TRAMS

pesa

TRAMS

1. Innovation
2. Safety
3. Flexibility
4. Environmental care
5. Handicapped friendly
6. Modularity

TRAMS

POLAND

HUNGARY

RUSSIA

ROMANIA

BULGARIA

POLAND

PESA TRAMS

VEHICLE CHARACTERISTICS

Modern design

matching the city's aesthetics

Safety

protection of passengers and crew

PESA control systems

innovative, adapted to the carrier's requirements

PESA information systems

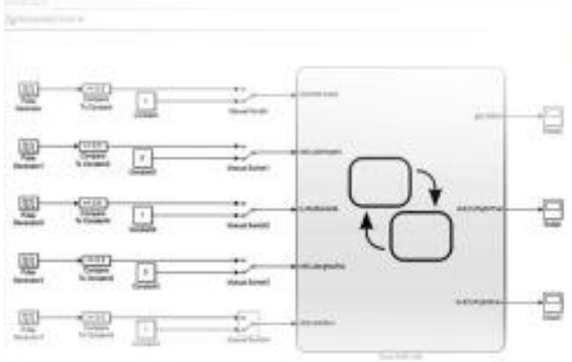
PI[D]S Passenger,
OA[D]S Onboard,
[D]VAS (Onboard) Voice,
CCTV Closed Circuit systems

Customization

ability to use any sub-suppliers depending on the customer's requirements

Variety of bogies

a wide range of available cars which can be adapted to any vehicle structure



ONLINE DIAGNOSTICS

REMOTE MONITORING OF THE PARAMETERS AND STATE OF THE VEHICLE'S DEVICES, PROVIDING THE ABILITY TO TRANSMIT INFORMATION TO THE OPERATOR AND TO PESA'S MAINTENANCE SERVICE

WI - FI

BOStrab

GOST

THE HIGHEST POSSIBLE SAFETY STANDARDS

COLLISION RESISTANCE

EN 15227 standard

Passenger and driver safety

thanks to the energy absorption zone providing protection from the effects of a collision – this reduces the excess loads acting on the vehicle and thus also on the passengers and driver inside

Absorption zone

prevents damage and deformation of the vehicle structure in case of collision

MODULAR

VEHICLES CAN BE ADAPTED TO THE CUSTOMER'S INDIVIDUAL REQUIREMENTS

FRIENDLY

ADAPTED TO THE NEEDS OF DISABLED USERS

ECOLOGICAL

ENERGY RECUPERATION, RECYCLABLE MATERIALS

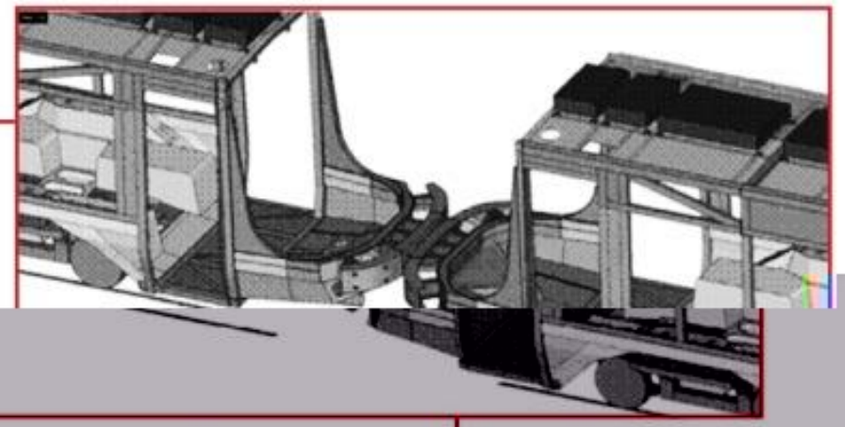
SAFETY

COLLISION RESISTANCE

EN 15227 standard

Passenger and driver safety

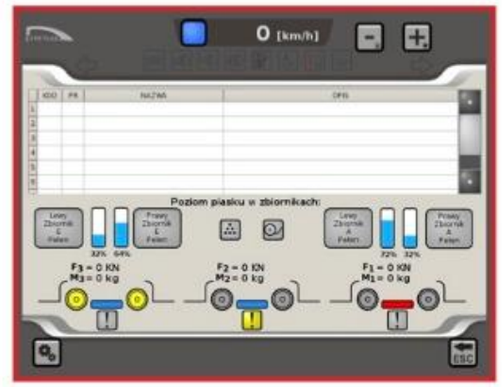
thanks to the energy absorption zone providing protection from the effects of a collision – this reduces the excess loads acting on the vehicle and thus also on the passengers and driver inside



Absorption zone

prevents damage and deformation of the vehicle structure in case of collision

ON-LINE DIAGNOSTICS




Gdańsk

PIV / CIV

THE HIGHEST POSSIBLE SAFETY STANDARDS

100% LOW FLOOR

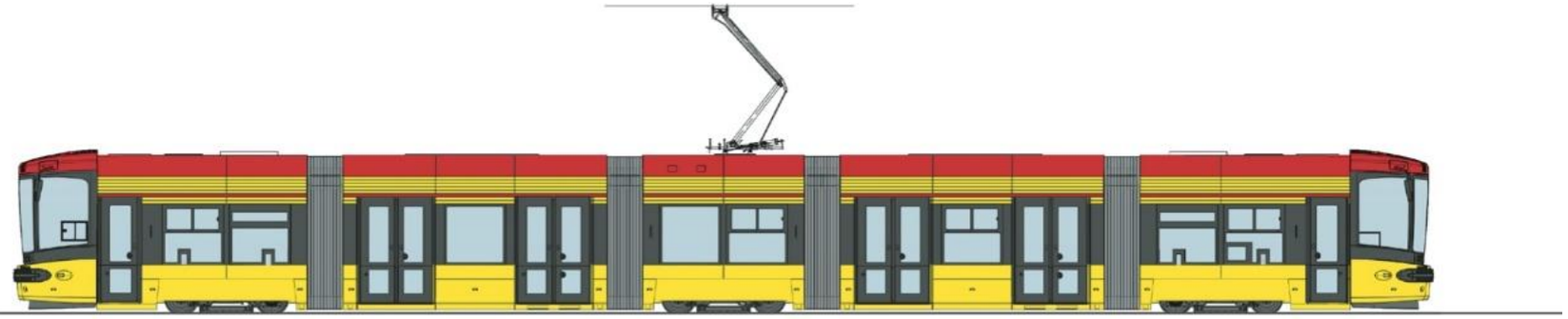
SAFETY AND COMFORT OF TRAVEL FOR PASSENGERS WITH REDUCED MOBILITY

ORIGINAL DESIGN

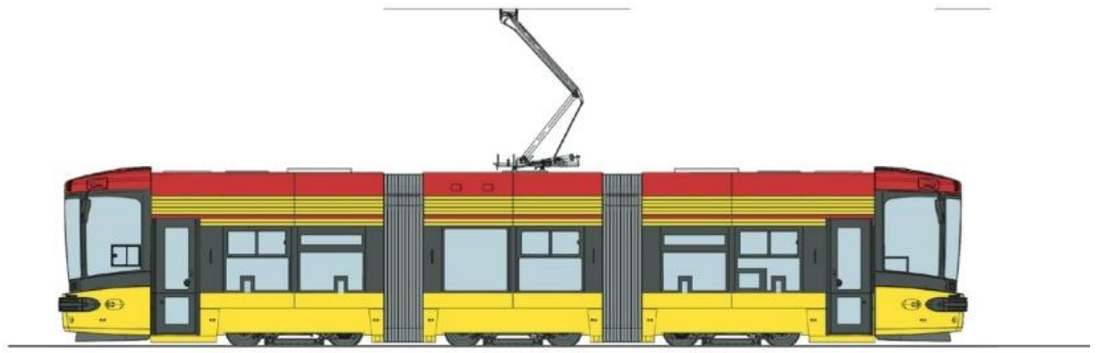
MATCHING THE CITY'S AESTHETICS

Vehicle family

7 units



5 units



3 units

Poland

TWIST

PIV / CIV

THE HIGHEST POSSIBLE SAFETY STANDARDS

100% LOW FLOOR

SAFETY AND COMFORT OF TRAVEL FOR PASSENGERS WITH REDUCED MOBILITY

ORIGINAL DESIGN

MATCHING THE CITY'S AESTHETICS

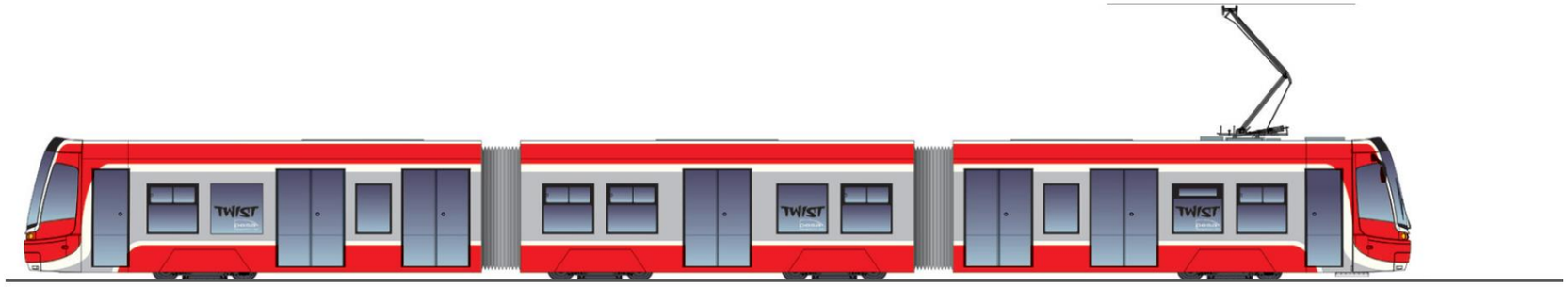
TWIST – technical data

Principal technical data for the Twist tram family (2–4 units)	
Number of units	2/3/4
Length	22 700 – 42 830 mm
Width	2 300 – 2 650 mm
Height	3 500 – 3 700 mm
Number of seats	from 32 to 156
Number of standing places	from 95 to 211
Entrance height	from 300 mm
Low floor	up to 100%
Track gauge	1 000 – 1 524 mm
Maximum speed	up to 80 km/h
Voltage	600 – 750 V
Vehicle lifetime	up to 35 years
Directions	uni-/bidirectional
Wheel size new / used	600–520 mm

TWIST

Vehicle family

4 units



3 units

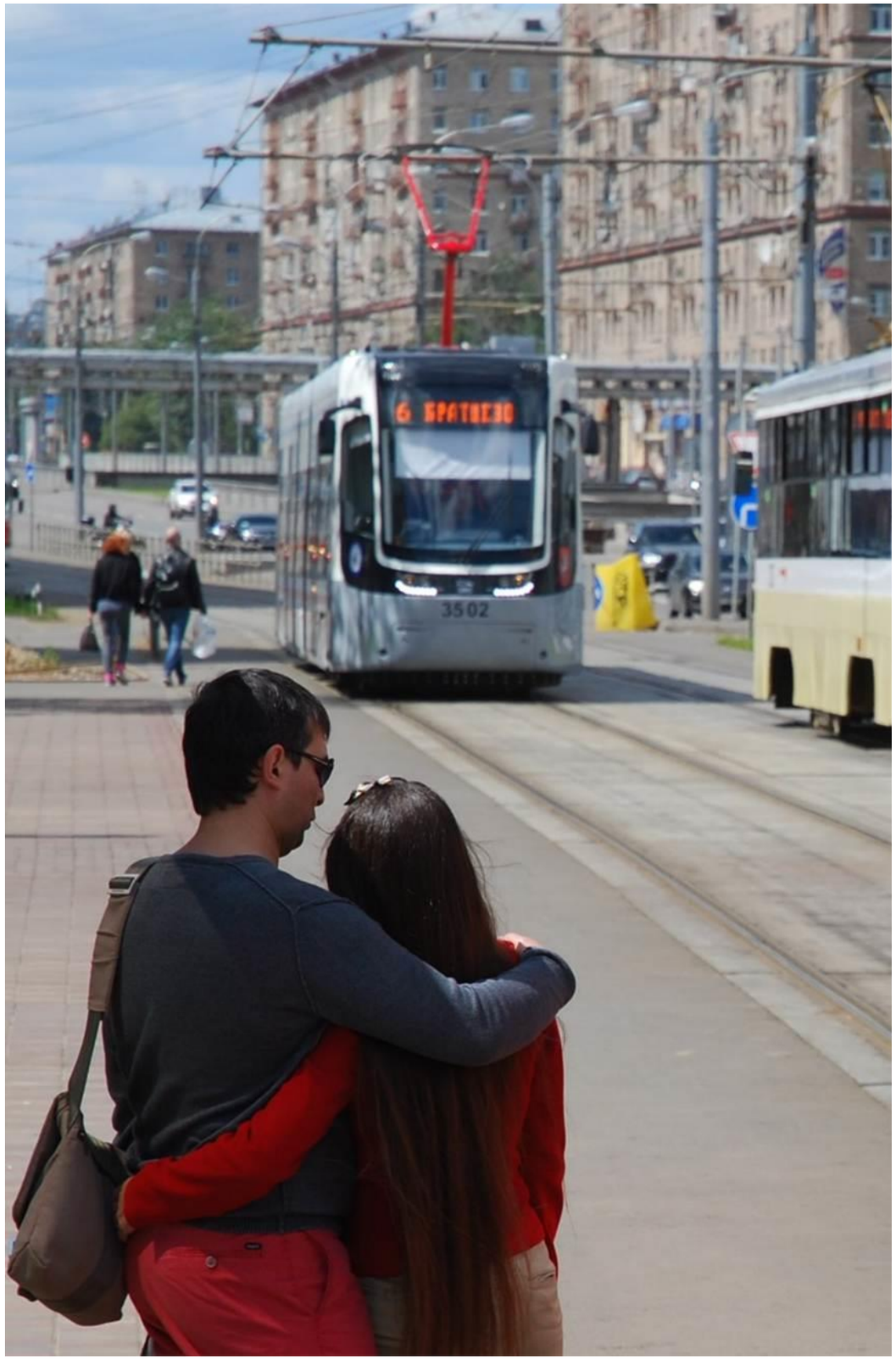
2 units

TWIST

Poland

fakstrot

FORWARD



GOST

THE HIGHEST POSSIBLE
SAFETY STANDARDS

100% LOW FLOOR

SAFETY AND COMFORT OF TRAVEL
FOR PASSENGERS WITH
REDUCED MOBILITY

- 40˚C + 40˚C

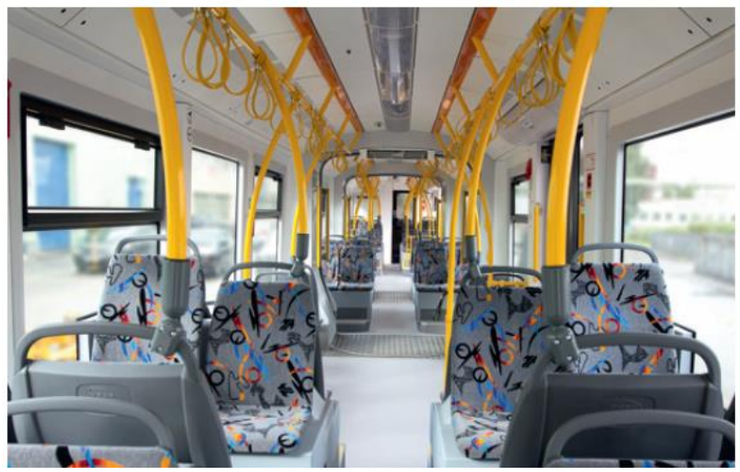
WIDE TEMPERATURE RANGE

FORWARD – technical data

Principal technical data for the Fokstrot FORWARD tram	
Number of units	3
Length	26 255 mm
Width	2 300 – 2 650 mm
Height	3 700 mm
Number of seats	from 56 to 80
Number of standing places	from 124 to 155
Entrance height	370 mm
Low floor	100%
Track gauge	1 000 – 1 524 mm
Maximum speed	75 km/h
Voltage	600 – 750 V
Vehicle lifetime	up to 35 years
Directions	uni-/bidirectional
Wheel size new / used	630–550 mm
Temperature range	-40˚C to +40˚C

fakstrot
FORWARD

Moscow



SWING

PIV / CIV

THE HIGHEST POSSIBLE SAFETY STANDARDS

100% LOW FLOOR

SAFETY AND COMFORT OF TRAVEL FOR PASSENGERS WITH REDUCED MOBILITY

ORIGINAL DESIGN

MATCHING THE CITY'S AESTHETICS

SWING – technical data

Principal technical data for the Swing tram family (3–7 units)	
Number of units	3/5/7
Length	19 370 – 43 400 mm
Width	2.300 – 2 650 mm
Height	3 430 – 3 850 mm
Number of seats	from 18 to 70
Number of standing places	from 60 to 290
Entrance height	330–350 mm
Low floor	100%
Track gauge	900 – 1 524 mm
Maximum speed	up to 80 km/h
Voltage	600–750 V
Vehicle lifetime	up to 35 years
Directions	uni-/bidirectional
Wheel size new / used	680 mm – 600 mm

SWING

Vehicle family

7 units

5 units

3 units

SWING

Poand

SWING

Hungary

SWING

Romania

www.pesa.pl

SWING

Bulgaria

Trams Future

LRV Future

LRV Future

www.pesa.pl

Thank You

PESA Bydgoszcz SA