



KNORR-BREMSE



EKA

GENERAL CATALOGUE

2026

ABOUT US

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EKA-Knorr-Bremse is an experienced and trusted partner within the rail vehicle industry.

Specializing in design, development, and production of testing equipment for **Knorr-Bremse, Oerlikon, Westinghouse** and other braking systems.

Our Mission

is to provide a high-quality product that enhances the safety, efficiency, and lifespan of every system we support. To combine technical expertise with a customer-focused approach to deliver solutions that meet the highest industry standards.

Commitment

We are committed to precision, safety, and long-term reliability, to delivering solutions that keep fleets operating at peak performance.

We are also experienced in developing individual test equipment for single parts, i.e. buffers, shock absorbers and high-tech valves, rail equipment. Our solutions are critical for ensuring the safety and reliability of railway operations worldwide.

Why Choose Us

- Certified expertise backed by Knorr-Bremse standards
- Reliable service processes ensuring consistent quality
- Fast response and support for operators and maintenance teams
- Commitment to safety and innovation in every project



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MOBILE TEST BENCHES

Designed for maximum flexibility, our mobile devices provide precise diagnostics directly on the tracks or in depots where space and infrastructure are limited.

General Features

- Modular design (MI-8 series)
- Easy transport with ruggedized trolley cases for every terrain
- Battery-powered autonomy for field operations
- Rapid setup and automated generation of PDF test results immediately after testing
- Testing of complete brake systems on freight wagons, passenger coaches, locomotives, and EMU/DMU trains



In the evolving railway industry, the MI-8 series is built on a modular architecture, specifically designed to adapt to the unique operational needs and technical challenges of our clients.

MI-8 BSK

Order Code: **TM008m13**

Functional Features

Automatic testing of brake systems acc. to UIC543-1, VPI07 or RiL900.0080. Integrated Brake Force measurement.

Measuring vehicle braking pressures. Obtains signals from sensors connected to the entry ports

Supply (not regulate) air to the main reservoir pipe (main pipe).

Controls the pressure in the Brake Pipe and independently in two T-pipes.

An automatic test is initiated by a single operator via a PC with pre-installed software.

Custom-made protocols defined by the customer.

Two operational positions (standing/sitting).



Technical Specifications

• Power Supply:	220 V AC / Built-in 12V/7Ah Accumulator
• Overall Dimensions (LxWxH):	600x700x1130 mm
• Operating Time:	Min. 5 hours (Battery Mode)
• Pneumatic Supply:	Min. 6.5 bar
• Inputs (Analog):	9 Current inputs / 3 Voltage inputs
• Outputs (Digital):	7 Transistor outputs
• Mass:	76 kg
• Operating Temperature:	-10°C to +45°C
• Accuracy:	0.5%FS Pressure Sensors / 1%FS Force Sensors
• Data Interface:	RS232 (Asynchronous optical isolated)
• A/D Conversion	12 bit

MI-8 BSK

Order Code: **TM008m13**

Modules



Applications

- Freight wagons
- Passenger coaches
- EMU/DMU trains
- Locomotives
- Railroad maintenance vehicles

MI-8 HUB

Order Code: **TM011m02**

Functional Features

Automatic testing of brake systems acc. to UIC543-1, VPI07 or RiL900.0080. Integrated Brake Force measurement.

Measuring vehicle braking pressures. Obtains signals from sensors connected to the entry ports

Supply (not regulate) air to the main reservoir pipe (main pipe).

Controls the pressure in the Brake Pipe and independently in three T-pipes.

An automatic test is initiated by a single operator via a PC with pre-installed software.

Custom-made protocols defined by the customer.

Two operational positions (standing/sitting).



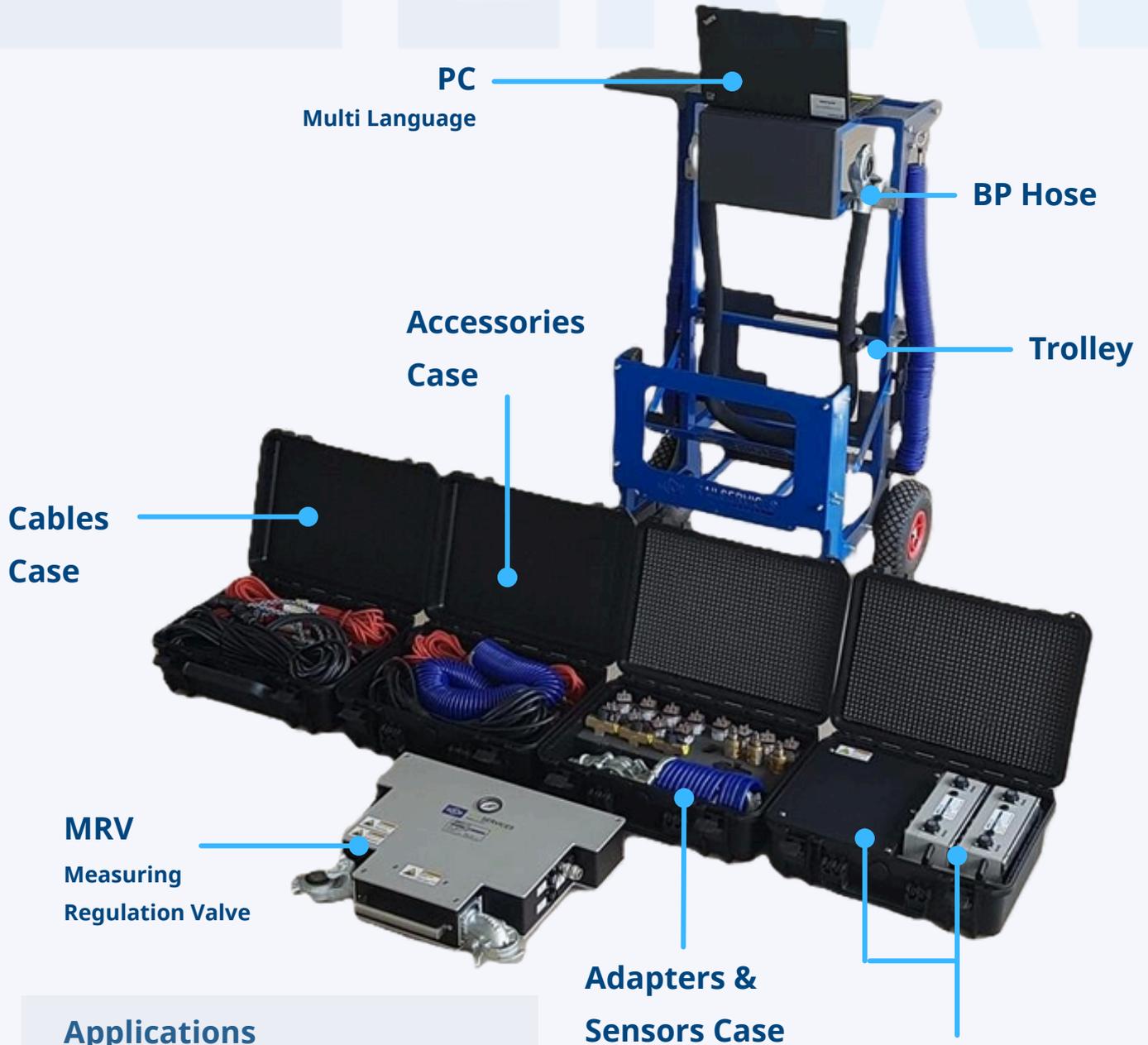
Technical Specifications

• Power Supply:	220 V AC / Built-in 12V/7Ah Accumulator
• Overall Dimensions (LxWxH):	600x700x1130 mm
• Operating Time:	Min. 5 hours (Battery Mode)
• Pneumatic Supply:	Min. 6.5 bar
• Inputs (Analog):	21 Current inputs / 8 Voltage inputs
• Outputs (Digital):	7 Transistor outputs
• Mass:	93 kg
• Operating Temperature:	-5°C to +45°C
• Accuracy:	0.5%FS Pressure Sensors / 1%FS Force Sensors
• Data Interface:	RS232 (Asynchronous optical isolated)
• A/D Conversion	12 bit

MI-8 HUB

Order Code: **TM011m02**

Modules



Applications

- Freight wagons
- Passenger coaches
- EMU/DMU trains
- Locomotives
- Railroad maintenance vehicles

PIKO 20 HUB
Electronic
Control Module
with 2 HUB Modules

MI-8 ASCTD

Order Code: **TM018m01**

Functional Features

Automatic testing of KB-CTU electro-pneumatic brake systems. With self calibration capabilities.

Single Car Test per 49 CFR 238.311 executed acc. to APTA Standard SS-M005-98, Rev.4, EC Pressure Equipment Directive (2014/68 / EU) of May 15, 2014, EMC Directive (2004/108 / EC) of 15 December 2004, UL

Regulates pressure in the Main Pipe, Brake Pipe and Load Weight pipes. 4 independent software controlled discrete pressure regulators

IP65 rated. All interface connectors are MIL-STD (MIL-SPEC)

MCU AIDO – microprocessor unit for DAQ and digital outputs, reading sensors and driving electropneumatic valves from/to car under test.

MCU AO – microprocessor unit for analog outputs, driving the programmable voltage and current supplies.

WI-FI router – provides internal network for remote work capabilities.



Technical Specifications

• Main power supply:	0-110VDC+/-30% (60Hz)
• Power Supply:	5V, 9V, 15V, Internal supply voltages
• AC-DC Variable Voltage Supply:	0-120VDC, 3.5A - programmable voltage
• Current source:	100-500 mA - programmable
• Pneumatic Supply:	9.65-12 bar
• Mass:	177 kg
• Operating Temperature:	-25°C to +52°C
• Accuracy:	0.25%FS Pressure Sensors (0-12 bar range)
• Data Interface:	RS485 multidrop serial communication, 921600bps
• A/D Conversion	15 bit

MI-8 ASCTD

Order Code: **TM018m01**

Modules



Calibration Capabilities

External Calibration Module enables operator to perform scheduled calibration.



PIKO 20

Order Code: **TM020m01**

Functional Features

A portable Data Acquisition & Analysis device designed for diagnostics of rolling stock braking system.

Operator interface via included Laptop with EKA analysis software.

Included are 8 force sensors & 2 pressure sensors enabling simultaneous monitoring of multiple measuring points of the braking system.

Wireless Wi-Fi connectivity enables remote control via the Laptop.

Automatic sensor zeroing.

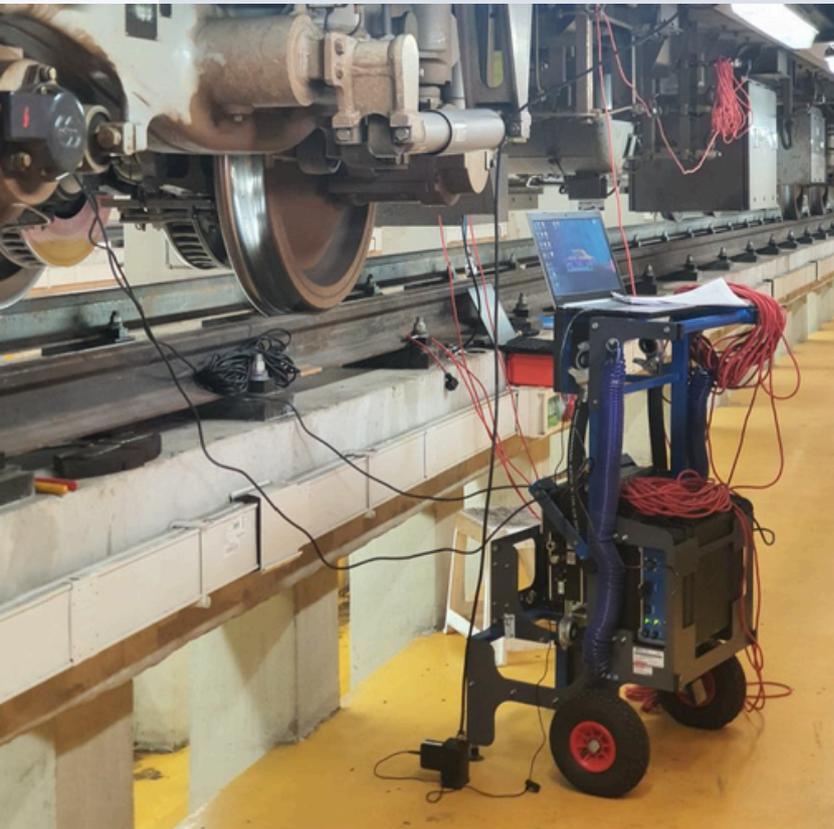
Integrated rechargeable Battery power supply.



Technical Specifications

• Power Supply:	220 V AC / Built-in 12V/7Ah
• Overall Dimensions (LxWxH):	362 x 462 x 177 mm
• Battery Operating Time:	Min. 5 hours
• Mass:	8 kg
• Operating Temperature:	0°C to +40°C
• Accuracy:	0.5%FS Pressure Sensors / 1%FS Force Sensors
• Data Interface:	RS232 (Asynchronous optical isolated)
• A/D Conversion	12 bit

MI-8 SERIES IN THE FIELD



STATIONARY TEST BENCHES

Robust, complex automated electro-pneumatic systems designed for fixed installation in maintenance workshops and testing laboratories, these test benches offer capabilities regarding detailed inspection and verification of individual railway brake and bogie components according to customer requirements.

Brake Components

- Distributor Valves
- Relay Valves
- Driver Brake Valves
- Weighing Valves

Bogie Components

- Buffers
- Coil Springs
- Leaf Springs
- Slack Adjusters

Tugging Equipment

Brake Containers



Production of our Stationary Test Benches is project related, as this enables our customers to receive a tailored solution to their requirements, compliant with UIC and EN standards for component certification and validation.

TEST BENCH FOR DISTRIBUTOR & RELAY VALVES

Model No. **TS012m01**

Functional Features

Executes automatic testing protocols for various valve models acc. to UIC:

KE, RLV, Du, SV, EPZ, EB3-S

Single operator handles testing

Expansion Capabilities (Software & Mechanical)

High level precision:
Pressure Regulation
Measurements

Software Adjustable
Chokes

Software Adjustable
Cylinder strokes

Industrial Panel PC with
pre-installed EKA testing
software



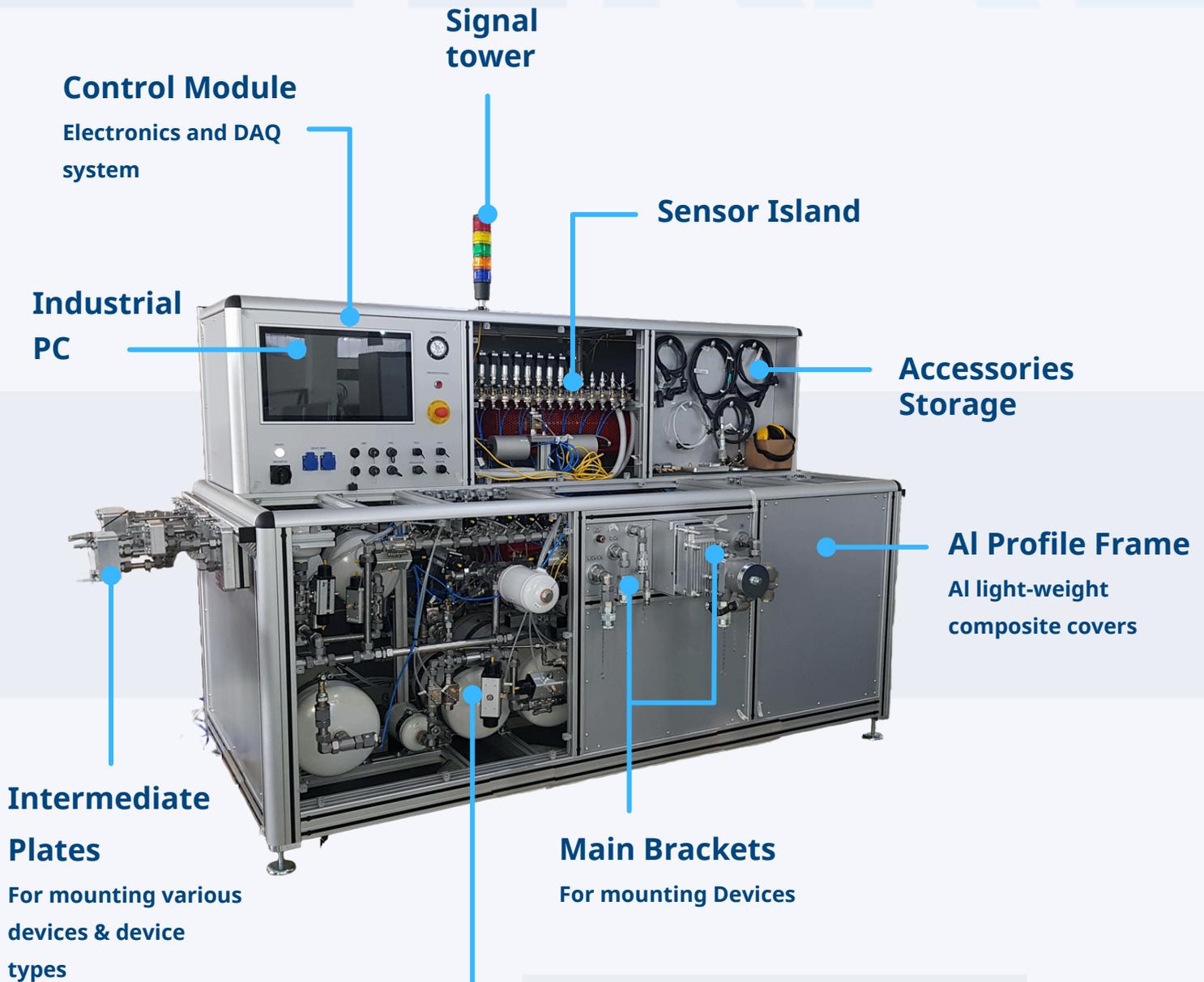
Technical Specifications

• Power Supply:	230 V / 50-60 Hz
• Overall Dimensions (LxWxH):	1500 x 3450 x 1925-2050 mm
• Noise level:	Max. 70 dB(A)
• Pneumatic Supply:	10-11.5 bar, DN25
• Operating Pressure:	10 bar
• Mass:	2000 kg
• Operating Temperature:	+5°C to +40°C
• Accuracy:	0.1%FS Pressure Sensors (0 ÷ 10 bar)

TEST BENCH FOR DISTRIBUTOR & RELAY VALVES

Model No. TS012m01

Construction



Inside the Test Bench

Two 14" Brake Cylinders with a software controlled adjustable stroke mechanism

Two software controlled adjustable Chokes

TEST BENCH FOR RELAY VALVES

Model No. **TS018m01**



Functional Features

Executes automatic testing protocols for various Relay Valve models acc. to UIC:

RLV, ALR, AKR

Single operator handles testing

Expansion Capabilities (Software & Mechanical)

High level precision: Pressure Regulation Measurements

Software Adjustable Choke

Industrial Panel PC with pre-installed EKA testing software

Construction Principle as described for Model No. TS012m01 (pg. 13)

Technical Specifications

• Power Supply:	230 V / 50-60 Hz
• Overall Dimensions (LxWxH):	1348 x 2138 x 2093 mm
• Noise level:	Max. 80 dB(A)
• Pneumatic Supply:	10 bar, DN25
• Operating Pressure:	10 bar
• Mass:	1200 kg
• Operating Temperature:	+5°C to +40°C
• Accuracy:	0.1%FS Pressure Sensors (0 ÷ 10 bar)

TEST BENCH FOR DISTRIBUTOR, RELAY & DRIVER BRAKE VALVES

Model No. **TS028m01**



Construction Principle as described for Model No. TS012m01 (pg. 13)

Functional Features

Executes automatic testing protocols for various valve models acc. to UIC:

KE, FE, KEL, KR, DU, ZB, CM-BP-A, M8AS, SA1, FD1, D

Single operator handles testing

Expansion Capabilities (Software & Mechanical)

High level precision: Pressure Regulation Measurements

Software Adjustable Chokes

Software Adjustable Cylinder strokes

Industrial Panel PC with pre-installed EKA testing software

Technical Specifications

- | | |
|-------------------------------|--|
| • Power Supply: | 230 V / 50-60 Hz |
| • Overall Dimensions (LxWxH): | 1584 x 3100 x 2145 mm |
| • Noise level: | Max. 75 dB(A) |
| • Pneumatic Supply: | Max. 11.5 bar, DN25 |
| • Operating Pressure: | 10 bar |
| • Mass: | 2000 kg |
| • Operating Temperature: | +5°C to +40°C |
| • Accuracy: | 0.1%FS & 0.25%FS Pressure Sensors (0 ÷ 10 bar) |

TEST BENCH FOR DISTRIBUTOR, RELAY & DRIVER BRAKE VALVES

Model No. TS028m01

IN THE WORKSHOP



TEST BENCH FOR WEIGHING VALVES

Model No. **TS026m01**



Functional Features

Executes automatic testing protocols for weighing valves:

DP1, DP 2M, DP 2YM, MV2 MF, WM 10

Single operator handles testing.

Control Pult with a PC with pre-installed EKA testing software

Technical Specifications

- | | |
|-------------------------------|----------------------|
| • Power Supply: | 230 V / 50-60 Hz |
| • Overall Dimensions (LxWxH): | 1230 x 820 x 1900 mm |
| • Pneumatic Supply: | 5 bar |
| • Mass: | 1000 kg |
| • Operating Temperature: | +10°C to +40°C |
| • Force Sensor | 0 - 50 kN |

TEST BENCH FOR SLACK ADJUSTER

Model No. **TS019m01**



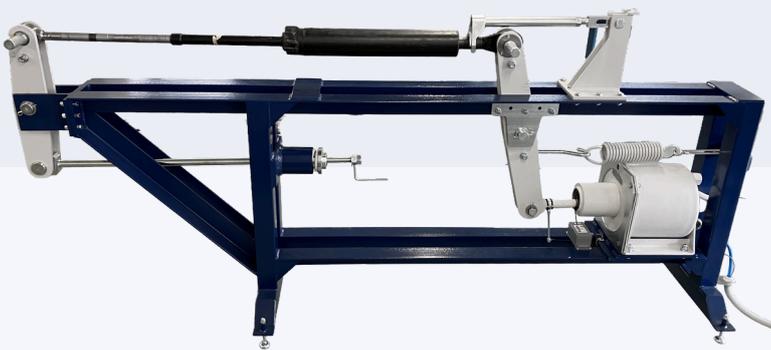
Functional Features

Executes automatic testing protocols for Slack Adjuster types: **DRV, RKPL, SZ**

Single operator handles testing.

Control Pult with a PC with pre-installed EKA testing software.

Mechanical assembly similar to rolling stock rigging



Model No. **TS025m02**

Technical Specifications	TS025m02	TS019m01
• Power Supply:	230 V / 50-60 Hz	230 V / 50-60 Hz
• Overall Dimensions (LxWxH):	1840 x 3973 x 2000 mm	1840 x 4116 x 2000 mm
• Pneumatic Supply:	Min. 5 bar, Max. 10 bar	Min. 5 bar, Max. 10 bar
• Mass:	700 kg	1300 kg
• Operating Temperature:	-10°C to +40°C	-10°C to +40°C
• Distance Sensor	0.1 mm Resolution Class 1	0.1 mm Resolution Class 1

TEST BENCH FOR SLACK ADJUSTERS

Model No. **TS019m01**

Construction

Note

TS019m01 offers a higher level of automation and test complexity



Slack Adjuster

Control Pult

Industrial PC

Al Profile

Steel Mechanical Assembly

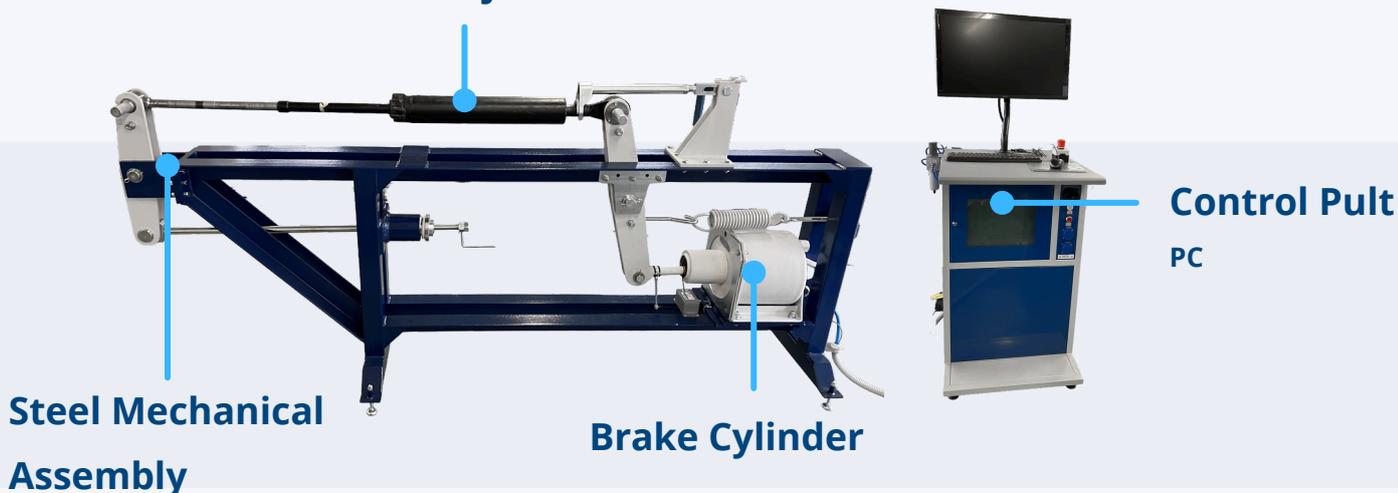
Inside the Test Bench

Protective Cage

Al light-weight composite covers

Brake Cylinder & Software controlled distance adjusting mechanism

Slack Adjuster



Steel Mechanical Assembly

Brake Cylinder

Control Pult
PC

Model No. **TS019m01**

Note

TS025m02 offers a simpler and cost-effective solution for testing mainly DRV Series Slack Adjusters

TEST BENCH FOR BUFFERS, COIL SPRINGS & TOWING EQUIPMENT

Order Code: TS015m02



Functional Features

Executes automatic testing and controlling buffers and coil springs.

Test bench can automatically draw a diagram for dynamic load.

Easily customizable for different or simultaneous testing of buffers systems and towing couplers.

Technical Specifications

- | | |
|--------------------------------|-----------------------|
| • Power Supply: | 230 V / 50-60 Hz |
| • Overall Dimensions (LxWxH): | 2700 x 1000 x 2333 mm |
| • Motor Power: | 3.3 kW |
| • Cylinder stroke: | 300 mm |
| • Mass: | 1200 kg |
| • Operating Temperature: | +5°C to +45°C |
| • Distance sensor: | 0 ÷ 300 mm |
| • Force Sensor (Buffers): | 1000 kN |
| • Force Sensor (Coil Springs): | 100 kN |
| • Temperature Sensor: | -20°C to +40°C |

TEST BENCH FOR BUFFERS AND COIL SPRINGS

Order Code: TS015m02



TEST BENCH FOR SMALL SPRINGS

Order Code: **TS009m03**



Functional Features

Executes automatic testing of brake system valve components i.e. small coil and helical springs.

Automatically draws load and deformation diagrams.

Ability to test compression and extension springs.

Stepper motor and ball screw mechanism actuation.

Technical Specifications

- | | |
|-------------------------------|--------------------------------|
| • Power Supply: | 380 ÷ 415 V AC |
| • Overall Dimensions (LxWxH): | 375 x 330 x 919 mm |
| • Motor Power: | 0.1 kW |
| • Mass: | 44 kg |
| • Operating Temperature: | +10°C to +40°C |
| • Distance sensor Resolution: | +/-0,002mm (5 mm per rotation) |
| • Force Sensor I: | 0 ÷ 30 N, 9 ÷ 12V, ± 0.2%FS |
| • Force Sensor II: | 0 ÷ 1000 N, 9 ÷ 12V, ± 0.2%FS |
| • A/D conversion | 15 bit, 921600bit/s |
| • Sampling speed | 50 ms |

Your Partner for Longevity and Precision of your Testing Equipment

The success of railway operators and maintenance centers depends on the accuracy and reliability of their measurement equipment.

EKA provides comprehensive support for all our stationary and mobile machines through a dedicated department for service and calibration.



Dedicated Specialist Team

We have established a specialized team of experienced engineers and technicians, dedicated exclusively to the maintenance and support of our systems.

This team is trained to handle complex technical challenges ensuring minimal downtime for your operations.



SERVICES



RAILSERVICES

Maintenance

We provide full-service diagnostics, maintenance, and complete refurbishment for all our stationary and mobile test benches. From mechanical components to pneumatic systems and electronics, restoring your equipment to peak performance.

Calibration

We perform regular calibration of sensors and measurement channels in accordance with the latest UIC and EN standards. Ensuring your test results are always internationally recognized



Professional Training

Our commitment continues long after delivery. Our teams conduct in-depth theoretical and practical training for your staff, ensuring they can operate, maintain, and analyze data from all of our products.

System Upgrades

We offer modernization and software upgrades for older generations of equipment, ensuring they remain compliant with the latest industry technologies and regulations.



Overhaul & Refurbishment

We offer refurbishment of used and old equipment and products, as well as a complete overhaul of used or old equipment and products.

As part of our mission to maximize the longevity and precision of testing equipment in the field, our technical and engineering departments can restore old equipment to full functionality.

Before & after examples of our **Overhaul & Refurbishment** services for an old Test Bench for Slack Adjuster.



EKA MARKETS

EKA



European countries UIC

Main Segments:
Freight wagons
Passenger coaches
Locomotives



Africa UIC

Main Segments:
Freight wagons
Passenger coaches
Locomotives

Asia UIC

Main Segments:
Freight wagons
Passenger coaches



North America AAR

Main Segments:
Passenger coaches



CERTIFICATION



BUREAU
VERITAS

Bureau Veritas Certification



EKA d.o.o.e.l.

Ul. Aleksandar Urdarevski 30 No. 94, 1000 Skopje, North Macedonia

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2015

Scope of certification

Design, development and manufacturing of measuring and testing equipment for breaking systems for rail vehicles.

Original cycle start date:	30-03-2010
Expiry date of previous cycle:	29-03-2025
Certification / Recertification Audit date:	28-02-2025
Certification / Recertification cycle start date:	30-03-2025
Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on:	29-03-2028

Certificate No.: **SI012044** Version: 1 Issue date: 28-03-2025



0008

Signed on behalf of BVCH SAS UK Branch

Certification Body Address: 5th Floor, 100 Lower Thames Street, London, EC3R 6DL, United Kingdom

Local office: Linhartova cesta 49a, SI - 1000 Ljubljana, Slovenia

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +386 1 47 57 670

CER CERTIF ALL TPL 001 Rev 4.3

1/1

4 Nov 2024

CERTIFICATION

Zertifikat



0129-2021-311

über den Nachweis der Bahntauglichkeit



Das Bremsprüfgerät **MI-8 Transformer BSK** des Herstellers **EKA d.o.o.e.l.** bestehend aus den Baugruppen - **MRV BSK** (EA031m2), **Piko 20** (EA012m3) in Verbindung mit den Drucksensoren **SP003m1** - in der Hardwareversion **TM008** mit der Software für Bremsprüfungen nach VPI 07 Ausgabe 04 in der **Software-Version 2.0** ist für den Einsatz für

Bremsprüfungen nach VPI 07 Ausgabe 04

bei der DB AG geeignet. Der Einsatz gilt unbefristet.

Auflagen: Die Eignung wird aberkannt, wenn:

- Mängel im Einsatz auftreten, die die Betriebssicherheit gefährden,
- Mängel durch die Entwicklerfirma nicht kurzfristig beseitigt werden,
- durch Mängel erhebliche Behinderungen im Einsatz auftreten.

Dem Zertifikat liegen zugrunde:

- Bericht: 20-60641-001 vom 20.12.2021
- Funktionale Überprüfung der Hardware für den Werkstatteinsatz
- Prüfung der Dokumentation
- Funktionale Überprüfung der Software
- Regelwerksabgleich VPI 07 Ausgabe 04
- Manuelle Bremsprüfungen nach Regelwerk
- Automatisierte Bremsprüfungen nach Regelwerk
- Störungssimulationen

i.V.
L TT.TVE 31 Dr. Dörsch

Digital unterschrieben
von Stefan H Dörsch
Datum: 2021.12.20
14:19:42 +01'00'

i.A.
TT.TVE 31(1) Uwe Koppotsch

Uwe
Koppotsch
2021.12.20
14:04:54
+01'00'

CERTIFICATION



Österreichische Bundesbahnen
Technische Services

Engineering Güterwagen
Winkeläckerweg 1
A-1210 Wien

Zulassung für Bremsprüfgerät

technische Freigabe

für: Bremsprüfgerät Knorr EKA Mi-8

allg. Bestimmungen: ÖBB-TS Ril 862.09.00

Hersteller: EKA d.o.o.
Pero Nakov 128
1000 Skopje, Macedonia

Gültigkeitszeitraum: ab 07.05.2015

Grundlage für die Freigabe:

fachtechnische Begutachtung gemäß Protokoll
„Vorfuehrung MI_8 Jd 19_02_2015.pdf“

Ausführung: Es muss ein Prüfprogramm verwendet werden welches der ÖBB-TS
Richtlinie 862.09.00 entspricht.
Geräteanschlüsse nach ÖBB-spezifischer Notwendigkeit
Angabe und Abstimmung der Zeitdauer der Bremsprüfung mit ÖBB-TS
Prüfprogramm.

Widerruf der Zulassung:

Bremsprüfprogramm entspricht nicht ÖBB-TS Richtlinie 862.09.00

ÖBB-TS Eng GW
Wien, am 07.05.2015


.....
(Ing. Philipp Herincs BSc)

ÖBB-TS Eng GW
Wien, am 07.05.2015


.....
(Ing. Günther Jaksch)

ÖBB-TS Eng Systeme
Wien, am 07.05.2015


.....
(Ing. Christian Gruböck)

CERTIFICATION



Engineering GmbH

- : CE-Beratung und Zertifizierung
- : Maschinen- und Anlagensicherheit
- : Technische Dokumentation
- : Brand- und Umweltschutz
- : Baustellenkoordination
- : ISO 9000, ISO 14001, OHSAS 18001
- : Datenschutz
- : Arbeitssicherheit
- : Arbeitsmedizin

Inspection Report

No. 1049-04-15

Date: 17.02.2016

Inspection place:

Knorr Bremse AG, Moosacher Str. 80, 80809 München

Project:

Verification of compliance with the following norms:

- Machinery Directive 2006/42/EG
- Low Voltage Directive 2006/95/EG

Machine:

Test Bench: PIKO-20, MI TRANSFORMER, S.No.012, year of manufacturing 2016

Manufacturer:

EKA d.o.o., Ul. Aleksandar Urdarevski 30No.94, Skopje, Republic of Macedonia

Other applicable documents:

- Risk analysis according to EN ISO 12100:2011-03
- Risk analysis according to EN 60204-1:2014-10
- EMC test report No. C251-0046/16 von SIQ (Slovenian Institute of Quality and Metrology)



Zertifiziert durch die Gesellschaft
für Qualität im Arbeitsschutz mbH



IFS-Engineering GmbH : An der Leite 16 : 96193 Wachenroth : USt-IdNr. DE 265448453
Geschäftsführer : Dipl. Sicherheitsingenieur Holger Vogel : HRB 11941 Amtsgericht Fürth
Telefon +49 95 48 98 20 27-0 : Fax +49 95 48 98 20 27-29 : Mail info@ifs-infoweb.de
Bankverbindung : Raiffeisenbank Ebrachgrund eG BLZ 770 690 91 Konto 415600
IBAN: DE77 7706 9091 0000 4156 00 : BIC: GENODEF15FD

CERTIFICATION



Result:

After taking care of all deficiencies of the risc analysis the manufacturer can

- issue the declaration of conformity according to European Guidelines .
- affix the "CE" mark.

Inspected by:

Holger VOGEL

Signature:

A handwritten signature in blue ink, appearing to read 'Holger Vogel', written over a horizontal line.



Engineering GmbH

An der Leite 16
96193 Wachenroth
Tel.: 09548/9820270
Fax: 09548/98202729

Stamp



Zertifiziert durch die Gesellschaft
für Qualität im Arbeitsschutz mbH



IFS-Engineering GmbH : An der Leite 16 : 96193 Wachenroth : USt-IdNr. DE 265448453
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IBAN: DE77 7706 9091 0000 4156 00 : BIC: GENODEF1SFD