



H. Cegielski - Fabryka Pojazdów Szynowych Sp. z o.o.

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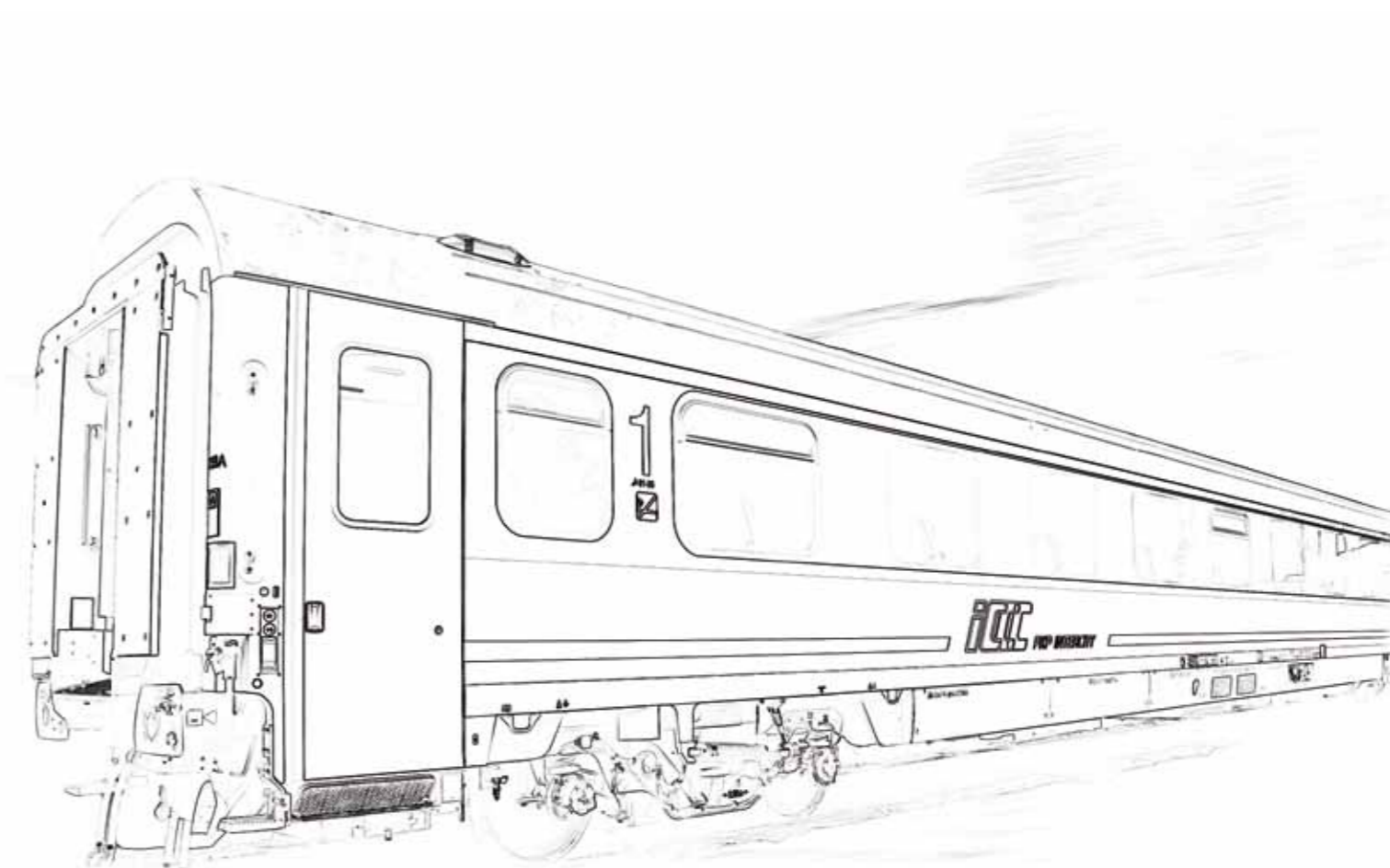
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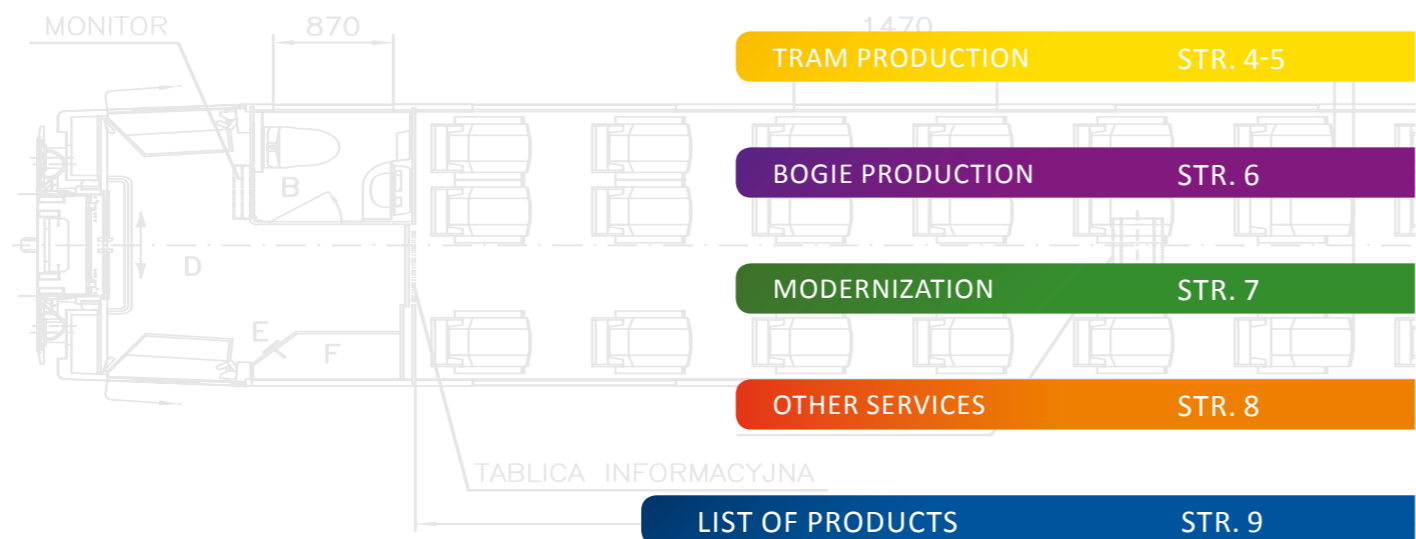
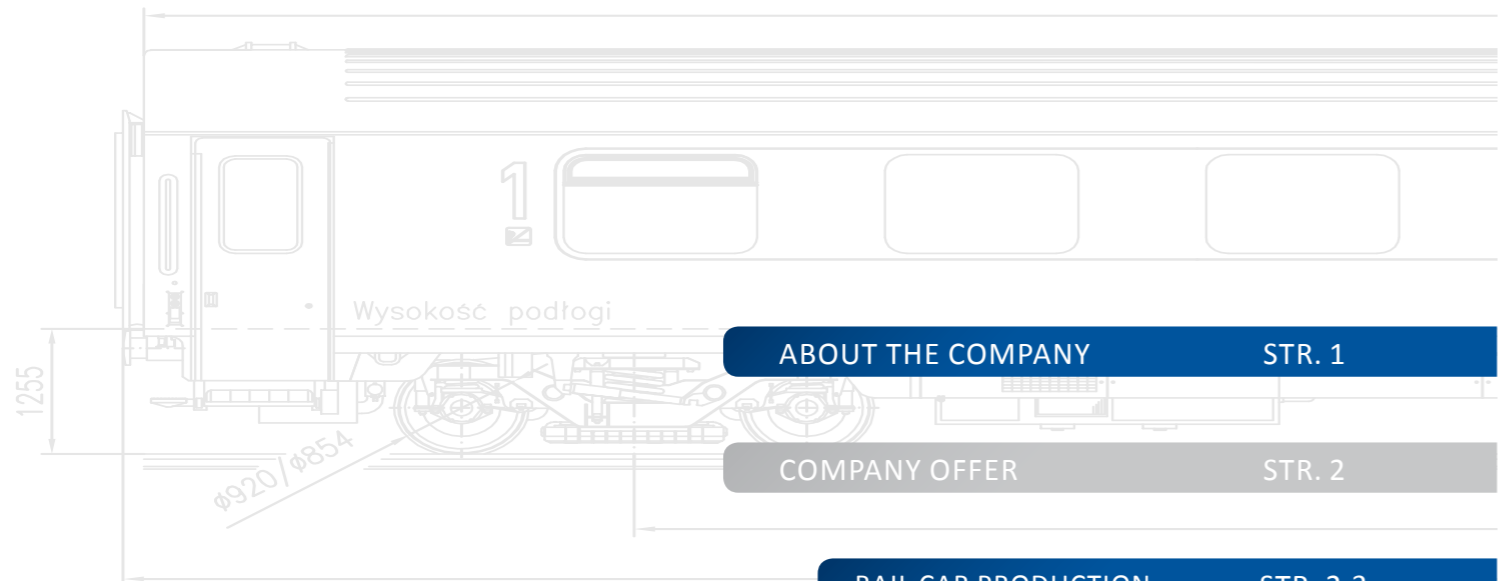
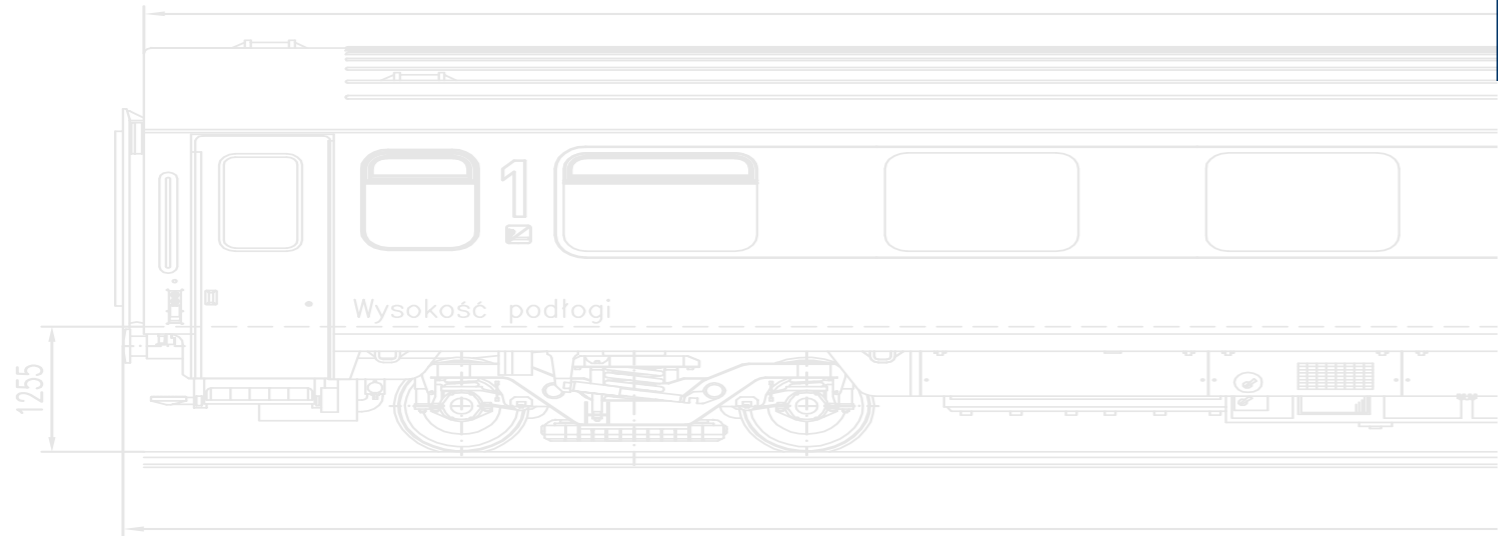
H. CEGIELSKI – FABRYKA POJAZDÓW SZYNOWYCH Sp. z o.o.

## H. CEGIELSKI – FABRYKA POJAZDÓW SZYNOWYCH SP. Z O.O.



**WITH TRADITION INTO THE FUTURE**

# ABOUT THE COMPANY



H. Cegielski – Fabryka Pojazdów Szynowych Sp. z o.o. has many years' experience in the design and production of rail vehicles.

H. CEGIELSKI - POZNAŃ (HCP) was established in 1846. Its 150-year history can be divided into stages, marked by products from different branches entering production.

The first rail cars rolling off the assembly line with the 'Cegielski' logo were manufactured in 1921. In 1926 the factory started to produce steam locomotives and from 1931 until the outbreak of WWII Cegielski manufactured motorized railcars and trams.

Since 1946 the Rail Car Factory (renamed the Locomotive and Rail Car Works in 1967) has manufactured approximately:

- 13,500 rail cars (1st and 2nd class passenger cars including couchette cars, sleeping cars, restaurant and cargo units) and
- 800 locomotives (diesel line and electric line and shunting locomotives).

In 1997, as a result of the reorganisation of the company, the H. Cegielski – Fabryka Pojazdów Szynowych Sp. z o.o. was founded on the grounds of the former Locomotive and Rail Car Works, which continued rolling stock production and services.

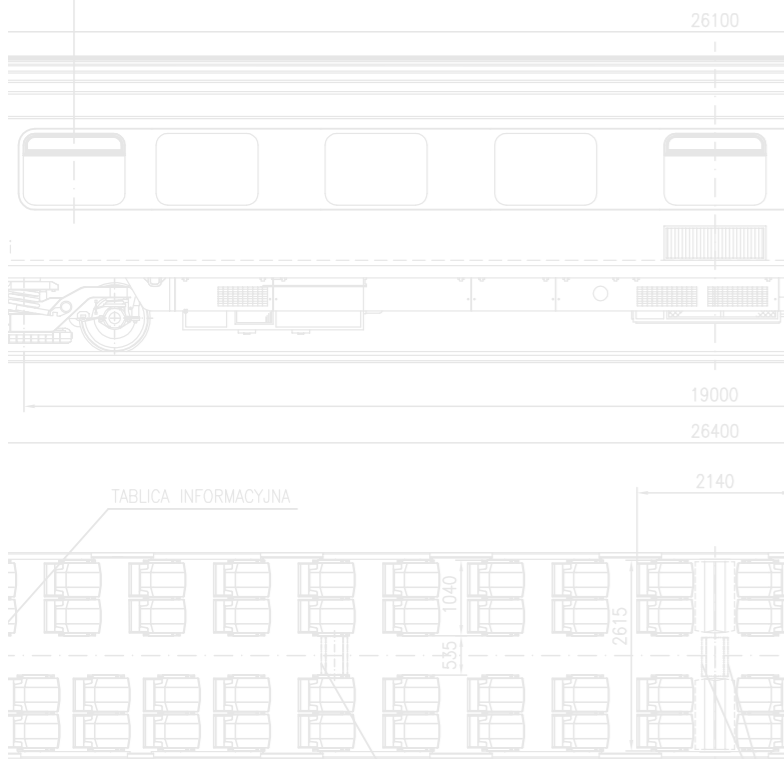


As of 26 March 2010, 100% of the shareholdings in H. Cegielski – Fabryka Pojazdów Szynowych Sp. z o.o. were assumed by Agencja Rozwoju Przemysłu S.A. (Industrial Development Agency), which became the sole proprietor of the company.

## OVER 90 YEARS EXPERIENCE

# COMPANY OFFER

Widok po stronie przeciwnej WC



1ST CLASS OPEN SALOON PASSENGER CAR

FPS is the only Polish manufacturer and supplier of new rail cars, both passenger cars designed for speeds of up to 200 km/h and sleeping cars designed for international connections with maximum speeds of 200 km/h.



FPS rail cars are built according to the latest achievements and European standards in the production of rail cars designed for speeds of up to 200 km/h. They are characterized by modern performance, top quality equipment and high product reliability. The design solutions used ensure an extremely smooth ride and guarantee a high level of comfort to passengers.

## PRODUCTION OF RAIL CARS:

- passenger cars: 1st and 2nd class, with compartments or open saloon, restaurant, bar, sleeping and business-class cars designed for speeds up to 200 km/h on rail track with 1435 mm or 1520 mm in gauge, fitted with full air-conditioning, vacuum toilet system, anti-slip system, pneumatically driven doors, and diagnostic system,
- industrial cars (flatbed rail cars)



2ND CLASS OPEN SALOON PASSENGER CAR

Rail cars made by FPS stand out for their modern interior design and comfortable ergonomic seats, LED lighting and full traveling information displayed on monitors, as well as an electronic seat reservation system.



## MODERN, COMFORTABLE, SAFE



SLEEPING CAR - TYPE 305Ad



SLEEPING CAR - TYPE 305Ad2



### The advantages of our rail cars:

- noise level below allowable limits,
- very smooth ride,
- compliance with all safety requirements regarding fire retardant materials,
- modern and efficient electric power units
- air-conditioning system providing passenger comfort,
- environmentally friendly vacuum toilet system

# TRAM PRODUCTION



118N "PUMA" TRAM

## The tram design:

- offers a high level of traveling comfort and safety,
- guarantees a smooth ride,
- is friendly to disabled passengers,
- is technically advanced,
- guarantees low wear of parts during operation,
- is environmentally friendly,
- is easy to maintain,
- is relatively cheap to operate and maintain,
- is resistant to vandalism,
- ensures reduction of wheel/rail interaction during curving.



118N "PUMA" low floor tram provides outstanding comfort for passengers. Modern, efficient and reliable.

M O D E R N  
E F F I C I E N T  
R E L I A B L E

- DC / AC low floor trams
- Low floor trailer tram cars
- Single-section trams with DC power electronic drive system



NB4 LOW FLOOR TRAILER TRAM CAR



123N TRAM

123N single-section tram car, fitted with three large clearance pop&turn doors facilitating passenger circulation.



# BOGIE PRODUCTION

## Basic technical specifications:

- Gauge: 1435 mm
- Wheelbase: 2500 mm
- Wheel Diameter New:  $\varnothing 920$  mm
- Wheel Diameter Worn:  $\varnothing 854$  mm
- Maximum speed: 200km/h
- Maximum Wheelset load: 16 ton/axle



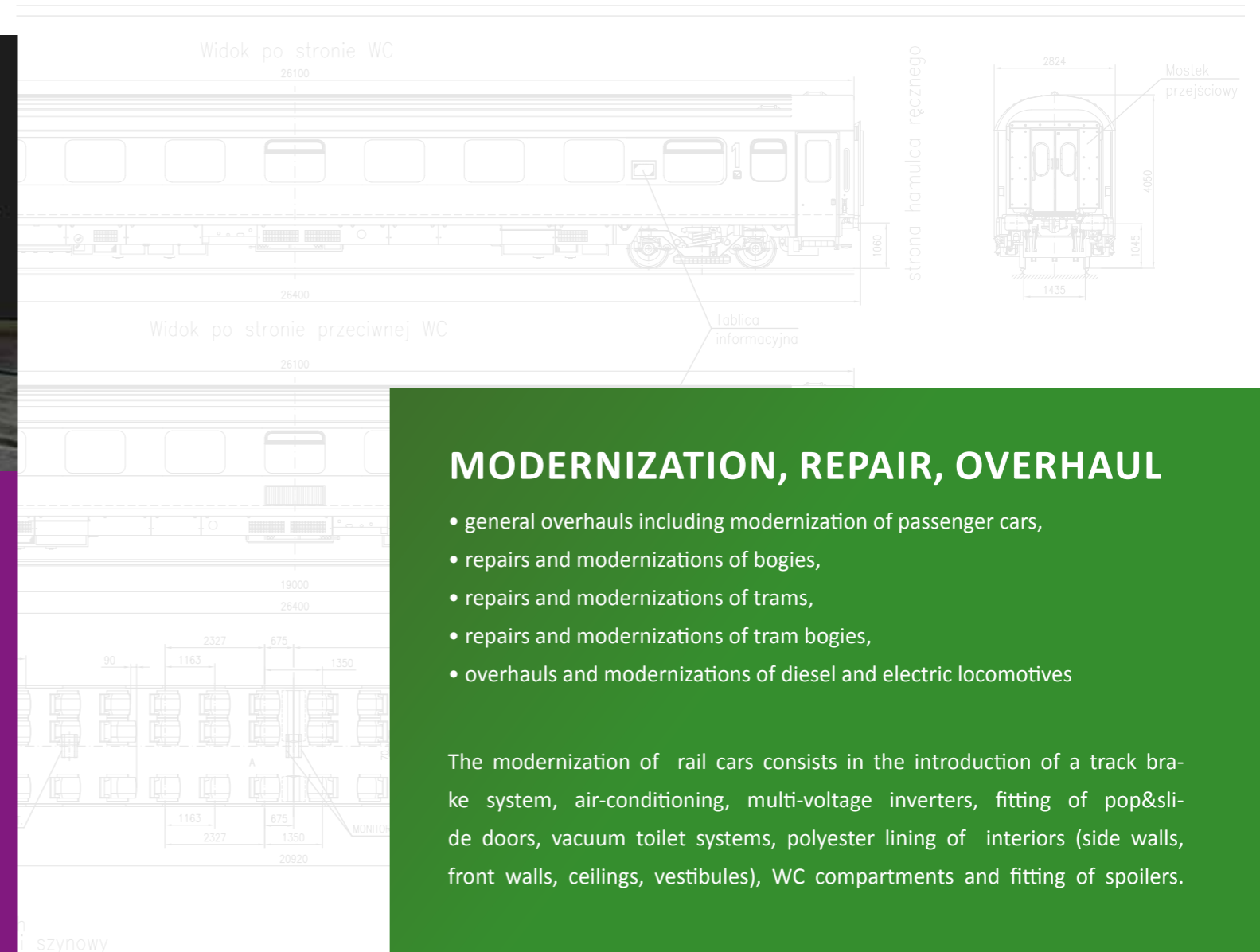
## PRODUCTION OF THE 25ANa FAMILY OF BOGIES

The 25ANa family bogies designed for passenger cars for over 15 years have successfully been operated on Polish tracks and on international connections across Western Europe. The 25ANa bogies have very good running parameters and provide a very high level of comfort for passengers. These bogies require no maintenance in normal use. Periodic inspections and repairs require little work. The design of the bogies enables them to be easily fitted to new and modernized rail cars during periodic repair work.

The excellent design of the bogies allows them to be used for a wide range of rail cars including sleeping cars, 1st and 2nd class compartment passenger cars, 1st and 2nd class open saloon passenger cars.



# MODERNIZATION



## MODERNIZATION, REPAIR, OVERHAUL

- general overhauls including modernization of passenger cars,
- repairs and modernizations of bogies,
- repairs and modernizations of trams,
- repairs and modernizations of tram bogies,
- overhauls and modernizations of diesel and electric locomotives

The modernization of rail cars consists in the introduction of a track brake system, air-conditioning, multi-voltage inverters, fitting of pop&slide doors, vacuum toilet systems, polyester lining of interiors (side walls, front walls, ceilings, vestibules), WC compartments and fitting of spoilers.

We carry out periodic repairs as well as repairs after malfunctions or accidents.

The rail cars are modernized in line with the latest technological trends, always improving the comfort of travel. They are modern in style and use top quality fittings.



# OTHER SERVICES

- Welded structures – carbon steel, stainless steel and aluminum
- Manufacturing of complete rail car, rail bus and tram bodywork
- Welding of bogie frames
- Brake beams for high speed articulated trains, rocker frames and beams, frames of cargo rail cars and other specialized welded structures
- Painting of rail vehicles and metal structures
- Measurements of wheel set loads and vehicle weighing

**PROFESSIONAL AND HIGHLY QUALIFIED STAFF**

The company continuously develops and extends the range of services offered to domestic and international customers. Our many years' experience in the production of rolling stock guarantees successful completion of all types of orders using modern technology. Our economic and technological potential together with the professionals we employ guarantee the high quality of our products.

**TOP QUALITY**

Rail cars manufactured by FPS have been awarded a multitude of prizes at various trade fairs and have received the prestigious 'Europrodukt' title.

**EFFECTIVE ACTION**



**KNOWLEDGE PASSED DOWN THE GENERATIONS**

The factory uses a Quality Management System based on ISO 9001 standards that is also integrated with the ISO 14001 compliant Environment Management System and holds the relevant certificates issued by the Polish Ship Register and Germanischer Lloyd GmbH.

FPS has been approved to weld rolling stock confirmed by a relevant European certificate.



# LIST OF PRODUCTS

PRODUCT	QUANTITY*
1st class passenger cars	1454
2nd class passenger cars	5437
Passenger cars for disabled passengers	2
'MIX' type passenger cars (with 1st and 2nd class compartments)	197
Couchette cars	5640
Sleeping cars	40
Refreshment bar cars	359
Passenger-luggage cars	282
Special cars (restaurant, saloon)	14
'Business Class' passenger cars	2
Industrial cars - WG-80 flatbed rail cars	2
Industrial cars - WG-160 flatbed rail cars	1
Industrial cars - WGk-20 flatbed rail cars	1
Industrial cars - WGN-20 flatbed rail cars	1
Diesel railcars	13
Freight cars	2
Diesel locomotives	326
Electric one-unit line locomotives	242
Electric double-unit line locomotives	200
Electric shunting locomotives	4
Low floor trams	11
Single-section trams	30
NB4/4NBWE low floor trailer tram cars	60

\*number of products made up till April 2012