

Hydraulic Loaders

24562

Technical Specifications

Material Handling Systems

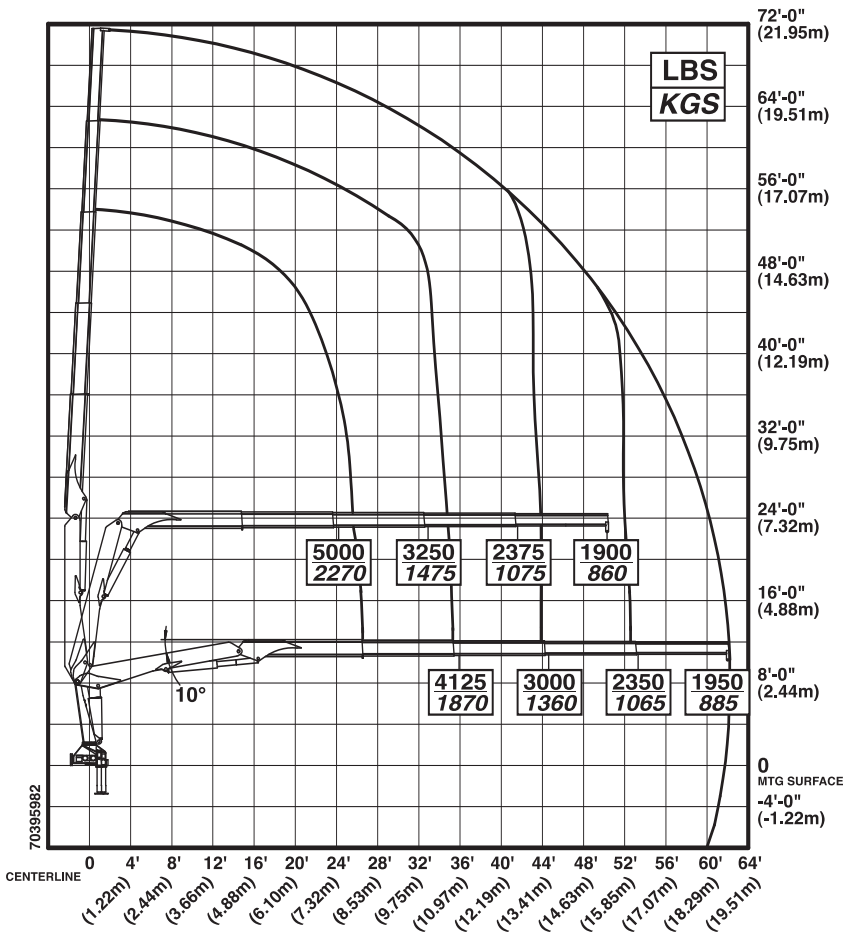




| Specifications | Model 24562 |
|----------------------------------------------------------------|--------------------------|
| Crane Rating – K-4 | 130,570 ft-lb (18.05 tm) |
| Maximum Horizontal Reach from centerline of rotation | 62'4" (18.98 m) |
| Maximum Vertical Reach from crane base | 71'4" (21.75 m) |
| Lifting Height based on 50" mounting height | 75'6" (23.0 m) |
| Hydraulic Extension | 34'9" (10.6 m) |
| Rotation | 420° |
| Rotation Torque | 34,718 ft-lb (4.8 tm) |

| Specifications | Model 24562 |
|------------------------------------------------------------------------|------------------------------|
| Crane Weight including stabilizers, oil tank & oil cooler | 12,060 lb (5,470 kg) |
| Outrigger Extension Span Hyd out / hyd down | 22'0" (6.7 m) |
| Crane Storage Height based on 50" mounting height | 13'5" (4.09 m) |
| Mounting Space Required crane base | 44" (1118 mm) |
| Optimum Pump Capacity tandem pump | 16/16 U.S. gpm (60/60 L/min) |
| Oil Reservoir Capacity | 55 gal (210 L) |

Capacity Chart



- Capacities through geometric range are limited to those shown in horizontal position.
- Loads shown are based on crane structure and hydraulic capability. Before lift is made, stability must be checked per SAE J765A.
- To determine net lift the weight of any load handling device must be deducted.

24562 Hydraulic Loader

Minimum Chassis Specifications

| | |
|-------------------------------------|-------------------------------|
| Chassis Style | Conventional Cab |
| Front Axle Rating (GAWR) | 18,000 lb (8165 kg) |
| Rear Axle Rating (GAWR) | 40,000 lb (18,144 kg) |
| Wheelbase | 274" (696 cm) |
| Cab-To-Axle | 210" (534.4 cm) |
| Frame Section Modulus | 30 in ³ (492 cc) |
| Resistance To Bending Moment | 3,300,000 in-lb (38,021 kg-m) |

NOTES

1. GAWR means gross axle weight rating and is dependent on all components of the vehicle such as axles, tires, wheels, springs, brakes, steering and frame strength meeting the chassis manufacturer's recommendations. Always specify GAWR when purchasing a truck.
2. Weight distribution calculations are required to determine final axle loading.
3. All chassis, crane and body combinations must be stability tested to ensure stability per ANSI B30.22.

Performance Characteristics

Power Source

Integral mounted tandem vane hydraulic pump and PTO application is standard.

Cylinder Holding Valves

All cylinders are double acting and equipped with integral mounted load holding valves on all load bearing functions. This prevents sudden cylinder collapse in the case of hose or other hydraulic system failure. The outrigger cylinders have positive, pilot operated holding valves. The inner, outer and extension boom cylinders have pilot operated counterbalance valves. The counterbalance valve is a holding valve, controls the lowering function and allows that motion to be feathered while under load. The inner and outer cylinders have an additional relief valve for protection if the load limiting device malfunctions.

Rotation System

Rotation of the crane is accomplished through a rack and pinion system powered by single acting cylinders. A counterbalance valve on each cylinder acts as a brake to stop motion in the event of a valve or piping failure. Standard rotation is 420°. The gear rack and pinion are encased in a continuous oil bath to reduce friction and enhance the gear and bearing life.

Hydraulic System

Open centered, full pressure system with tandem pump requiring 16/16 U.S. gpm (60/60 L/min) optimum oil flow at 4,279 psi (295 bar). Control system consists of two three-spool, stack-type valve banks. All crane functions are joystick operated. Outrigger controls are located at the base of the crane and are of the push/pull type, connected directly to the valve bank. The hydraulic system includes hydraulic oil reservoir and high pressure filter system.

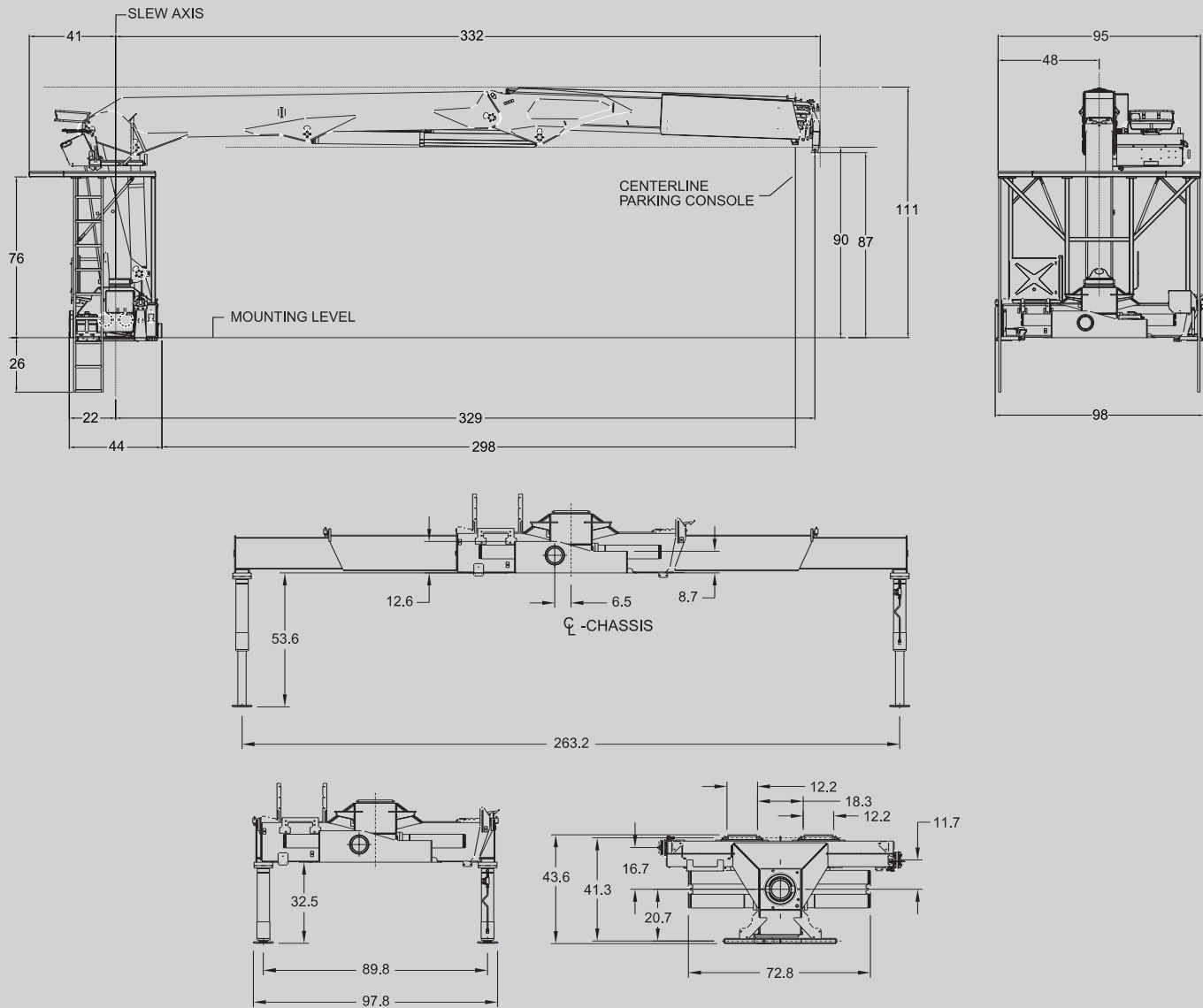
Hydraulic Overload System

The crane is equipped with a RCL (rated capacity limitation) system. The basic configuration includes the electronic controller, dump valve, pressure transducer and spool sensor. The system constantly monitors the crane's load moment, operation and function. In overload situations the system warns the operator and interrupts the distribution of oil for the crane functions. However, the load moment reducing functions can still be operated.



24562 Hydraulic Loader

Geometric Configuration



We reserve the right to introduce improvements and modifications.



Iowa Mold Tooling Co., Inc.

500 Highway 18 West
P.O. Box 189
Garner, Iowa 50438-0189
(641) 923-3711
Fax: (641) 923-6063
www.imt.com

(800) 247-5958

IMT and the IMT LOGO are registered trademarks or trademarks of Iowa Mold Tooling Co., Inc.

Manufacturer's Limited Warranty Coverage

Products manufactured by IMT are warranted to be free from defects in material and workmanship, under proper use, application and maintenance in accordance with IMT's written recommendations, instructions and specifications as follows:

1. One (1) year: labor on IMT workmanship.
2. One (1) year: original IMT parts.
3. Three (3) years: crane structural.

For policy details please refer to the IMT warranty policy.

IMT reserves the right to change specifications and design without notice.