

# WHEEL LOADER

# WA320-3

## ***ADVANCE LOADER***

FLYWHEEL HORSEPOWER: 121kW 163 HP @ 2,380RPM

BUCKET CAPACITIES: 2.1~3.2m<sup>3</sup> 2.75~4.2 cu.yd

OPERATING WEIGHT : 13,750 kg 30,320 lb



Model shown may include optional equipment.

- *The powerful Komatsu S6D108 engine provides fuel-efficient operation*
- *Exclusive dual speed hydraulic system ensures shorter cycle time*
- *Kick-down switch on the boom control lever improves pile penetration and scooping operations*
- *Electrically controlled transmission enables light fingertip control of all direction/gear shift changes*
- *Tilttable steering wheel and adjustable seat provide operator comfort and efficiency*
- *Komatsu viscous damping cab mounts reduce vibration and noise*
- *Adjustment-free service and parking brakes account for higher performance and reduced downtime*
- *Gull-wing engine side covers facilitate engine access for easy checking/replacement of engine oil or filters*
- *High-quality components are used for superior reliability and availability*

**komatsu**



### Great Power

The world/field-proven Komatsu 6-cylinder, direct-injection turbo-charged S6D108 engine has all the capability needed for today's tough operations.

### Reliable Power Train

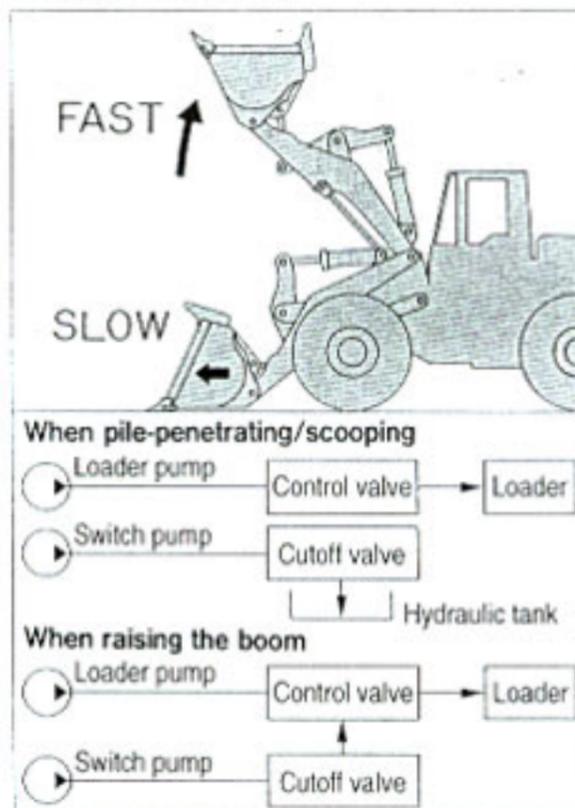
The engine, torque converter and transmission as well as the hydraulic equipment and electrical parts undergo strict quality control checks for enhanced reliability and durability.

### Durable Bucket

Komatsu buckets are manufactured using high-tensile strength steel with replaceable bolt-on wear plates for extended bucket life. Additional strength has been added to the bucket bottom corners, side edges and spill guard ends for increased durability.

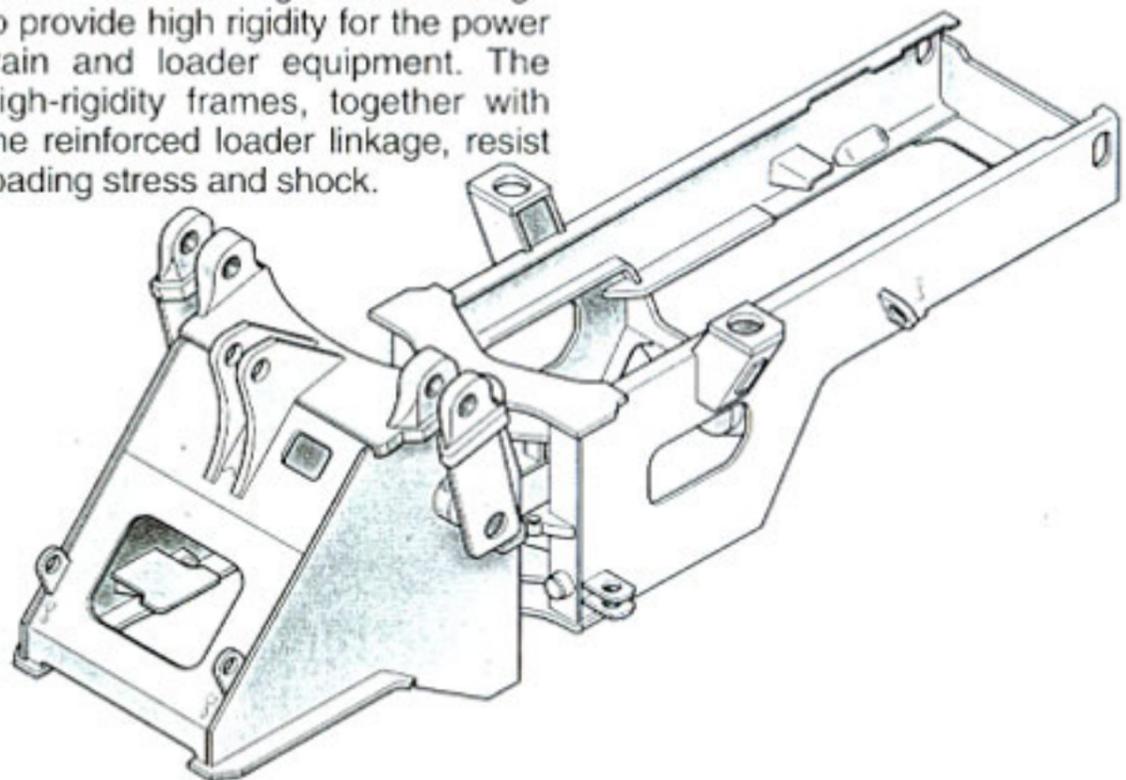
### Shortened Cycle Time

The dual speed hydraulic system drastically shortens cycle time. When pile-penetrating and scooping, most of the engine power is applied to the wheels to exert maximum rim pull by turning off the switch pump. Power is also fully applied to the loader through the combination of both switch and loader pumps to give maximum hydraulic power when raising the boom.



### High-Rigidity Frames

Front and rear frames are made to suit a one class larger loader design to provide high rigidity for the power train and loader equipment. The high-rigidity frames, together with the reinforced loader linkage, resist loading stress and shock.



### Large Dumping Clearance

The WA320-3 was designed with ample dumping clearance for on-highway dump trucks. The operator can easily level materials in the bed of the dump truck.

### High Breakout Force

Komatsu wheel loaders have high-tensile steel Z-bar loader linkages for maximum rigidity and maximum breakout force. Sealed loader linkage pins extend greasing intervals.

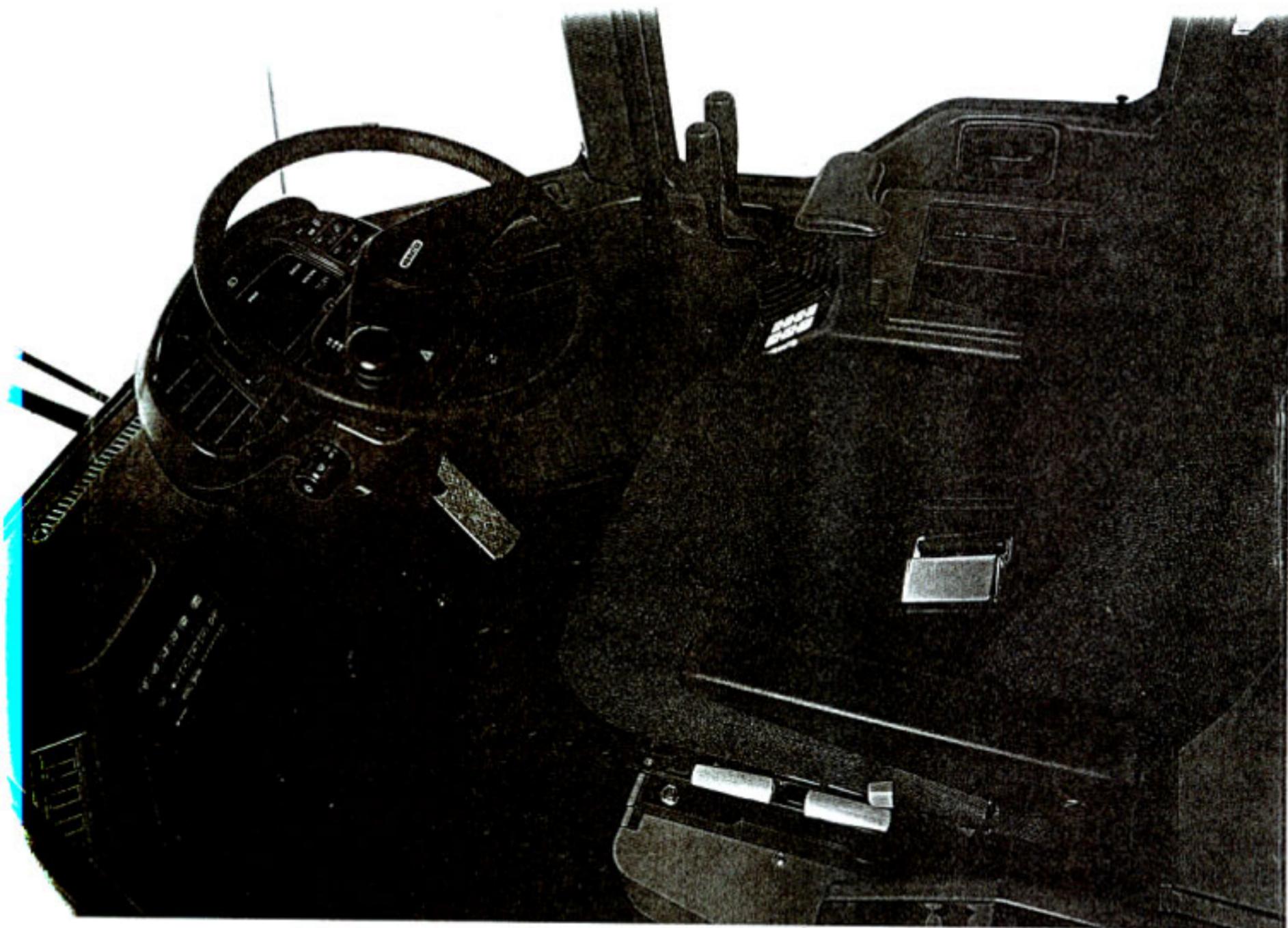
### Excellent Stability

The WA320-3 has the widest tread in its class 2,050mm (6'9") and a long 3,030mm (9'11") wheelbase, for maximum machine stability.

### Smoother Ride In Muddy Terrain

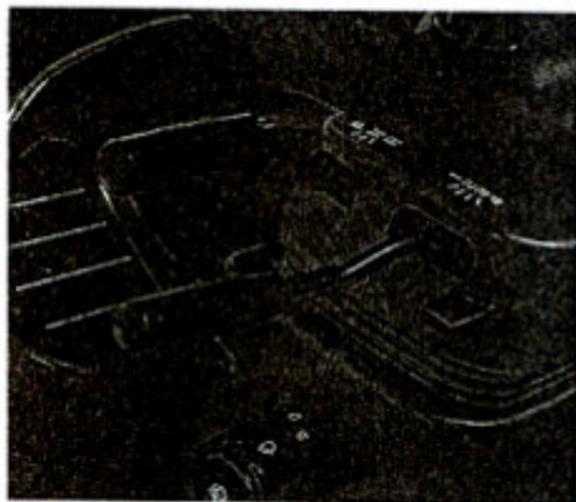
The torque proportioning differential for both axles enables smoother ride in muddy or sandy terrain, reducing tire slippage and extending tire life.

# Focus on Operator Comfort and



## Ergonomically-Designed Controls

All controls are ergonomically designed to minimize operator fatigue. The steering wheel and instrument panel are similar to those of a car. The bucket and boom controls have PPC valves and short-stroke levers, to reduce operator effort. With the electrically-controlled transmission, direction and gearshift control levers can be finger-operated while holding the steering wheel with the same hand, allowing instant, positive direction and gearshift changes.



## Faster Pile-Penetration & Scooping

A kick-down switch down-shifts the transmission from forward 2nd

to 1st gear, for increased rim pull and hence improved bucket filling. When the direction control lever is set to reverse, it automatically up-shifts from 1st gear to 2nd, to reduce cycle time.



# Easy Maintenance

## Tiltable Steering Column & One-Glance Monitors

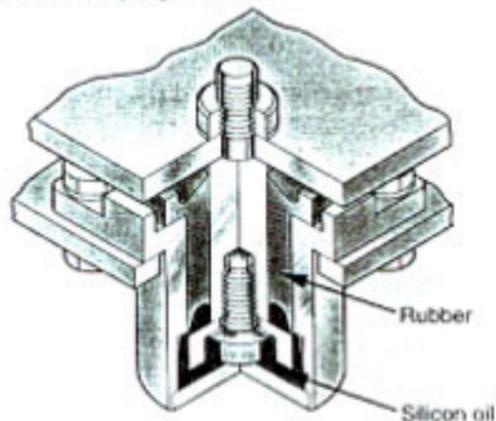
The steering column can be easily tilt-adjusted to the most comfortable position with one lever. Together with the two-spoke design, this guarantees better vision of the monitors.



## Low Vibration & Noise

The cab rests on Komatsu viscous damping mounts (rubber and silicon oil) to reduce vibration and noise. All hydraulic equipment is mounted on high-resistance rubber to further reduce vibration and noise.

Viscous damping mounts

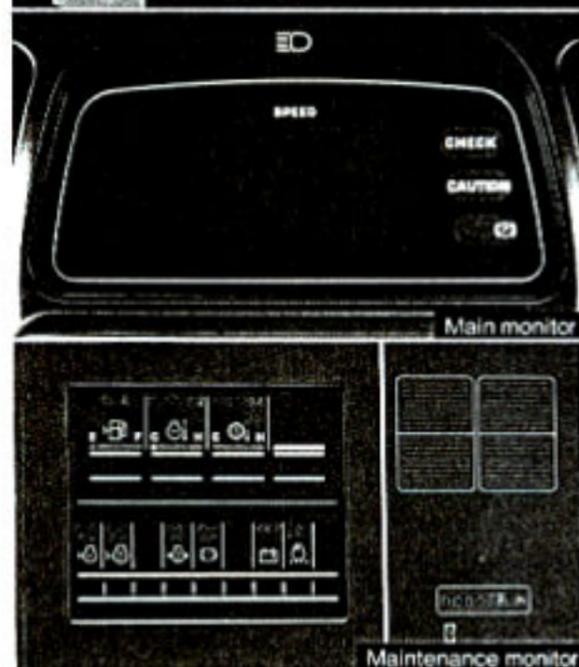


## Comfortable Operator's Seat

The operator's seat has a reclining/suspension design with headrest to support the operator comfortably during long operation. It's waterproof for a longer service life.

## Simple Checks, Easy Maintenance

Gull-wing engine side covers fully open upwards at a fingertouch. The covers allow for easy checking of engine and enable repair from ground level if required. The main monitor and the maintenance monitor (EDIMOS II) are neatly arranged on the instrument panel for a quick, clear reading of machine functions at all times.

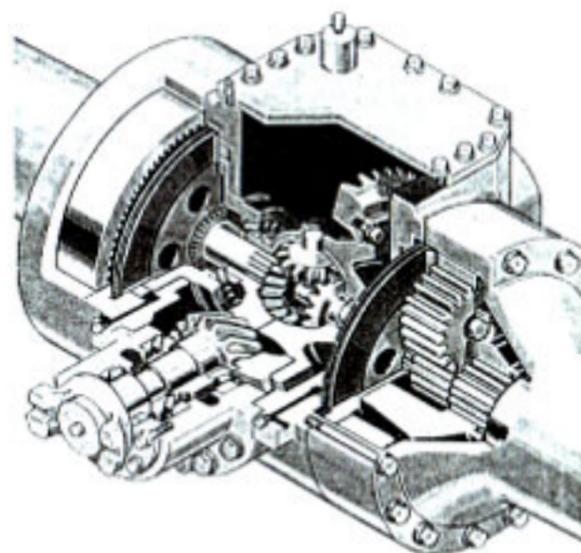


## High-Quality Coating

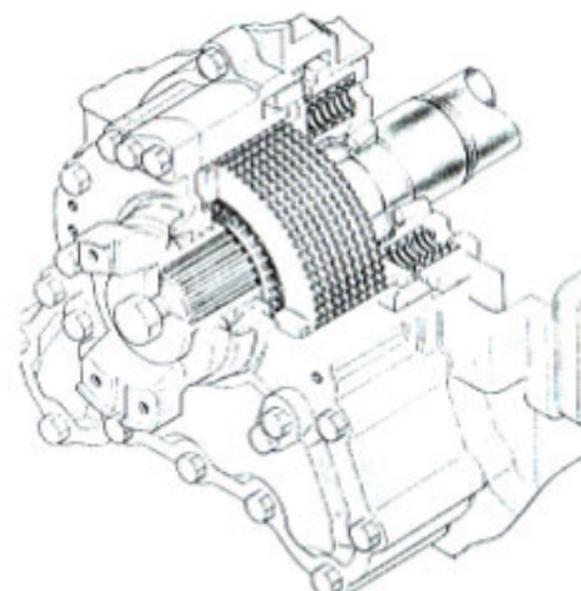
Most exterior plates are treated with a cationic electro-deposition undercoat and powder coating for rust resistance and longer service life. In addition, some exterior components employ resin.

## Maintenance-Free Braking System

Service brakes employ two hydraulically-actuated independent circuits for increased safety and are adjustment-free, fully-sealed, wet disc units, preventing intrusion of dirt and dust. Since the brake system does not use air, it provides many features such as absence of condensation, dependable braking even in cold conditions, no need for drainage, and rust free piping. What's more, charging time after engine starting is drastically shortened and pedal depressing effort is reduced. The parking brake is also an adjustment-free, wet disc type.



Fully-sealed wet disc brake



Wet disc parking brake