

we make  
processes  
work



**DERAILMENT PROTECTION**



**TRADE & TRUST**



**WORKSHOP TEST EQUIPMENT**



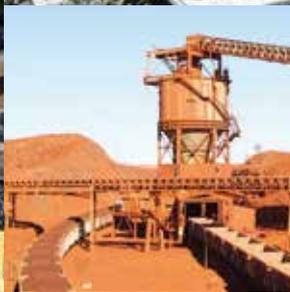
## TRADE & TRUST

Precise measurement and legal-for-trade weighing? The Trade & Trust product range includes systems for internal checkweighing and legal-for-trade weighing results as the basis for calculating the weight of individual wagons and train sets.



### **MULTIRAIL® LegalWeight**

are the legal-for-trade, dynamic track scales for high-precision weighing of solids and liquids in accordance with EU directive 2004/22/EC (MID) and OIML R106 and US Certificate of Conformance: NIST Handbook 44 and NCWM Publication 14.\*



### **MULTIRAIL® TrainLoadOut**

can weigh wagons immediately before and after loading thanks to precision measuring technology. This allows maximum use to be made of wagon capacity without the wagon weight exceeding the permitted track load.



### **MULTIRAIL® SpeedWeight**

records the weight of wheels, axles and wagons at any speed between 10 km/h and 250 km/h. The system identifies vehicles with critical load statuses (e.g. overloading or tilted loads) on the track section.

### **MULTIRAIL® MultiBridge**

allows the static or dynamic weighing of individual tank wagons or entire train sets. Data and weights are recorded legal-for-trade using weighing electronics and processed using a PC system adapted to the customer.

\*Schenck Process also offers **MULTIRAIL® IDentify**, a reliable and convenient system for automatic wagon number recognition.



# MULTIRAIL®

## **Paving the way for increased safety.**

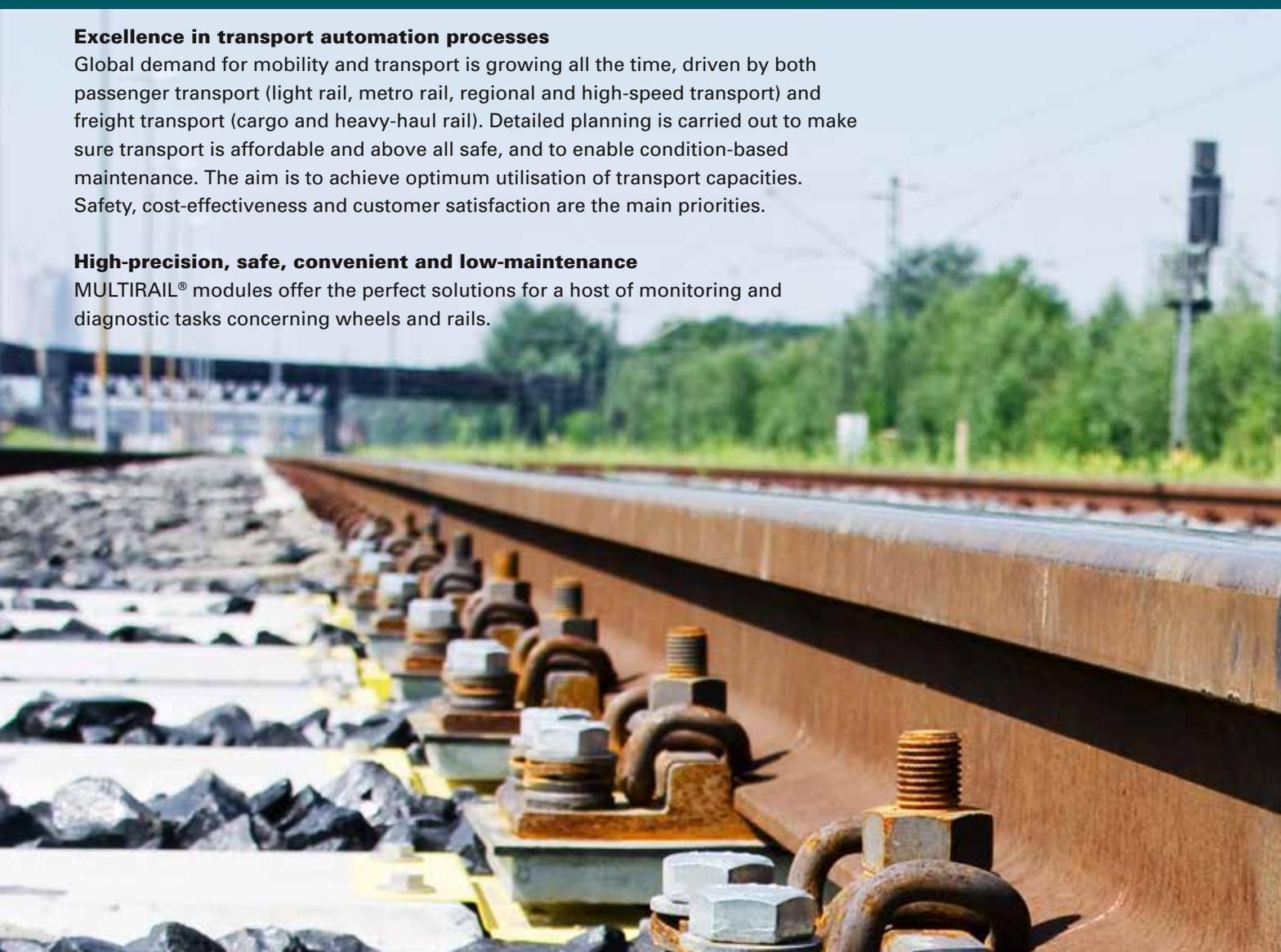
A sign of our times: more and more people and materials need to reach their destinations faster than ever before. Schenck Process MULTIRAIL® helps you do just that.

### **Excellence in transport automation processes**

Global demand for mobility and transport is growing all the time, driven by both passenger transport (light rail, metro rail, regional and high-speed transport) and freight transport (cargo and heavy-haul rail). Detailed planning is carried out to make sure transport is affordable and above all safe, and to enable condition-based maintenance. The aim is to achieve optimum utilisation of transport capacities. Safety, cost-effectiveness and customer satisfaction are the main priorities.

### **High-precision, safe, convenient and low-maintenance**

MULTIRAIL® modules offer the perfect solutions for a host of monitoring and diagnostic tasks concerning wheels and rails.





## WORKSHOP TEST EQUIPMENT

Quiet, comfortable and low-wear trains are the result of intensive development work. Schenck Process helps vehicle manufacturers and maintenance workshops to take reliable measurements in bogie checks and corner load measurements.



### **MULTIRAIL® BogieLoad**

is part of a new generation of bogie test rigs fit for the future. One prominent feature is the fully electro-mechanical design with spindle technology which ensures extremely efficient work practices and high levels of precision.

### **MULTIRAIL® CornerLoad**

uses direct force measuring technology to measure the distribution of load and centre of gravity of the rail car body in accordance with DIN 25043. In this way it accurately measures the forces that impact on the bogie. Precision on the test rig.

### **MULTIRAIL® WheelLoad**

is used for the static and dynamic monitoring of axle loads and vertical wheel forces of locomotives and wagons. It measures wagon weights, monitors the wagon's centre of gravity and calculates weight distribution in the bogie.

### **MULTIRAIL® SandPiper**

is the stationary or mobile sand filling station from Schenck Process. Using pneumatic conveying, it transports sand from the silo into a rail vehicle's sand box.



## DERAILMENT PROTECTION

Wheel diagnosis at track speed? Prevention of derailment? Schenck Process track-based systems determine the safety-relevant load statuses of trains. As well as preventing derailments, through the measurement of noise emissions they also help to make rail transport more acceptable to local residents.



### **MULTIRAIL® WheelScan**

accurately diagnoses the wheels while the train is in motion, checking for circularity deviations, vertical wheel forces and load distributions. The system identifies vehicles that could damage the track due to excessive dynamic forces or overloading.



### **MULTIRAIL® InterScan**

when in motion, localises the Y and Q forces produced at a rate of several thousand measurements a second to promptly detect high loads in both directions. A reliable measurement is therefore possible, even at high track speeds.



### **MULTIRAIL® Wheel&Guide Load**

analyses all technical characteristics of rail vehicles, which is essential for acceptance purposes. Tests on the test track include the precise measurement and analysis of forces, loads and running characteristics.



### **MULTIRAIL® Acoustic**

is an on-track acoustic and vibration measuring system that calculates and monitors the noise and vibration load to which local residents are exposed.



# SCHENCK PROCESS GROUP – YOUR PARTNER WORLDWIDE

500.02.15 dj - All information is given without obligation. Subject to change.

## We want your rolling stock to remain in service for years to come.

That's why we offer comprehensive advice and support throughout the process, from the installation of the scales to assistance with weighing, maintenance, on-time calibration and inspection.

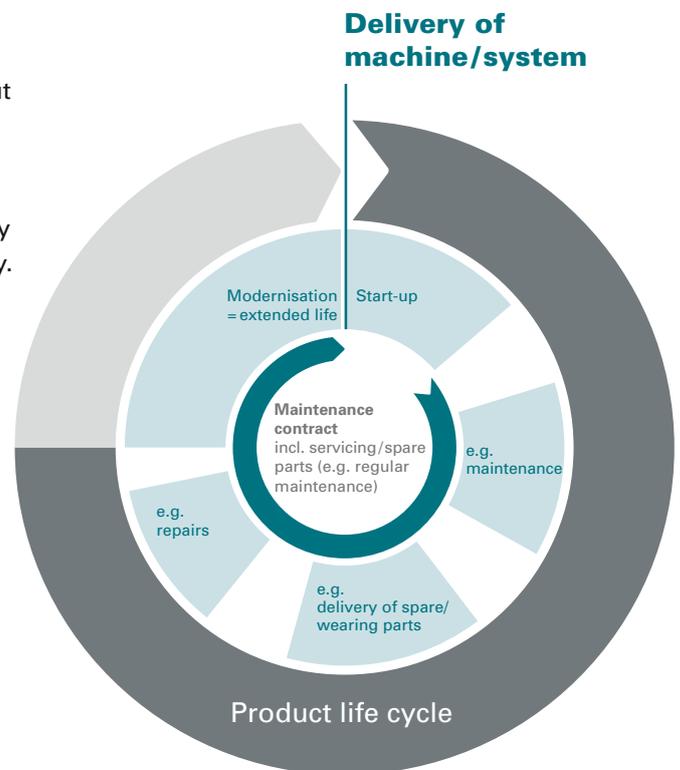
We arrange to have the necessary calibration carried out, either by Schenck Process or by the specified authority or independent body.

Take advantage of our expert support:

- ❖ Maintenance
- ❖ Calibration
- ❖ Inspection
- ❖ Phone & Remote Service

Schenck Process employs around 3000 people in 22 countries on five continents. With 22 state-of-the-art assembly facilities, more than 130 agencies and over 30 service bases around the globe, we produce leading technological products for industrial weighing, conveying, feeding, screening, automation, and air filtration technology.

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