

SKELETAL RANGE



AUSTRALIAN MANUFACTURING

Krueger Transport Equipment continues to invest in and expand its manufacturing capacity due to the demand for quality Australian made trailers. Trusted by companies big and small, from national linehaul operators to modest family businesses, Krueger continues to refine and develop its capacity to design and build the most productive, hard wearing and long lasting trailers in the market.



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ENGINEERED TO BE AN ASSET

Krueger is Australia's leading semi-trailer manufacturer and has been supplying the nation's transport companies with innovative solutions for more than 40 years. Our expertise in technical development and manufacturing has resulted in the production of remarkably versatile trailers that deliver the best in operational performance.

Krueger is a family-owned and operated business boasting innovative freight trailer related products including curtain-siders, open decks, freezer vans and skeletal trailers featuring numerous OH&S initiatives in load restraint and curtain design.

We offer the largest range of skel designs in Australia delivering reliability, optimal ROI and greater payload to increase profits for fleets big and small. Our trailers are designed to work hard in any environment and are engineered to provide high levels of road transport flexibility and smarter fleet utility for freight operators.

Krueger has unrivalled experience with the high productivity skel design. Over the decades we have delivered countless variations of our skels to transport businesses Australia wide. To add value, Krueger trailers retain the best resale value in the market after many years of hard work.

WEIGHT SAVER[®]

The new Weight Saver range takes trailer payload potential to the next level, offering less tare weight and therefore more carrying capacity than ever before – without compromising on strength.

Our Weight Saver skels can be configured into a variety of sizes and combinations, even complex Performance-Based Standards (PBS) designs.



KRUEGER DESIGN ACHIEVEMENTS

1980 1985 1987 1990 1993 1995 1996 2000 2003 2008 2011 2014 2016 2017 2018

First to design 7.4-metre tandem skel with reduced slope to rear
Krueger developed a retractable tipping skel design – first prototype
The first retractable skel was built in October for FCL Job No. 991 (KT254)
40' drop deck fitted with air suspension for super B-double to carry 117 tonnes
40' low profile goose skel designed to suit 9' 6" high container
World first Super B-double designed and manufactured
Krueger's Road Friendly Suspension was introduced in December
Ultra light B-double skel carries 2x20' container maximum payload
Development of 48' ultra low neck skel design to carry 10' 6" containers
48' high payload skel fitted with rear steerable axle can achieve up to 33T
Quad-axle ultra low neck for 10' 6" high containers
PBS 36 pallet double drop B-double. PBS A-double Skel 2 x 40' containers
Refined PBS ultra low quad-axle, high payload trailer design
PBS A-double 2 x 48' skel to carry 9' 6" and 10' 6" high containers
Designed sliding two piece bull bar to suit 48' A-double skel.

STANDARD SINGLE TRAILER RANGE

- 40' low profile tri-axle with 12 twistlocks
- 40' ultra light weight low profile tri-axle with 12 twistlocks
- 40' ultra light weight low profile tri axle with 4 twist locks to suit 1 x 40' container
- 48' ultra low neck tri-axle with 12 twistlocks to suit 1 x 20' 2 x 20' 1 x 40' 1 x 48'
- 48' high payload ultra low neck with 12 twistlocks tri-axle with self steering axle with payload of up to 33-plus-tonnes
- 40' retractable low profile tri-axle with 12 twistlocks
- Option: The above trailer can be B-double rated / payload a full range of tare weight saving options
- 40' drop deck skel tri-axle with 4 twistlocks 1 x 20' with option to increase twistlock quantity plus full range of options for dangerous goods, air bag container lift and ringfeder

B-DOUBLE STANDARD RANGE

- A-trailer low profile tri-axle in 2 position to suit 1 x 20' container
- B-trailer 40' skel tri-axle with 12 twistlocks 1 x 20', 2 x 20', 1 x 40'
- A and B above are available in ultra light model with Hendrickson LDA suspension
- A rolling body tri-axle with 4 twistlocks 1 x 20' with option to increase twistlock quantity
- Rolling body A-trailer rear trailer option 40' skel — 40' retractable
- 30' — 30' skel B-double carries 1 x 20' on each trailer payload up to 28 tonnes plus per trailer subject to suspension brand and tyre size

A-DOUBLE LOW PROFILE PBS RANGE

- 2 x 40' low profile tri-axle skel with 12 twistlocks each trailer with metropolitan road train tandem dolly PBS approved
- 2 x 40' ultra light high payload tri-axle with Hendrickson LDA suspension plus metropolitan road train tandem dolly
- 2 x 48 ultra low neck tri-axle skel with 12 Twistlocks each trailer to 2 x 20' 4 x 20' 2 x 40' 2 x 48' container to suit 9' 6" / 10' 6" high container including metropolitan road train tandem dolly

SUPER B-DOUBLE QUAD AXLE RANGE

- A-trailer low profile quad axle with rear steerable axle, 12 twistlocks and JOST turntable
- B-trailer low profile quad-axle with rear steerable axle with 12 twistlocks

48' A-DOUBLE

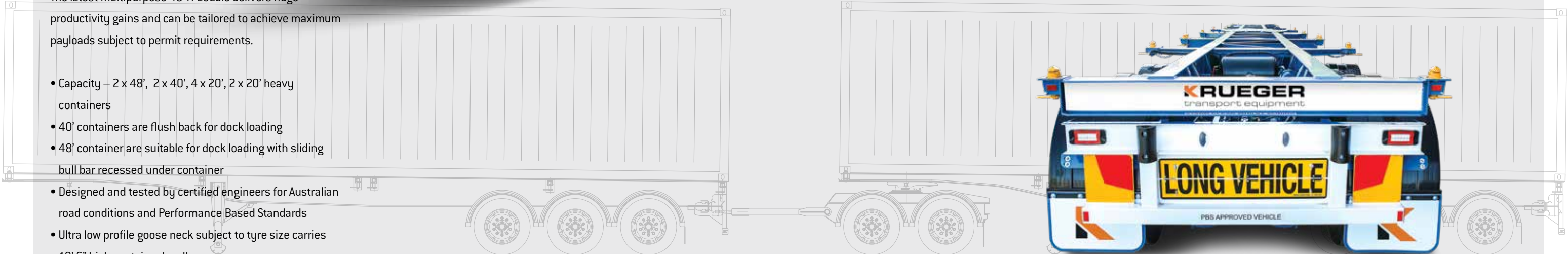
ULTRA LOW PROFILE



FEATURES

The latest multipurpose 48' A-double delivers huge productivity gains and can be tailored to achieve maximum payloads subject to permit requirements.

- Capacity – 2 x 48', 2 x 40', 4 x 20', 2 x 20' heavy containers
- 40' containers are flush back for dock loading
- 48' container are suitable for dock loading with sliding bull bar recessed under container
- Designed and tested by certified engineers for Australian road conditions and Performance Based Standards
- Ultra low profile goose neck subject to tyre size carries 10' 6" high container legally
- Large range of optional extras including low tare weight option



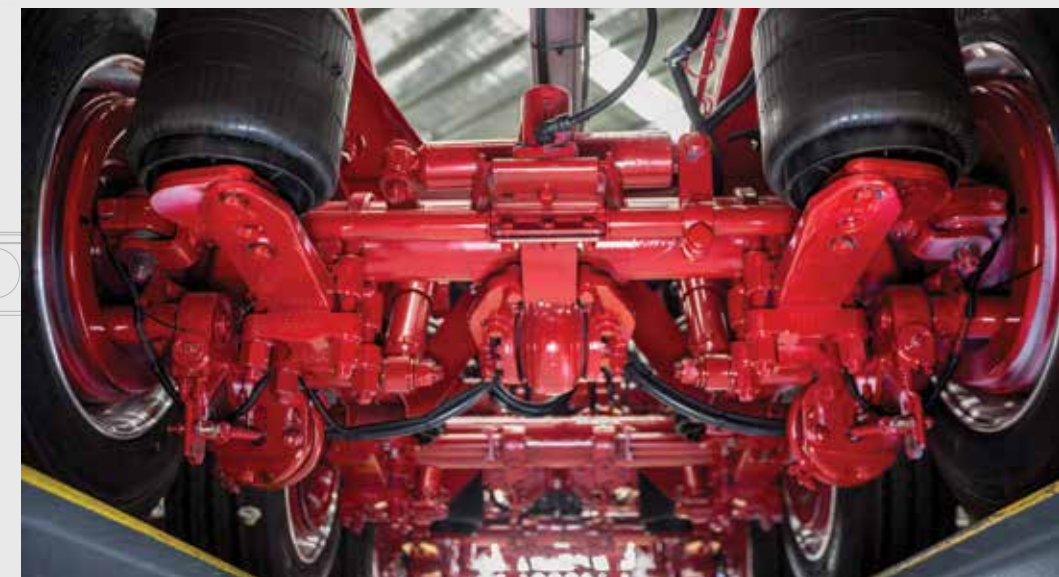
48' SKEL

HIGH PAYLOAD

FEATURES

The 48' Ultra Low Neck Skel was originally designed by Krueger in 2003 with 1,000-plus in service Australia wide followed with the high payload version designed in 2008 incorporating self steering axle technology.

- Ultra low goose neck specially designed to carry 10' 6" high containers legally (subject to tyre size and prime mover turn table height)
- Payload up to 33 tonnes or 48' container
- Container capacity 1 x 20' heavy 2 x 20' medium 1 x 48' heavy 1 x 40' heavy
- Sliding rear bull bar flush back when carrying 1 x 40' or 2 x 20', extendable to carry a 48' container
- Rear height adjustment to variety of dock heights
- Dock lock compatible bull bar available
- Ultra light model incorporates a range of light weight options such as Hendrickson LDA non-steerable model



SUPER B-DOUBLE

HIGH PRODUCTIVITY

FEATURES

Krueger Transport Equipment is the originator of the Super B-double with the first Super B-double quad-axle released in 1994 being the largest trailer of its kind in Australia with a payload of 117 tonnes, officially launched by the Victorian Government at the Port of Melbourne. The innovation and design developments have continued to deliver productivity and payload benefits to our clients ever since.

- Standard Super B suits 9' 6" high containers with industry turn table height
- Container capacity 2 x 40', 4 x 20', 2 x 20' and all heavy weight containers
- Available in ultra low model to carry 10' 6" high containers (subject to tyre size and prime mover turntable height)
- 12 twistlocks are standard on lead and rear trailers subject to customer requirements
- Gross mass on designated routes 77.5 tonnes
- Dock to rail model has 117 tonnes capacity with heavy duty construction
- Self steering axle is standard on the rear axle of both trailers



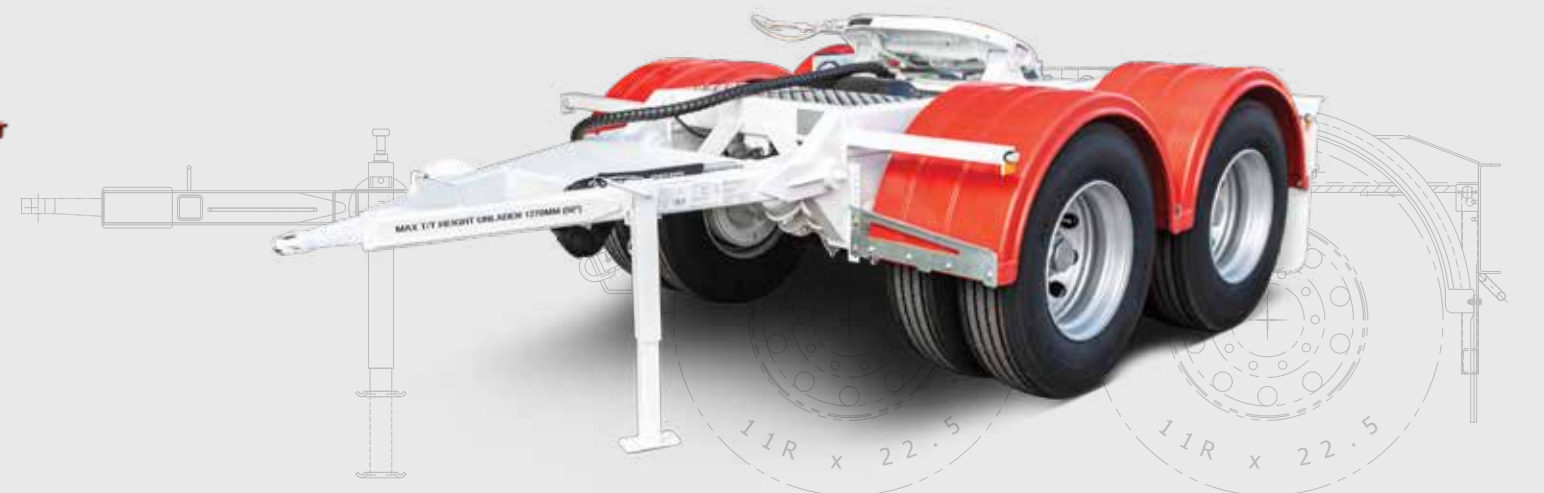
40' A-DOUBLE

HIGH PRODUCTIVITY

FEATURES

The latest multipurpose 40' A-double delivers huge productivity gains and can be tailored to achieve maximum payloads subject to permit requirements.

- Capacity – 2 x 40', 4 x 20', 2 x 20' heavy containers
- 40' container are flush back for dock loading
- 48' container are suitable for dock loading with sliding bull bar recessed under container
- Designed and tested by certified engineers for Australian road conditions and Performance Based Standards
- Ultra low goose neck subject to tyre size carries 10' 6" high containers legally
- Large range of optional extras including low tare weight option



RETRACTABLE SKEL

FLEXIBILITY

FEATURES

The retractable skel concept was designed by Krueger Transport Equipment in the mid 90s, and today it has become an industry standard Australia wide.

John Krueger witnessed first-hand the difficulty and safety issues industry faced as demand increased by freight forwarders to load and unload shipping containers flush with loading docks. Krueger embarked on designing a trailer that carried maximum payload when suspension was extended for on-road use that could slide suspension under the trailer chassis to achieve flush loading/unloading of containers.

- Multi purpose retractable 1 x 20' heavy weight 2 x 20' medium weight 1 x 40'
- Safety and reliability rank very highly when planning and reviewing design
- Built to last and deliver maximum return on investment by carefully selecting raw materials and 2 pack paint, oven braked for long lasting appearance
- 2019 will see the release of our latest model retractable skel



40' SKEL

RELIABILITY

FEATURES

The 40' skel sets the benchmark for Australian skel trailers. Renowned for its hard working and durable design, this model has thousands of units in operation Australia wide.

- 40' skel model range to suit 9' 6" high containers
- 40' skel low neck fitted with 12 twistlocks to suit 1 x 40', 2 x 20', 1 x 20' heavy container with RFS air bag, tri-axle suspension with Fuwa K-Hitch axle, JOST landing legs, plastic mudguard and EBS braking system
- 40' skel low neck with quad-axle Road Friendly Suspension (RFS) with self steering rear axle for high payload



40' LIGHTWEIGHT SKEL

HIGH PAYLOAD

FEATURES

The 40' skel sets the benchmark for Australian skel trailers. This model has thousands of units in operation Australia wide, featuring Hendrickson lightweight suspension with tare weight ranging from 3,400kg to 4,400kg.

- 40' lightweight skel model range to suit 9' 6" high containers
- 40' low neck lightweight skel fitted with 12 twistlocks and Hendrickson lightweight suspension
- 40' skel low neck ultra light fitted with 4 twistlocks to suit 1 x 40' container with Hendrickson lightweight suspension, JOST landing legs and plastic mudguards



B-DOUBLE

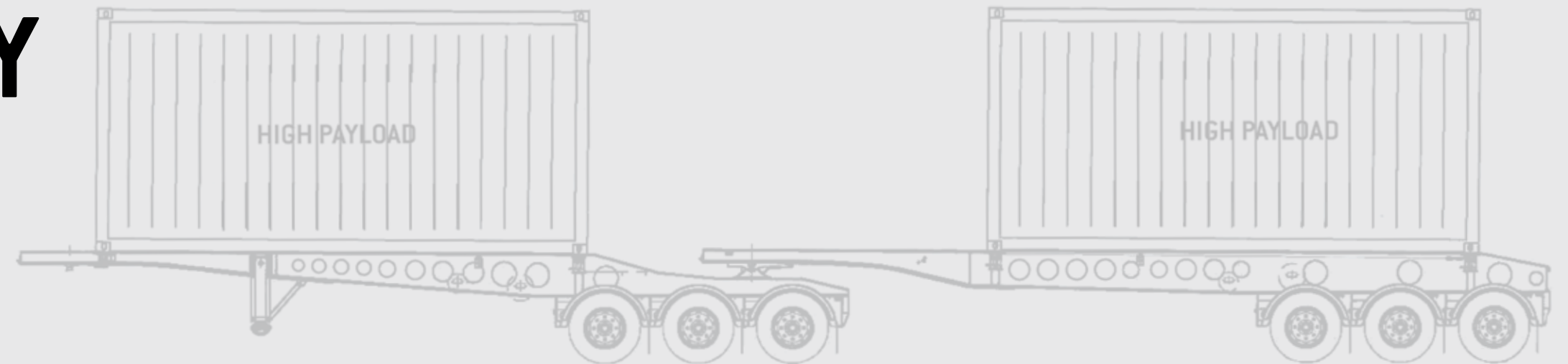
RELIABILITY

FEATURES

The Krueger B-double is the most recognised workhorse in the Australian trailer market.

With over 40 years of development and engineering, no other skel matches it for long-term reliability, structural integrity and long service life. This trailer has been the hard working foundation for many leading freight operators for decades.

- B-double skel with Road Friendly Suspension (RFS) fitted with Fuwa K-Hitch drum brake axle
- Ultra light model with Hendrickson LDA suspension and axle to achieve higher payloads
- Shipping container capacity 3 x 20', 2 x 20' heavy, 1 x 40' container on rear trailer
- 12 twistlocks on rear trailer or less if required. A-trailer can have 2 positions for 20' containers to suit payload requirements



ROLL BACK

FLEXIBILITY

FEATURES

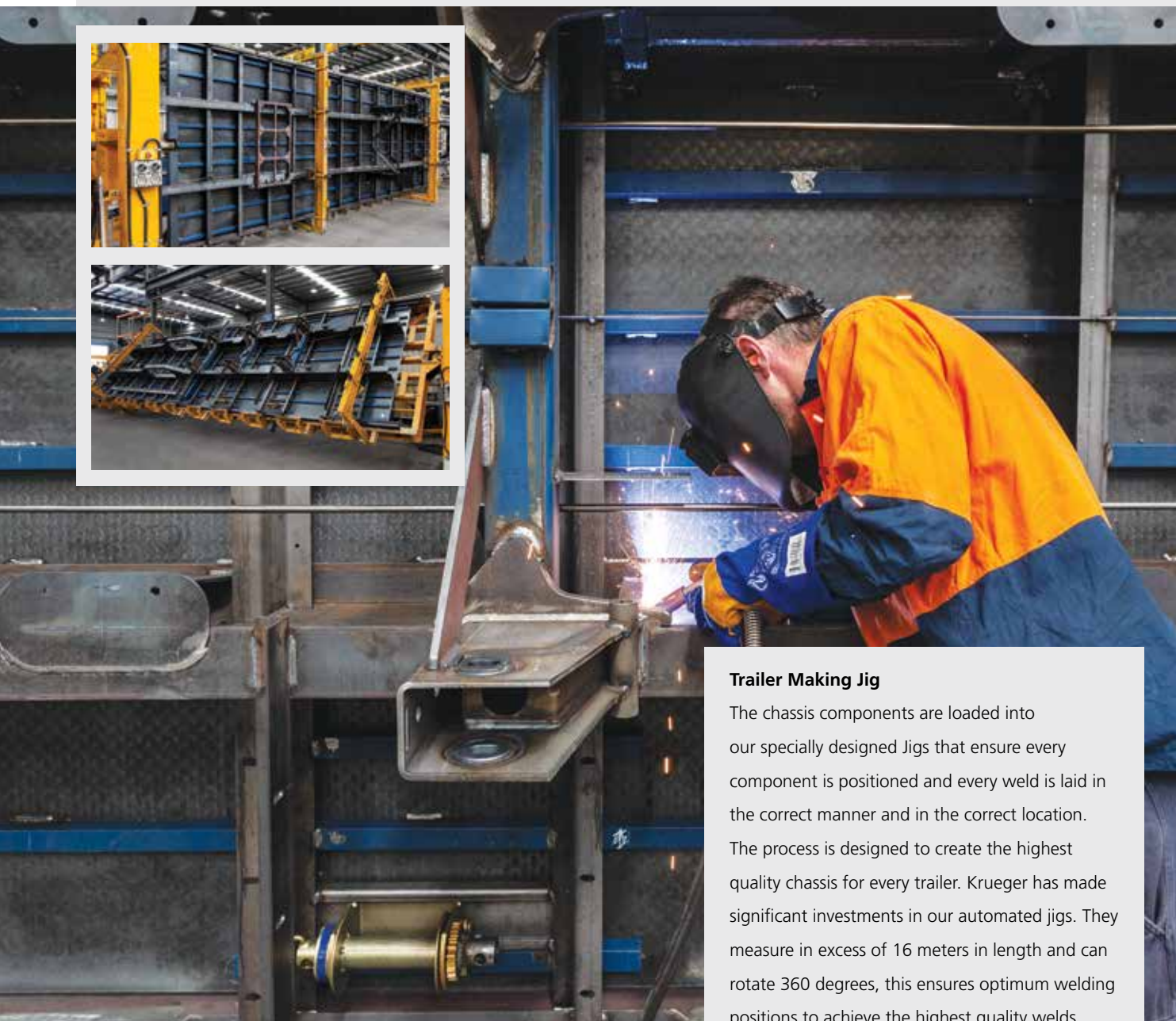
The roll back trailer was designed to give the customer greater flexibility and safety by rolling a fully loaded container of 20-plus tonnes to unload or load via a dock.

- B-double set design comprises an A-trailer rollback and B-double rear retractable giving the customer the option to disconnect the A-trailer when reaching their destination making it possible to dock and load from both the A-trailer and B-trailer
- B-trailer retractable has been designed to retract or extend with a fully loaded 20' container
- A-trailer roll back includes heavy duty power pack, supported by two heavy duty batteries with a number of charging options such as solar panel or Anderson plug. Batteries are charged by the trailer lighting system.
- Container position on the B-trailer can be adjusted with twistlocks to suit 1 x 40', 2 x 20' and 1 x 20' containers
- Payload capacity can be tailored to suit your needs; our engineering staff strive to maximise payload through container positioning
- Remote control pendant allows the operator to stand clear with full vision whilst rolling the body forward or backward. Remote is stored in a waterproof lockable box when not in use.



MANUFACTURING PROCESS

Krueger relies on high-tech equipment and specifies the best Australian-made high tensile steel to manufacture our trailer chassis. Our computer controlled steel cutting equipment, our auto main rail welding machine and our rotary jigs ensure we deliver perfect welds for maximum durability every time, whilst providing consistent quality workmanship.

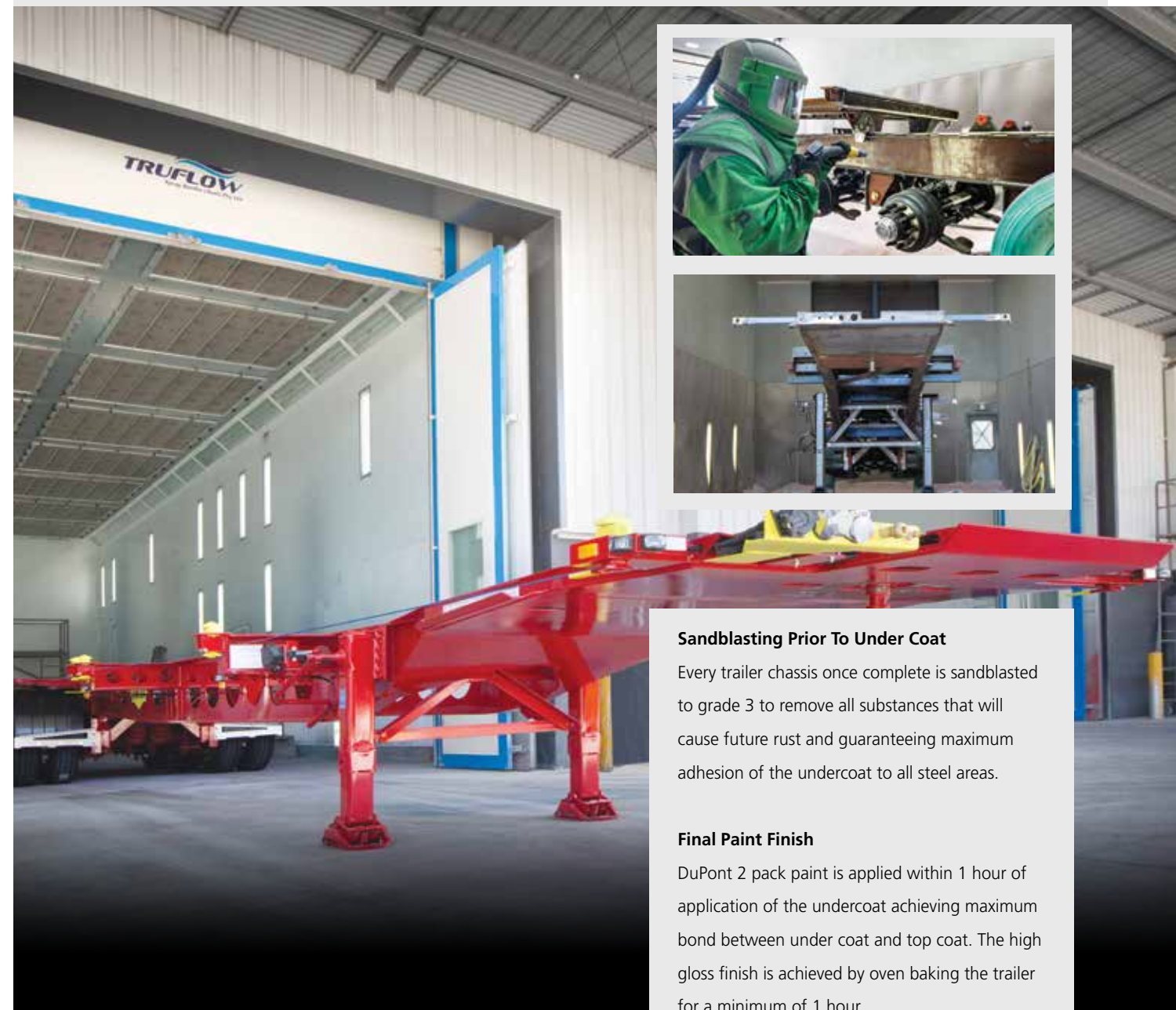


Trailer Making Jig

The chassis components are loaded into our specially designed Jigs that ensure every component is positioned and every weld is laid in the correct manner and in the correct location. The process is designed to create the highest quality chassis for every trailer. Krueger has made significant investments in our automated jigs. They measure in excess of 16 meters in length and can rotate 360 degrees, this ensures optimum welding positions to achieve the highest quality welds.

FINAL FINISH

At the final finish stage of the trailer building process, the entire steel chassis is sandblasted, undercoated and painted. Krueger goes the extra mile when it comes to achieving the best results, utilising three environmentally-friendly painting booths, which are 60' in length to ensure the biggest trailers are painted and fully sealed.



Sandblasting Prior To Under Coat

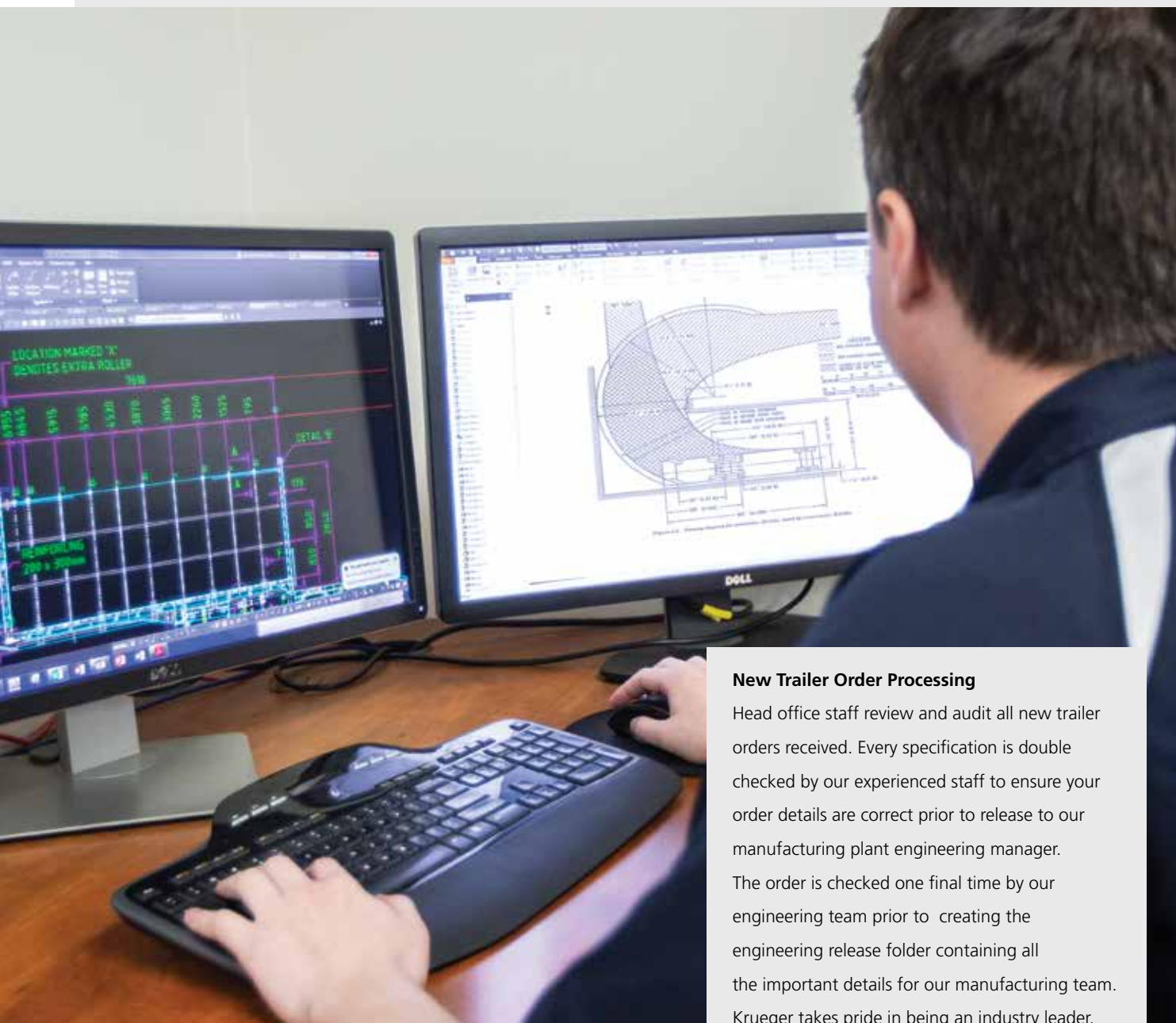
Every trailer chassis once complete is sandblasted to grade 3 to remove all substances that will cause future rust and guaranteeing maximum adhesion of the undercoat to all steel areas.

Final Paint Finish

DuPont 2 pack paint is applied within 1 hour of application of the undercoat achieving maximum bond between under coat and top coat. The high gloss finish is achieved by oven baking the trailer for a minimum of 1 hour.

ENGINEERING PROCESS

Our engineers comprehensively run through an extensive checklist in order to maintain the quality of every order, harnessing over four decades of technical expertise and continuous improvement. Regular training and development ensure our engineers and draftspersons are utilising state of the art techniques to drive ongoing trailer innovation.

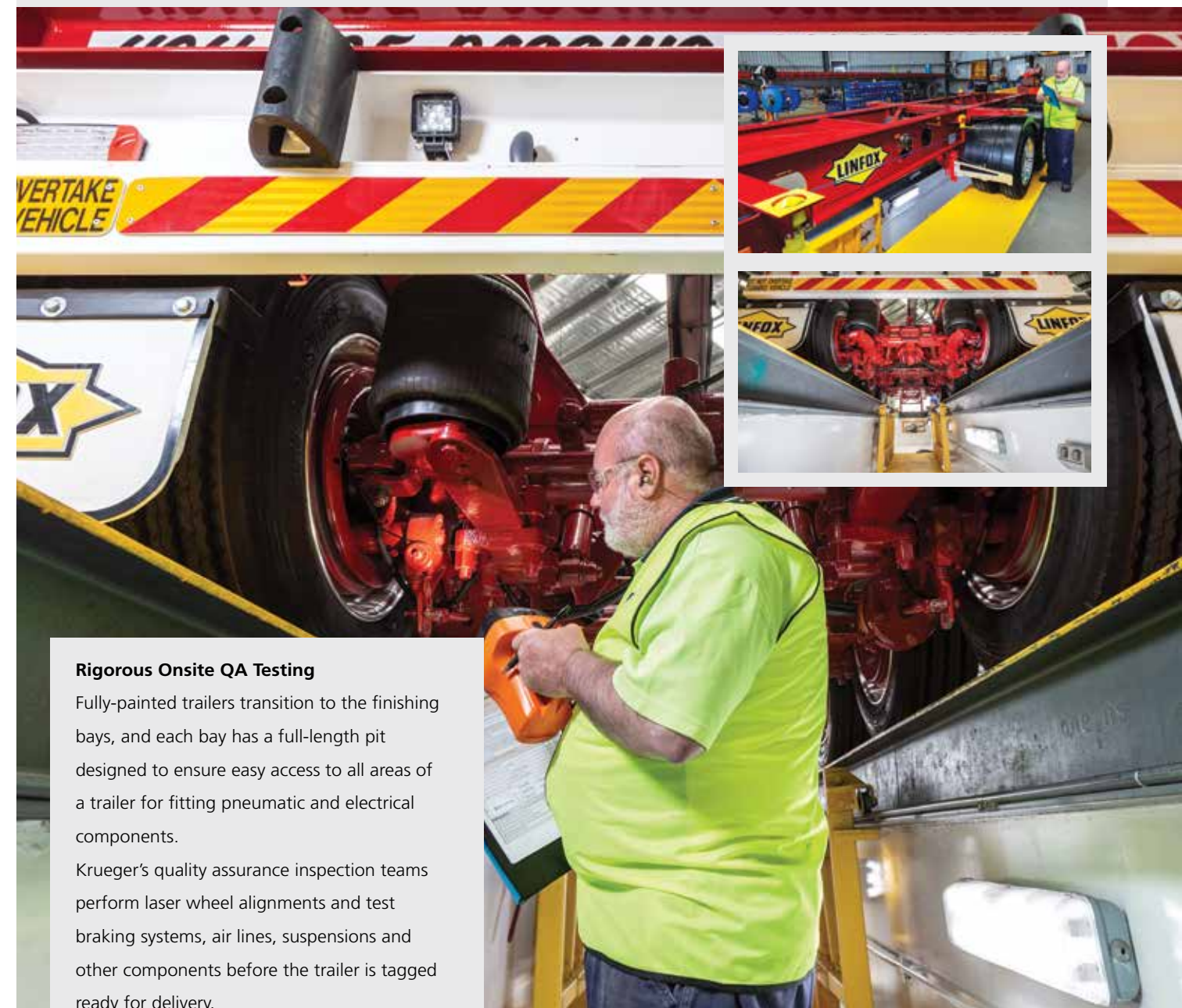


New Trailer Order Processing

Head office staff review and audit all new trailer orders received. Every specification is double checked by our experienced staff to ensure your order details are correct prior to release to our manufacturing plant engineering manager. The order is checked one final time by our engineering team prior to creating the engineering release folder containing all the important details for our manufacturing team. Krueger takes pride in being an industry leader.

QUALITY ASSURANCE

Krueger has a keen eye for detail when it comes to inspecting the final product. Quality assurance teams are tasked with checking every detail. To bolster work place safety practices and productivity, Krueger has invested millions of dollars in everything from overhead cranes, scissor lifts and fork lifts to other critical facility infrastructure essentials.



Rigorous Onsite QA Testing

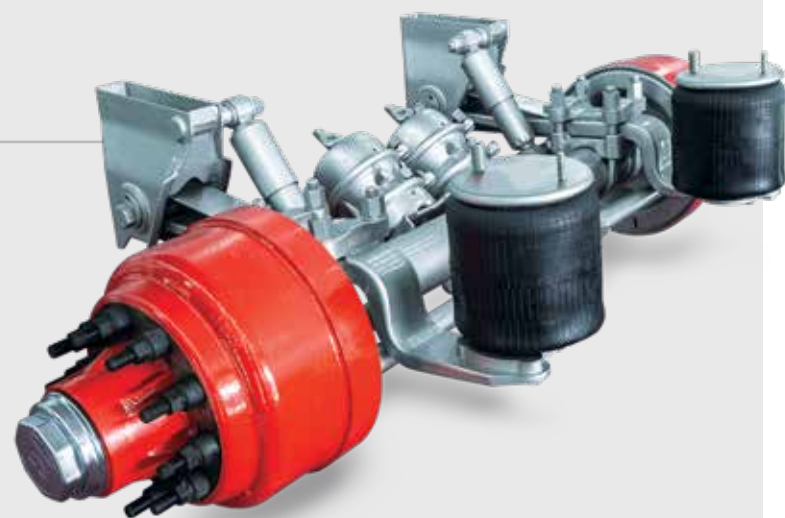
Fully-painted trailers transition to the finishing bays, and each bay has a full-length pit designed to ensure easy access to all areas of a trailer for fitting pneumatic and electrical components. Krueger's quality assurance inspection teams perform laser wheel alignments and test braking systems, air lines, suspensions and other components before the trailer is tagged ready for delivery.

ROAD FRIENDLY SUSPENSION

For more than two decades, Krueger Transport Equipment has continuously developed the company-owned Road Friendly Suspension to help fleets better manage Australia's harsh operating conditions with gear that allows for optimal tare weight and improved equipment longevity. This suspension is backed by a comprehensive nationwide after sales support network.

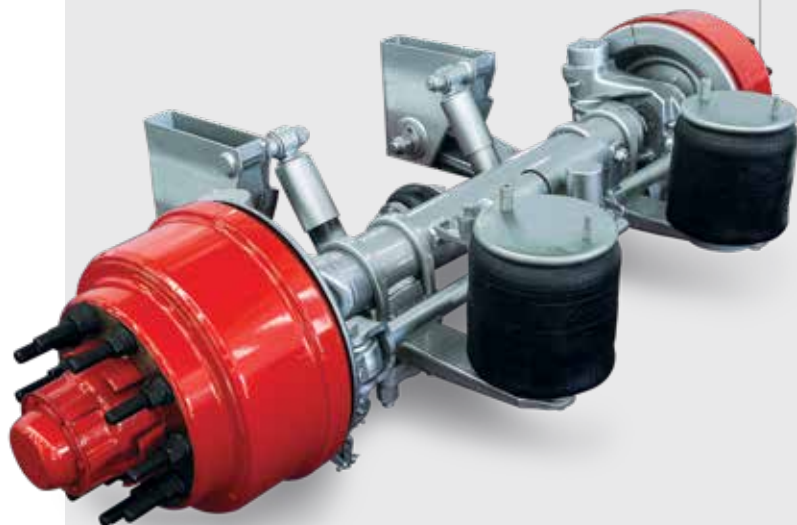
DRUM BRAKE

The drum brake Road Friendly Suspension option features a 20-inch general purpose axle in a parallel bearing combination with quick change brake shoes. The drum is enclosed in a 10-stud hub.



STEERABLE AXLE

Krueger's steerable axle configuration is optimised for vehicle manoeuvrability without compromising tare weight or equipment durability. The range includes four 20-inch self steering axles including quick change brake shoes.



Features List

- All hangers with wheel alignment feature
- Parabolic spring manufactured by industry leader
- Koni shock absorbers
- Goodyear air bags
- Pivot bolts made from high grade steel, drop forged for maximum strength
- Saddle castings are machine finished
- Welding policies and procedures developed by our certified engineer
- Leak proof air fittings made by Raufoss in Germany

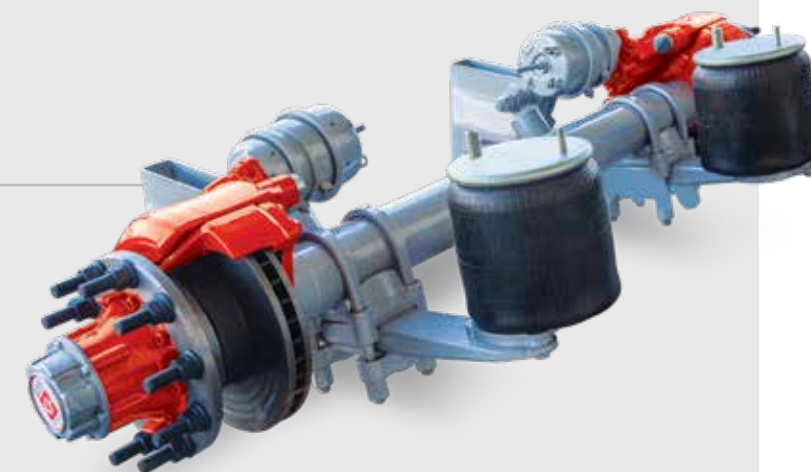
ROAD FRIENDLY SUSPENSION OPTIONS

- 9,000kg capacity axle for highway use
- 11,000kg heavy duty axle for road train applications
- Large diameter 360 air bag
- Shock absorber catch straps
- Axle lift mount on front hanger
- Raise lower valve and auto return to ride height
- RFS easy read weigh gauge system



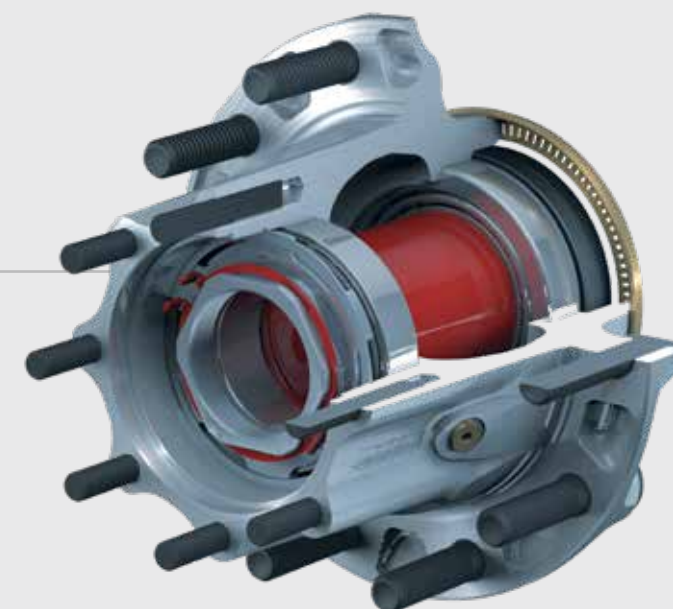
DISC BRAKE AXLE

This disc brake axle configuration is a lighter-weight option which is specified for specific transport applications, featuring three 20-inch disc brakes and the latest Road Friendly Suspension innovations.



1 MILLION KM WARRANTY

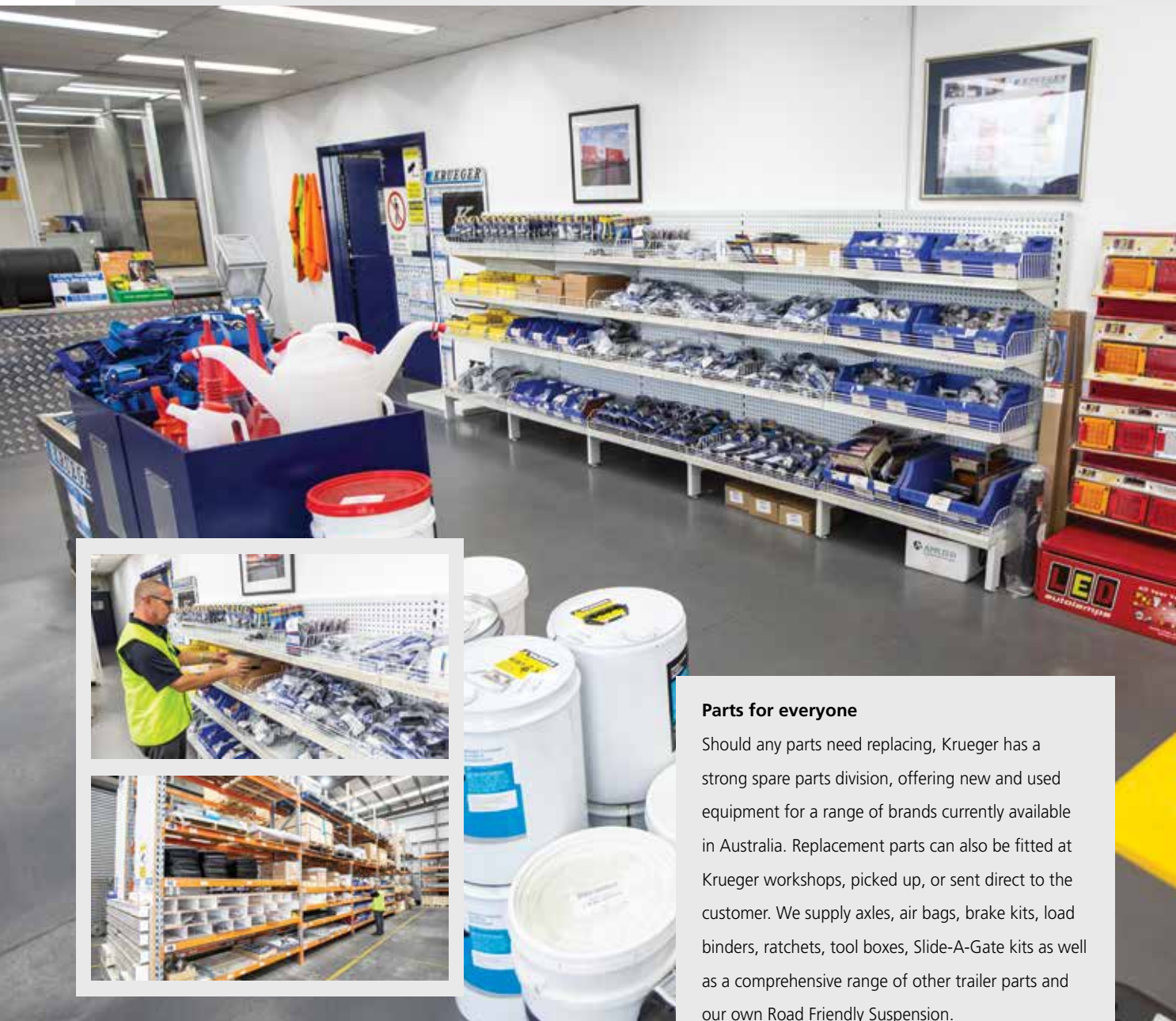
Krueger designed the 1 million kilometre warranty Road Friendly Suspension model to enhance linehaul fleet requirements, emphasising reliability and long-term durability. It is available with steel or alloy hubs. The hub has preset bearings, synthetic semi-fluid lubricant requiring reduced service frequency.



SPARE PARTS

NOW ONLINE!

Krueger provides full technical service and parts support via a dedicated Australia-wide network. We are now more committed than ever to strengthening customer relationships through continuous innovation and excellent customer service. For everything from axles to brake systems, Krueger has it covered.



Parts for everyone

Should any parts need replacing, Krueger has a strong spare parts division, offering new and used equipment for a range of brands currently available in Australia. Replacement parts can also be fitted at Krueger workshops, picked up, or sent direct to the customer. We supply axles, air bags, brake kits, load binders, ratchets, tool boxes, Slide-A-Gate kits as well as a comprehensive range of other trailer parts and our own Road Friendly Suspension.

KRUEGER.COM.AU

TRAILER RENTALS



Krueger has one of the largest ranges of rental trailers available in Australia, boasting OH&S-compliant equipment backed by our company-owned spare parts and service divisions. Advantage Trailer Rentals has branches across the country, offering a wide range of quality equipment including skels, flat tops, curtain-siders, dry vans and refrigerated vans in straight and drop deck configurations.



Advantage Trailer Rentals

ATR rental trailers are designed to easily integrate into existing customer fleets Australia wide. Rental trailers are available on a short or long term basis. ATR also offers contract hire trailers in your company's colours or even rent to buy options.

EXAMPLE SPECIFICATIONS AVAILABLE:

Dangerous goods (DG) rated – rear door options – load restraint gate and curtain options – ringfeder – mezz deck options on A and B trailers – load binders.



KRUEGER
transport equipment

SERVICE AND NATIONAL SUPPORT

Krueger offers a complete national service, including fixed priced servicing, spare parts, refurbishment options, smash and damage repairs, conversions and chassis/body modifications for all brands of trailers. With workshops Australia wide, onsite and emergency vehicle support on standby. Our friendly passionate staff lead by our committed management team are here to serve our customers.



All About Service

Regular trailer servicing not only helps to minimise costly downtime due to breakdowns, it can also help to ensure equipment is performing at its best. Trailer maintenance services offered by Krueger include axle alignment, axle replacement, suspension repairs, straightening and re-cambering of axles, bearing replacement, brake adjustment and relining, laser wheel alignment and more.



OUTSTANDING RESALE VALUE

Krueger trailers have unprecedented resale value. They are designed and manufactured to outlast other imported and locally made equipment. With a commitment to continuous improvement, we source the best Australian steel and engage in superior engineering practices – finished with our sandblast and baked oven finish – to deliver long-term return on investment.



// We have built strong personal connections with everyone in the Krueger team, which is a big factor in our long-term purchasing of the trailers. The product is first-rate, long lasting, has great resale value and nothing is too much trouble for Krueger in terms of after-sales support. Krueger trailers are a great investment. //

DEAN WRIGLEY
FREIGHT ASSIST AUSTRALIA DIRECTOR

Unmatched Resale

Our trailer resale value is simply unmatched by other manufacturers. Our equipment is built tough, maintaining structural integrity and immaculate presentation for decades. By investing in Krueger's trailers, asset owners benefit from equipment lifecycles of over 20 years, and can expect to make a return on the original purchase – in some cases over 70 per cent of the original purchase price.

Resale Statistics

B-Double Skel

Bought 2004 for \$75,190.
Sold 2019 for \$60,000. 80% Resale Value.

A-Skel

Bought 2004 for 36,726.
Sold 2019 for \$25,000. 68% Resale Value.

Retractable Skel

Bought 2005 for \$46,500.
Sold 2019 for \$30,000. 65% Resale Value.

OPTIONAL EXTRAS

CHASSIS OPTIONS

- Twistlock quantity can be tailored to requirements and pay load target
- Road Train Coupling including air and electrical fittings
- Side loader support pads positioned to suit requirements
- Full width walkway at rear with anti-slip material
- Side underrun protection fixed or hinged including reflective tape
- Shipping lashing lugs positioned to suit requirements

AXLE AND SUSPENSION OPTIONS

- Hendrickson light weight LDA suspension and axles
- Disk brakes
- Heavy duty axles
- Self steering axles
- Tandem, Tri or Quad axle (Self steering rear axle) configuration
- Lift axles
- 1 million kilometre warranty axle with pre set bearings and synthetic, semi fluid lubricant

SUSPENSION FUNCTION OPTIONS

- Manual raise / lower valve with automatic return to ride height function
- EBS iLevel system with manual raise / lower and automatic return to ride height function
- EBS Smartboard with tare weight and odometer read out
- Weigh gauge
- Air bag dump valve
- Spring brake release valve

TYRE AND RIM OPTIONS

- Polished alloy rims
- Steel rims
- Tyre sizes from 255/70R to 275/70R
- Tyre brands – Bridgestone, Goodyear, Dunlop, O-Green

DANGEROUS GOODS OPTIONS

- Dangerous goods wiring loom
- Dangerous goods flip over signage
- Fire extinguishes dry and chemical

ROAD TRAIN DOLLY OPTIONS

- Metropolitan tandem dolly for A Double use with plastic mudguards
- Highway heavy duty dolly for A Double use with rubber mat guard
- 2” to 3” kingpin for metropolitan use
- 3” to 4” heavy duty kingpin for highway use

SIGNAGE OPTIONS

- Corporate logos
- Fleet numbers
- Safety stickers

GENERAL ACCESSORY OPTIONS

- Tool boxes
- Water tanks
- Tyre carriers
- Dock interlock bull bars
- Chrome hub covers
- Chrome wheel nut covers
- Mechanical and digital hub meters
- Reversing light or buzzer

PRE DELIVERY OPTIONS

- Local or interstate
- Single or stacked
- Registration
- 5 year warranty pack including the 1 million kilometre bearing axle and RFS suspension



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Head Office
[Sales, Service & Rentals]
Derrimut
Tel: (03) 9366 2133

NSW
[Sales, Service & Rentals]
Wetherill Park
Tel: (02) 9757 4944

QLD
[Sales, Service & Rentals]
Salisbury
Tel: (07) 3275 1011

SA
[Sales]
Adelaide
Tel: 0400 962 106

WA
[Sales]
Perth
Tel: 0400 962 106

For enquiries contact Krueger Ph: (03) 8331 6100