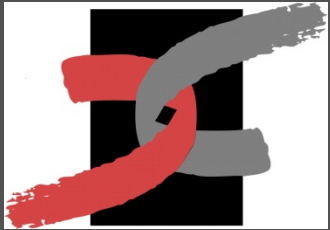


Presentation



by Gianpietro Mascialino



V. ORLANDI S.p.a.
TOWING SYSTEMS SINCE 1859



V. ORLANDI S.p.A.

Towing systems



V. Orlandi, a pacemaker in transport history since 1859

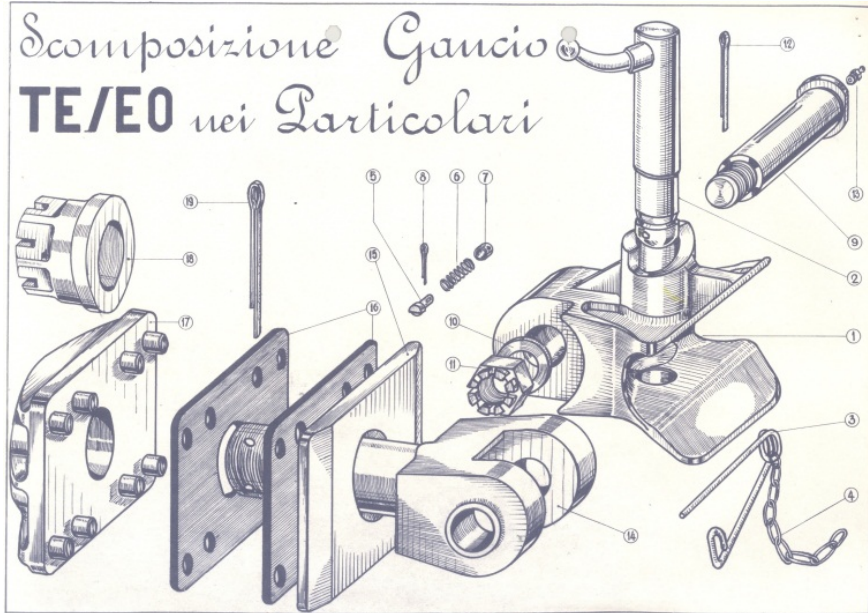




RIMORCHI "V. ORLANDI,, BRESCIA

SOCIETÀ PER AZIONI

Sede - Direzione - Officine: BRESCIA - Corso D. D'Aosta, 28/30 ☎ 59.3.22





Agenda

1. Company profile

WHERE ARE WE?



40 km – BERGAMO Arpt.

50 km – VERONA Arpt.

120 km – MILANO LINATE Arpt.

150 km – MILANO MALPENSA Arpt.

150 km – VENEZIA Arpt.



Main offices
-
Production
-
Testing room

V.ORLANDI S.p.a.
Via Quinzano 3
25022 Flero, Brescia

Agenda

1. Company profile

FIRST FACILITY





We are one of the very few European Companies having at our disposal a TUV approved testing machine.

-

Addressed mainly to drawbar couplings, drawbar eyes and towbars.

-

Capacity up to 250 kN

-

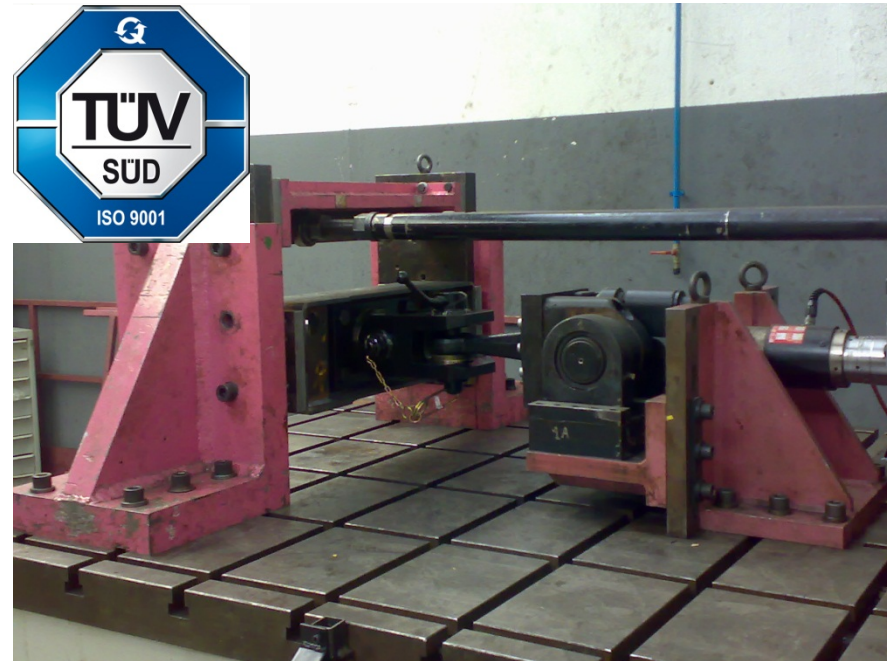
All our products do **2.000.000** of cycles

An example of a MAN cross member during the test; most of the European OEMs comes to our facility to do stress tests on their new tow-bars.

Agenda

1. Company profile

INTERNAL TESTING ROOM





Fifth wheels dynamic tests are done in Europe in cooperation with Automotive Industry Institute PIMOT

-

Dynamic tests are done according to existing EC or ISO regulations (94/20/CE and ECE R-55 standard)

-

The forces to be used in the test are calculated and specified in international regulations (UN ECE R55.01)

An example of the test of our 3,5" fifth wheel (RP90): we successfully reached the higher rating in the market.

Agenda

1. Company profile

EXTERNAL TESTING ROOM





Painting
-
Assembly line
-
Logistic

Capacity:

15.000 drawbar couplings

5.000 fifth wheels

Agenda

1. Company profile

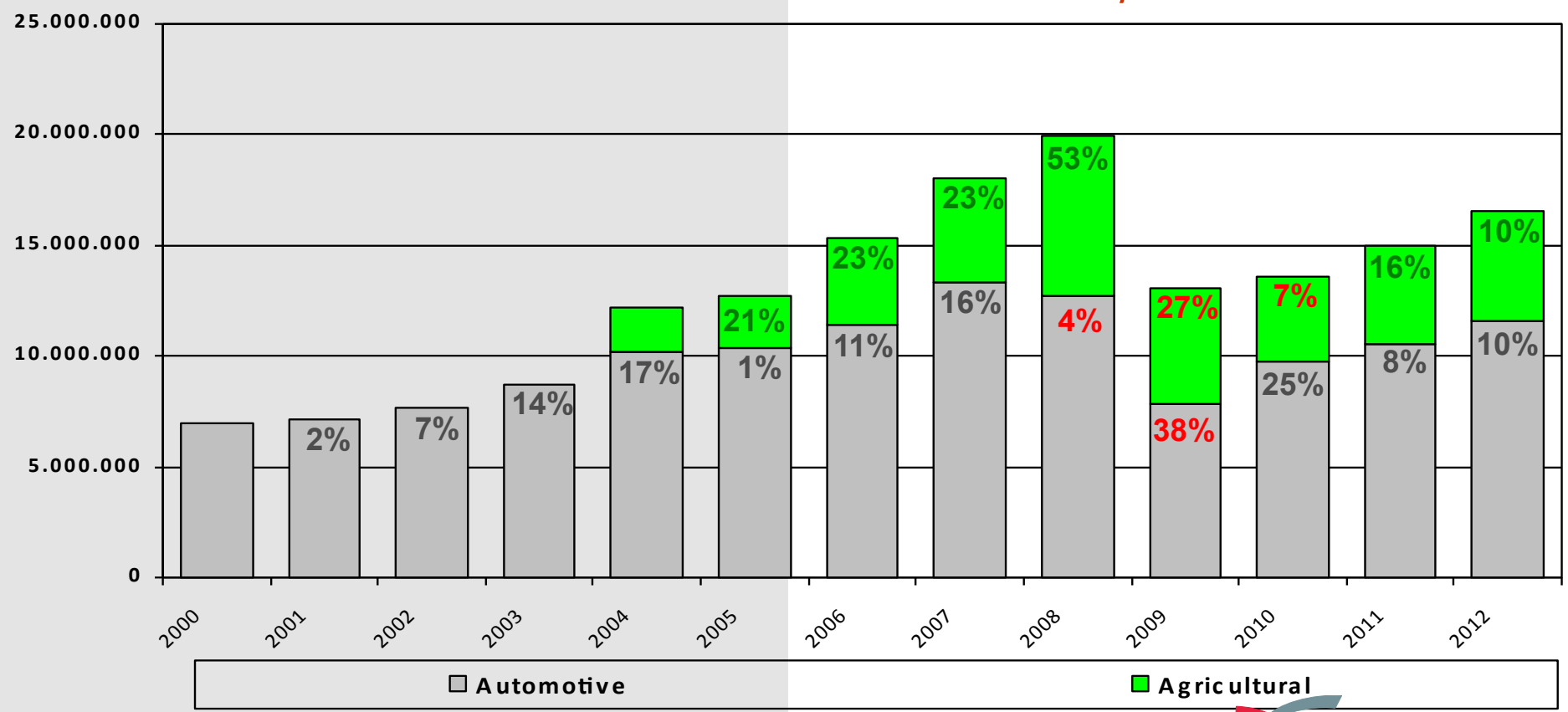
SECOND FACILITY





1. Company profile

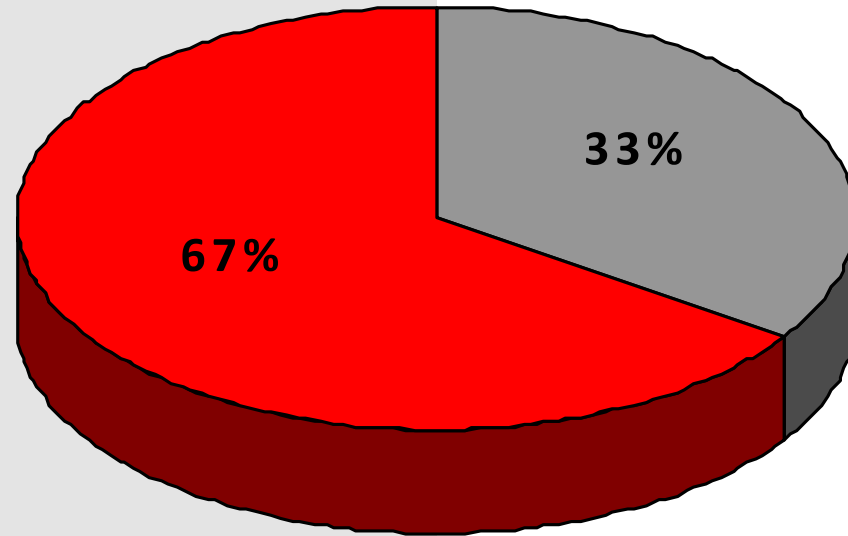
GLOBAL TURNOVER 2000/2011 – Forecast 2012





1. Company profile

TURNOVER OEM vs AFTER MARKET



“OEM” includes the sales to assembly line of main European truck builders.

“After market” includes the sales to body builders, dealers, fleets, workshops, ...

■ OEM

■ After Mkt



IVECO



SCANIA

VOLVO

DAIMLERCHRYSLER

MAN



**RENAULT
TRUCKS**

Agenda

1. Company profile

AUTOMOTIVE OEM PARTNERS





Agenda

1. Company profile

AGRICULTURAL

Purchased in 2004 by V.ORLANDI Spa,
the business of Agricultural towing devices
in mainly addressed to OEMs
and it is characterized by an high
customisation of the products as well as
an high quality background.





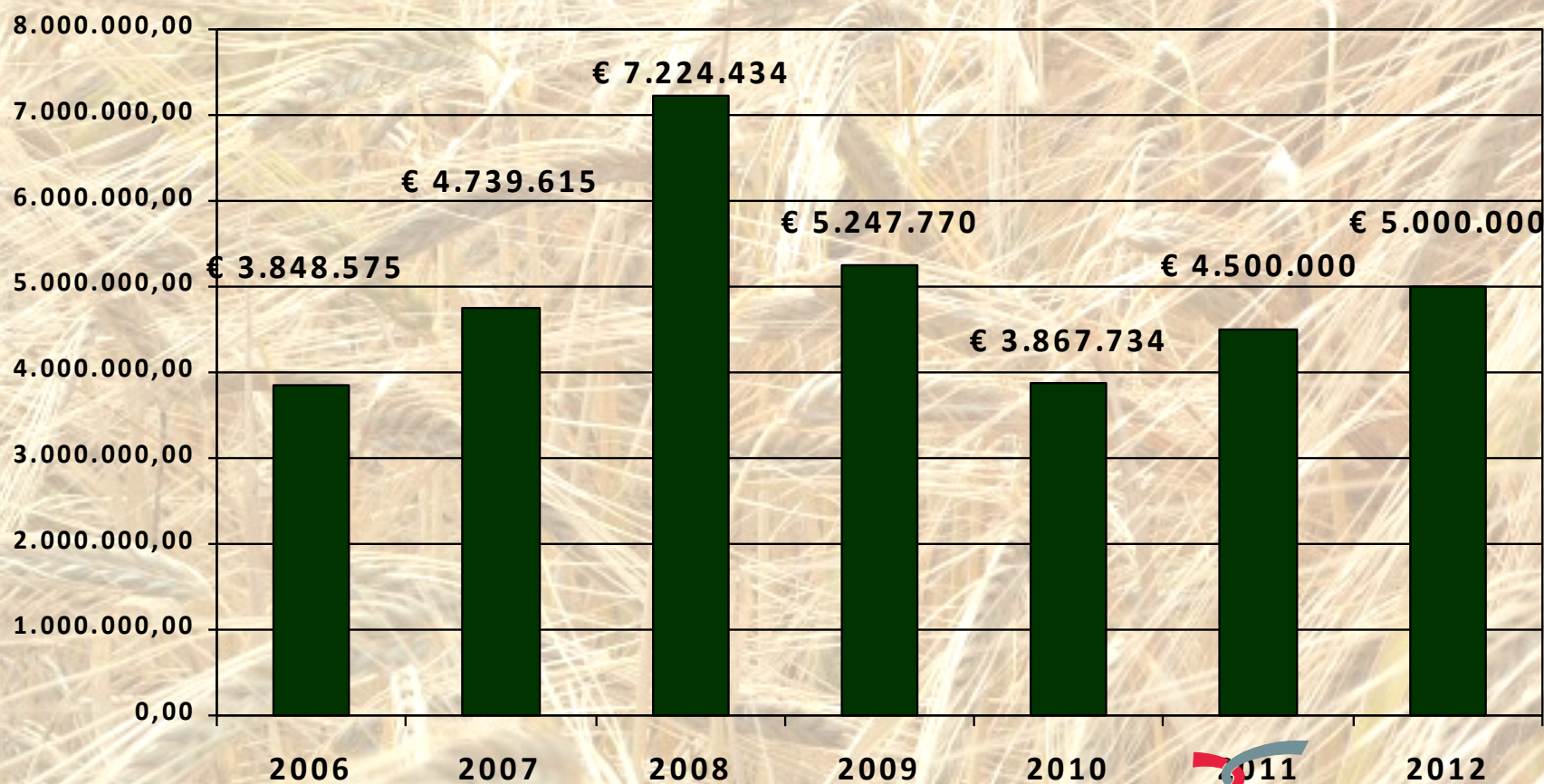
Agenda

1. Company profile AGRICULTURAL OEM PARTNERS



1. Company profile

AGRICULTURAL TURNOVER 2006/2011 - Forecast 2012





The Netherlands



Norway



Belgium



Finland



Czech Republic



Sweden



France



Denmark



Germany



Estonia



Spain



Latvia



Ireland



Lithuania



Italy



Austria



Poland



Portugal



Romania



United Kingdom

Agenda

1. Company profile

DEALER NETWORK
EUROPE



Agenda

1. Company profile DEALER NETWORK OUT OF EUROPE



Libya



Algerie



Egypt



Sudan



Ethiopia



Kenya



South Africa



Russia



Turkey



Iran



Israel



U.A.E.



Australia



New Zealand



Cuba



Uruguay



Venezuela



Chile



European Union

94/20/CE

-

NATO

ECE-ONU R55

-

Australia

ADR 62/01

-

Australian & NZ Standards

2174, 2213 and 4968

Agenda

2. Standards

PRODUCT HOMOLOGATIONS





Agenda

3. Pacific series ROAD TRAIN DRAWBAR COUPLINGS

V. ORLANDI

dedicate special range of
products to special markets
around the world

An example of range of product
dedicated to the Pacific Area





E 50 PACIFIC

Automatic/Rigid

50mm pin diameter coupling



Agenda

3. Pacific series ROAD TRAIN DRAWBAR COUPLINGS



94/20/CE

CRN



Agenda

3. Pacific series ROAD TRAIN DRAWBAR COUPLINGS





EH 524

Automatic/High oscillating
50mm pin diameter coupling

Only AUSTRALIA has tipper over-axle
trailers



Agenda

3. Pacific series TIPPER DRAWBAR COUPLINGS





Agenda



3. Pacific series TIPPER DRAWBAR COUPLINGS



UN 76

Hook Coupling Automatic
Suitable for toroidal drawbar eyes



Agenda

3. Pacific series PINTLE HOOK COUPLINGS



94/20/CE

ECE R-55



TITANO

H.D. Coupling Manual

Suitable for 50mm H.D. drawbar eyes

-

50mm – 250 tons

-

70mm – 500 tons



Agenda

3. Pacific series MINING DRAWBAR COUPLINGS





V.Orlandi couplings are designed in order to be upgraded by an important system of complementary kits being able to satisfy the most peculiar requirements of our customers to make the use of couplings even more comfortable and safe also in the most extreme conditions.

Agenda

3. Pacific series COMPLEMENTARY KITS





MECHANICAL



PNEUMATIC



Agenda

3. Pacific series
COMPLEMENTARY KITS



IN-CABINE INDICATORS

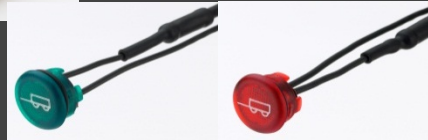
Open-close



Steering angle

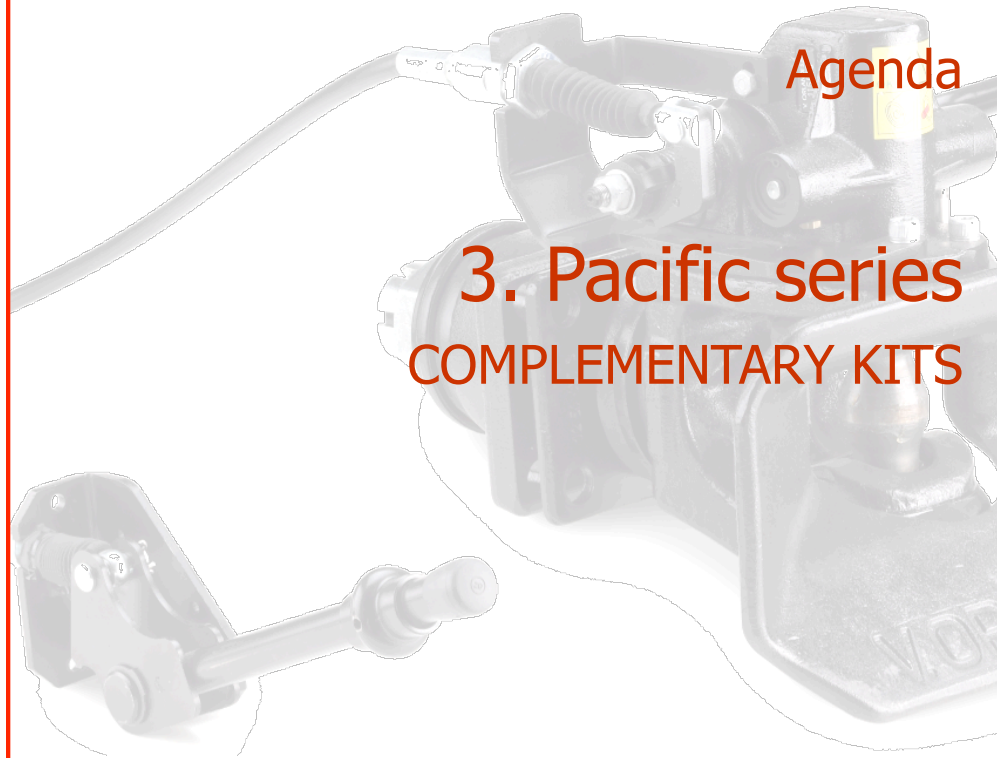


In-cabine



Agenda

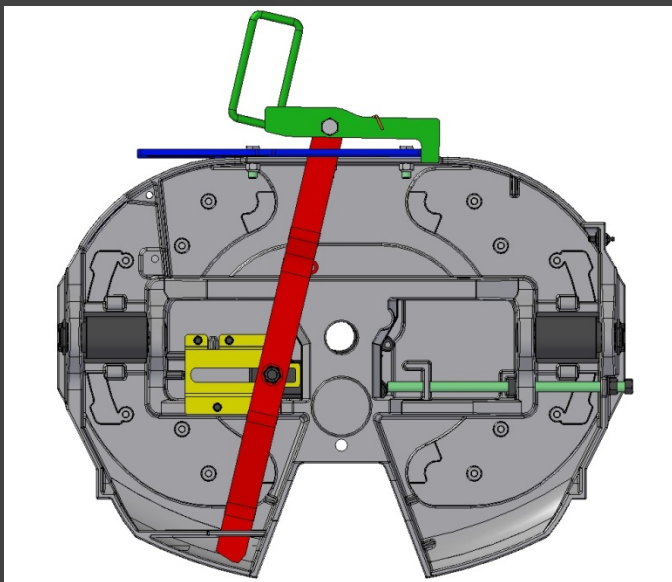
3. Pacific series COMPLEMENTARY KITS





RP50 FRONT RELEASE

Only AUSTRALIA has roll-back trailers



Agenda



3. Pacific series 2' ' ROLL-BACK FIFTH WHEELS

94/20/CE

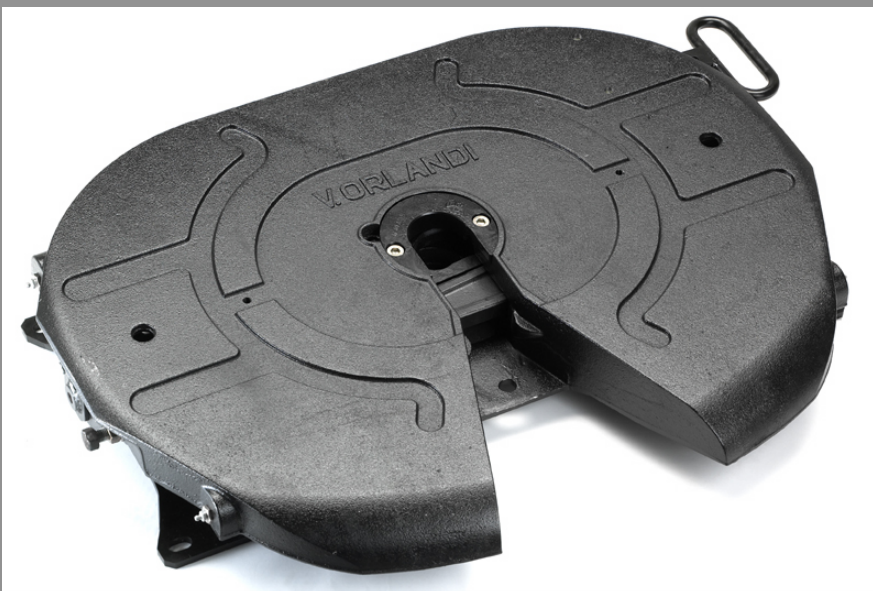
-
CRN



RP 50 on rubber bearings

with standard or low-lube plate
ISO pedestal

H 150mm – 185mm



Agenda



3. Pacific series 2'' FIFTH WHEELS ON RUBBERS

94/20/CE
-
ECE R-55
-
CRN



RP 50 on pivot bearings

Standard or low-lube plate
ISO pedestal

H 150mm – 185mm
H 140 with weldable feet



Agenda



3. Pacific series 2'' FIFTH WHEELS ON PIVOT

94/20/CE
-
ECE R-55
-
CRN



FHD series

with standard or low-lube plate

U-Value: 18 tons; D-Value: 120 kN

H from 167 mm to 367 mm



Agenda



3. Pacific series DOUBLE HEIGHT 2" FIFTH WHEEL

ECE R-55



RP 90 on rubber bearings

Standard plate

Convertible kit available (2" - 3,5")

ISO pedestal

H 190mm – 250mm



Agenda

3. Pacific series 3,5" FIFTH WHEELS



94/20/CE

-

ECE R-55

-

CRN



RP 90 – Advantages

10% more than the higher values in the market:

Vertical Load U: 40 Tons

-

Test values reached:

lifting static force (upward) is

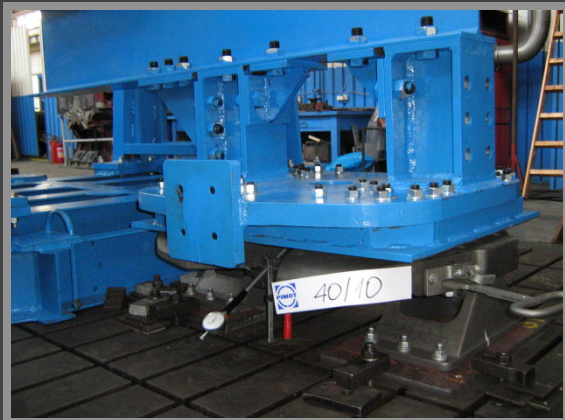
$$U * 1.6 * g = 628 \text{ kN}$$

(APPROX 63 TONS),

and the dynamic vertical load (downward)

is min 157 and max 471 kN

(APPROX 47 TONS)



Agenda

3. Pacific series
3,5" FIFTH WHEELS





Saving some dollars with non genuine parts means:

No more quality guaranteed

-

No more safety

-

No more D-Value

-

No more insurance

-

No more recalling action

Is it worth it?

Agenda

5. Serial number
NON GENUINE PARTS

TCK Australia





Agenda

6. The future ONE CONTACT





Status of development and intended industrialisation

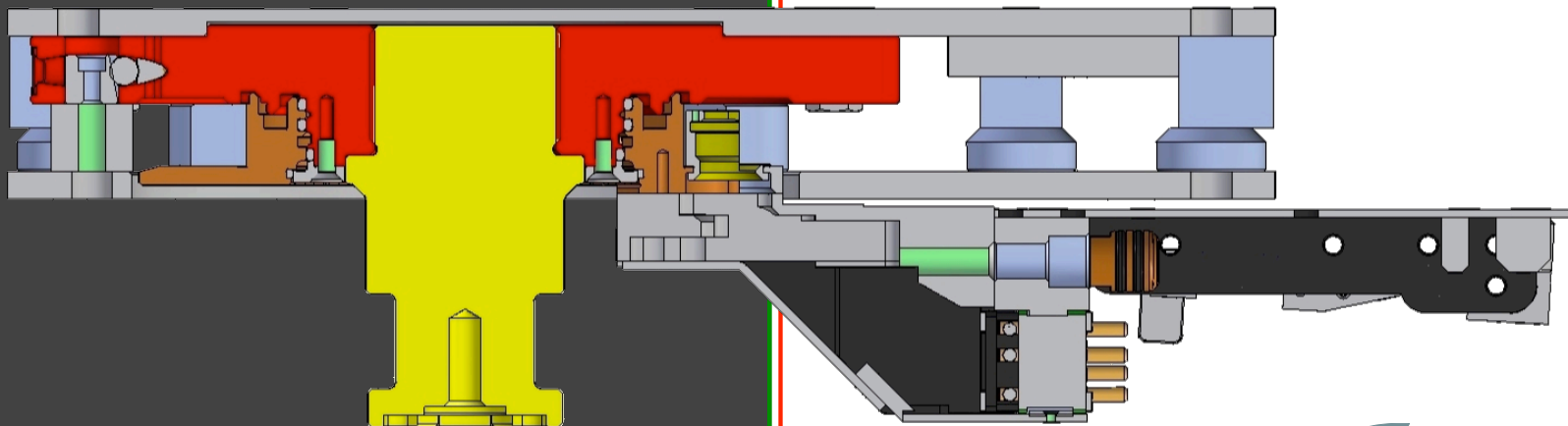
Except for the electric and pneumatic connections, the project is at “field test” and industrialisation stage.

Patents, utility patents, other property rights

The patent does not involve the connection as such, but the connection of signal transfer from the connection to the semi trailer.

Agenda

6. The future ONE CONTACT



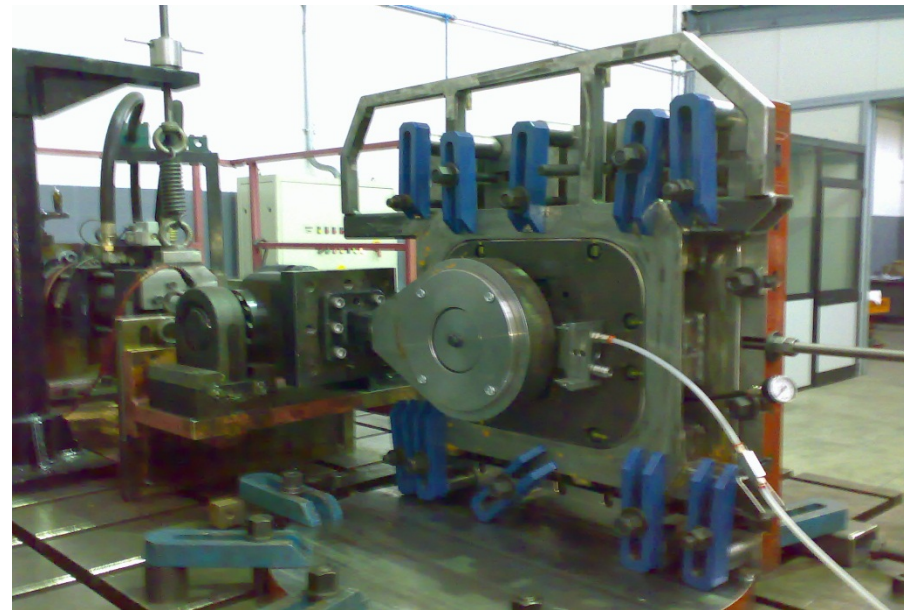


Conformity to actual standards like
EG 94/20, ECE55

The king pin is H50 (ISO 337) class
and complies with the test
requirements.

Agenda

6. The future ONE CONTACT





Function, operation and safety
Standard use – fully automated

With the condition of hitched semi trailer, the driver, through a key turns ON the control panel.

Agenda

6. The future ONE CONTACT





Home

Photo Gallery

Area Download

Company

Contact us

Exhibition

Area Riservata

Calculation



Drawbar couplings

Complementary Kits

Drawbar eyes

Fifth wheels

Kingpins

Landing gear

Ball races



















Towbars

Out of production

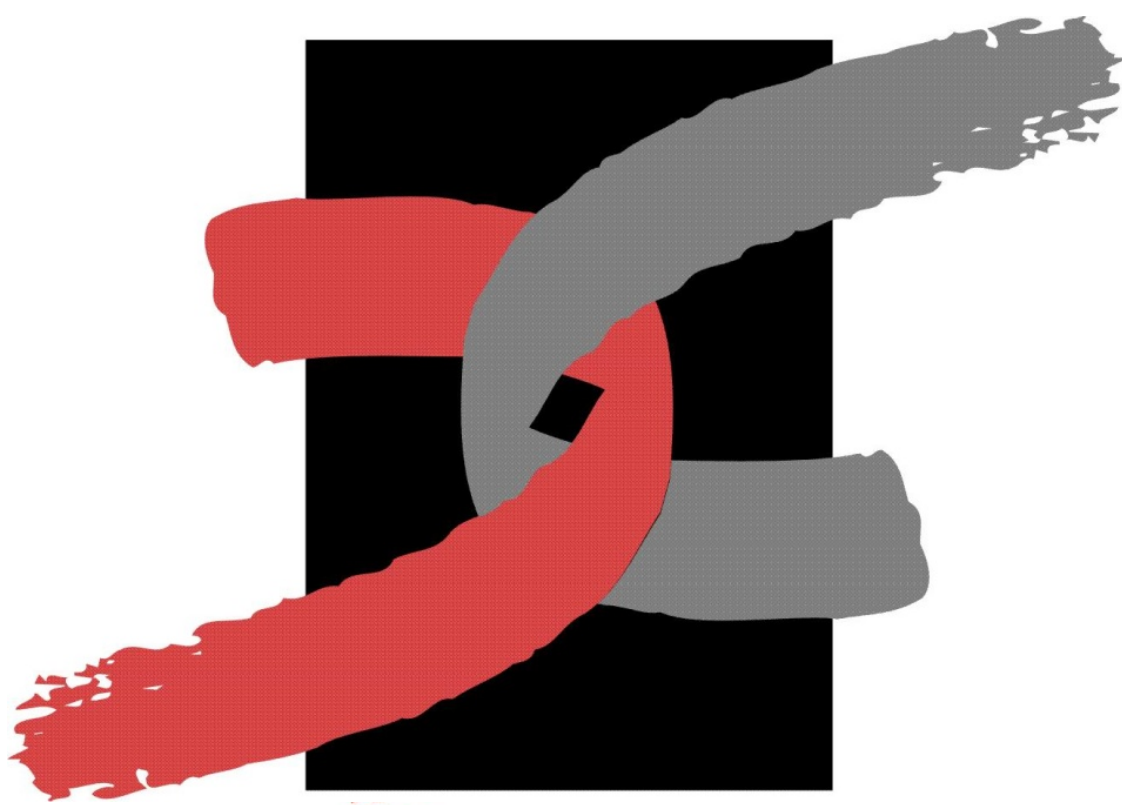
Agricultural towing systems

Drawbar couplings

PIN DRAWBAR COUPLINGS

| Series | Homologation | Description | ∅ |  |  |
|---|---|--------------------------------|-------|---|---|
| E 40  |  | 94/20/CE Automatic rigid | 40 mm |  |  |
| EH 45  |  | 94/20/CE Automatic oscillating | 45 mm |  | |
| NUOVOLUPO  | CUNA NC 138-55 | Manual oscillating | 45 mm |  | |
| E 50  |  | 94/20/CE Automatic rigid | 50 mm |  |  |
| EH 50  |  | 94/20/CE Automatic oscillating | 50 mm |  | |

7. Our Web-site
WWW.ORLANDI.IT



V. ORLANDI

S I S T E M I D I T R A I N O

 THANKS FOR YOUR KIND ATTENTION!

 GRAZIE PER LA VOSTRA ATTENZIONE!