



Astra Vehicle Technologies LTD 2016

- Wheelbase alterations
- Chassis repackaging
- Dual controls conversions
- Dual fuel system conversions
- ADR & SLP conversions
- Axle installations
- Mini artic conversions
- CLOCS compliance products
- Specialist exhaust systems

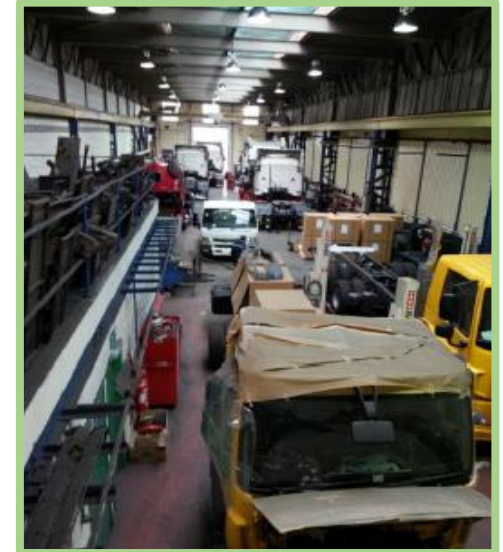


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Company Overview

- Customs bonded site with 24 hour secure parking for up to 30 Vehicles
- Privately owned since 2005
- 17 Strong team
- Solid Works 3D CAD/AutoCAD 2012 2D
- Chassis Engineering
- Auto Electrical Systems Engineer (Cambus Systems)
- Time Served Cab Trim / Interiors specialist
- 17000Ft Factory
- Sage Line 50 and MRP – Manufacturing Control
- FARO – Portable 3D Co Ordinate Measuring



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Quality products from a quality company

- ISO9001:2008 accredited quality management system.
- Accredited March 2006
- Recertified April 2012 - no non conformities
- Mercedes Benz UK audited quality partner for chassis engineering
- Our SVE team objective:-
“to produce a result that is hard to tell that work has been done”.
- Where commercially possible use OE supplier parts
- Similar brake & electrical fittings
- Correct chassis steels & profiles

“Astra is committed to providing an unequalled quality of product & an honest service”



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Exhaust & Air Intake products

Astra exhaust products include:-

- Custom designed exhaust system sub assemblies
- Components for both truck or bus
- Vertical stainless steel stack systems
- Vertical discharge systems
- low level silencer
- Customised low level systems
- Air filter relocations
- Engine overspeed protection systems
- “Pet Reg” systems for tankers
- Relocated DPF & catalyst systems



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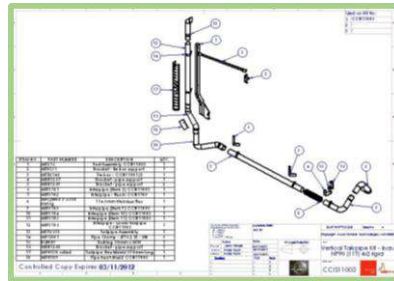
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Exhaust Products for Truck and Bus

Astra exhaust kits are suitable for installation by Astra, bodybuilders, or dealers and include:

- Isometric diagrams
- Picking lists
- Fitting instructions
- Fastener kits



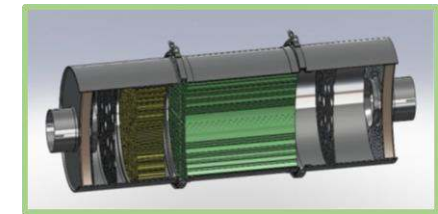
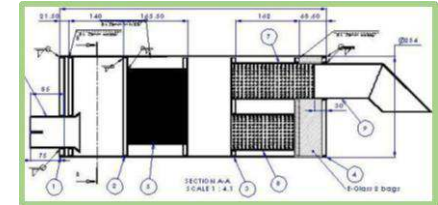
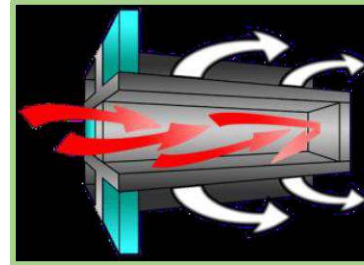
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Emission Control Products

Astra emission control products include:-

- Diesel oxidation catalysts
- SCR – selective catalytic reduction catalysts
- Aداstra – FBC regenerated diesel particulate filters
On & off highway
Gen set
- Aداstra - cCRF catalysed continuously regenerating filter systems
On highway trunking applications



Astra cCRF Diesel particulate filtration systems
(catalysed continuously regenerating filter, for higher
ave temp, mixed use duty cycles)

- Audited by TfL & approved for supply to the London Low Emission Zone (LEZ)
- A VCA approved technology for retrofit to Euro III vehicle technologies

Aداstra TM FBC DPF Diesel particulate filtration
systems (low ave temp, start/stop duty cycles)

- Award winning environmental technology – North West Business awards - 2004
- Audited by TfL & approved for supply to the London Low Emission Zone (LEZ) – LEC approved
- A VERT approved technology, achieving a minimum 80% TPM reduction and no increase in unregulated emissions (uncatalysed)
- A VCA approved technology for retrofit to Euro III or older technologies to achieve RPC scheme reduced VED
- More than 1000 installations



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Specialist Vehicle Engineering

Astra provides a “one stop shop”, with the expertise necessary for Euro 5/6 exhaust system repackaging / relocation together with a wide range of chassis modification services including:

- Wheelbase alterations
- Additional axles (lift / steered – tag or mid)
- Air suspension systems
- Mini artic conversions
- ADR, fire screens & “pet reg.”
- Dual steer installations
- Upgraded cab tilt mechanisms
- “Buddy seat” installations
- Additional fuel tank, catwalk & heavy haulage conversions

AVT work closely with their clients to provide the very best solutions tailored exactly to their individual needs.



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Astra provides chassis modification services to a wide range of Vehicle OEM's including:

IVECO



RENAULT



ISUZU



SCANIA

DAF

A **PACCAR** COMPANY



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Mercedes SVE applications

- AC0929 Atego 15.23 rear steer – brewery spec
- AC1286 Atego 15.29 mid lifting/steering axle & cab modifications
- WBME1001 Axor w.base modification 4.22m to 3.62m, rear windows, vertical tailpipe exhaust
- WBME9001 Axor w.base modification 3.9m to 4.2m



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Mercedes Atego

Mid lifting steered axle providing additional manouverability and uprating a 15t chassis to 21.7t on an overall track width of 2400mm for an urban RCV application

Features:

- Overhang reduction
- PTO driven hydraulics
- Tecma axle with Knorr Bremse brake system
- Granning air suspension with auto raise/lower and speed/time related traction control
- Mobile Electronics steering control system
- Secondary steering angle pre-programmed and speed dependent
- Manual override of lift control



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Fleet Prep

- AC1258 - DAF XF105
- Bracket supports
- customised cat walk infill assembly



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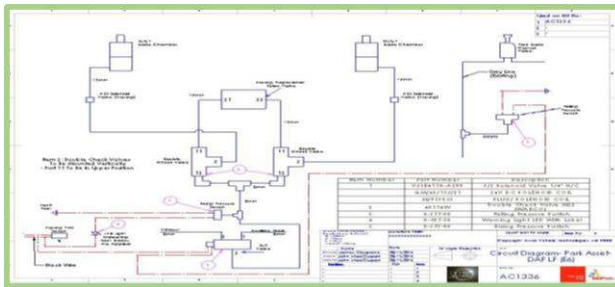


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Park assist system

- For builders merchant delivery vehicles with rear mounted crane.
- Crane has stabilizing legs, which when applied to the rear of the vehicle potentially reduces the effectiveness of the parking brake.
- Astra developed park assist system additionally applies air to front brakes when a combination of PTO and parking brake is selected.



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ADR conversion for safe load pass (tanker loading)

- 1st UK certified SLP for an Iveco - Euro 6 vehicle
- Astra developed battery isolation system designed to work in conjunction with OEM purge processes of Euro 6 exhaust aftertreatment
- Shielded exhaust
- Battery master switch
- Relocated batteries & Fire screen



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Mini Artic & Trailer and Trailer Conversion

Features:

- Wheelbase & overhang modification
- Fabricated sub frame
- Bolted 5th wheel fitch plates
- George Fischer 6t, cast 5th wheel c/w run up ramps
- Aluminium cat walk, with side step, grab handle, side protection , mud wings & spray suppression
- Enclosed ventilated Gast compressor with 20 litre air tank (pressure controlled cut in/out)
- ABS & compressor warning light
- 2 line air & elec's and ABS, suzies & storage
- Pressure gauge, with ABS & compressor indicator lights
- LED rear light cluster



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Heavy Haul

- Front tow assembly
- rear tow assemblies
- Air & electrical connections
- Heavy duty 5th wheel and striker plate
- 3D CAD design

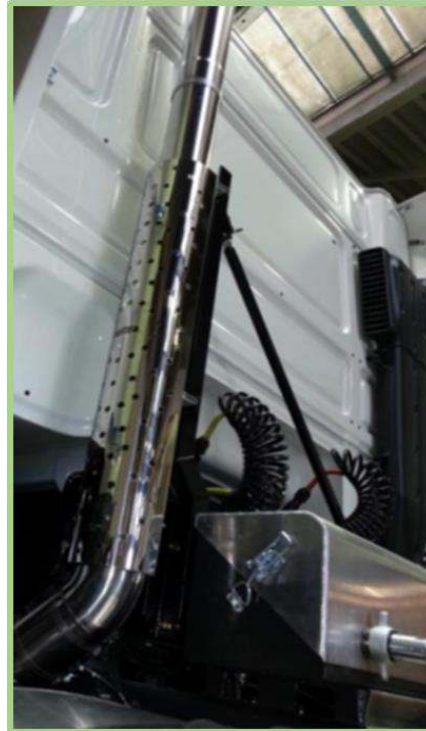


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Hydraulic Kit System/Wet Kit

- Relocated batteries
- Astra vertical stainless steel exhaust tailpipe
- Side mounted hydraulic tank



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Euro 6 and Previous Models Dual controls

- European Whole Vehicle type Approval testing underway
- Astra developed AKIS – “automatic key insertion system”
Insert the key to select drive side
- Manual with single or dual gear change
- Chassis repackaging options



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Astra chassis repackaging and LNG Dual Fuel installation Scania R440

- Stobart one of largest UK fleet operators with ~3500 prime mover units, across 11 divisions
- Part of UK Gov't funded trials programme, for dual fuel now operating 25 Volvo's & 15 Scania's
- Approx 42% displacement of diesel for LNG
- Net fuel savings equate to £350 per month per vehicle
- Payback in 29 months after Gov't grant from TSB/ Low carbon Vehicle Partnership



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Thankyou for your time



FIRST CALL FOR SPECIALIST VEHICLE ENGINEERING
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