

A.D.R. S.D.A.

Via Antonio Maria Ceriani, 96 - 21040 Uboldo (VA) ITALY Tel. +39 02 961711 - Fax +39 02 96171420 info@adraxles.com - www.adraxles.com



COLAERT ESSIEUX

Route nazionale 11/bis 59189 Steenbecque FRANCE Tel. +33 328438550 - Fax +33 328436863 commercial@colaertessieux.fr - www.colaert-essieux.fr



ADR Polska

UI Bieszczadzka, 5 - 38540 Zagorz POLAND Tel. +48 1346 89333 - Fax +48 1346 89368 atw@atwsystem.pl - www.atwsystem.pl



ADR UK - TYREMART AGRICULTURAL LTD

Main Road, Long Bennington, Newark, Notts, NG235DJ GREAT BRITAIN Tel. +44 1400 283820 - Fax +44 1400 283137 accounting@tyremartagri.co.uk - www.tyremartagri.co.uk



ADRGEPLASMETAL sa

Pol. Malpica c/ J n°1 - 50.057 Zaragoza ESPAÑA Tel. +34 976 465 254 - Fax. +34 976 571 132 info@adrgeplasmetal.com - www.geplasmetal.com



OMEGA Drives Inc.

7A - 845 Lagimodiere Blvd. Winnipeg, Manitoba R2J 3M2 CANADA Tel. +1 204 453 2477 - Fax +1 204 453 2478 info@omegadrives.com - www.omegadrives.com



ADR EIXOS BRASIL - Riberao Preto - SP

Rua Antonio Fernandes Figueroa, 1807, Parque Industrial Lagoinha Ribeirão Preto São Paulo - cep 14.085-280 BRASIL - Tel. +55 16 39653946 adrbrasil@adreixos.com.br - www.adraxles.com.br



Qingdao ADR Axles Manufacturing Co., Ltd.

Lingang Road No. 2468, Huangdao District, Quingdao City Shandong Province - Post Code 266400 CHINA Tel. +86 532 8619 6636 - Fax +86 532 86196501 info@adrsystem.cn - www.adraxles.cn



ADR Axles India Pvt. Ltd.

Gat No.512, Lavasa Road, At Village Kasar Amboli, Taluka Mulshi, MIDC Pirangut, Pune - 412108, State of Maharashtra - India Tel. +919 89 755080 - info@adraxles.in - www.adraxles.in



ADR Australia Pty Ltd 1//11 Warrior Place

St. Marys N.S.W 2760 - AUSTRALIA

Tel. 02 9623 0512 - Fax 02 9623 0505 admin@adraust.com.au - www.adraust.com.au



C.L.M. S.r.l.

Zona industriale, 26 - 33049 S.Pietro al Natisone (UD) ITALY Tel. +39 432 727851 - Fax +39 432 727852 www.clmwheels.com



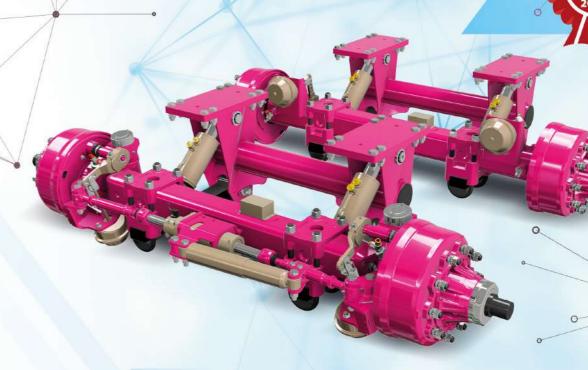
SAE-SMB INDUSTRIES

Route de Cliron - 08090-HAM-LES-MOINES - FRANCE Tel. +33(0)324595454 - Fax +33(0)324548158 contact@sae-smb.fr \cdot www.sae-smb.com





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TO IMPROVE THE FUTURE IS
TO REINVENT IT.



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TECHNICAL ASPECTS

TEKNOAX 2.0 implements important features:

REMOTE TYRE INFLATION / DEFLATION SYSTEM

(based on a pressure monitoring device and a pressurised air duct) that allows quick adjustment of the internal tyre pressure, based on specific operating conditions.

WEIGHT MONITORING SYSTEM

consisting of a load cell that informs the driver of the total payload of the trailer, both for safety purposes and to optimise operating costs.

TOTAL OPERATING TIME AND DISTANCE MONITORING SYSTEM

combined with the weight monitoring system, to **optimise maintenance** based on actual operating conditions.

TRACEABILITY SYSTEM BASED ON AN RFID TAG

that associates each axle with a unique identification number in order to improve the end user experience, facilitating and reducing maintenance.

ADVANTAGES

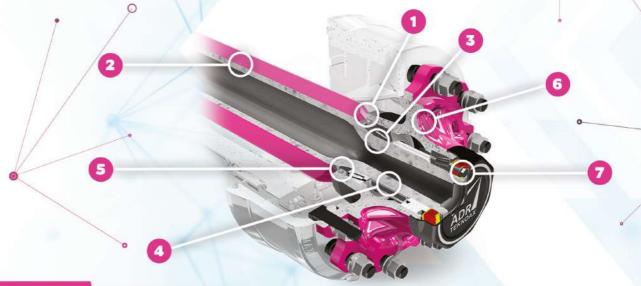
Advantages of innovation TEKNOAX 2.0 are: functional, economic, environmental and social:

- improved mechanical, hydraulic and electronic performances
- Increased weight monitoring and load capacity, reducing empty weight
- Reduced operating and maintenance costs
- Calculation of time of use and monitoring of distance travelled
- Traceability system and availability of data for planning maintenance
- Increased safety, reliability and service life
- Better standardisation and modularity
- Tyre pressure monitoring and remote inflation/deflation system
- Improved road performance and compliance with road regulations
- Smart devices for real-time weight assessment on board

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 737848



Technicalfeatures



1 INTEGRAL BODY

Is a **tubular monobloc** axle body with integrated spindles, obtained through hot plastic deformation of the axle body for the distribution of the load with a seamless and continuous structure.

SMART FIT

Is the special cold modelling of the square section of the axle body which **enhances the axle's flexural strength** and makes it possible to couple it to the suspension without any welding. The reduction in the axle body mass compared to solid square-section axle bodies which are still widespread in the agricultural field is in the order of 50% for the same performance levels.

STRAIN-FLOW

Is the best **geometry for the coupling area between the spindle** and the axle body, without any sudden changes in the cross-section, for ultimate safety against strain. The hollow profile of the spindle makes it possible to achieve the best mass-resistance ratio and facilitates the application of tyre-inflation systems which are very popular on cars that run on natural surfaces.

AIR SPINDLE

Is the new concept of hollow spindle by Teknoax. Compact and affording a large diameter. It considerably reduces the protrusion of the hub to facilitate the use of wheels without offset even with large-sized tyres. A very rigid structure designed for heavy-duty applications.

CLEVER-SEAL

Is the lubrication system by Teknoax with box-type seals that guarantee excellent lubrication of the hub bearings, protecting them against atmospheric agents and allowing clean maintenance. They can incorporate the ABS phonic wheel.

CROSSOVER

Is the best word to describe the effort in the design to accommodate all the typical applications of special vehicles, implementing the largest quantity of shared components to **optimise spare part stocks**, and also implementing products that are already in use on industrial vehicles to improve their sourcing.

SPIN JUST

is an innovative system designed to adjust the axial play in the bearings with an accuracy of a hundredth of a millimetre. The precision adjustment associated with the rigid structure of the spindle-hub assembly increases the durability of the bearings and helps make maintenance less expensive

