

# Quiet equipment and vehicles: making the right choice



# Preface

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This document has been created by Transport for London (TfL) and the Retiming Deliveries Consortium to help raise awareness on the range of equipment and vehicles designed to reduce noise. Using quieter equipment can help you operate sensitively and enable you to move delivery and servicing activity away from the busiest times of day. This catalogue will allow you to make informed decisions on purchasing quieter vehicles and equipment.

Please note that all information provided is correct at the time of publication.

TfL does not endorse, promote or guarantee compliance to standards of any specific product listed in this guide. This document has been created solely to increase awareness on the type of and availability of products. For further information on any product, please contact the manufacturer directly.

This information will be updated for accuracy and when new products come to market. If you produce equipment or materials to help make deliveries quieter, anywhere along the supply chain, and would like to be included, please contact us at [enquiries@fors-online.org.uk](mailto:enquiries@fors-online.org.uk).

The latest version of this document can be accessed at [www.tfl.gov.uk/retime](http://www.tfl.gov.uk/retime).

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# How to use

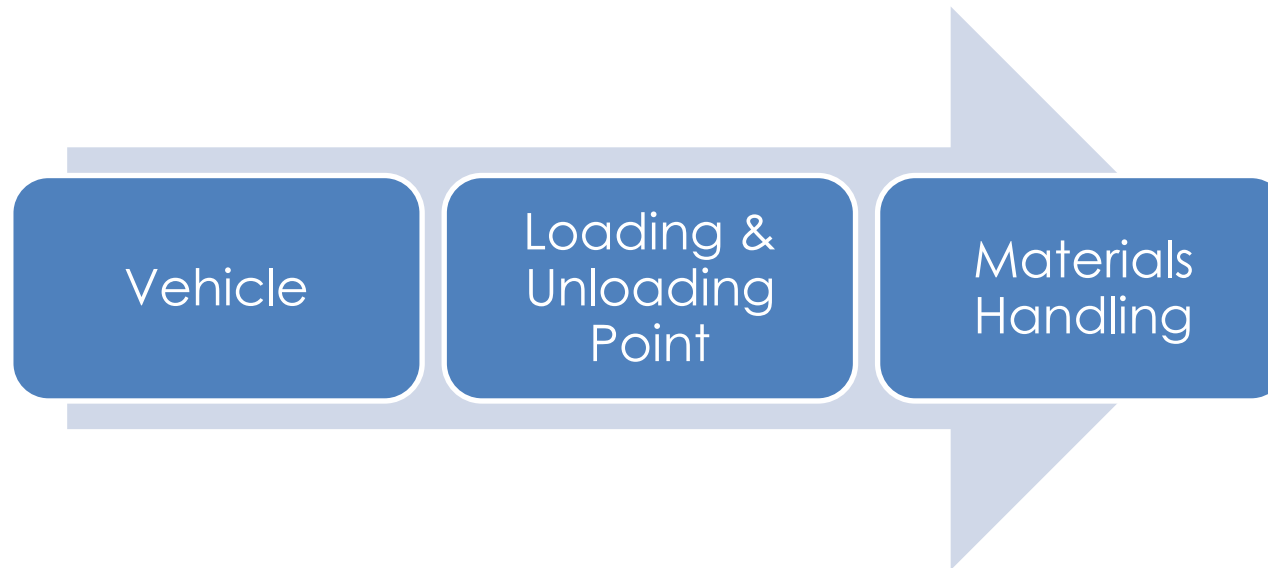
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Noise can be reduced across the supply chain, particularly on the vehicle, during handling and at the loading/unloading point.

Use the links at the foot of each page to navigate and view the quiet technologies for each category.

\*Pricing available directly from manufacturer

(P) The PIEK certification scheme sets out standards for vehicles and equipment sold in the Netherlands for reducing noise emissions during night time loading and unloading. Although not essential in the UK, the standard has been adopted in several countries in Europe. For more information go to <http://www.piek-international.com/>



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# Quiet Technologies related to the delivery Vehicle

**Vehicles** There are some delivery vehicles which have been designed or constructed with low emissions in mind and engine noise is kept to a minimum using alternative fuels or electric engines. Acoustic covers and absorbing materials can also be used to reduce the powertrain noise level.

## Quiet Vehicles (3.5 to 7.5 tonnes)



Product Name	Guide Price	Availability	More Information
Iveco Daily Electric (P)	*	GB	<a href="http://iveco.com">iveco.com</a>
Mercedes Vito e-Cell	*	GB	<a href="http://mercedes-benz.com">mercedes-benz.com</a>
	*	GB	<a href="http://batteryvehiclesociety.org.uk">batteryvehiclesociety.org.uk</a>
Aftermarket – Diesel to Battery Electric Conversions	*	GB	<a href="http://drive-bd.com">drive-bd.com</a>
	*	GB	<a href="http://emoss.biz">emoss.biz</a>
	*	GB	<a href="http://tevva.com">tevva.com</a>
Iveco Daily CNG	*	GB	<a href="http://iveco.com">iveco.com</a>
Mercedes Sprinter NGT	*	GB	<a href="http://mercedes-benz.co.uk">mercedes-benz.co.uk</a>

## Quiet Vehicles (7.5 to 18 tonnes)



Product Name	Guide Price	Availability	More Information
Mercedes FUSO eCanter	*	GB	<a href="http://ecanter.com">ecanter.com</a>
ISUZU Gafter	*	GB	<a href="http://paneltex.co.uk">paneltex.co.uk</a>
Aftermarket – Diesel to Battery Electric Conversion	*	GB	<a href="http://emoss.biz">emoss.biz</a>
Iveco Eurocargo Hybrid	*	GB	<a href="http://iveco.com">iveco.com</a>
Iveco Eurocargo CNG	*	GB	<a href="http://iveco.com">iveco.com</a>
DAF LF Silent (P)	*	GB	<a href="http://daf.co.uk">daf.co.uk</a>

## Quiet Vehicles (18 to 32 tonnes)



Product Name	Guide Price	Availability	More Information
E-Force Iveco Stralis Electric	*	GB	<a href="http://eforce.ch">eforce.ch</a>
Mercedes Urban e-Truck	*	GB	<a href="http://daimler.com">daimler.com</a>
Aftermarket – Diesel to Battery Electric Conversion	*	GB	<a href="http://emoss.biz">emoss.biz</a>
Iveco Stralis	*	GB	<a href="http://iveco.com">iveco.com</a>
Mercedes Econic NGT	*	GB	<a href="http://mercedes-benz.co.uk">mercedes-benz.co.uk</a>
Scania P Series/G Series CNG (P)	*	GB	<a href="http://scania.com">scania.com</a>
Volvo FE CNG	*	GB	<a href="http://volvotrucks.co.uk">volvotrucks.co.uk</a>
DAF CF Silent (P)	*	GB	<a href="http://daf.co.uk">daf.co.uk</a>
Mercedes-Benz Urban eTruck	*	From 2020	<a href="http://daimler.com">daimler.com</a>

## Quiet Vehicles (32 to 44 tonnes)



Product Name	Guide Price	Availability	More Information
Iveco New Stralis NP	*	GB	<a href="http://iveco.com">iveco.com</a>
DAF XF Silent (P)	*	GB	<a href="http://daf.co.uk">daf.co.uk</a>
BMW/SCHERM - Electric Truck	*	Concept	<a href="http://ukhaulier.co.uk">ukhaulier.co.uk</a>

**Trailers** Standard trailers can be adapted to feature a range of quiet technologies including quiet refrigeration units and tail lifts.

## Quiet Trailers



Body Builder Name	Guide Price	Availability	More Information
Gray-Adams	*	GB	<a href="http://gray-adams.com">gray-adams.com</a>
DonBur	*	GB	<a href="http://donbur.co.uk">donbur.co.uk</a>
Transdek	*	GB	<a href="http://transdek.com">transdek.com</a>
Cargobull	*	GB	<a href="http://cargobull.com">cargobull.com</a>
Alloy Bodies	*	GB	<a href="http://alloybodies.co.uk">alloybodies.co.uk</a>
Montracon	*	GB	<a href="http://montracon.com">montracon.com</a>
SDC	*	GB	<a href="http://sdctrailers.com">sdctrailers.com</a>

### Quiet Tipper



**Body Builder Name**  
Charltons

**Guide Price**  
\*

**Availability**  
GB

**More information**  
[charltonbodies.co.uk](http://charltonbodies.co.uk)

**Engine Equipment** Acoustic covers and absorbing materials are also used to reduce the powertrain noise level but only OEM approved equipment should be used.

### Engine Encapsulation



**Product Name**  
Mercedes M0U Noise Encapsulation (option for the 2016 range)

**Guide Price**  
£1000

**Availability**  
GB

**More Information**  
[mercedes-benz.co.uk](http://mercedes-benz.co.uk)

**Tyres** During transit, interaction of the tyres with the road can cause a significant noise nuisance. Tyres designed to minimise noise can help to mitigate this impact.

### Quiet Tyres



**Product Name**  
Goodyear: Fuelmax S  
Continental: Conti EcoPlus HS3  
Semperit M350  
Bridgestone: ECO HT1  
Michelin: X Multi Z & D 17.5" / 19.5"  
Nokian NTR-32

**Guide Price**  
£400-£550

**Availability**  
GB  
GB  
GB  
GB  
GB  
EU

**More Information**  
[goodyear.eu](http://goodyear.eu)  
[continental-tyres.co.uk](http://continental-tyres.co.uk)  
[semperit.com](http://semperit.com)  
[bridgestone.co.uk](http://bridgestone.co.uk)  
[trucks.michelin.co.uk](http://trucks.michelin.co.uk)  
[nokiantyres.studio.crasman.fi](http://nokiantyres.studio.crasman.fi)

**Alarms** Standard reversing alarms have the potential to cause annoyance but some mitigate the noise, by changing its character or reducing the volume.

### White Noise



**Product Name**  
Brigade: BBS-tek White Sound  
Vision Alert: EA5050 Multi-frequency reversing alarm  
Grote: 73310 Multi-frequency back up alarm

**Guide Price**  
£40-£110

**Availability**  
GB  
GB  
DE

**More Information**  
[brigade-electronics.com](http://brigade-electronics.com)  
[beaconsandlightbars.co.uk](http://beaconsandlightbars.co.uk)  
[grote.com](http://grote.com)

### Adjustable Volume



**Product Name**  
Vision Techniques: AVR92 Dual Volume Reverse Alarm  
Amber-Valley: AVR90SA Self Adjusting  
Construction Solutions: Preco 1020 Self - Adjusting Alarm

**Guide Price**  
\*  
\*  
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**Availability**  
GB  
GB  
US

**More Information**  
[vtstore.co.uk](http://vtstore.co.uk)  
[amber-valley.com](http://amber-valley.com)  
[cpwrconstructionsolutions.org](http://cpwrconstructionsolutions.org)

### Night Silent



**Product Name**  
Dun-bri: Night Silent 'Switchblade' Reverse Alarm  
Brigade: BC-01-NS Nightshift Speaking Alarm  
Vision Techniques: AVR81 Reverse Alarm Inhibitor Kits

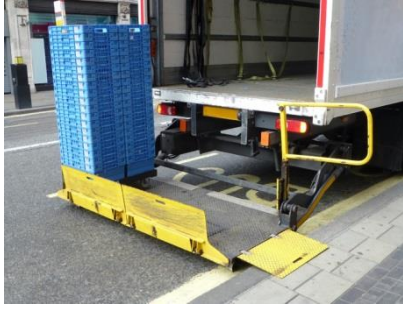
**Guide Price**  
£10-£35

**Availability**  
GB  
GB  
GB

**More Information**  
[dun-bri.com](http://dun-bri.com)  
[brigade-electronics.com](http://brigade-electronics.com)  
[vision-techniques.com](http://vision-techniques.com)

**Tail Lifts** In combination with good driver behaviour, quieter pallets, dollies and roll cages; tail lifts have the potential to minimize the noisiest aspects of a delivery.

**Quiet Tail Lift**



Product Name	Guide Price	Availability	More Information
Anteo: F3 CLP 10-15-20-30 (P)	*	GB	<a href="http://anteo.com">anteo.com</a>
Zepro/Cargotec: ZHD 3000	*	GB	<a href="http://zepro.co.uk">zepro.co.uk</a>
Dhollandia: Various (e.g. DH-SKS Ultra Low Noise retractable with automated side/back flaps (P))	*	GB	<a href="http://dhollandia.co.uk">dhollandia.co.uk</a>
Bär Cargolift: Various	*	GB	<a href="http://baer-corgolift.com">baer-corgolift.com</a>
Palfinger: MBB C 1000 E/1000 S (P)	*	GB	<a href="http://palfinger.com">palfinger.com</a>

**Box and Trailer Bodies** Noise can be reduced from within a vehicle's body or trailer with appropriate acoustic damping materials.

**Damping Sheets**



Product Name	Guide Price	Availability	More Information
Hodgson&Hodgson: PVA Damping Sheets		GB	<a href="http://acoustic.co.uk">acoustic.co.uk</a>
Polyfont: Plastifont		GB	<a href="http://polyfont.com">polyfont.com</a>
Hodgson&Hodgson: Bitumen based damping sheets		GB	<a href="http://acoustic.co.uk">acoustic.co.uk</a>
Soundown: eco damp self adhesive	£30-£80	NL	<a href="http://soundown.com">soundown.com</a>
Autoneum; AUTYL		CH	<a href="http://autoneum.com">autoneum.com</a>
Acoustical surfaces inc: Vblok BB-2		US	<a href="http://acousticalsurfaces.com">acousticalsurfaces.com</a>
Megasorber: Self – Adhesive Constrained Layer Vibration Damping Sheet		AU	<a href="http://megasorber.com">megasorber.com</a>

**Floor Surfaces & Coating**



Product Name	Guide Price	Availability	More Information
BASF: Elastocoat	*	GB	<a href="http://polyurethanes.basf.de">polyurethanes.basf.de</a>
Schmitz Cargobull – multi-function floor (Lengthwise rills floor (P))	*	GB	<a href="http://cargobull.com">cargobull.com</a>
Bostik: Marothaan noise-reducing floor coating	*	NL	<a href="http://bosticentrk.nl">bosticentrk.nl</a>

**Doors and Shutters** One of the main sources of noise during delivery is the opening and closing of doors and shutters on either the vehicle or the delivery bay which can be mitigated through soft closing mechanisms.

**Roll Shutters**



Product Name	Guide Price	Availability	More Information
Albert Jagger :Centradrive Electro/Pneumatic door	*	GB	<a href="http://centadrive.co.uk">centadrive.co.uk</a>
JR Industries: ToughLight – Dry Freight	*	GB	<a href="http://jrindustries.co.uk">jrindustries.co.uk</a>
JR Industries: Whiting – Dry Freight	*	GB	<a href="http://jrindustries.co.uk">jrindustries.co.uk</a>
Dynatect: Aluminimu Roll up Doors	*	DE	<a href="http://dynatect.com">dynatect.com</a>
Todco: Roll – up Shutter Door	*	US	<a href="http://todco.com">todco.com</a>

**Refrigeration** Low noise units help keep the noise from the delivery of refrigerated goods to a minimum.

**Vehicle Units**



Product Name	Guide Price	Availability	More Information
Aic : un0° 100U Undermount Transblock® Box Body Refrigeration System	*	GB	<a href="http://hubbard.co.uk">hubbard.co.uk</a>
Frigoblock: Sealed Refrigeration Systems	*	GB	<a href="http://frigoblock.com">frigoblock.com</a>
Dearman: Transport Refrigeration System	*	GB	<a href="http://dearman.co.uk">dearman.co.uk</a>
NatureFridge: Transport Refrigeration System	*	GB	<a href="http://naturefridge.com">naturefridge.com</a>

## Trailer Units



Product Name	Guide Price	Availability	More Information
Carrier: Vector 1550 City	*	GB	<a href="http://carrier.com">carrier.com</a>
Thermo King SLXi Whisper Pro (P) (trailers)	*	GB	<a href="http://europe.thermoking.com">europe.thermoking.com</a>
Thermo King: T-Series Whisper (rigids)	*	GB	<a href="http://europe.thermoking.com">europe.thermoking.com</a>
Hubbard: Govet Eutectic Systems	*	GB	<a href="http://hubbard.co.uk">hubbard.co.uk</a>
GAH Refrigeration	*	GB	<a href="http://gah.co.uk">gah.co.uk</a>

# Quiet Technologies related to the Loading & Unloading Point

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**Matting** Appropriate surface coverings can be laid on the ground at the delivery point to reduce noise from moving goods.

## Impact Mats



Product Name	Guide Price	Availability	More Information
Hodgson&Hodgson: Barrier Mats		GB	<a href="http://acoustic.co.uk">acoustic.co.uk</a>
UK Acoustic Systems: screedmat		GB	<a href="http://ukasystems.co.uk">ukasystems.co.uk</a>
CMS Danskin Acoustics: Acoustic barrier mat	~£350	GB	<a href="http://varleyinsulation.com">varleyinsulation.com</a>
Cobrascape Black		GB	<a href="http://murphymanualhandling.co.uk">murphymanualhandling.co.uk</a>
Agriemach: Super-sonic Acoustic Mat		GB	<a href="http://agriemach.com">agriemach.com</a>

**Enclosures** Loading bays with sound absorption properties can help minimize disruption during deliveries and collections.

## Acoustic Linings





# Quiet Technologies related to **Materials Handling**

**Roll Cages** Noise from rattling roll cages is a key cause of noise nuisance during deliveries. Plastic roll cages, acoustic covers and rubber wheels can help to reduce this.

## Plastic Roll Cages



Product Name	Guide Price	Availability	More Information
Haywood Materials Handling: Roll-X-Cage		GB	<a href="http://rollxcage.com">rollxcage.com</a>
Distribution Maintenance: Red Plastic Rollcages		GB	<a href="http://distributionmaintenance.co.uk">distributionmaintenance.co.uk</a>
Linpac Packaging Ltd: Plastic Rollcage		GB	<a href="http://linpacshop.co.uk">linpacshop.co.uk</a>
K. Hartwall: Compactainer® Classic Silent 60 (P)	~£100	GB	<a href="http://k-hartwall.com">k-hartwall.com</a>
K. Hartwall: UK A-frame Roll container – Classic Silent		GB	<a href="http://k-hartwall.com">k-hartwall.com</a>
Rolltek: Various plastic roll cages and parts		GB	<a href="http://rolltek.co.uk">rolltek.co.uk</a>

## Roll Cage Covers



Product Name	Guide Price	Availability	More Information
Steps and Stillages: Roll cage/Roll Pallet Covers	*	GB	<a href="http://stepsandstillages.co.uk">stepsandstillages.co.uk</a>
Cover Systems- Industrial Covers	*	GB	<a href="http://cover-systems.co.uk">cover-systems.co.uk</a>
Massag: Rollcage Cover	*	GB	<a href="http://massag.com">massag.com</a>

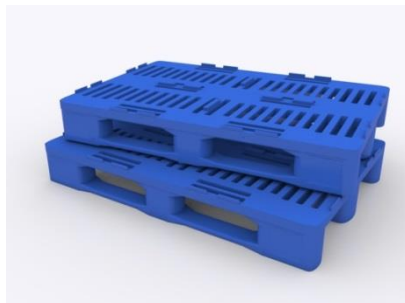
## Rubber Wheels



Product Name	Guide Price	Availability	More Information
Steps and Stillages: Rubber Tyred Wheels		GB	<a href="http://stepsandstillages.co.uk">stepsandstillages.co.uk</a>
Ese Direct: Black Rubber Tyre Castors	£3-£13	GB	<a href="http://esedirect.co.uk">esedirect.co.uk</a>
Castors Online: Medium Duty Castors Black Rubber		GB	<a href="http://castors-online.co.uk">castors-online.co.uk</a>

**Pallets and Dollies** As with roll cages, quiet pallets, dollies and manual/powered pallet trucks can help mitigate noise.

## Plastic Pallets



Product Name	Guide Price	Availability	More Information
Schoeller Allibert: Plastic Pallets		GB	<a href="http://schoellerallibert.com">schoellerallibert.com</a>
Plastor: Plastic Pallets	£15-£70	GB	<a href="http://plastor.co.uk">plastor.co.uk</a>
AP Plastic Pallets: UK Standard Plastic Pallets		GB	<a href="http://plasticpalletsuk.co.uk">plasticpalletsuk.co.uk</a>

## Dollies



Product Name	Guide Price	Availability	More Information
Rubbermaid: Brute Quiet Dollie		GB	<a href="http://rubbermaidcommercial.com">rubbermaidcommercial.com</a>
Silentmaster: Interconnecting Plastic Dollie		GB	<a href="http://parrs.co.uk">parrs.co.uk</a>
Plastor: Plas Euro Plastic Dolly		GB	<a href="http://plastor.co.uk">plastor.co.uk</a>
Container Centralen: CC Low Noise Dolly		GB	<a href="http://container-centralen.com">container-centralen.com</a>
Container Centralen: CC Euro Dolly		GB	<a href="http://container-centralen.com">container-centralen.com</a>
Container Centralen: CC Low Noise Rolly	£35-£140	GB	<a href="http://container-centralen.com">container-centralen.com</a>
Container Centralen: CC Euro Rolly		GB	<a href="http://container-centralen.com">container-centralen.com</a>
K. Hartwall: Hybrid Dolly 800 x 600 mm		GB	<a href="http://k-hartwall.com">k-hartwall.com</a>
K. Hartwall: Bread Dolly for Broban crates		GB	<a href="http://k-hartwall.com">k-hartwall.com</a>
K. Hartwall: Eurodolly		GB	<a href="http://k-hartwall.com">k-hartwall.com</a>

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400 x 600mm

### Hand Pallet Truck



Jungheinrich: Hand Pallet Truck		GB	<a href="http://jungheinrich.co.uk">jungheinrich.co.uk</a>
Toyota: BT Lifter Silent	£1.5k-£2.5k	GB	<a href="http://toyota-forklifts.eu">toyota-forklifts.eu</a>
Linde Material Handling: CiTi One		GB	<a href="http://linde-world.de">linde-world.de</a>
Logitrans: Panther Silent Pallet Truck		GB	<a href="http://logitrans.com">logitrans.com</a>

### Powered Pallet Truck



Product Name	Guide Price	Availability	More Information
Jungheinrich electric forklifts		GB	<a href="http://jungheinrich.com">jungheinrich.com</a>
Toyota: BT Levio Silent	£2.5k-£5k	GB	<a href="http://toyota-forklifts.eu">toyota-forklifts.eu</a>
Uline: Big Joe Electric Pallet Truck		US	<a href="http://uline.com">uline.com</a>

**Forklifts and Cranes** Electric motors help to reduce the noise generated from forklift trucks and cranes.

### Quiet Forklifts



Product Name	Guide Price	Availability	More Information
CAT: EP Series		GB	<a href="http://catliftruck.com">catliftruck.com</a>
Moffett: Category E Series		GB	<a href="http://hiab.com">hiab.com</a>
Toyota Traigo	£7k-£14k	GB	<a href="http://toyota-forklifts.co.uk">toyota-forklifts.co.uk</a>
Hyster electric forklifts		GB	<a href="http://hyster.com">hyster.com</a>
Jungheinrich electric forklifts		GB	<a href="http://jungheinrich.com">jungheinrich.com</a>
HIAB ePTO (battery power pack for cranes)	£40k	GB	<a href="http://hiab.com">hiab.com</a>

# Help & Contacts

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If your organisation provides similar equipment and would like to be included in this catalogue please contact:

[enquiries@fors-online.org.uk](mailto:enquiries@fors-online.org.uk)

To ensure your delivery noise is kept to a minimum it is important to adopt quiet behaviours alongside the use of any equipment or technology.

For detailed product information please contact the manufacturers directly. Weblinks are detailed next to each product.

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