

GRENDIA

IC Engine counterbalance trucks

1.5 – 5.5 tonnes



quality | reliability | value for money

 **MITSUBISHI**
FORKLIFT TRUCKS

No wonder it's the world's favourite forklift.

Instinctive driving... Legendary reliability...
Lower running costs...

Every day, all over the world, people know they can rely on Mitsubishi forklift trucks. And you don't build that many trucks without learning a thing or two.

So our signature model, **GRENDIA**, is beautifully efficient.

You can spot our experience in those common-sense touches that deliver a real difference to the way you work.

See the uncluttered access that operators like so much? It also makes daily checks faster and halves the cost of servicing. The six-roller design doesn't just make our mast strong, it delivers unrivalled visibility.

We've taken the time to think it through. And the result is a truck that's tougher... cheaper to run... an absolute joy to use.

Thousands love **GRENDIA**.
We think you will too.



the green diamond



GRENDA

Our most popular forklift range, GRENDA means 'green diamond'. Green for its low fuel consumption, low emissions and low tyre wear... Diamond because it's tough, high quality and always a sound investment. No wonder it's the world's favourite forklift.



Planning and practice hone your performance and ours too.

It's no coincidence that the teams who practice most are the ones which perform best when the pressure's on: there's no substitute for the confidence of knowing exactly what's going to happen.

High-performance forklift operations are the same. Time and again, the operator who delivers is the one who knows, with absolute certainty, how their truck will respond.

At Mitsubishi, we're experienced, too. So we deliberately made **GRENDIA** the easiest and most instinctive truck to drive.

Little things make a big difference – so the pedals have a familiar, car-like layout – at an angle that's comfortable to use all day. Visibility's great all round, and the whole truck is naturally stable and surefooted to use.

If you want fingertip controls, no problem: we pioneered them.

GRENDIA gives confidence. And that means performance.

Precise control at your fingertips



Whether you prefer our proven fingertip control or ergonomic levers, you'll benefit from **GRENDIA's** exceptionally precise command of all hydraulic systems.

With a wide range of sideshift and other optional hydraulic attachments, whatever your load, you're sure to handle it with precision.





GRENDA trucks are used extensively in high-pressure, short shuttle industries like logistics and distribution. Their instinctive, surefooted performance gives operators confidence to perform.

Tough, reliable and built to work as hard as you do.

Unlike some trucks, **GRENDIA** really is designed to deliver reliability in the toughest applications.

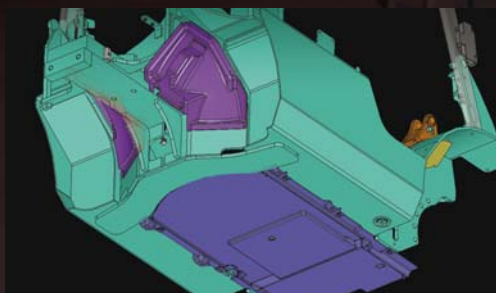
At its heart is a truly industrial engine with chain drive as standard – so there's no time lost to timing belt replacements – protected by **Belly Seal**, closed wheel arches and cyclone air filter as standard.

Service intervals are among the longest in the industry – but that's not all. We've given **GRENDIA** unique **RapidAccess** servicing panels, cutting service costs and downtime in half compared to leading competitors.

That design pays dividends every day. Daily pre-shift checks are faster, and so is routine maintenance. On some trucks, it takes 35 minutes to change a lightbulb. On **GRENDIA**, it takes just two.

Put simply: it's good engineering. And we're famous for it.

Keep dirt under control with our unique Belly Seal



The Belly Seal, which is available on all **GRENDIA** models, protects against damaging dust. Comprising a belly plate and other unique sealing components, the Belly Seal prevents the cyclone effect, where dirt and dust is drawn into the engine compartment and recirculated into the working environment. This helps **GRENDIA** deliver a long engine life and outstanding service intervals.





You'll find GRENDIA delivering in some of the world's toughest industries: concrete, building, agriculture and more. They're no-nonsense trucks: built to take a beating.

Quiet, clean and always looking after your environment.

Where a workplace needs to stay clean, healthy and quiet, **GRENDIA** is the perfect answer.

The same **Belly Seal** that protects the engine from dirt, stops the truck spreading dust into the air and dramatically reduces engine noise.

In fact, with universal joint transmission and noise-reducing intakes, gears and pumps, **GRENDIA** is dramatically quieter than many other trucks: just 78dBA.

Emissions are low, too. A three-way catalytic converter, fitted as standard, cuts carbon monoxide, hydrocarbons and, crucially, 95% of harmful NOx gases: a must for any truck working indoors, near people or food.

To protect your environment, your stock and your staff, choose **GRENDIA**. You'll be amazed at the difference.

Work clean with no cyclone effect

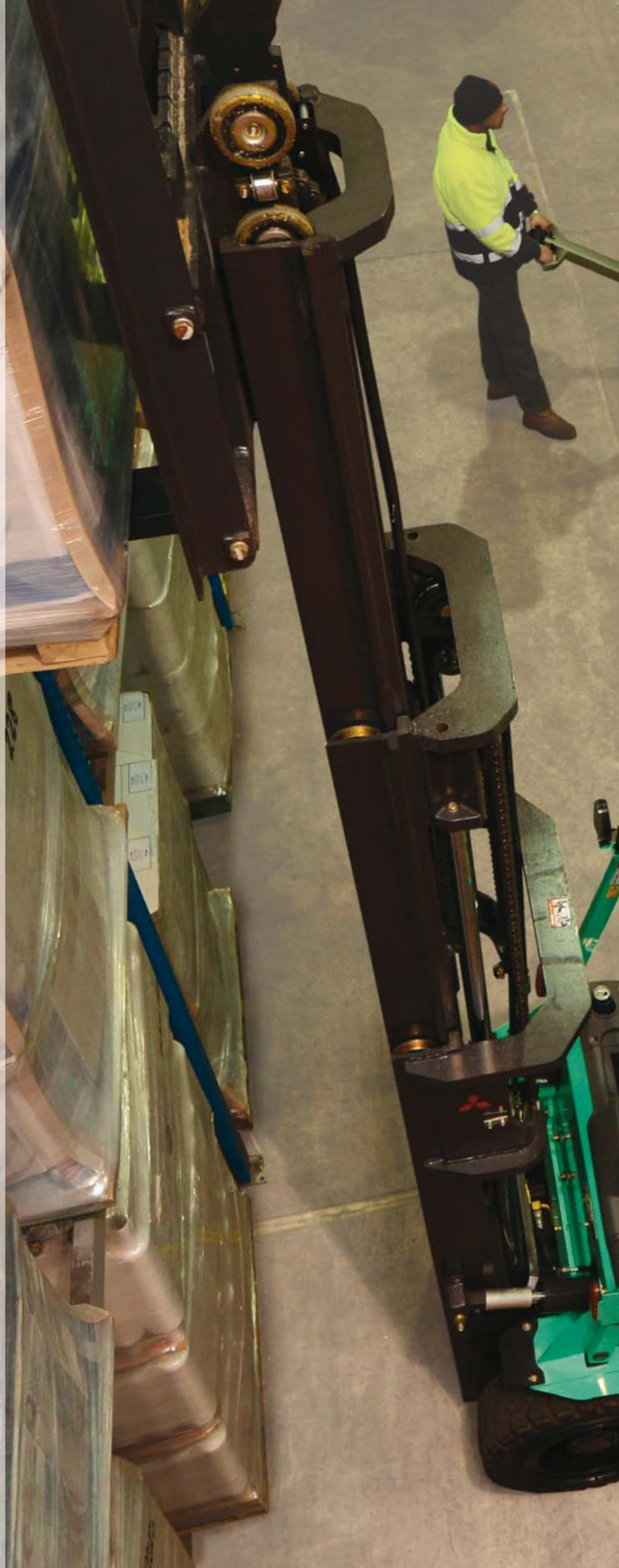
The combination of **GRENDIA's** high air intake, the **Belly Seal** plate and enclosed wheel arches totally prevents the 'cyclone effect'.



In trucks without this feature (like the one below), dirt is sucked into the engine compartment, forced through the radiator and cast into the air.

GRENDIA's Belly Seal stops this happening

...protecting your workers and your stock.





Some of the world's most demanding brands trust GRENDA for its clean, quiet, dust-free performance.

Costs less to run. And run. And run...

Quite simply, **GRENDIA** is one of the most cost-effective forklift trucks you can buy.

For some companies, soaring fuel costs are now a far bigger drain than the cost of the forklift truck itself. Not with **GRENDIA**. Whether you choose diesel or LPG, its lean, managed performance gives fuel savings as high as 40% compared to some leading competitors.

But that's not all.

Service intervals are longer, and servicing faster and cheaper. Brake wear is reduced by weight savings. Even steering geometry is carefully optimised to minimise tyre wear.

And, of course, the sturdy build quality improves reliability, cutting down on expensive, unscheduled downtime and repairs.

We don't think you'll find a truck that costs you less to own.

Keep performance high with FlexControl



The optional **FlexControl** protection package includes oil-cooled disc brakes for total operator control. During short shuttles, FlexControl delays shifts from forward and reverse until speed drops sufficiently – reducing wear to tyres and transmission. Operator confidence is raised with automatic 'hill hold', auto-deceleration and an anti-wheelspin start feature.





Whether you choose diesel or LPG, GRENDA boasts some of the best fuel efficiency savings in its class.

Think safety. It's not just the driver you're protecting.

Most forklift accident victims are colleagues on foot – so a safer truck is good news for everyone. And every little scrape you prevent to the vehicle, stock or racking gives a direct benefit to your bottom line.

First and foremost, **GRENDIA** is built to be stable, minimising risks without gimmicks. And vision through the strong, six-roller mast is unparalleled: 38% more than some other trucks, with fork tips and load in full view.

Fitted as standard, an enhanced **IPS2** system locks driving and hydraulics down if the driver is not seated. You can even password lock the truck, to prevent unauthorised use. For further protection, a unique, intelligent speed limiter – available as an option – improves safety and cuts costs while giving full performance on ramps.

You train operators to be safe. We just give them a little extra help.

All-round visibility makes a clear winner



All **GRENDIA** models provide their drivers with an exceptionally clear view to their fork tips – thanks to our unique mast design. Upward visibility is exceptional too, allowing drivers added security when working at greater lift heights.





Sensible, common-sense measures that make a real difference: GRENDA works with the operator to deliver genuine safety, not gimmicks.

**Outstanding performance...
exceptional economy.**



GRENDIA ES

diesel and LPG counterbalance
4 wheel pneumatic tyres

1.5 – 3.5 tonnes



Powerful LED lights



Wide range of options



Automotive-style pedals



Robust construction

Developed to help your operator achieve maximum productivity, while minimising running costs, GRENDIA ES sets the highest standards for IC engine counterbalance forklift trucks. With its exceptional fuel economy, durable components and low maintenance design, GRENDIA makes perfect business sense. What's more, it comes with a package of advanced features, fitted as standard, that offers true value for money.








The name **GRENDIA** means 'Green Diamond': green for environmental protection; diamond for high quality, reliability and sound investments.

Fast, stable and exceptionally powerful, **GRENDIA** forklift trucks offer a potent combination of high efficiency, low emissions and very low noise levels. To that, Mitsubishi has added a host of ergonomic features to maximise comfort, control and precision. The result is a forklift that can be relied upon to deliver top performance, whatever the application, whatever the conditions.

options include

- Fingertip hydraulic controls
- Load weight indicator
- Grip/horn button for reversing
- Speed control
- PlusCab panel cabins

capacities

 FD/FG15N 1.5 t	 FD/FG18N 1.8 t	 FD/FG20CN 2.0 t	 FD/FG20N 2.0 t
 FD/FG25N 2.5 t	 FD/FG30N 3.0 t	 FD/FG35N 3.5 t	

- **Advanced diesel technology** lowers fuel consumption and ensures complete, clean burning – as well as low noise levels.
- **Three-way catalytic converter** – fitted as standard – significantly reduces exhaust emissions to one of the industry's lowest levels. (LPG models only.)
- **Integrated Presence System (IPS)** prevents all movement of the truck and its mast if the operator is not seated, as well as providing a seatbelt warning light and parking brake alarm.





PlusCab panel cabins





Automotive style controls



Fingertip controls



Clearview overhead guard



RapidAccess features

Left:
From a simple but effective roof and front window option to a fully enclosed, heated structure, the **PlusCab** range of panel cabins offers the flexibility to meet your needs. **PlusCabs** can be removed in minutes whenever the weather is more suited to open-air operations.

- **PIN code start-up** with driver-specific settings is included as standard to prevent unauthorised or inappropriate use.
- **Heavy-duty clear-view mast** offers market-leading vision of fork tip and load, for faster cycle times and reduced damage.
- **Robust construction** has been designed and rigorously tested to ensure high stability, rigidity and protection.
- **Full belly guard construction** protects engine compartment from any ingress – including dirt, dust and water – for long engine life.
- **Rugged rear axle assembly** with metal bush mounts (instead of competitors' more fragile rubber mounts) is extremely durable.
- **New high-strength carriage** features six bearings, allowing for quicker load handling.
- **Long service interval** and choice of high-quality components, together with low-maintenance design, minimises downtime and cost of ownership.
- **Onboard diagnostics** and detailed fault diagnosis via computer or laptop connection alerts operators and service engineers to problems, speeds up servicing and prevents damage.
- **RapidAccess features** give quick and easy entry to all areas for checks and servicing.
- **Low noise level at operator's ear** just 78 dBA and low vibration from powertrain increase comfort and reduce fatigue.
- **Adjustable steering column** with memory function helps guarantee optimum driving position, every time.
- **Fully adjustable, full-suspension seat** with hip restraints and safety belt keeps driver comfortable through the longest of shifts.



GRENDIA ES

**Designed to perform...
built to last.**



GRENDIA EX






**diesel and LPG counterbalance
4 wheel pneumatic tyres**

4.0 – 5.5 tonnes

options include

- Oil-cooled wet disc brakes and FlexControl intelligent truck protection package
- Fingertip hydraulic controls
- PlusCab panel cabins

capacities

FD/FG40N	FD/FG45N	FD/FG50CN	FD/FG50N	FD/FG55N
				
4.0 t	4.5 t	5.0 t	5.0 t	5.5 t



Robust mast assembly



Hard-wearing, comfortable seats



Clear-view overhead guard



Automotive-style controls

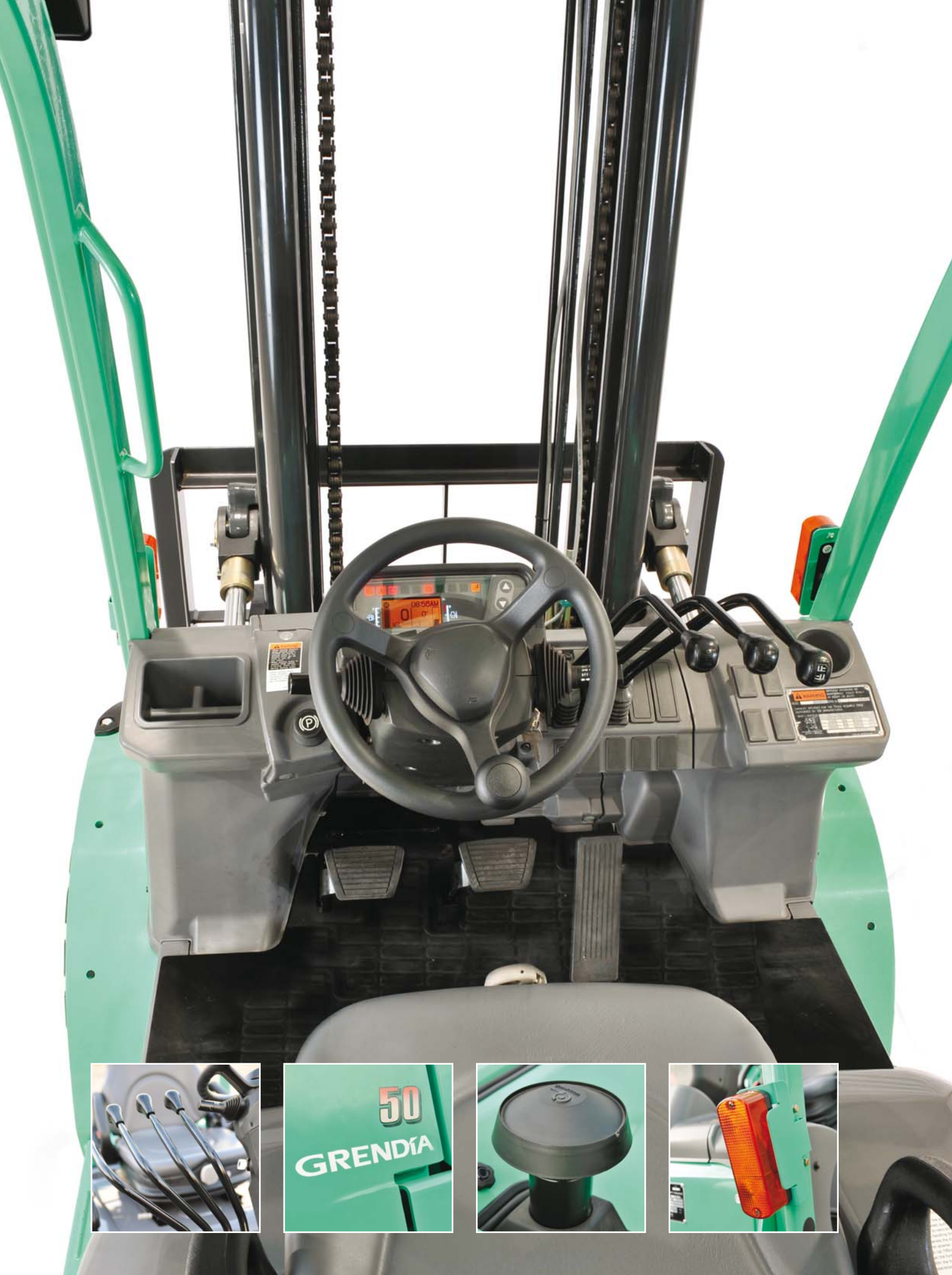
The effectiveness and legendary reliability of Mitsubishi 4 and 5 tonne IC engine forklift trucks has been proved over many years in the most demanding of applications. Generations of forklift truck owners have grown to love and depend upon these tough and highly capable machines. GRENDIA EX builds on those exceptional qualities

Environmentally friendly, and with the quality, reliability and investment value you would associate with diamonds, its name – meaning ‘Green Diamond’ – is truly deserved.

Low noise and vibration, a comfortable operating environment and the latest ErgoCentric developments in steering, hydraulic and other controls will all be welcomed by operators. Meanwhile, the IPS2 Integrated Presence System 2 and advanced brake systems will help ensure that they stay safe. And as always, every system and component has been designed and chosen to minimise downtime and maintenance costs.

- **Stylish, purposeful design** reflects this machine’s power to work productively, non-stop, whatever the conditions.
- **Industrially proved diesel engine** is ultra-reliable and durable, as well as smooth and economical, and easily complies with emission control regulations.
- **Advanced LPG engine** with 3-way catalytic converter delivers precisely controlled performance, high fuel economy and very low emissions.
- **Fully floating powertrain** with two-speed forward and one-speed reverse transmission maximises gradeability and travel speed, minimises noise and vibration, and uses maintenance-free gears instead of belts to lower running costs.







Front LED working lights



Latest LPG advances



Clear view through mast



Convenient handbrake button

- **Market-leading *ErgoCentric* design** results in easy on-off access, user-friendly controls, a practical layout and great all-round visibility – for maximum precision and productivity.
- **Strong, high-visibility mast** allows handling of heavy loads in tough environments with total confidence.
- **Wide range of high-quality masts and attachments** delivers precise compatibility and an ideal configuration for each application.
- **RapidAccess features** give unequalled ease of entry to all areas for checks and maintenance.
- **Integrated Presence System 2 (IPS2)** pioneered by Mitsubishi prevents all movement of the truck and its mast if the operator is not seated, as well as providing a seatbelt warning light and an automatic parking brake with alarm.
- **Optional fingertip hydraulic controls** with integrated, fully adjustable, high-comfort armrest (an award-winning concept) allows effortless precision.
- **Hydraulic control levers** are easy to reach and easy to use.
- **Adjustable transmission shift timing** increases versatility, for optimum performance in a wide variety of applications.
- **Large diameter drive axle shafts** are extremely durable and require little maintenance.
- **Long service interval** and long life of components reduces downtime and associated costs.
- **Low noise level at operator's ear** and low vibration from powertrain increases comfort and reduces fatigue.
- **Operator identification system** can be activated – if owner wishes – to prevent unauthorised use of the truck.
- **Clear and comprehensive instrument panel** with LCD display keeps operator and manager fully informed of, for example, speed, time, engine hours, service intervals and faults – to optimise productivity, truck life and safety.



GRENDA EX

Let us find you the perfect fit.

Confidence comes from knowing you have the right tool for the job. The same goes for your forklift truck.

Our diverse line-up of counterbalance and warehouse equipment makes sure you get the right truck every time – whatever the job.

Designed with your success in mind, our trucks deliver outstanding performance, innovations and safety.

They are ready to take on any job you give them, with a wide range of configurations so they meet your every need.

So let your local Mitsubishi dealer help you find the perfect fit today.

Diesel Counterbalance Trucks



Powerful, reliable and precise, our 1.5 to 16.0 tonne trucks are friendly to everyone: the environment, your operators and your fuel economy, too.

LPG Counterbalance Trucks



Advanced in every way, our range of pneumatic and cushion tyre models deliver high efficiency and low emissions – a winning combination – indoors or out.

Electric 3 Wheel Counterbalance Trucks



User-friendly, innovative and flexible, our three-wheel electric trucks deliver high performance – even in tight spaces and wet conditions.

Electric 4 Wheel Counterbalance Trucks



Our four-wheel electric trucks are exceptionally powerful and easily cope with the toughest tasks and longest shifts – wherever you need it to be.





See Mitsubishi in action
for yourself:



www.mitforklift.com/videos

Powered Pallet Trucks



These non-stop performers offer a huge range of transfer possibilities: from short shuttle work to applications which go the distance.



Stackers



Compact and easy to use, our versatile stackers ensure high productivity – whatever the setting.



Reach and Multi-Way Trucks



This versatile range of specialist trucks delivers the heights of productivity, reliability and manoeuvrability.



Order Pickers



Working at heights up to 11.5 metres, our order pickers deliver highly efficient performance at all levels.



you'll never work alone

Like any product bearing the Mitsubishi name, our materials handling equipment benefits from the huge resources and cutting-edge technology of one of the world's largest corporations.

So when we promise you **quality, reliability and value for money**, you know it's a guarantee we have the power to deliver.

Every model in our comprehensive, award-winning range of forklift trucks and warehouse equipment is built to a higher specification and is designed to keep on working for you... day after day... year after year... whatever the job... whatever the conditions.

As your local authorised dealer, we ensure that every truck stays in constant productive action.

Our commitment to your business is delivered through our extensive experience of a wide range of industries, our technical excellence, and through our dedication to customer care.

We are backed by our efficient channels to the entire Mitsubishi Forklift Trucks organisation at national and global levels. No matter where you are, we are close by – ready and willing to meet your needs quickly and efficiently.

Only Mitsubishi gives you this combination of global engineering excellence and outstanding local support... only Mitsubishi offers you such a quality product at such an affordable price... and only Mitsubishi places reliability as high as you do in its priorities.



Award-winning designs



The term 'Integrated Presence System' (IPS) is intended as a trading style, only to describe a number of design features on the Mitsubishi trucks to which IPS is applied. It does not imply that the truck can be driven without appropriate operator training and without due care and attention. The manufacturer (MCFE, Almere, the Netherlands) cannot accept any responsibility for any accidents or damage caused by incorrect or dangerous use of its equipment.

Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications or operating environment. Trucks may be shown with non-standard options. Specific performance requirements and locally available configurations should be discussed with your distributor of Mitsubishi forklift trucks. Mitsubishi follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

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