

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Россия +7(495)268-04-70

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

Казахстан +7(7172)727-132

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97

Киргизия +996(312)96-26-47

Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

www.rohmann.nt-rt.ru | | rni@nt-rt.ru

Технические характеристики на системы вихретокового контроля колес самолетов EloWheel КОМПАНИИ ROHMANN

Eddy current test systems



EloWheel 800 RPT17 and EloWheel 1000 RPT16

eddy current testing system for aircraft rims

With the EloWheel RPT17 and RPT16, aircraft rims up to a diameter of 800 mm or 1000 mm and a maximum weight of 250 kg can be tested. The associated EloWheel software visualizes the eddy current signals in such a way that the test results can be reliably evaluated. The system condition is permanently monitored and visually displayed to the operator.

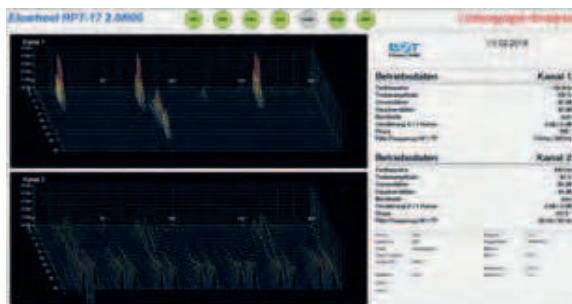
A comparison of historical and current data allows to track the life cycle of individual rims. The design of the test mechanics permits tests with the highest throughput and ensures the required test resolution. Particular attention was paid to user-friendliness and ergonomics.

Eddy current test systems



Mechanics produced by Rohmann LP, test instruments and software by Rohmann GmbH

Software EloWheel RPT17 and RPT16



EloWheel RPT16



- ▶ Fast testing speed of up to 120 rpm for smaller wheels
- ▶ precise linear guidance with a high-quality axis motor control enables vibration-free probe guidance
- ▶ Double testing of surface and interior possible with a double test probe, HF and NF testing in one operation
- ▶ Current hardware components and software version (Windows 10)
- ▶ C-scan image
- ▶ Offline evaluation (e.g. with Office Scanalyzer license)
- ▶ Database-driven file system for the completed checks including search function
- ▶ Test report as PDF or direct printout incl. C-Scan
- ▶ Reliable heavy steel frame construction
- ▶ Complete clamping of the wheel half during inspection

- ▶ Remote maintenance access and connection to company network possible

New features of the EloWheel RPT17

- ▶ Compensation unit on clamping cylinder for mechanical decoupling
- ▶ Flexibly positionable control cabinet
- ▶ Low space requirement of the system with integrated and smooth-running operator protection
- ▶ Connection to external databases possible
- ▶ Turntable positioning on defects by means of servo drives and axial position laser
- ▶ Can be integrated into partially or fully automated conveyor lines



EloWheel

by Rohmann LP

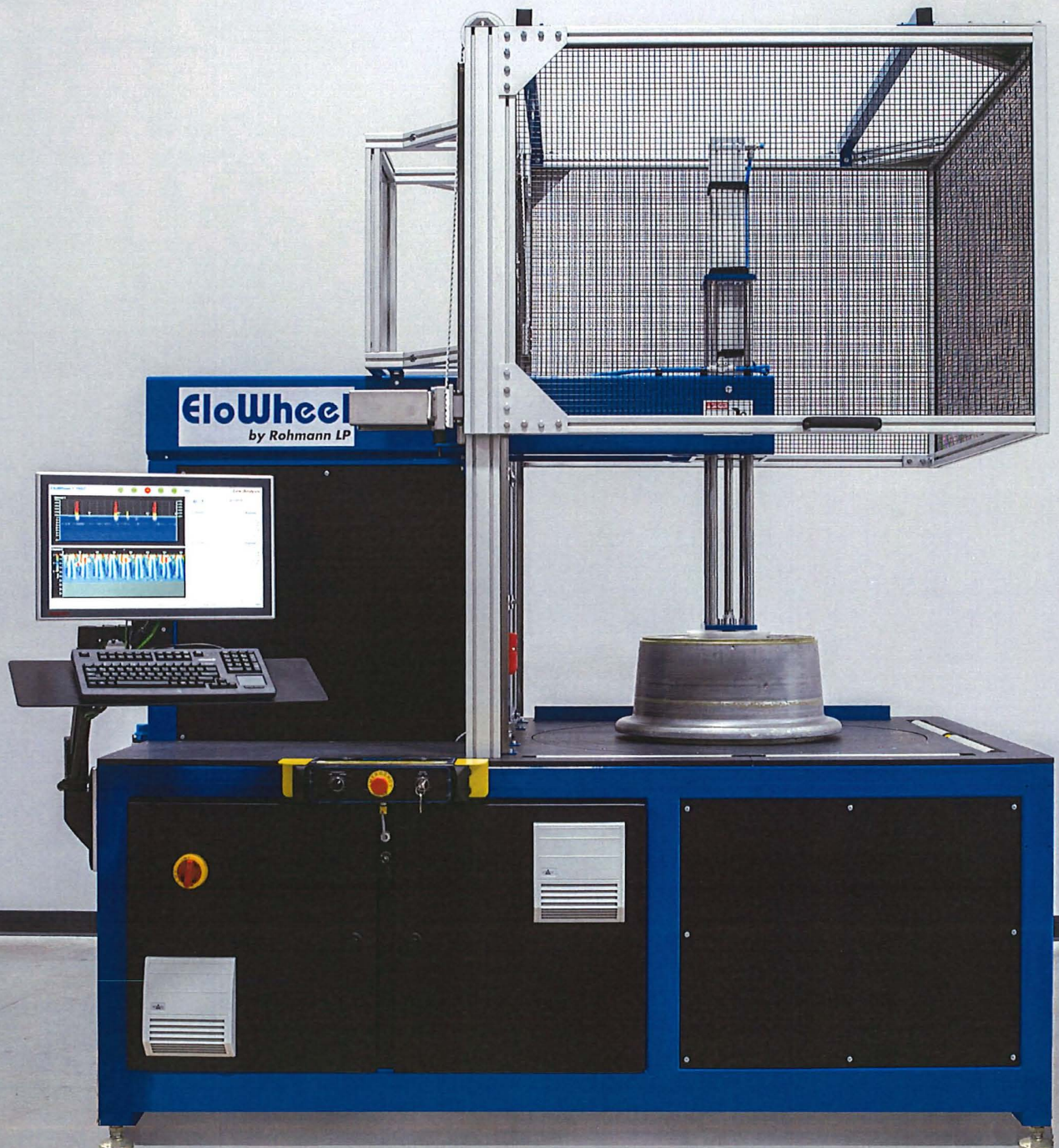


Rohmann LP

Eddy Current Instruments & Systems

Aircraft Wheel Inspection System

- Automated Inspection of Aircraft Wheels up to 1,000 mm diameter
- High Frequency Flaw Detections on Wall & Bead Seat
- Low Frequency Option for Flaws below the Surface



EloWheel

Technical Data



General

The new EloWheel 1000 allows the inspection of wheels up to 1000mm diameter and a maximum weight of 250kg enabling the inspection of even the heaviest wheels without limitations.

The user-friendly GUI of the system, in combination with the EloWheel's visualization and evaluation software, offers the utmost flexibility for initial setup and in-service wheel inspections. The EloWheel Software acquires, visualizes, and stores eddy current signals, and allows the operator to easily view and analyze the captured data. A search function facilitates the ability to look up and compare both previous and real-time data of the same wheel.

Wheels can be inspected with speeds between 30-120 RPM with cycle times typically below 60 seconds per wheel. The EloWheel 1000 fulfills the toughest production requirements and stringent inspection standards. The high-end control electronics provide a highly reliable and accurate mechanical handling system. The EloWheel 1000 comes standard with a single coil high frequency probe for surface crack detection and the option for a dual coil probe which also includes low frequency for back wall detection. The scan data will automatically be integrated into an inspection report, in which, the operator can add notes as needed, providing an extensive record for each inspected wheel.

Scope of the Inspection

Surface Inspection

- Sliding differential probe featuring approximately 8mm (0.31") active area
- Area of inspection complete tube wall down to the end of the bead seat radius
- Typical reference defect depth 0.76mm (0.03") x length 1.52mm (0.060") x width 0.1 mm (0.004"); Circumferential EDMs.

Dual Frequency Inspection for Hidden Cracks

- In addition to the standard high frequency coil, the optional dual frequency probe adds a low frequency coil for back wall detection
- Area of inspection from the top of back wall down to the beginning of the bead seat radius
- Reference defect approx. 25% damage to the wall thickness from the inside - Depending on the structure

Wheel Dimensions

- Turntable features a diameter of 1000mm (39")
- Overall height: 45mm - approx. 500mm (1.77" - 19.68")
- Diameter: 150mm - 600mm/ 250mm - 1000mm (9.8" - 39")
- Weight: < 250 kg

Duration of the Inspection

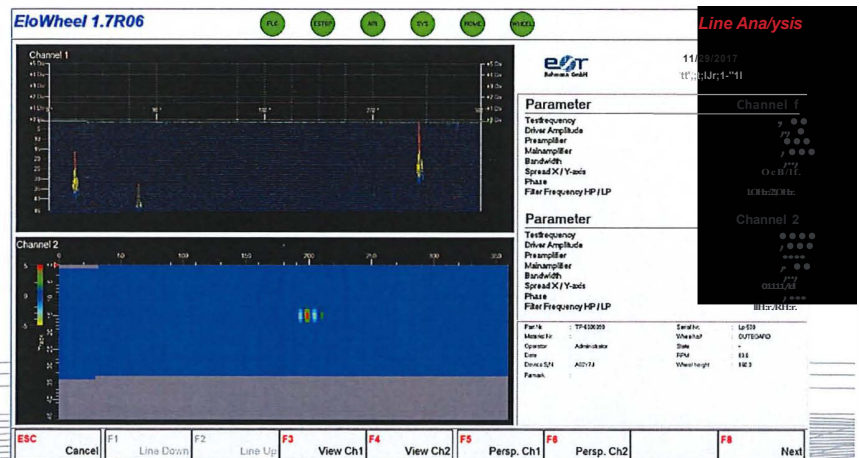
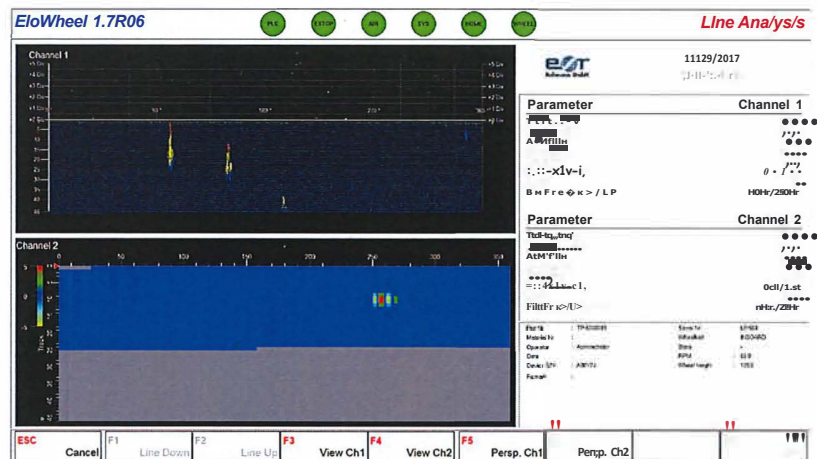
- For the automatic inspection procedure: typically below 60 sec., depending on wheel size

System Components

- Test stand with turn table and pneumatic wheel centering device
- Standard HF probe
- Optional combined HF/LF probe
- ELOTEST IS500-RF1 eddy current test instrument
- System PC featuring Windows 10 operating system
- Color Laser Jet Printer for the test logs
- Manually operated safety cage

General Technical Data

- Ambient temperature: 0 - 40°C (32° - 104° F)
- Operating Relative Humidity: 20 - 85%
- Dimensions: resp. 1410mm W x 2225mm D x 2660mm H
- Electrical: 110VAC/60Hz or 230VAC/50Hz / 2 KVA
- Compressed Air: min. 6 bar, 1/4", cleaned, dry



Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Россия +7(495)268-04-70

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

Казахстан +7(7172)727-132

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97

Киргизия +996(312)96-26-47

Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

www.rohmann.nt-rt.ru | | rni@nt-rt.ru