



# Agriculture & Construction Machine hoses

Manufactured with high performance materials

CODAN 3133 PETROL / DIESEL / BIO-DIESEL HOSE - WP 10 BAR 

CODAN 5035 SAE J2064 C - A/C BARRIER HOSE 

CODAN 4801 CAR HEATER HOSE - WP 10 BAR 

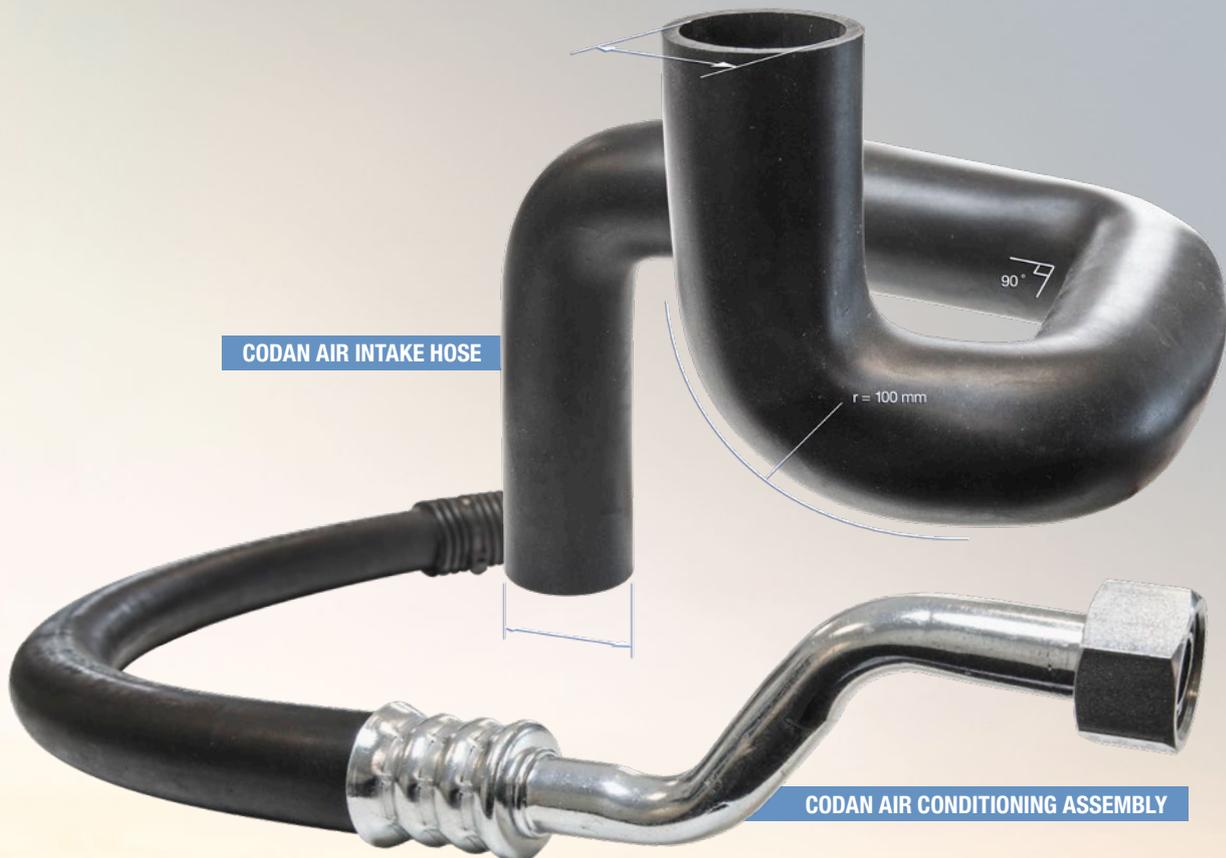
WP 14 BAR 

PRECISION HOSES DESIGNED TO CUSTOMER SPECIFICATIONS

# HOSES FOR MODERN AGRICULTURE

Machinery that are used in areas such as agriculture, forestry, civil engineering, construction and heavy industry, operate in arduous conditions and often non-stop for long periods of time on projects globally.

Hose systems used to convey coolant, fuel and lubricants to the engine and air conditioning are therefore engineered to withstand these harsh environments.



## AIR CONDITIONING HOSES

Codan is the one of the largest suppliers of air-conditioning hose and assemblies to Car, LGV and Commercial vehicle producers in China.

Codan air-conditioning hoses are constantly being updated and developed to deliver optimum performance with the changes in refrigerant gases.

Codan hoses reduce environmentally harmful emissions of these gases in commercial vehicles, construction equipment and refrigerated trailer applications.

## OIL & BRAKE HOSES

Codan's brake hoses for commercial vehicles are produced to DIN and SAE specifications to a number of vehicle and trailer producers.

Oil cooler hoses are used to transport hot oils from the engine to the inter cooler, the hot oils are a constant aggressive media for the hoses that has to withstand the Truck engine running 24/7 for many years.

Power steering hoses are High pressure steel reinforced hydraulic oil hoses which also are commonly used for various applications on specialist commercial and construction vehicles for example on refuse collection trucks, tail-lifts and fork-lift trucks.

## PROFILES

Codan delivers profiles to a wide range of automotive OEM's worldwide. Body seals around the vehicle with a perfect fit and tightness as a key to have a successful assembly on the OEM production line. In combination with high spec. materials in both rubber and thermoplastic elastomers the profiles are extruded as Co-extrusions (combination of materials or hardness) with build in flexible metal. Moulded corner components vulcanized together to secure a long lasting body seal.

## COOLANT & TURBO HOSES

Codan produce hoses for water, coolant and antifreeze water applications in commercial, agricultural and off road vehicles using advanced materials designed for extreme working environments.

Codan specializes in the manufacture of formed hoses from simple shapes to hoses with multi-branches.

Silicone and heat resistant reinforcements such as Aramid are used in the production of very high temperature coolant and turbo hoses.

## FUEL & DEF/ADBLUE HOSES

Codan hoses for petrol and diesel are also designed to convey modern bio fuels.

Shaped fuel hoses with multi-fuel low permeation inner tube and heat resistant reinforcement and rubber cover are supplied to a number of vehicle manufacturers producing SUV and commercial vehicles.

Moulded flexible fuel filling hoses can be produced with multi layer rubber construction for best fuel resistance and product economy.

Codan supply hoses for the filling and transfer of Diesel Exhaust Fluid (DEF/ Ad-blue) in the Selective Catalytic Reduction (SCR) system.



# FLUID HANDLING SYSTEMS



## AIR CONDITIONING HOSE

5034



5035



5036



5038



Codan also produce shaped hoses for original equipment manufacturers of construction equipment, agricultural vehicles and engine / power generators. These hose types can be very large, and are often required to be resistant to hot and demanding working environments.

In all industries Codan can work with original customer drawings or specifications and can assist in the design of materials and routing for all applications.

## AIR & BRAKE HOSE

4002



4006



4205



High pressure coupling coupled to a powersteering hose

## COOLANT HOSE

4801



4804



4820



## ADBLUE HOSE

3201



## FUEL HOSE

3111



3133



## HYDRAULIC HOSE

3514



## OIL COOLING HOSE

4715

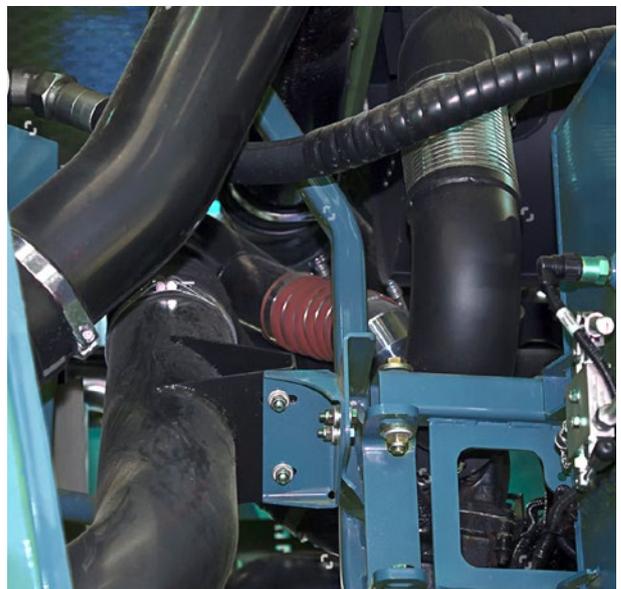
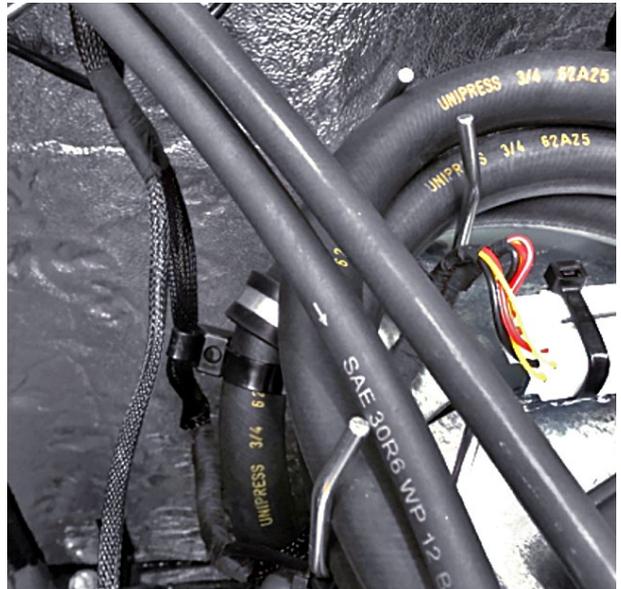


## POWERSTEERING HOSE

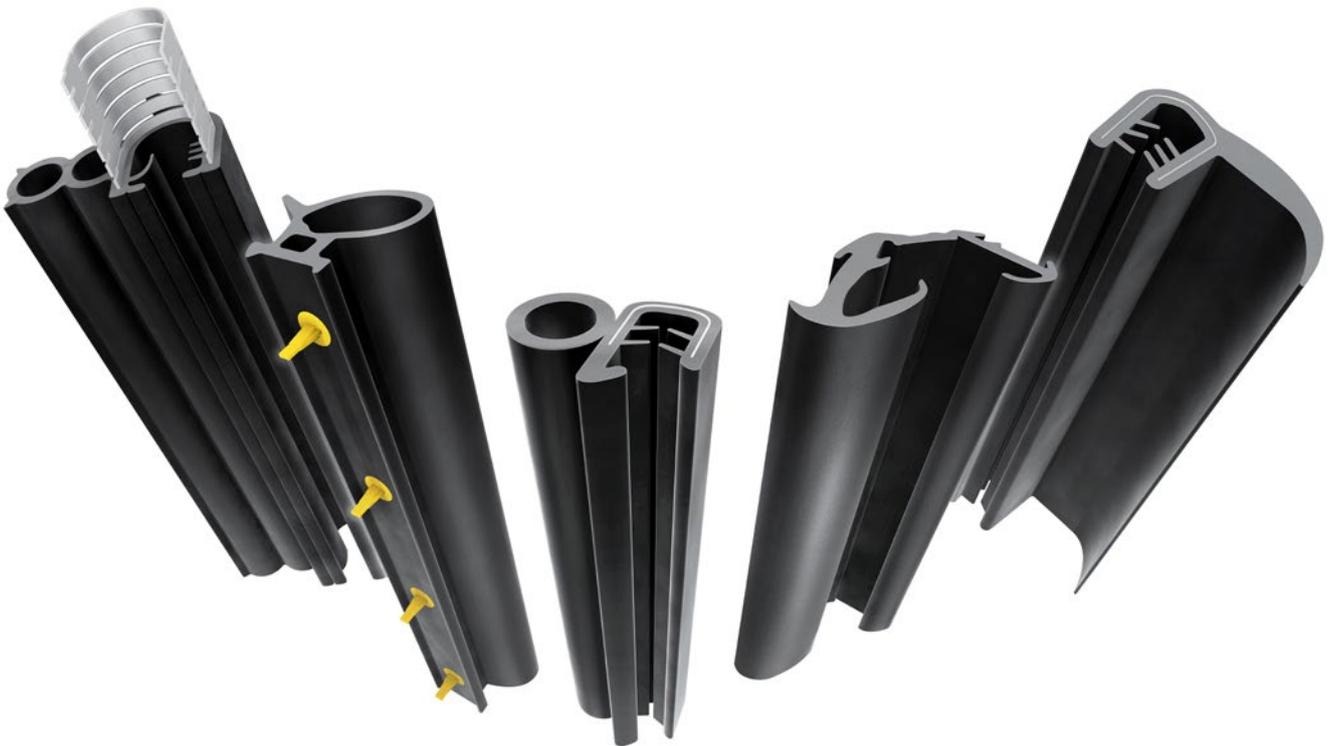
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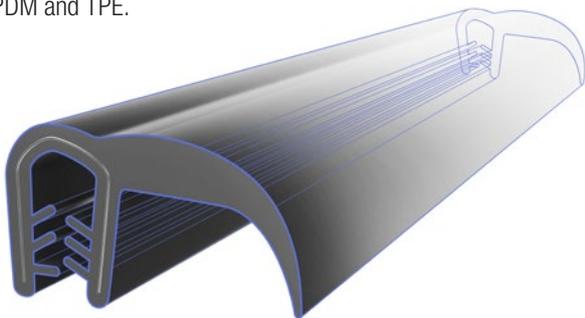
# PROFILES



## AUTOMOTIVE BODY SEALS

Body seals are used throughout the vehicle on doors, hoods, sunroofs etc., providing essential all-weather sealing to protect from water and dirt or to function as acoustic dampening.

We also co-extrude profiles with up to three compounds, giving extensive options for combining materials, for the best possible performance. All materials are OEM approved compounds in EPDM and TPE.



*CAD drawing of prototype*



## INDUSTRIAL PROFILES

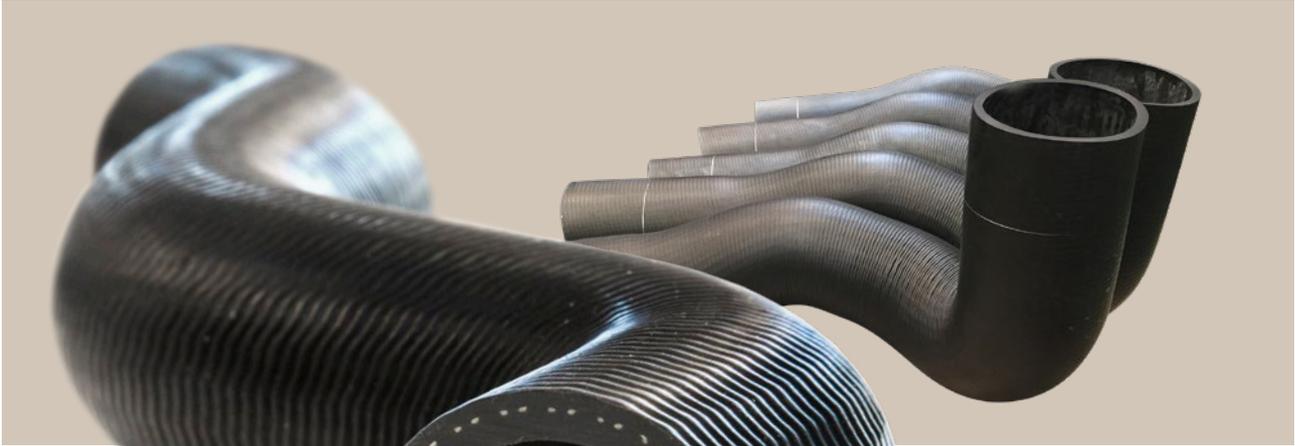
Profiles for the industrial sector have different requirements; unlike the automotive sector with its specific requirements for each component, this sector covers everything from washing machines to facial masks. Profiles are used to seal off, and protect from contamination of foreign objects, keeping the compartment clean and dry. We can manufacture to suit any application, whether you require a simple rubber seal or a complex profile with a combination of materials with unique properties.

It is essential to use the correct seal in order for the window to close properly, the windmill to turn correctly and ensure that the machine is working at maximum efficiency. Our R&D department is able to accurately define the parameters for each component for optimum performance. Please contact Codan for more information.



*Production line*

# SHAPED HOSES



Codan specialises in the design and manufacture of formed hoses, from simple elbows to multi branch shapes. These can be produced in a variety of rubber compounds including silicone.

Hoses can be reinforced with heat resistant materials for pressurised systems or can be produced without any reinforcement for low pressure or vapour application. Shaped hoses can include wire support for vacuum resistance or inserted metal parts for charge points or for attachment.

Different size ends are common as is the need to manufacture hoses of different size hoses joined together.

All tooling is designed and produced in plants accredited to TS 16949 with full engineering, testing and CAD capability.

Our flexible manufacturing system is designed to run batches from prototype quantity to full volume, running into hundreds of thousands.

Automotive customers provide the most volume for Codan shaped hoses. Codan is an approved 1st and 2nd tier supplier of shaped hoses to many of the World's foremost Car manufacturers.

Most common applications are for fuel, power steering, cooling, heating and braking. Hoses can be supplied open ended or complete with fittings such as quick fit types for OEM assembly.



Codan also produce shaped hoses for original equipment manufacturers of construction equipment, agricultural vehicles and engine / power generators. These hose types can be very large, and are often required to be resistant to hot and demanding working environments.

In all industries Codan can work with original customer drawings or specifications and can assist in the design of materials and routing for all applications.

# CODAN GROUP

CODAN GROUP is a worldwide organization, incorporating Denmark, China and Thailand as the main sites. The purpose of our close cooperation is to optimize development, production and sales through a network of world wide production and distribution.

Through CODAN GROUP we can produce and deliver high quality products to OEM at competitive prices worldwide.

## CODAN AUTOMOTIVE



CODAN produce straight and shaped rubber hoses plus complete hose systems encompassing plastic tubes, manipulated metal pipes and quick assembly fittings. In addition we produce rubber mouldings and extruded sealing systems as part of a range that covers almost all rubber applications in a car or commercial vehicle today.

## CODAN INDUSTRIAL



CODAN's flexible hose systems are specified for respiratory equipment, construction and farming machinery, food processing, gas and welding appliances and for use in manufacturing industry. The wide product range offers high quality hoses according to the latest International standards.

## CODAN ASSEMBLIES



Codan assemble hoses for numerous automotive and industrial applications including those used for welding gases, LPG appliances, food and drink delivery, compressed air, lubricating equipment, crop spraying / agricultural machinery, respiratory apparatus, fuel dispensing, medical gases and many more.

## TEST CENTRE



We have extensive laboratory facilities located in China, Thailand and Denmark for quality testing and development of new hose technologies and materials. The automotive industry is continually developing technologies and materials in order to improve performance and Codan is equally committed to keep up with the demand.

