FORE
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TEST CIHAZLARI
İMALAT SAN. ve ULUSLARARASI TİC.A.Ş.
( TESTING EQUIPMENTS MANUFACTURING INDUSTRY and INTERNATIONAL TRADING CO. )
لصناعة أجهزة ومعدات الفحص الهندسي والتجارة الدولية

- BETON - CONCRETE
- ZEMİN - SOIL
- ASFALT - ASPHALT
- ÇİMENTO - CEMENT
- AGREGA - AGGREGATE
- YAPI - CONSTRUCTION
- PETROL - PETROLEUM
- TEST TEKNOLOJİLERİ
  TESTING SOLUTIONS - TECHNOLOGIES

“Üstün kalite, rakipsiz fiyatları ve de
SORUMLULUKTAN gelen başarı!”
(“Superior quality, uncompetitive prices
and the success; coming from THE RESPONSIBILITY!”)

Ayrıca, FORE A.Ş. “kentsel dönüşüm projeleri” kapsamında, “süratlı ve ekonomik” tahrıbsız test teknolojileri üreticisi olan NDT JAMES İNS. (USA)’nın ve çimento ve beton yüksek test teknolojilerinde de dünya lider üreticilerinden olan SCHLEIBINGER GERATE (ALMANYA) firmasının Türkiye “tek” yetkilisi olarak, Türkiye’ye hizmet vermektedir.

Bu halıyla, bunlar gibi pekçok güçlü distribütörlükleri ile sektöründe referans kabul edilen uluslararası bir şirket olmuştur.

FORE TESTING EQUIPMENTS Manufacturing Industry and INTERNATIONAL CO. INC. was found in 2000, headquartered in ANKARA, about Testing Technologies Subject as Construction Technologies; Concrete, Soil, Asphalt Cement, and Nondestructive Concrete/Construction Testing Equipments by Support of International Testing Technologies Manufacturers. FORE CO. INC. is an importing-exporting and manufacturer on a wide product range. Since it’s set up, it has been well known and prominent - high referenced company who can give directions it’s market.

On the other hand, within being always be ready about “URBAN TRANSFORMATION PROJECTS”, FORE TEST CO. INC. is serving to Turkey and Region Market as being well known company who is Turkey Exclusive Distributor of NDT JAMES INSTRUMENTS (USA) who is one the leader firms as “Manufacturer of Fast and Economic Nondestructive Testing Technologies” and SCHLEIBINGER GERATE (GERMANY) who is one of the leader firms as “Manufacturer of High Testing Technologies for Cement and Concrete”. And FORE CO,INC. has been an International company who has ben accepted as reference company in it’s own market by having the Strong Distributorships.
1) BETON ve YAPI MALZEMELERİ LABORATUARI TEST CİHAZLARI (Sy. 2-8)
(Laboratory Testing Equipments for CONCRETE and CONSTRUCTION MATERIALS)

2) (TAHRİBATSIZ) BETON - YAPI TEST CİHAZLARI (Son Teknolojiler) (Sy. 9-15)
(NONDESTRUCTIVE - Testing Equipments for CONCRETE and CONSTRUCTION)

3) ÇİMENTO LABORATUARI TEST CİHAZLARI (Sy. 16-19)
(Testing Equipments for CEMENT LABORATORY)

4) AGREGA LABORATUARI TEST CİHAZLARI (Sy. 20-25)
(Testing Equipments for AGGREGATE)

5) ZEMİN LABORATUARI TEST CİHAZLARI (Sy. 26-32)
(Testing Equipments for SOIL)

6) ASFALT LABORATUARI TEST CİHAZLARI (Sy. 33-38)
(Testing Equipments for ASPHALT - BITUMEN)

7) GENEL & ÖLÇÜM LABORATUARI TEST CİHAZLARI (Sy. 39-41)
(GENERAL & MEASURING Laboratory Testing Equipment)

8) HİDROLOİK LABORATUARI TEST CİHAZLARI (Sy. 42-45)
(Laboratory Testing Equipments for HYDROIC)

9) TERMODİNAMİK LABORATUARI TEST CİHAZLARI LİSTESİ (Sy. 46)
(Laboratory Testing Equipments List for AERODYNAMIC)

10) AERODİNAMİK LABORATUARI TEST CİHAZLARI LİSTESİ (Sy. 47)
(Laboratory Testing Equipments List for THERMODYNAMIC)

11) PETROL TEST CİHAZLARI (Sy. 48-49)
(Petrol Testing Equipments)

“ÇOK KAPSAMLI ve DETAYLI”
cihaz teknik özellik ve resimlerin;
lütfen, genel “TEST CİHAZLARI KATALOĞU” niteliğindeki
web sitemizi (www.foresas.com) ziyaret ediniz.

(For the detaily pictures and technical specifications;
we please you to visit our wide “TESTING EQUIPMENTS CATALOG” - web site.)

( Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detaily technical specifications, please visit our web site.) (www.foresas.com)
• The fully automatic machine is used to test the tensile strength of steel rebar.

• The grippers of the machine is hydraulically operated by 2 independent auxiliary cylinders controlled by separated hydraulic valves.

• The upper mobile crosshead part of the machine is driven up/down by a separated motor. It is used to adjust the distance between upper and lower grippers to suite the length of the steel rebar.

• The machine is designed with different capacities (upon user's request) such as: 30 kN (3 tons) / 60 kN (6 tons) / 1000 kN (100 tons) / 2000 kN (200 tons)

• The machine is capable of testing specimen with diameters 8 mm to 42 mm.

• The height is only 230 cm.

(Concrete Compression T.Machine) (200 and 300 Ton Capacity)
Performing The Test According To ASTM AND EN TS-EN Standards

- Fully Automatic.
- Graphical - LCD Data Acquisition Control System.
- Capacity : 1000 kN / 2000 kN / 3000 kN (upon request).
- Automatic Load Rate upon Sample Type.
- Stops Automatically, when Test is completed.
- Real time graph indication.
- Total Load and also Per Area are given.
- Test results can be transferred to computer to be printed or from the thermal printer.
EBT2 FRESH CONCRATE RHEOMETER
FR-B0001 (Taze Beton Reometresi)

The eBT2 is a compact rheometer for fresh concrete. In opposite to the spread table or slump flow the concrete is tested at various loads. Therefore you can determine a relative yield-stress and a relative viscosity. The construction avoids structural breakdown and segregation during measuring. The eBT2 is small, battery driven and easy to use.

FR-B 033 AIRMETER
(Hava Ölçer)

The equipment is used to determine the volume change in a sample due to the application of pressure. The pressure gauge shows the direct percentage (to the nearest 0.1%) of for the amount air entrained. The capacity for the air meter is 7 liters.
(FR-B015) BETON BORU KIRMA PRESİ
(Concrete Pipes Compression Testing Machine)

The equipment is supplied with a graphical LCD Data Acquisition Control System and an ability to store and report the results. The calibration for the equipment can be easily done on 1, 2 or ... 5 pts. Pipe length and diameter should be specified at the time of inquiry.

(FR-B017) BETON PAN MİKRERİ
(Concrete Pan Mixer)

The concrete mixers are used to create concrete mixes and specimens. The pan-type mixers provide efficient and homogeneous mixtures. The capacity of the pan is 100 lt, efficient mixing capacity is 56 lt.

(FR-B 012)
BETON NUMUNE KALİPLARI (Plastik ve Çelik)
(Concrete Sample Mould) Plastic and Steel

SİLİNİR (CIYLINDER) 15x30 cm 10x20 cm
KÜP (CUBIC) 20x20x20
15x15x15, 10x10x10 cm

(FORE-CON9/hb) SİLİNİR BAŞLIKLAMA SETİ
(Cylinder Capping)

The capping set consists of a melting pot and a Capping Apparatus

FORE-CON 13/hb
DRUM - TYPE MIXER
Freeze-Thaw-Resistance
Durability is, beneath the strength, one of the most important properties of concrete. It is especially in road construction that a high resistance to freeze-thaw cycles is of major importance and is thus one of the major criteria in testing. The CDF-/CIF test set-up enables the freeze-thaw test to be carried out in accordance with CDF recommendations from RILEM. The result gives an estimate for the resistance to freeze-thaw cycling for the concrete being tested.

- CDF RILEM TC 117 FDC
- CIF RILEM TC 176 IDC
- DIN 4226
- DIN 52104
- USA ASTM C666-2008 Procedure A
- CEN/TS prEN-12390-9
- EN 13581
- CEN/TR 15177 2006-06

**FR-C 0108 SLABTESTER**
SLAB DONMA ÇÖZÜLME TEST CİHAZI

SCHLEIBINGER GERATE - GERMANY
Freeze Thaw Tester for freezing in air and thawing in air or water. According to several European and international standards. Now with much more cooling power. Not only for concrete but also for natural stones and tile-glues. Including optional Internet connection and a flooding mechanism.
Test Procedure for the EU Standard Concrete Slab-Test
CEN/TS 12390-9:2006 (former prEN 12390-9 )
EN 1340
EN 1339
EN 1338
EN 1367-1
EN 1367-6:2008
EN 12371
EN 1348:2007
EN 13383-2
ONR 22303:2010 09 01
EN 12091:2013

( Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detaily technical specifications, please visit our web site. ) (www.foresas.com)
The speed may be 0.001 to 80 rpm in both directions, clockwise or counter clockwise. As option also an oscillating or a logarithmic mode is possible.

High Torque Range

The viskomat XL has a torque range from 0...500 Ncm with a resolution of 0.05 Ncm and accuracy better than 0.2 Ncm.

Temperature control is realized by a double wall specimen container, where a cooling liquid is circulating.

The sampling rate may be set from 0.005s...1min.

As option you may run the viskomat XL with a shear stress controlled mode. The oscillation mode gives information about the storage modulus G' and the loss modulus G'', as well as the plastic and elastic properties of your material.

FR-S 0018
SHRINKAGE-DRAIN
SCHLEIBINGER GERATE - GERMANY

Now described in the Austrian standard:
OENORM B 3329:2009-06-01

Grout - Requirements and test methods

The Shrinkage Drain is made of a 1m long u-shaped stainless steel profile which contains the specimen...

To avoid wall friction the drain is covered with a removable Neopren © sheet. On one side a removable anchor is fixed.

On the other side this anchor is movable and sliding on three wheels.

The motion of this anchor is registered by a high sensitive digital probe.

FR T 2.410 PEARMABILITY TEST MACHINE
TESTING-GERMANY

UNIVERSAL CONCRETE BEAM AND COMP. PRES.
FR-T2.1099 TESTING-GERMANY

(Detaili teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detailed technical specifications, please visit our web site.) (www.foreas.com)
**FR-B097** ISI İLETKENLİK (Geçirgenlik) TEST CİHAZI
(Heat-Temp. Conductivity Testing Machine)

**FR-B055** KAROT MAKİNALARI
(Core Drilling Machines)

The machine is used to take core samples from core from specimens for test purposes. The machine is equipped with a 2-speed electrical motor and a water inlet (hose).

**FR-S0018 BENDING DRAIN**
SCHLEIBINGER GERATE - GERMANY

With the Schleibinger Bending Drain you measure the shrinkage and bending of building materials. Also you may simulate with a built in electrical heating a real world floor heating. High precision measurement are guaranteed, by two static abutments and a massive u-shaped steel baseplate. A neoprene foil between the form work and the material avoids friction and blocking of material, also when expanding materials are used. The form work is static independent from the mortar beam which is supported by two well defined points.

**(FR-B 117) PLASTİK ve ÇELİK KİRİŞ KALIP ÇEŞİTLERİ**
(Beam Mould Types)
Steel (15x15x60, 15x15x75, 15x15x90 cm)
Plastic 15x15x55, 10x10x40

**(FR-B047) SIKIŞMA FAKTÖRÜ TAYIN CİHAZI**
(Compaction Factor Test Apparatus)
The apparatus consists of two conical hoppers attached on a cylinder, and everything is fixed on a robust steel frame.

(For the detailed technical specifications, please visit our website.) (foreas.com)
(FR-B129) SLUMP TEST SETİ
(Slump Test Set)

- Slump Cone
- Base Plate
- Slump Cone Funnel and ruler
- Tamping Rod (Ø16 mm x 600 mm)

(FR-B261) TAŞ VE KAROT UCU
KESME MAKİNESİ
(Stone & Core-Core Cutting Machine)

- The equipment is used to compact the concrete specimens in the laboratory.
- The Vibrating Table size is 400 x 600 mm.

(FR-B029) VE-BE CİHAZI
(Vibrating Consistometer)

(FR-B128) BETON YAYILMA TABLASI
(Concrete Flowing Table)

(FR-B125) VİBRASYONLU TABLA
(Vibrating Table)

The equipment is used to compact the concrete specimens in the laboratory. The Vibrating Table size is 400 x 600 mm.

(FR-B124) KÜR TANKI
(Curing Pool)

The tank is used to cure cylinders, cubes, beams and other samples that require total immersion in water at a specified constant temperature. The tank is equipped with a digital thermostat and indicator and a water circulation pump.

(FR-B126) VİBRATÖR
(Vibrator-Lab.Type)

The lab-type poker vibrator is used for internal compaction for the concrete specimens.

The equipment for the test consists of a vibrating table, a cylindrical pan, a slump cone, and a disc attached to a freemoving rod that serves as a reference end point
EN 12350, BS 1881-104

( DETAYLI TEKNİK ÖZELLİKLER İÇİN LÜTFEN WEB SAYFAMIZI ZIYARET EDİNIZ. / FOR THE DETAILED TECHNICAL SPECIFICATIONS, PLEASE VISIT OUR WEB SITE.) (www.foreas.com)
FR W-C 400
THE JAMES V-METER MARK IV
ULTRASONIC PROFESIONAL TEST SYSTEM

The most advanced ultra-sonic test system for accurately identifying basic characteristics of coarse grained materials.
Locate Honey Combs & Voids Fire Damage Crack
Depth Determination Young’s Modulus Find Rotting Wood
Direct reading of calculated P-wave velocity and S-wave velocity Conforms to ASTM C-597, BS 1881-203 and other international standards

FR W-C 100
THE JAMES VU-CON SYSTEM
(Beton Kalınlık ve Kalitesini Ölçme Cihazı)

Impact Echo System for measuring the thickness and quality of concrete
Accurately determines concrete thickness without drilling cores or using similar destructive techniques.
Conforms to ASTM C-1383. TS 13539

FR W-E 200
THE JAMES E - MODUMETER MK II TM

For the determination of the resonant frequency of materials. Conforms to ASTM C-215 and C-666
Young’s Modulus of Elasticity, Modulus of Rigidity, Poisson’s Ratio

FR W-C TRNS
TRANSDUCERS-LOW FREQUENCY FOR TESTING CONCRETE AND OTHER COURSE GRAINED MATERIALS

(Detail technical specifications, please visit our website.) (www.foreas.com)
FR Z-WP-1000
THE WINDSOR HP PROBE SYSTEM
Conforms to ASTM C-803, TS 13537 ACI 347-78, BS 1881 #207, ANSI.A. 10-3. For in-place strength testing of normal and high-performance concrete. Standard concrete strength determination High strength concrete strength determination

FR P-C-7280
JAMES ANCHOR TEST SYSTEM
Anchor testers measures a wide range of anchor strengths in construction materials.

FR P-C-7300
007 JAMES BOND ADEHESION TESTER
Measures bonding strength between two layers of material. Overlay testing during repair and rehabilitation Conforms to BS-1881 #207, ASTM D-4541, ASTM C-1583, ISO 4624, EN 1542 Cen/TC 125, DIN 1048 Part 2.

FR W-P-2000
JAMES WINDSOR PIN SYSTEM
WİNDSOR PİN YİĞMA BİNA TEST SİSTEMİ
Conforms to ASTM C-803 TS 13537 Test strength of block, brick, and mortar joints within an existing structure, e.g., load bearing walls.

(Detaylı teknik özellikler için lütfen web sayfamıza ziyaret ediniz. / For the detail technical specifications, please visit our web site.) (www.foreas.com)
World’s most advanced system for analyzing corrosion of concrete reinforcing steel in existing structures.

...giving the corrosion rate most closely matching the true values.”
(from the US Strategic Highway Research Program.)

Corrosion Rate Analysis
Structure Service Life Analysis
Repair Cost Estimation

FR C-CS-8010
GECOR 8™
ADVANCED REBAR CORROSION RATE DETERMINATION SYSTEM

FR C-CM-5000 CU
JAMES COR- MAP II
Advanced System for corrosion potential data acquisition and analysis, allowing the user to quickly identify areas of probable corrosion in the field.

Locate corroding steel reinforcement Repair cost estimation
FR R-C 450
THE DIGITAL VERSION OF A CLASSIC REBAR LOCATOR, REBAR FINDER
(R-METER MK III Dijital Donatı Tespit ve Haritalama Cihazı)

R-Meter MK III Rebar locator
The re-birth of a classic rebar locator
with the latest in sensing and
microprocessor technology!
Structural Engineers Rebar
Mapping  Rebar Network Analysis
Conforms to ACI 318, BS 1881
#204, DIN 1045, CP 110, EC 2,
SIA 162, DGZfP B2.

FR W-1500
JAMES CONCRETE TEST HAMMERS
(Dijital Beton Test Çekici)

Digital and manual hammers
for the quick and easy
determination of the strength of concrete
ASTM C-805, BS-1881 #202

FR R-C 450 M
DIJITAL REINFORCEMENT BAR LOCATOR AND FINDER
(Dijital Mini Donatı Tespit Cihazı)

FR ANW 003
Test Anvil
for Calibrating
Test Hammers

(For the detail technical specifications, please visit our website.)(www.foreas.com)
FR C-RM 8000
JAMES RM-8000 OHMCORR
(Resistivity Meter to Assess Corrosion Currents in Concrete)
Resistivity meter to assess corrosion currents in concrete.
Direct digital readout of resistivity.
Measuring from two small holes avoids the problems and errors of surface measurements.

FR C-CL 3000
CL-2000 CHLORIDE FIELD TEST SYSTEM
(Saha Tipi Yağ ve Kuru Beton Klor Geçirgenlik Tespit Cihazı)
A chloride laboratory in a briefcase for wet or dry concrete.
Digital display for direct reading of lbs./cu. yd. and percentage of chloride by weight.

THE JAMES POROSCOPE-PLUS AIR AND WATER PERMEABILITY
(Saha Tipi Beton Su ve Hava Geçirgenlik Test Cihazı)  FR C-P-6000
The field test for air and water permeability of concrete using the Figg technique.
Permeability both at the concrete surface as well as within the concrete mass can be determined.
FR M-M 3050 MULTI-CHANNEL MATURITY METER
FOR THE DEVELOPING STRENGTH OF
MATURING CONCRETE
(Çok Kanalı Beton Sertleşim Ölçer)

The James IQM System enables fresh concrete to be easily and completely monitored in the field for improved safety, quality assurance and optimum setting time.

FR I-AS 3000
JAMES ASR & CARBO DETECT
Alkali Silika Oluşumu,
Karbonlaştırma Kontrol Test Seti
Simple colored dye field test to detect Alkali Silica reaction (ASR) Carbo Detect-simple colored dye field test for carbonation.

FR T-S-30
THE JAMES AQUAPROBE™ T-S-30 SOIL MOISTURE METER
(Mikrodalga, Toprak ve Kum Hızlı Nem Ölçer)
Fast and easy to use, no hazardous chemicals. Accurate, completely portable, easy to read display. Instantaneous readings.
FR T-T-90 MICROWAVE METER FOR RAPID DETERMINATION OF MOISTURE IN. SAND FINE AND COARSE AGGREGATE
(Kum, İnce ve Kalın Agregalar İçin Nem Ölçer)

THE JAMES TRIDENT T-90 MOISTURE METER
A microwave meter for rapid determination of moisture content in sand and other fine and coarse aggregates. Fast and easy to use: Simply insert the prongs into the sand or aggregate.

- Accurate.
- Completely portable.
- Easy to read display.
- Instantaneous readings.

Applications:
Aggregate suppliers
Ready mix producers
Asphalt plants

FR T-C-20 MICROWAVE METER FOR RAPID DETERMINATION OF MOISTURE CONCENTRATED IN. WET CEMENT AND CONCRETE (FOR WATER/CEMENT RATIO)
(Taze Betondaki "Su-Çimento Oranını" Ölçme Cihazı)

FR T-C-20 JAMES CEMENTOMETER
A microwave meter for rapid determination of water/cement ratio content in fresh concrete. Features and Benefits
- Fast and easy to use; simply insert the prongs into the material being tested.
- Accurate.
- Completely Portable.
- Full range of water cement ratio’s.
- Instantaneous readings.

FR T-014 CRACK MICROSCOPES
(Çatlat Mikroskopları)

Cementometer Type R

Cementometer Type L

(Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detailed technical specifications, please visit our website.) (www.foreas.com)
The viskomat NT is a versatile rotational viscometer for determining the workability of fine-grained building materials such as cement paste, mortar, fine concrete, plaster etc. with a maximum particle size of 2 mm.

1. Flow curves and rheological parameters
2. Temperature dependent workability properties
3. stiffening behavior as a function of time and stirring speed
4. Effects of concrete admixtures and mineral blending agents on workability
5. Speed 0.001 to 500 rpm

(FR-Ç296)
CEMENT COMPRESSION AND TENSILE TESTING MAC.
(Çimento Basma Eğilme ve Çekme Presi)
The machine is designed to be fully automatic. LCD Data Acquisition Control System. Automatically controlled upon the samples. The machine is provided with a double testing chamber. It performs flexure test for the size (40 x 40 x 160 mm) and compression test on cubes of size (50 x 50 x 50 mm). Flexure Capacity: 15 kN  Compression Capacity: 250 kN

FR-T 1.0243
CEMENT BEAM AND COMPRESSION PRES.
TESTING-GERMANY

(FR-Ç 066)
CEMENT COMPRESSION TEST MOULD
The mould is used to prepare samples for cement compression tests. 5 x 5 x 5 cm (3-gang) STEEL 7.07 x 7.07 x 7.07 cm P LAST/C

(FR-Ç 64)
CEMENT FLEXURE TEST MOULD
The 3-gang mould is used to prepare samples for cement flexure tests. The internal size for the mould is (4 x 4 x 16 cm) 3 - gangs.

(Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detailed technical specifications, please visit our web site.) (www.foreas.com)
FR-S 0050 CONE SHRINKAGE-EXPANSION MEASURING CONE WITH LAZER SYSTEM  
(Akışkan Yapı Malzemelerinin "Büzülme ve Sünme" Test Cih. Lazer Ölçüm Sistemi)

SHRINKAGE-CONE

New Design with a double wall metall vessel for easy heating and cooling with an external liquid temperature control unit!
A Laserbeam Measures the very early Shrinkage and Expansion of Building Materials. Touchless and with 1 Mikron Resolution

With Schleibinger's patented innovation the Schleibinger Shrinkage Cone deltaEL it is possible to measure the shrinkage or expansion of fluid building materials in the first minutes and hours after start of mixing. The expansion of the building material is registered touch-less and very exact by a laser beam. There is no mechanical coupling between the fluid and the sensor necessary. To ensure that the measured distance correlates with the relative length change of the material we use a special formed specimen container.

(FR-Ç 032) AUTOMATIC CEMENT/MORTAR MIXER

The apparatus is used to assure an efficient mixing for the cement and the mortars.
The mixer can take a capacity up to 5 liters.
The beater speed is adjustable between 140 rpm and 285 rpm.

(FR-Ç 025) LE CHATELIER MOULD & WATER BATH

The mould is designed to have an internal diameter of 30 mm for the spit cylinder and a height of 30 mm.
FR-T 1.0306
AUTOMATIC VICAT APPARATUS
TESTING GERMANY

The equipment is designed in accordance with (ASTM C187-191), (DIN 1168), (EN 196-13279-480-2) and (BS 4550). The machine is designed to be fully automatic with very precise and reputable result. Test results can be easily printed on any incorporated printer. The machine is equipped with a large LCD display to show the test results data. The test will automatically print a report with all data.

FR-C 147
BLAINE APPARATUS
The apparatus is used to determine the fineness of the cement U-shaped tube, filter papers, plunger, stainless-steel cell and perforated disc.

FR-C 30
ÇİMENTO BASMA ve EĞİLME APARATI
(Compression And Flex. App.)

FR-C 027
HARÇ YAYILMA TABLASI
(Mortar Flow Table)

The test gives indications about the consistency of the cement mortars which is one of the most important characteristics for the mortars in the engineering aspects.

FR-C 039
ÇİMENTO UZAMA KOMPATÖRÜ
(Cement Comprator)

(For the detail technical specifications, please visit our web site.) (www.foresas.com)
Ultrasonic Setting Measurement
ULTRASONİK VIKAT CİHAZI
SCHLEIBINGER GERATE - GERMANY

Vikasonic - Measuring the Early Setting,
Hardening with Ultrasonic Waves

The early setting is usual measured with the penetrometer
or the Vicat apparatus. This kind of measurement has some
disadvantages. In the early sixties some researchers
suggested to use the ultrasonic transition time as method
for measuring the setting of mortars or fresh concrete. In
cooperation with a German dry mix company, Schleibinger
developed a special ultrasonic unit with an integrated
datalogger and a special designed setup for the mortar
specimen.

FR S 0060 THIN LAYER SHRINKAGE SYSTEM
LAZERLİ HARÇ GENLEŞME TEST SİSTEMİ

Some building materials like self-leveling flooring compounds are
plasters are applied in thin layers. These fast setting mortars set and
harden within a couple of hours and subsequent drying of such a thin
layer is generally terminated after the first day. In order to investigate
the dynamics of early shrinkage and expansion we developed a special
set-up of two laser units which are horizontally aligned. This set-up
allows to investigate the different formulation parameters and their
influences onto the different stages of shrinkage and expansion,
namely the plastic shrinkage, setting expansion and drying shrinkage.

(FR-Ç 072)
MUZZLE FURNACE (G-050)
(Kül Fırını)

(FR-Ç 117)
JOLTING TABLE / CİMENTO ŞOK MASASI

The equipment is used to compact cement mortar
prisms in the moulds.
The 3-gang mould is placed on a table which is
mounted above a cam.
The rotating cam is driven by a gearbox at 60 rpm.

The Muffle Furnace is used for high,
temperature heating and drying.
It is supplied with Proportion
Integral Derivative
(PID) temperature control.
(1000C, 1100C, 1200C,)
Capacity

(Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detaily technical specifications, please visit our web site.) (www.fores.com)
FR-K 001 SCHLEIBINGER GERATE - GERMANY
DETECTION OF POTENTIAL ALKALI-REACTION ACCELERATED
METHOD WITH THE SCHLEIBINGER ASR-REACTOR - STANDARDS
(Alkalisilika Reaksiyonu Test Kabini)

Standard NF P18-454 (Décembre 2004) : performance - Reactivity of concrete for alkali-silica Performance test
Storing of ACR test containers at 60°C and nearly 100% rel. Humidity according to RILEM/TC-ARP/01/20 and ASTM C1293 and modifies ASTM C1293 at 60°C

(FR-AG 041)
METHYLENE BLUE SET
METİLEN MAVİSİ TEST SETİ

The equipment set is used to determine the amount of clay in the fine proportions of aggregates. 50 cc burette x stopcock, Support base x clamp Glass Rod and filter discs, 2000 ml plastic beaker Methylene blue 250 gr, Kaolinite 500 gr Mixer 400 - 700 rpm, Impeller: 75 mm dia

(FR-AG 40)
SAND EQUIVALENT TEST SET
KUM EŞDEĞER TEST SETİ

The test is used to determine the relative portion of undesirable clay-like or plastic fines and dusts that occur in granular soils and fine aggregates passing the No. 4 sieve

ORGANIC IMPURITIES SET

The set is equipped with organic color scale and organic impurities bottle.

(FR-AG 253) SAND ABSORPTION CONE AND TAMPER

(Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detail technical specifications, please visit our web site.) (www.fores.com)
(FR-AG 048) LOS ANGELES TEST CİHAZI
(Los Angeles Abrasion Testing Machine)
The equipment is used to halve/divide large amount of aggregates, soils, sands and gravel into two representative portions. The equipment is supplied with adjustable chutes spacing so that it can serve the purpose of all the models.

(FR-AG 031L) UNIVERSAL SAMPLE SPLITTER

GRID SIEVE SET
(Grid Çubuklu) Elek Seti)
This equipment is used to determine the flakiness index for the aggregate particles and determine the particle shape:
- 40.00 - 31.50 - 25.00 - 20.00 - 16.00
- 12.50 - 10.00 - 8.00 - 6.00 - 5.00 - 4.00 - 3.15 - 2.50

(FR-AG 39) FLAKINESS SIEVE SET
(Yassılık Elek Seti)
The sieve sizes for the set are (mm):
- (4.9 x 30), (10.2 x 50), (19.7 x 80),
- (33.9 x 100), (7.2 x 40),
- (14.4 x 60), and (26.3 x 90).

(FR-AG 257) DERİN YIKAMA ELEĞİ
(Washing Sieve)

(Detaylı teknik özellikler için lütfen web sayfamız ziyaret ediniz. / For the detailly technical specifications, please visit our web site.) (www.foreas.com)
(FR-AG 44) TILE ABRASION TESTER  
(Dikey Aşındırma Test Cihazı)

The equipment is used to determine the abrasion resistance of the natural stones and tiles. The machine is equipped with abrasion disc of 70 mm thickness. Automatic Revolution™ selection feature for accurate and better results. Pack of white corundum.

(FR-AG 45) DORRY ABRASION TESTER  
(Böhme Aşındırma Test Cihazı)

The equipment is used to determine the abrasion resistance of the aggregate particles. The equipment is supplied with a horizontal abrasion disc with a diameter of 750 mm. The machine is equipped with automatic revolution selection for better and accurate results.

(FR-AG SK) SKID RESISTANCE TESTER

The equipment is used to determine the surface friction of the curved aggregates, polished surfaces, concrete pavements and natural rocks and asphalt.

(FR-AG 023 A)  
LENGTH GAUGE  
(FR-AG 022 B)  
THICKNESS GAUGE

This equipment is used to measure the ratio between the length to the thickness of any individual particle.

(Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detail technical specifications, please visit our web site.) (www.fores.com)
(FR-AG 256) MICRO-DEVAL TESTING MACHINE  
(Mikro Devil Test Cihazı)

The equipment is used to determine the abrasion-resistance of the aggregate particles. The machine is made of a rigid steel frame equipped with 2 or 4 stainless steel drums. Automatic Digital Counter

(AGREGATE CRUSHING VALUE)

(Aşkenteş Devirme Cihazı)

The equipment is used to determine the aggregate particle resistance to impact. The equipment is supplied with automatic blow counter. The equipment is also supplied with a sample cylinder, measuring cylinder and a tamping rod.

(FR-AG 53) DIGITAL POINT LOAD APPARATUS  
(Nokta Yükleme Test Cihazı)

The apparatus consists of two-column crosshead frame and a hand operated hydraulic jack, and the load is measured by a pressure transducer with a digital display unit. The maximum sample size to be tested is 102 mm. The equipment is provided with manual-hydraulic loading.

(FR-AG 54) SLAKE DURABILITY

The equipment is used to determine the durability of the rock specimens to weakening and disintegrating when subjected to the climatic slaking effects.

(FR-AG 52) ROCK CLASSIFICATION HAMMER

The equipment is used to determine the rock classification. The impact energy of the equipment is 0.74 N.m.
**(FR-GL-102) SIEVE SET**
(Elek Setleri)

**(FR-GL-107) SIEVE SHAKER**
(Elek Sallama Cihazı)

The equipment accepts up to eight full height sieves. The shaker is available in two sizes:
Shaker that can perform for (20 cm) and (30 cm) sieves Built-in timer (60 min) is incorporated to set the duration time

**(FR-AG 267) JAW CRUSHER**
(Çeneli Knci)

The equipment is used to crush samples with medium-hard, hard, brittle and tough materials.
Material feed size < 50 mm
Jaws dimension: 100 x 350 mm
Jaws are made of (16-18% Mn) + (1.5% Cr)
Double Action of jaws:
Opening /closing at bottom Crushing form up to bottom Jaw opening at the bottom is adjustable.

**(FR-AG267-8) CYLINDRICAL CRUSHER**
(Silindirik Öğütücü)

The crusher is made of hardened steel cylinders. The materials size is < 20 mm, and it is supplied with overload protection with 2 springs.
Jaw Dimensions: 100 x 350 mm, made of (16%-18% Mn + 1.5% Cr).

**(FR-AG-112) SPECIFIC GRAVITY FRAME**
(Özgül Ağırlık Sehpası)

The frame can be used to determine the specific gravity of solid materials (concrete, aggregate etc)

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(For the detailed technical specifications, please visit our website.) (www.foreas.com)
(FR-GL 102 A) LABORATORY OVENS
(Laboratuvar Etiüleri)

The ovens are used for drying, conditioning and moisture
determination at the laboratory.
The oven is insulated with a thick mineral wool.
The internal chamber is made of stainless steel.
An air circulating fan provides forced convection
airflow for uniformity of internal temperature.
Fan is mounted in back wall.
Digital Thermostat & Indicator
Fitted With overheat thermostat
Temp max : 200 °C (PID control)
(120  250  400 500 ) LT CAP.

(FR-AG 278) PELET MACHINE
(Ezilme Cihazı)

Capacity: 20 Tons (200 kN) Indicator: LCD / Digital
Max. Load=Peak Hold Function Calibration function is available
Supplied with frame and hydraulic unit, Complete with 1 set of mould,

(FR-AG 277) HARDGROVE INDEX

Used for the determination of grindability or ease of
pulverization of coals, known as HGI
(HardgroveGrindability Index) Stationary Grinding Bowl, Supplied with eight polished steel ball in accordance
with the international standards,
Weight set added to driving spindle, Counter that stops the machine automatically

(FR-AG 280) BAROID MUD BALANCE
(Çamur Terazisi)
The product is special purpose apparatus for
measuring density of drilling fluid and other liquid matter.
It has the characters of data stability and high accuracy.

(FR-AG281) MARS FUNNEL VISCOMETER

Marsh funnel viscometer is used to measure
the viscosity of drilling liquid in daily life
and has been widely used in petroleum,
geology and other departments.

(Detaylı teknik özellikleri için lütfen web sayfamızı ziyaret ediniz. / For the detailly technical specifications, please visit our web site.) (www.foreas.com)
The aim is to control surface bearing capacity during construction. The surface bearing capacity is known from the design process. Calculates:

1. Material modules,
2. Remaining service life

Applications for PRIMA100:

Subgrade clay, sand / gravel, subbase - sand, base course - gravel, recycled concrete, recycled asphalt, slag / lime stabilised soil.

Benefits:
- is it as expected?
- can you extend the lifetime of your road?
- can you optimise your design?
- can you optimise the use of raw materials (protect the environment)?
- save money - short term or long term

PRIMA-X FALLING WEIGHT DEFLECTOMETERS

(For the detailed technical specifications, please visit our website.) (www.fores.com)
SOIL FREEZE-THAW CHAMBER
ZEMİN (TOPRAK) DONMA ÇÖZÜLME CİHAZI
SCHLEIBINGER GERATE - GERMANY

Soil Freeze / Thaw Chamber According To The CBR-F Test
Swiss Standard SN 670 321a (2001)

According to the Swiss standard SN 670 321a the Schleibinger Specimen is soil with a maximum aggregate size of 16mm. There are two cooling plates on top and the bottom size of the specimen. With a high precision LVDT the height change of the specimen during freezing and thawing is measured. The test combines two test methods: The height change test and the strength weakening during the thawing process. The test is easy to handle and is finished in 5 days. The specimen has an optimal water content, determined by the Proctor test. Its recommended to make several tests to determine the influence of the water content in the CBRF value. For example 3 different water contents may be applied.

(FR-Z 050) LIQUID LIMIT DEVICE
HAND AND MOTORIZED CONTROL
(Likut Limit Test Aparatları, Manuel-Motorlu)

Which soil pass from plastic to liquid state. This feature is very important in specifying the type of the soil, moreover, in determining the other parameters that relay on the soil type.

(FR-Z 058) PLASTIC LIMIT SET
(Plastik Limit Seti)
The equipment is used to determine the plastic limit (lowest moisture content)

(FR-Z 060 A) POCKET PENETROMETER
(Cep Penetrometresi)
The equipment is used to determine the classification of cohesive soil based on its consistency, shear strength and the approximate unconfined compressive strength.

(FR-Z 050 A) CONE PENETROMETER
(Zemin Konik Penetrometresi)
Used to determine the moisture content while soil passing from plastic to liquid state by measuring the penetration of standard cone free falling into the soil under controlled conditions.

(FR-Z 060 B) SOIL PENETROMETER
(Zemin Penetrometresi)
The equipment is used to determine the relationship between the moisture content and penetration resistance of fine-grained soils.

(For the detail technical specifications, please visit our web site.) (www.foreas.com)
(FR-Z 0140) MOTORIZED DYNAMIC PENETROMETER
(Motorlu Dinamik Penetrometre)
The equipment is used to determine the structural properties of the pavement, roads or any other existing construction areas with boundless materials. The equipment is supplied with 10 steel rods, each of is with a diameter of 20 mm and length of 1000 mm. The rammer weighs 30 kg with 200 mm drop distance with hydraulic lifting device attached to the rod.

(FR-Z 037) PORTABLE CON PENETROMETER (O RING)
( Portatif Konik Penetrometre)

(FR-Z 136) DYNAMIC CON PENETROMETER
(Dinamik Konik Penetrometre)

(FR-Z 133) AUTOMATIC SOIL COMPACTOR
(Otomatik Zemin Kompaktörü)
The equipment is used to automatically determine the relationship between the moisture content and the density for the compacted soil sample. The machine can perform the standard and the modified proctor test on the soil sample assuring a uniform and precise compaction. It can be used on both standard & modified moulds.

(FR-S 0066) STANDARD & MODIFIED PROCTOR SETS
(Standart ve Modifiye Proktor Seti)
Standard Proctor Mould
(Ø 4"/Ø 105 mm/Ø 100 mm) Standard
Proctor Rammer (5.5 lbs/2.5 kg)
Standard Proctor Mould (Ø 6"/ Ø 150 mm)
Standard Proctor Rammer (10 lbs/4.5 kg)

( Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detailed technical specifications, please visit our web site. ) (www.foreas.com)
**FR-Z 069**
**SAMPLE EXTRUDER**
(Numune Çıkarıcı)
Manual-Hydraulic Type
Used for 100 mm to 6” diameter samples
Can be used with the moulds of Proctor, CBR, Marshall Tests

**FR-Z 134**
**UNIVERSAL SAMPLE EXTRUDER**
(Üniverasal Numune Çıkarıcı)
Shelby St, Proctor Mod Proctor
CBR, Triaxial
Piston travels 400 mm by hydraulic unit

**FR-Z 071**
**COMPACTION DETERMINATION**
(Sıkıştırma Kasığı)
The equipment consists of a 12” diameter ring and supplied with complete accessories needed to perform the test.

**FR-S 078**
**DIGITAL PLATE LOAD SET**
(Dijital Plaka Test Cihazı)
The equipment is used to determine the bearing capacity of soil layers in road constructions, foundations, highways, airport and subgrades and sub-layers of soil. Hydraulic Loadin
Digital Manometer, Manuel Pump
Set of Plates (2 ea) 30x30 & Ø 30 Datum Bar
Dial Holder (2 ea) Dial 0,01 mm (2 ea)

**FR-Z 111**
**OEDOMETER - CONSOLIDATION SET**
(Konsolidasyon Test Seti)
The equipment is used to determine the behavior of the soil sample upon certain loading in a specified period. The loading ratio for the device is 10:1 and designed as front loading type. The rear weight is used for balancing the device. The device has a support for a screw jack and supplied with a dial and its holder, consolidation cell, two porous discs and weight set.

**FR-Z 044**
**SAND CONE SETS**
(Kum Kesafet Setleri)
The set contains a sand cone and a base plate that has an opening designed for the cone to sit into. The set also contains a container (plastic jar/sand pouring cylinder) to be used during the test.

(Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detail technical specifications, please visit our web site.) (www.foreas.com)
(FR-Z 075) DIG. LOBAROTORY CBR APP.  
(Dijital Laboratuvar Cihazı)  
The machine is equipped with an LCD Data Acquisition System to view/perform the test and show the CBR index automatically upon finishing the test.  
Capacity: 50 kN  
Graphical LCD Data Acquisition system  
Two loading rate: (1 mm/min) and (1.27 mm/min)  
Fully automatic testing Penetration is shown graphically  
CBR index is given automatically

(FR-Z 143) CBR MOULD AND AXSESUARS  
(Cbr Kalibi ve Aksesuarları)  
CBR Mould CBR Solid Base, Perforated Base, Spacer Disc  
CBR Slotted Surcharge Weight, Annular Surcharge Weight  
Swell Plate CBR Tripod Dial Gauge (25 mm / 0.01 mm)

(FR-Z 072)  
SPEEDY MOISTURE METER  
(Hızlı Nem Tayin Aparatı)

(FR-S 072)  
NUCLEAR DENSITY MOIS.  
(Nükleer Yoğunluk Cihazı)

(FR-Z 042) FIELD CBR TESTER  
(Arazi Tipi CBR)  
The machine is designed with a capacity of 50 kN and suitable for field works.

(FR-Z 137) SOIL PERMEABILITY SET  
(Zemin Perembilite Seti)  
The equipment is used to determine the permeability of the fine-grain soil such as clayey and silty soil types.

(For the detailed technical specifications, please visit our website.) (www.fores.com)
(FR-Z 138) SEDIMENTATION WITH HYDROMETER METHOD
(Hidrometro Metodu ile Sedimentasyon Deney Seti)

(FR-Z 065) HAND VANE TESTER
(El Tipi Vane Cihazı)
Equipment is used to determine the shear strength of the soil either in the laboratory or in the field (in-situ). It is very easy to use and gives the result directly in kPa.

WATER LEVEL INDICATOR
(Su Seviyesi Tespih Cihazı)
The equipment is used to determine the level of water in boreholes, wells or any other ground opening.

(FR-Z 268) ROCK UNCONFINED HOUKCELL
(Kaya Tek Eksenli Hüküresi)

(FR-Z 277) PRESSYOMETER
(Presiyometre)

(FR-Z 275) PORTABLE ROCK SHEAR APP.
(Portatif Kaya Makaslama Düzeniği)

(Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detailed technical specifications, please visit our web site.) (www.foreas.com)
(FR-Z 041)
SHEAR TESTER (DIRECT SHEAR)
(Direk Kesme Test Cihazı)

The equipment is used to determine the resistance of soil against shear forces applied on it.
The device is equipped with a KIOSK type touch screen, load cell with a capacity of 5 kN.
The loading speed varies from 9 – 0.00001 mm/min.
The equipment is supplied with vertical and horizontal dials, beam loading device, shear box (either 60 mm diameter or 60x60 mm square box) and weight s

(FR-Z 108)
TRIAXIAL TESTER - DIGITAL
(Üç Eksenli Test Cihazı)

The equipment is used to determine stress-strain relationship for the soil sample and the shear strength parameters that is required in determining the soil characteristics when it interacts with structure or used as a construction material
Capacity: 50 kN
Used for UU, CU, CD tests
Automatic kiosk type touch screen.
Loading: 9.0000 - 0.00001 mm/min.
Pressure unit with digital indicator.
Acrylic triaxial discs
Upper and lower discs
Metal porous discs.
Acrylic water tank
Transducer for deformation measurement
Sampling equipment
Membrane and (O) ring

(For the detailed technical specifications, please visit our web site.) (www.foreas.com)
(FR-AS 059)
DIGITAL ASPHALT CONE PENETROMETER
(Dijital Asfalt Penetrometre)
Hand-operated model with a digital indicator to be used with a stopwatch

(FR-AS 063)
CLEVELAND FLASH POINT TESTER
(Parlama Noktası Test Cihazı)
The equipment can be used for determining the flash point for petroleum products such as bitumen.
The apparatus is equipped with electronic heater, thermostat, thermometers, and a sample cup.

(FR-AS 070)
SOFTENING POINT APPARATUS
(Yumuşama Noktası Tayin Cihazı)
The equipment comprises all the necessary parts to perform the test such as speed-controlled heater, temperature probe, glass beaker, (R&B), test rings.

(FR-AS 228)
CENTRIFUGE EXTRACTOR
(Santrifüj (Ayıncı) Extrakktör)
The equipment is used to determine the bitumen percentage in the asphalt mixtures. The extractor is available in two capacities speed control knob. The device is equipped with a button to quickly stop the machine. Filter Papers should be separately

(FR-AS 100)
EMULSION DISTILLATION UNIT
(Asfalt Emilsiyon Distilasyon Ünitesi)

(FR-AS 233)
REFLUX EXTRACTOR
(Reflüx Ekstraktör)
The equipment is used to determine the percentage of bitumen in the asphalt pavement mixtures. Capacity: 4000 g, Glass Jar Cylinder Wire mesh Cone (2ea), Hotplate, Condense

(Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detailly technical specifications, please visit our web site.) (www.foreas.com)
(FR-AS 87) MARSHALL STABILITY TESTER - LCD
(Marshall Stabilize Test Cihazı)

The equipment is used to determine the stability of the bituminous mix materials and capability. The machine is equipped with an LCD Data Acquisition System control the test and display the results, a memory to store up to 1000 test. The machine has a capacity of 30 kN and a loading rate of 2"/minute (50.8 mm/min). The machine is programmed to be fully automatic.

(FR-AS 90)
MARSHALL MOULD & SAMPLE EXTRUDER

The mould is supplied with base plate and collar. The 4” mould is made of a heavy-duty steel and protected against corrosion.

(FR-AS 234)
MARSHALL MIXER
(Asphalt Mikseri)

The equipment is used to mix the samples with bituminous materials. The mixer is equipped with a stainless steel bowl and heater.

(FR-AS 235)
AUTOMATIC MARSHALL COMPACTOR
(Otomatik Marshall Kompaktör)

The test is performed in a fully automatic mechanism and programmed to stop automatically upon test finish. The equipment is having the standard height and rammer weight according to the international specifications.

(FR-AS 095)
MARSHALL WATER BATH
(Marshall Su Banyosu)

The equipment is used to maintain a constant temperature for the Marshall and asphalt samples submerged in water. The water bath is equipped with a digital thermostat and digital indicator to control the water temperature.

(For the detailed technical specifications, please visit our website.) (www.foreas.com)
(FR-AS 060) CORING MACHINE - TRIAL MOUNTED
(Römorklu Karot Alma Makinesi)
The equipment is used to take core samples from the asphalt. The machine is installed on a trailer for easy transportation. The machine is equipped with a 5 Horsepower / 190cc, petrol engine, four stabilizing feet, 100 lt water tank.

(FR-AS 060A) CORING MACHINE - PORTABLE
(Masali Karot Makinesi)
The equipment is used to take core samples from the asphalt and concrete. The machine is designed to be portable and easily carried in a pick-up car.

(FR-AS 241) VACUUM PYCNOMETER
(Vakum Pihnometre)
The equipment is used to rapidly determine the asphalt content, bulk specific gravity of aggregates, the specific gravity of bituminous compacted road mixtures and the percent air voids in the sample.

(FR-AS 059) DUCTILITY TESTER
(Asfalt Süniye Test Cihazları)
The equipment is used to determine the distance that a standard briquette of asphalt cement will stretch before breaking. The machine is also equipped with ductility mould and plate.

(FR-AS 134) KINEMATIC VISCOMETER
(Kinematic Viskometre)
The equipment is used to determine the kinematic viscosity of the bitumen and road oil. The viscometer is equipped with electronic thermostat, thermometer and a heating unit.

(FR-GL 116)
THERMOMETERS
(Termometreler)
MANUEL THERMOMETERS
(Manuel Termometreler)

(Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detaily technical specifications, please visit our web site.) (www.foreas.com)
(FR-AS 288) ASPHALT OVEN - IGNITION METHOD
The equipment is used to determine the bitumen/binder content in the asphalt and hot-mix samples.
The maximum temperature for the oven chamber is 600°C.
The maximum temperature for the After-Burner unit is 950°C.
The bottom of the inner chamber is made of insulating bricks with high strength against abrasion and impacts.
The 7” True-Flat-Touch control panel is very user friendly and programmed to display the results graphically. And in real-time during test.
Weighing system (Capacity: 4 kg / 0.1 kg) is integrated in the oven.

(FR-AS 242) ROLLING THIN FILM OVEN
The equipment is used to determine the air and heat effect on a moving film of a semisolid asphalt sample.
Precision digital thermostat to maintain 163°C temperature.
Control thermometer.
Ventilation device. Glass containers.
Safety thermostat. Door with Large Glass for Inspection

(FR-AS 243) SAYBOLT VISCOMETER
The machine is equipped with a digital thermostat and indicator to control the temperature. The machine is also equipped with a mixer to ensure the homogeneity while testing, copper coil for quick cooling and sample cup with orifice.

(FR-AS 242 A) THIN FILM OVEN WITH ROTATING SHELVES
The equipment is used for the thin film and loss of heating determination via the Thin Film Oven Test (TFOT).
Internal chamber and external frame all made from stainless steel, double wall insulation with fiberglass, double door.
Temperature control by digital thermoregulator.
The plate rotates at 5-6 rpm.

(Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detailed technical specifications, please visit our website.) (www.foreas.com)
(FR-AS 240)
BROVOLD GYRATORY COMPACTOR
The lightweight Superpave Gyratory Compactor designed for contractors on the move.
Fast Take
• Lightest Superpave Gyratory Compactor (only 304 lbs!).
• Easily transported in small truck or minivan.
• Rugged industrial electronics.
• Very few moving parts.
• Strong tubular construction to keep gyratory angle constant.

Lightweight but powerful
Available only from Pine, the Brovold Gyratory Compactor is a completely self-contained SGC that weighs only 350 pounds. Just roll it into the bed of a pickup truck or ordinary minivan to take it anywhere.

(FR-AS 230)
AGEING CABINET WITH PRESSSURE
(Basınçlı Yaşlandırma Kabini)

(FR-AS 059)
PURIFYING OVEN WITH VACUM
(Gaz Arındırma Firını)

(FR-AS 229)
BENDING BEAM RHEOMETER
( Eğilme Kiriş Rheometresi)

(FR-AS 247)
UNIVERSAL SERVO PNOMATIK TESTING SYSTEM
( Universal Servo Pnoomatik Test Sistemi)

( Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detaily technical specifications, please visit our web site. ) (www.foreas.com)
(FR-AS 050) WEEL TRACE TESTING MACHINE
(Tekerlek İzi Test Cihazı)

(FR-AS 245) CLIMATING CABINET
(İklimlendirme Kabini)

(FR-AS 246) HYDROLIC UNIVERSAL TESTING SYSTEM
(Üniversal Test Sistemi)

(FR-AS 249) ROLLER COMPACTOR

(Detaylı teknik özellikleri için lütfen web sayfamızı ziyaret ediniz. / For the detailed technical specifications, please visit our website.) (www.foreas.com)
(FR-Ö 073) İSITICI TABLA
(Hot Plate)

(WATER BATH)
(Su Banyosu)

(FR-GL112/HB) ÖZGÜL AĞIRLIK SEHPASI-TERAZİSİ
(Specific Gravity Balance)

(FR-GL114/HB) ÖZGÜL AĞIRLIK SEPETİ
(Density Basket)

(FR-GL114/HB) PLATFORM BASKUL
(Platform Scale)

(FR-GL104/HB) SAF SU CİHAZI (Yerli)
(Water Distillers)

(LABORATUARY BALANCES)
(Laboratuvar Terazileri)
30kg. - 0.5/6kg. - 0.1gr.

(FR-Ö 087) ANALİTİK TERAZİLER
NEM TAYİN TERAZİLERİ,
ELEKTRONİK TERAZİ
(410 gr - 0,001 gr)
(Analitic Balances
Electronic Balances)

(FR-GL134/HB) SICAK OCAK
(Hot Plate)

(FR-Ö 043) MEKÂNİK TERAZİLER
(Dial-O-Gram Balance, Ohaus Tipi,
20 kg - gr, 261 gr - 01 gr)
(Mechanical Balances)

(Detaylı teknik özellikleri için lütfen web sayfamızı ziyaret ediniz. / For the detail technical specifications, please visit our web site.) (www.foreas.com)
TILTING OPEN FLOW CHANNEL

(1) 900L x 30H x 25W
(2) Side glass: 10
(3) Rail (For instrument carriage): 25 x 6m (sus pipe)

TILTING FLOW CHANNEL

PARSHALL FLUME SYSTEM

PERMEABILITY TANK

UNIVERSAL HYDRAULICS SYSTEM

(For the detail technical specifications, please visit our web site.) (www.foreas.com)
LAMINAR FLOW TABLE

Hydraulics Bench independent floor standing unit produces laminar flow through the 3mm gap of two glass plates (600W x 900L mm).

The top glass plate is opened from front edge and retained to settle the models and for the better visualization of the change of stream lines, 20mm grid on white background is placed under side of lower glass.

Clear and sharp stream lines obtained by equally spaced 19 nozzles and ample size of dye reservoir with control valve.
**FLUID FRICTION APPARATUS**
1. Laminar/turbulent flow in pipes, Energy losses in bends and fittings, Orifice plate, 4. Venturi meter, Pitot tube, Use of manometer (Hg & H2O)

**LOSES IN PIPE BEND**
1. Small bore straight pipe, Larger bore straight pipe, 90° mitre bend, Proprietary Elbow, Gate valve, Glove valve, Sudden expansion, Sudden Contraction, Small radius, smooth 90° bend, Medium radius, smooth 90° bend, Large radius, smooth 90° bend

**FLOW MEASURING APPARATUS**
A serial connection of Venturi, Orifice meter and 90 degree Elbow pipe with proprietary rotameter with tappings of prior or after each of devices.
The 9 lane of vertically installed manometer tube is connected to each of devices so that they can show energy loss of flow water.

**HYDRAULICS BENCH**
Self contained and fully mobile service unit.
Required outer service is single phase electricity, only.
Continuous flow monitoring and the exact flow rate measurement. An open channel and ample working space on the bench top for various experiment.

**PIPE FRICTION**

**VENTURI METER**

**VOERTX APPARATUS**

**JET IMPACT**

**BERNOULLI’S THEOREM**

**FLOW THROUGH AN ORIFICE**

(Detaylı teknik özellikleri için lütfen web sayfamızı ziyaret ediniz. / For the detail technical specifications, please visit our web site.) (www.fores.com)
Demonstrate the totally different fluid behavior for laminar and turbulent flow and their coexistence range. Establish the critical Reynolds number and shows clearly the transition point. Detail studies for the effect and relations of viscosity, temperature, varying velocity of fluid and Reynolds’s number.

(Detail technical specifications, please visit our website.) (www.foreas.com)
GAS-LIQUID EQUILIBRIUM
A Distillation apparatus consists of still system, two steps complete cooling system and receiver with reflux circulation. Read out digital temperature of four points, simultaneously. Level gauge for inside invisible still and receiving tank. Heating mantle and Electronic temperature control.

TRAY DRIER

HEAT EXCHANGER

THERMAL CONDUCTIVITY MEASURING APPARATUS

FAN TEST RIG

STRAIGHTENER TEST APPARATUS

(Detaylı teknik özellikler için lütfen web sayfamızı ziyaret ediniz. / For the detail technical specifications, please visit our web site.) (www.foreas.com)
Open wind tunnel for a variety of aerodynamic experiments. Homogeneous flow through the flow straightener and special nozzle contour. The setup is an open wind tunnel used to demonstrate and measure the aerodynamic properties of various models. For this purpose, air is drawn in from the environment and accelerated. The air flows around a model, such as an aerofoil, in a measuring section. The built-in axial fan with guide vane and a variable-speed drive is characterised by an energy-efficient operation at high efficiency. Air velocities of up to 36 m/s can be reached in this open wind tunnel. Lift and drag are detected and displayed digitally. The air velocity in the measuring section is displayed on the inclined tube manometer. By using the V Data Acquisition System, the measured values for pressure, displacement/angle, velocity and force can be transferred to a PC where they can be analysed with the software.

Smoke Tunnel

Air Flow Bench

Essential base unit for eight different experiment modules that demonstrate key principles and phenomena of air flow. Modular Air Flow bench is designed to demonstrate behaviour of bodies during flow around or through bodies with a compressible fluid. The purpose of experiments is familiarisation with and optimisation of drag and the flow field around a body. The trainer consists of a centrifugal fan, which can be used to generate flow velocities up to 40m/s. The fan speed can be changed using Variable Frequency Drive (VFD).
POUR POINTS MEASURE WITH THE POUR POINT TESTER PPT 45150

The portable Pour Point Tester PPT 45150 by PSL Systemtechnik is a compact lab - instrument to measure the pour point (no-flow point) of oils and oil products.
The PPT 45150 measures acc. to the rotational method ASTM D5985 like the Herzog Pour Point Apparatus MC 850.

EXAMINE ASPHALTENE PRECIPITATION WITH THE FLOCCULATION TITRIMETER FT5

Measure precipitation and crystalisation of asphaltenes in very dark, undiluted crudes and oil products with the automated Flocculation Titrimeter FT 5.

ANALYSIS OF WAX APPEARANCE AND DEPOSITION WITH THE WAX FLOW LOOP

The fully automated Wax Flow Loop by PSL Systemtechnik is a compact laboratory instrument to research deposition effects of waxes, paraffins and asphaltenes in pipelines.

VISCOSITY TESTING WITH THE VISCOSITY MEASURING SITE VM 30150

With the portable Viscosity Measuring Site VM 30150 the viscosity of newtonian and non-newtonian fluids f.e. crudes and petroleum products can be measured according to DIN 53019 / ISO 3219.

EXAMINATION OF SCALE FORMATION IN PIPELINES WITH THE DIFFERENTIAL DYNAMIC SCALE LOOP

The Differential Dynamic Scale Loop (DSL) by PSL Systemtechnik as a fully automated laboratory device is a tube blocking system to examine the precipitation and deposition of scale and other salt crystals in pipework systems like oil or water pipelines.
GAS HYDRATES: OVERVIEW LAB DEVICES

Most stringent test for research on gas hydrates, kinetical gas hydrate inhibitors, anti-agglomerants and corrosion inhibitors
Turbulent mixing conditions simulate pipeline conditions
For each cell individually adjustable pressure up to 200 bar (2,900 psi)
Variable test setting, shut-down, restart, multiple ramps, cycles and more

QUALITY CONTROL OF DRAG REDUCING AGENT WITH THE TURBULENCE RHEOMETER

The Turbulence rheometer (TR) by PSL Systemtechnik is a fully automated laboratory plant to research fluid currents in pipelines.

MEASURING OF THERMAL CONDUCTIVITY WITH THE MEASURING SYSTEM LAMBDA

The portable Lambda System for measurements of the thermal conductivity of fluids, powders, gels and nano particled fluids was developed as an enhanced instrument based on ASTM D2717.

STRESS-TEST OF OILFIELD CHEMICALS WITH THE DYNAMIC STABILITY LOOP

The Dynamic Stability Loop (DySL) is designed for testing oilfield chemicals on long term stability under most rigorous conditions in laboratory. The DySL combines multi-loop testing of viscosity and filter blocking tests for low and high temperature under pressurized conditions.

MEASURE H2S IN BITUMEN OR HEAVY FUEL OILS

The portable H2S Analyser DyMS was developed for determination of H2S content in bitumen, asphalt, crude and heavy oils and refineray products. The measuring method of the H2S Analyser DyMS allows accurate measurements in liquid and gas phase.
BETON ve YAPI MALZEMELERİ / Construction

- Slump Test Seti (Slump Test Set)
- Abraham Konisi (Abraham Conic)
- Beton Yayılma Tablasi (Concrete Flow Table)
- Beton Hava Metresi (Concrete Air Meter)
- Silindir Numune Kalibi (Cylinder Concrete Mold)
- Küp Numune Kalibi (Cubic Concrete Mold)
- Harç Penetrometresi (Mortar Penetrometer)
- Cep Tipi Beton Penetrometresi (Pocket Penetrometer)
- Silindir Başlıklama Seti (Cylinder Capper Set)
- Vibrasyon Masası (Vibrating Table)
- Laboratuvar Tipi Portatif Vibratör (Internal Vibrator)
- K Tipi Slump Seti (K Slump Set)
- Pan Mikser (Pan Mixer)
- Kür Havuzu Istıcaları (Water Bath Heater)
- Çatlık Ölçüm Mikroskobu (Crack Detection Mic.)
- Beton Permeabiliteli Cihazı (Concrete Permeability)
- Yüzey Korozyon Cihazı (Specimen Grinding Machine)
- Su Geçirişenlik Cihazı (Water Permeability)
- Donma Çözülme Test Cihazı (Freezing And Thawing App.)
- Buzülme ve Sünme Test Cihazı (Creep Test Apparatus)
- Dinamik Young Modülü Cihazı (Dynamic Young’s Modulus Meter)
- Beton Kesme Cihazı (Specimen Cutting Mac.)
- Beton Test Çekici (Manual Test Hammer)
- Beton Esneklik-Başınç Test Cihazı Cihazı (Concrete Flexure Compression Tester)
- Rock Bolt Test Cihazı Beton Test Presi (Rock Bolt Tester)
- Extensometer (Extensometer)
- Compressometer (Compressometer)
- Beton Boru Test Presi (Concrete Pipe Compression Testing Mac.)
- Beton Direk Eksenel Test Cihazı (Concrete Pipe Axial Force Testing Mac.)
- Block Permeability Test Cihazı (Block Permeability Testing Mac.)
- Elektronik Teraziler (Electoronic Balances)
- Etüv (Drying Oven)
- Cam Laboratuvar Ölçüm Cihazları (Glass Measuring Instruments)
- Termometreler (Thermometers)
- Kumpas Çeşitleri (Vernier Calipers)

ÇİMENTO / Cement

- Viskomat NT Reometre (Viscomat NT Rheometer)
- Çimento Test Presleri (Cement Compression Testing Machines)
- Çimento Basma ve Eğilme Presi (Cement Compression and Tensile Testing Mac.)
- Le Chatelier Cam Şişesi (Le Chatelier Flask)
- Elek Setleri (Sieve Sets)
- Çimento Kalorimetresi (Cement Calorimeter)
- Vikat Aleti (Vicat Apparatus)
- Gillmore Test Cihazı (Gillmore App.)
- Harç Mikseri (Mortar Mixer)
- Motorlu Harç Yayılma Tablasi (Motorized Mortar Flow Table)
- Manuel Harç Yayılma Tablasi (Manual Mortar Flow Table)
- Dijital Briquette Test Cihazı (Digital Briquette Test App.)
- Küp Kalıp (Cubic Mold)
- Küp Numuneleri İçin Sallama Mak. (Vibration Machine)
- Su Hacım Test Cihazı (Water Content App.)
- Eğilme Test Cihazı (Flexure Mac.)
- Üç Parçalı Harç Kiriş Kalibi (Three Gang Mortar Mold)
- Çimento Komperatörü (Cement Comparator)
- Vakum Pompası (Vacuum Pump)
- Grouting Mold (Grouting Mold)
- Auto Clave Cihazı (Auto Clave)
- Harç Ağız Test Cihazı (Mortar Bleeding App.)
- Harç Permeabiliteli Test Cih. (Mortar Permeability App.)
- Kür Odası (Humidity Curing App.)
- Harç Permeabiliteli Kalibi (Mortar Permeability Mold)
AGREGA / Aggregate

- Özgürlük Sehpası (Coarse Agg. Spesific Gravity)
- Kızlı Ötesi Nem Ölçer (Infrared Moisture Meter)
- Hızlı Nem Tayin Cihazı (Speedy Moisture Tester)
- Los Angeles Cihazı (Los Angeles Abrasion Test Mac.)
- Elek Sallama Cihazı (Sieve Shaker)
- Agrega Yikama Eleği (Agg. Washing Sieve)
- Agrega Kırm Test Cihazı (Agg. Impact Testing Mac.)
- Agrega Çarpma Test Cihazı (Agg. Crushing T.M.)
- Deval Aşındırma Test Cihazı (Deval Abrasion T.M.)
- Kazıma Sertlik Test Cihazı (Scratch Hardness Tester)
- Birim Ağırlık Kapları (Unit Weight Measure)
- Kum Organik Kirilik Test Cihazı (Sand Organic Impurities)
- Numune Tepsileri (Sample Pans)
- Agrega Dayanıklılık Test Cihazı (Compaction App.)
- Elek Setleri (Sieve Sets)
- Bölgec (Rifle Type Sample Splitter)
- Boşluk Miktarı Tespit Cihazı (Void Measurement App.)
- Yassılık Şablonu Agrega Ezme T.Cih. (Flakiness App)

ZEMİN / Soil

- Likit Limit Seti (Liquid Limit Set)
- Likit, Buzulma Plastik Limit Seti (Fall-Cone Liquid Limit)
- Laboratuvar Vane Cihazı (Lab. Vane Tester)
- Proktor Penetrometre (Proctor Penetrometer)
- Plaka Yükleme Test Cihazı (Plate Bearing Test Set)
- Kumu Eşdeğişeri Seti (Sand Equivalent Test Set)
- Çep Penetrometresi (Pocket Penetrometer)
- Dinamik ve Statik Penetrometreler (Dynamic Penetrometer)
- Otomatik Proktor (Automatic Proctor)
- Motorlu Dijital Direk Kesme Cihazı (Motorized Dig Direct Shear)
- Bilgisayarlı Direk Kesme Cihazı (Computerized Direct Shear)
- Orta Kapasiteli Üç Eksenli Test Cihazı (Triaxial App.)
- Nokta Yükleme Dayanımı Test Cihazı (Point Loading Stength Testing)
- Direk Kayar Kesme Cihazı (Rock Core Cut-off Mac.)
- Dijital Laboratuvar C.B.R. Test Cihazı (Dig.lab. C.B.R. T.Mac.)
- Arazi Tipi C.B.R. Test Cihazı (Field C.B.R. Test Mac.)
- Bilgisayarlı Üç Eksenli Basınc T.Cih. (Computerized Triaxial App.)
- Otomatik Hacim Değişim Cihazı (Auto. Volume Changing T.M.)
- Çok Amaçlı Yükleme Test Cihazı (Multi Function Strength T.Mac.)
- Elektro Mekanik Basınc Test Cihazı (Electro Mechanic Compression)
- Serbest Basınc Test Cihazı (Unconfined Compression T.Mac.)
- Dört Ünitesi Üç Eksenli Test Cihazı (Four Unit Triaxal T.App.)
- Hacim Değişimini Ölçme Kontrol Cih. (Volume Change App.)
- Yanal Gerilme İletiçisi (Lateral Strain Transducer)
- İklimlendirme Dolapları (Constant Temp /Humidity Chamber)
- Sıralı Tip Konsolidasyon Cih. (Bench Type Consolidation)
- Otomatik Konsolidasyon T.Cih. (Auto. Consolidation)
- Modifiye Otomatik Kompaktör (Modified Auto. Compactor)
ASFALT / Asphalt - Bitumen

- Asfalt Penetrometresi (Asphalt Penetrometer)
- Asfalt Sünümce Test Cihazı (Softing Point App.)
- Akma Noktasi Test Cihazı (Viscosimeter)
- Engler Viskozite Test Aleti (Engler Viscosimeter)
- Saybolt Viskozimetre (Saybolt Viscosimeter)
- Asfalt Etüvü (Asphalt Oven)
- İnce Örtü Fırını (Thin Film Oven)
- Benzincili Karot Makinesi (Asphalt Core Drilling Mac.)
- Asfalt Dayanım Test Cihazı (Stability Testing Mac.)
- Motorlu Merkezkaç Çıkarma Cih. (Motorized Centrifuge Extractor)
- Cleveland Parlama Noktasi T. Cih. (Cleveland Flash Point Tester)
- Dijital Dayanım Tespit T.Cih. (Digital Stability T.M.)
- Su Banyosu (Water Bath)
- Asfalt Akış Ölçer (Asphalt Flow Meter)
- Asfalt Kompaksiyon Çekici (As. Compaction Pedestal)
- Su Basması Genişleme Kalıbı (Flood Expansion Mold)
- Asfalt Mikseri (Asphalt Mixer)
- Motorlu Asfalt Kompaksiyon Cih. (Motorized As. Compaction)
- Yüzey Profilografi (Pavement Profilograph)
- Trichloroethane Çözünülüklük T.Cih. (Solubility Bituminous)
- İnce Örtü Soyulma Test Cihazı (Constant Stripping of Bitumen)
- Asfalt Saha Permeabilit Cihazı (Field Permeability App.)
- Sürünme Direnci Test Cihazı (Friction Tester)
- Benkelman Kırış Cihazı (Benkelman Beam)

GENEL ve ÖLÇÜM / General and Measuring

ÖLÇÜME GRÜBU (MEASURINGS GROUP)
- Laboratuar Ettüleri (Laboratory Ovens)
- Elek Setleri (Sieve Sets)
- Özgül Ağırlik Düzenegi (Specific Gravity Balance)
- Su Banyoları (Water Baths)
- Dijital Hassas Teraziler (Digital Precision Balances)
- Dijital Nem ve Sıcaklık Termometreleri (Dig. Hum. & Temp. Termometers)
- Su Damıtma Cihazı (Distiller)
- Kumpas ve Takometre Çeşitleri (Vernier)
- Kaplama Kalınlığı Ölçme Cihazı (Coating Thickness Gauge)
- Sabit Sıcaklık ve Nem Odası (Constant Hum. & Temp. Chamber)
- Kül Fırını (Muffle Furnace)
- Silikon Fırını (Silicon Muffle Furnace)
- Iletkenlik Ölçüm Cihazı (Conductivity Meter)
- Manyetik Işıkçı Karstırıcı (Magnetic Stirrer)
- Ahsap Nem Ölçüm Cihazı (Wood Moisturemeter)
- Beton Nem Ölçüm Cihazı (Concrete Moisturemeter)
- Rüzgar Hızı Ölçüm Cihazı (Ananometer)
- Metal Dedektörleri (Metal Detectors)
HİDROLİK - HİDRODINAMİK / Hydrolic

HİDROLİK – TERMODINAMİK – AERODİNAMİK LABORATURLARI BAŞLACıKA DENEYLERi:

1) MALZEMELERiN İNi İLETiM KATSAYiLARiNIN BELİRLiLEniSi DENEYi
2) AKiŞKANLARiN İNi İLETiM KATSAYiLARiNIN BELİRLiLEniSi DENEYi
3) AKiŞKAN BORUSU DENEYi
4) VANTiLATOR DENEYi
5) İŞiNİM ve DOĞAL TAŞiNİM DENEYi
6) PARALEL-ZiT AKİŞLi İNi DEĞiSTiRiCİ İNi DENEYi
7) AKİŞKAN YATAĞiNDa AKiŞKANAŞTıRMa DENEYi
8) İKLİMLENDiRiM DENEYi
9) DOĞAL ve ZORLANMıŞ TAŞiNİM YOLOGIN YOLUYLA İNi TRANSFiRE DENEYi
10) KAYNAMADA İNi TRANSFiRE DENEYi
11) SOĞURMALı SOĞUTMA ÜNiTESi DENEYi
12) ÇAPRAZ AKiŞLi İNi DEĞiSTiRiCİ DENEYi
13) DIYaFRAMLA DEBi MOMENT ÖLÇÜMÜ DENEYi
14) SANTRİFÜJ POMPA DENEYi
15) TAHRiBATLı MALZEME MUAYENESi DENEYi
16) İNCe ÇiĐARLI SİİNDiRKİ BASiNC KABi DENEYi
17) HİDROLİK SERVO MEKANiZMALAR DENEYi
18) MOTORLAR DENEYi
19) JİROSKOP DENEYi
20) MEKANiK TİTREŞiMLER DENEYi
21) TAHRiBATSiZ MALZEME MUAYENESi

TERMODiNAMiK

LABORATUARi TEST CiHAZLARi

(LABORATORY TESTING EQUIPMENTS for THERMODYNAMIC)

(FR-TE222) ÇiFT YÖNiLÜ İNi İLETiKLiNK TEST CiHAZi
(Cross Flow Heat Exchanger Apparatus)

(FR-TE220) İKLİMLiNDiRiME (KLİMA) TEST CiHAZi
(Air Conditioning Apparatus)

(FR-TE224) MEKANiK İNi POMPASi
(Mechanical Heat Pump Apparatus)

(FR-TE227) SiCAK POMPALiMA TANiTiM GöSTERiM ÜNiTESi
(Heat Pump Demonstration Apparatus)

(FR-TE226) SOĞUTUCU ÜNiTE TEST CiHAZi
(Refrigeration Test Apparatus)

(FR-TE225) SUDAN HAVAYA İNi AKTaRMA İLETiKLiNK ÜNiTESi
(Double Water to Air Heat Exchanger Apparatus)

(FR-TE223) SUDAN SUYA İNi AKTaRMA İLETiKLiNK TEST CiHAZi
(Double Water to Water Heat Exchanger App.)

(FR-TE223-2) SUDAN SUYA İNi AKTaRMA İLETiKLiNK TEST CiHAZi
(Double Water to Water Heat Exchanger App.)

(FR-TE221) TEMRAL KONDAKTiViTE DENEY SiSTEMi (Thermal Conductivity Experimental System)

AERODiNAMiK

(FR-AE184) AERODiNAMiK AÇiK TİP RÜZGAR TÜNELi
(Open Type Wind Tunnel)

(FR-AE192) AERODiNAMiK DENGi SİSTEMi
(Aerodynamic Balance System)

(FR-AE188) AERODiNAMiK EYFEL TİP RÜZGAR TÜNELi
(Eiffel Type Wind Tunnel)

(FR-AE197) AERODiNAMiK GAZ TABANCA SiSTEMi
(Gas Gun System)

(FR-AE189) AERODiNAMiK GİMBAL SİSTEMi (Gimbal System)

(FR-AE201) AERODiNAMiK ŞOK TÜNELi (Shock Tunnel)

(FR-AE195) AKiŞ GöZLEMiLEME RÜZGAR TÜNELi
(Flow Visualization Wind Tunnel)

(FR-AE206) BERNOLLi TEOREMi TEST CiHAZi (Bernoulli Theorem App.)

(FR-AE199) DUMAN JENARATÖRÜ (Smoke Generator)

(FR-AE200) DUMAN RÜZGAR TÜNELi (Smoke Wind Tunnel)

(FR-AE186) EMME TiPLi RÜZGAR TÜNELi
(Suction Type Wind Tunnel)

(FR-AE191) FAN TEST CiHAZi (Fan Tester Apparatus)

(FR-AE194) FAN TEST CiHAZi (Fan Tester Apparatus)

(FR-AE203) GERi DÖNÜŞÜMLÜ AÇi ÖLÇER (Ejected Flow Apparatus)

(FR-AE202) HAVA AKiŞ MASASI (Air Flow Bench)

(FR-AE207) HAVA İiTME KUVVETi TEST CiHAZi
(Propeller Driving Force Tester)

(FR-AE204) HAVA JET CiHAZi (Air Jet Apparatus)

(FR-AE194) HAVA ORNEKLEME TEST SiSTEMi (Air Sampler System)

(FR-AE187) KALiBRASYON RÜZGAR TÜNELi (Calibration Wind Tunnel)

(FR-AE185) KAPALi TİP RÜZGAR TÜNELi (Close Type Wind Tunnel)

(FR-AE198) SiCAK RÜZGAR TÜNELi TEST CiHAZi (Heat Wind Tunnel Apparatus)

(FR-AE190) SUPErSONiK RÜZGAR TÜNELi (Supersonic Wind Tunnel)

(FR-AE193) UFAK ÇAPLi FAN TEST CiHAZi (Small Site Fan Tester)

(FR-AE196) AERODiNAMiK ÜFLEME PERFORMANSi TEST CiHAZi (Blower Performance Test Apparatus)

(FR-AE205) VALF TEST CiHAZi (Valve Test Apparatus)
NOTLAR / NOTES:
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mutluluğuya

www.foreas.com'da
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“Superior quality, uncompatitible prices and the success coming from RESPONSIBILITY”) 

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cihaz teknik özellik ve resimler için;
lütfen, genel “TEST CİHAZLARI KATALOĞU” niteliğindeki
web sitemizi ( www.foreas.com ) ziyaret ediniz.

( For the detaily pictures and technical specifications;
we please you to visit our wide “TESTING EQUIPMENTS CATALOG” - web site. )

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model, şekil ve teknik özelliklerini değiştirme hakkı firmamıza aittir.

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“ WE STRONG with OUR HIGH TECHNOLOGIES FAMILY ! ”

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