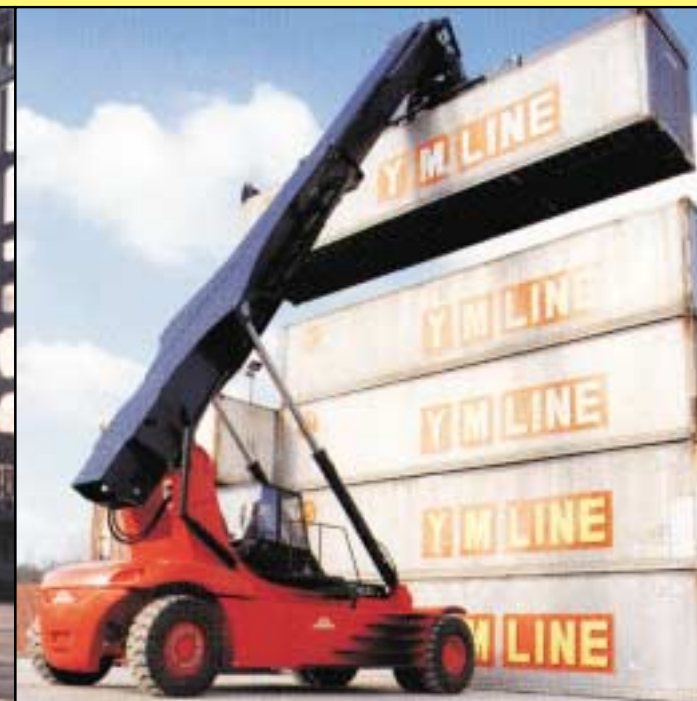
LIFTRUCKS

Rear Visibility

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Others





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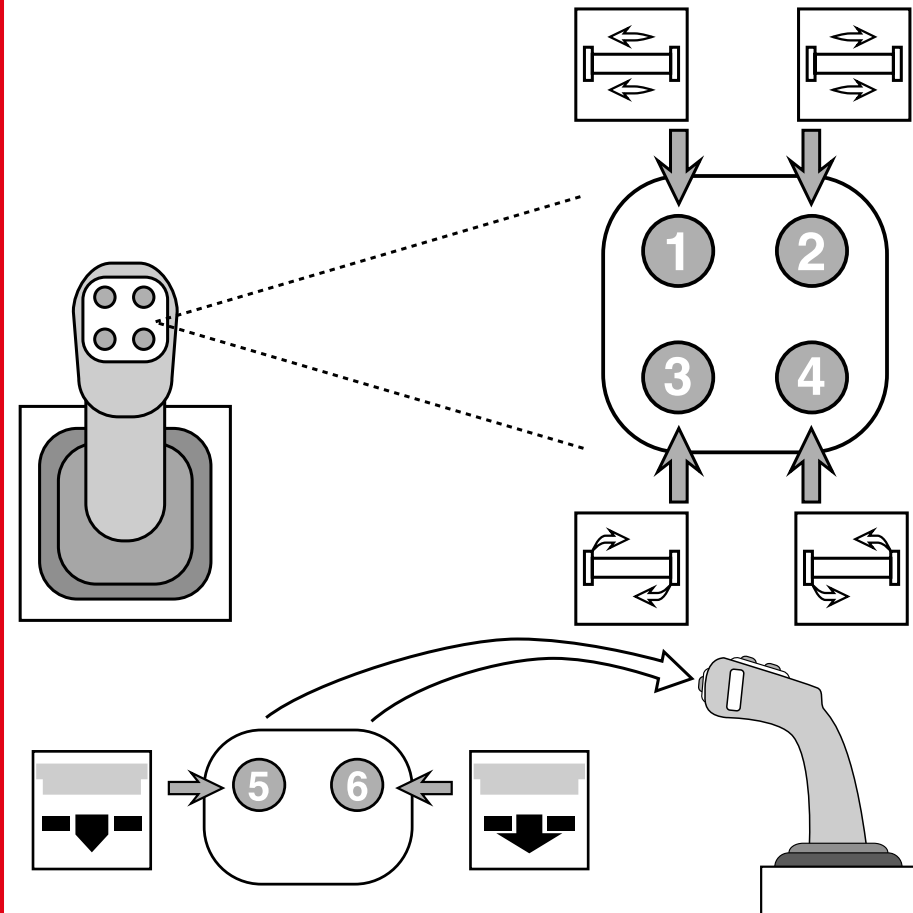
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LIFTRUCKS

Joystick Controls



- To activate functions the Joystick must be securely held





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LIFTRUCKS

The Cabin



HARMONY



• OPERA HARMONY hosts and spatially harmonize all the controls and instruments that equipments for empty box handling do require. The low profile cock-pit lay-out grants the driver perfect all-round visibility, while innovative and stylish satellite elements match operator's natural sight lines to bring him all essential operative and functional informations.



- All enclosed in the robust-albeit roundly glassed unique OPERA shell.

- OPERA shell is another trademark of the FANTUZZI technological superiority.





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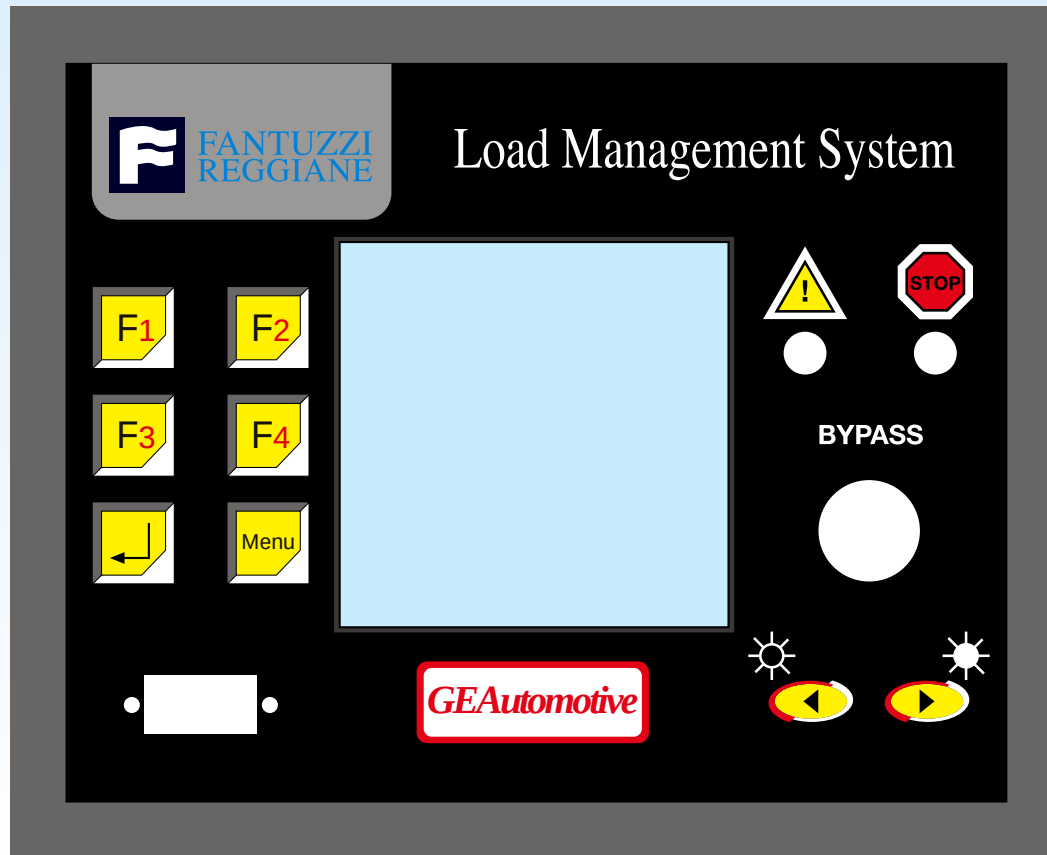
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FORMULA 2
RANGE

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LIFTRUCKS

LMS

Load Management System



- Electronic type with LCD DISPLAY, of:
 - Load weighing
 - Boom radius/load centre
 - Lifting height
 - Stability reserve bar graph
- Provides anti-overload and antitipping function by stopping boom out and boom down when design stability/ load limits have been reached
- Warning lights and buzzer
- Self-calibrating
- With self-faults diagnostic