

EMIN Vietnam Joint Stock Company

Testing Equipment - Mechanical Instruments - Automation Equipment



TESTING AND MEASURING EVERYTHING



2018



Testing & Measuring Everything

EMIN Vietnam joint stock company is the leading company in direct importing and distributing Testing equipments, Automation equipments, Laboratory equipments, Handheld Tools..... With variety models, the best price come with flexible payment policy and good after-sell services. We do believe you will be served and be guided with all the best.

Mission

Our mission is to work closely with the manufacturer, the leading provider in Vietnam and the world to provide high-quality equipment and the cheapest prices for customers as individuals and organizations domestic and foreign.

We are committed to becoming a reliable partner not only for enterprises with 100% foreign investment, multinational companies, local businesses, the Corporation, the Corporation, the projects with international funding, the joint-stock companies, limited liability companies, etc ... but also with businesses in the private sector, mainly small and medium enterprises.

Vision

The development objective of EMIN company will become a distributor of industrial equipment, instrumentation, automation, hand tools, ... leading in Vietnam in order to meet most of the needs of the enterprises in Vietnam's economy.

The following business perspective were employees of JSC EMIN Vietnam understood, and imbued with absolute compliance with:

- No selling substandard, counterfeit and pirated goods, goods of unknown origin ...
- Always provide our customers the best products with the most competitive price comes with a perfect service.
- Always place the top prestige, not for profit, but fraudulent, deceptive customers ...
- Always put yourself in the place of the customer to take the decision, most likely to behave ...
- Always satisfy every customer to EMIN.



- Provide a comprehensive electrical measurement in civil and industrial.
- Power Laboratory Equipment
- Analyzing electronic signals Equipment
- Telecommunications test equipment
- Fitting equipment, electronics repair

Clamp meter



CHAUVIN ARNOUX
METRIX
FLIR
SANWA
GW INSTEK
PROTEK
EXTECH
HIOKI
KYORITSU
TENMARS
SEW
SONEL
BK PRECISION
TESTO
LUTRON
PROKITS
WUHAN
KEYSIGHT
WUHAN

Model: CL601

- Range: 0 to 600 AAC RMS
- Resolution: 0.1 A
- Sampling rate: 64 samples/period
- Storage interval: programmable from 125 ms to 1 day
- Recording modes: Start/End, FIFO, XRM extended mode, on alarm
- Recording duration: from 15 minutes to 8 weeks, programmable with DATA-VIEW
- Storage capacity: 240,000 measurements (512 kB)
- Communication: optically-isolated USB 2.0
- Power supply/battery life: 2 x AA 1.5V batteries / from 100 hrs to more than 45 days

Multimeter



SANWA
CHAUVIN ARNOUX
METRIX
FLIR
TEKTRONIX
KEITHLEY
GW INSTEK
HIOKI
KYORITSU
SEW
EXTECH
SONEL
PROTEK
TENMARS
EZ DIGITAL
TESTO
OWON
LUTRON
UNI
BK PRECISION
PROKITS
TTI
GLOBAL
KEYSIGHT

Model: YX360TRF

Indicator needle
DCV: 0.1/0.25/2.5/10/50/250/1000V
+ -5%
ACV: 10/50/250/750V + - 4%
 Ω : 2k/20k/200k/2M/200M Ω + -5%
DCA: 50u/2.5m/25m/0.25A
C: 10uF
Source: R6 (IEC) or UM-3 (1.5V) x2

Cable Tester/Meter



SEW
CHAUVIN ARNOUX
EXTECH
SONEL
MEGGER

Model: 5500CB

- + Output signal frequency: 125kHz
- + Voltage measurement range: 12~300V AC/DC
- + Accuracy: $\pm(2\% \text{rdg} + 2\text{dgt})$
- + Display: LCD shows function and bar-graph
- + Fuse: 690V/0.5A (6.3 x 32mm)

Leakage Current Tester

KYORITSU
CHAUVIN ARNOUX
GW INSTEK
SANWA
SONEL
HIOKI
SEW
SMARTSENSOR
TENMARS
AINUO

Model: 2412

Measurements:
Current AC: 20 mA, 200mA,
2A, 20A, 200A, 500A
Voltage AC: 0 ~ 600V
Resistance: 200Ω
Frequency: 40 ~ 400Hz
Ring pliers: Ø40mm

Power Quality Analyzer

CHAUVIN ARNOUX
METRIX
TEKTRONIX
FLIR
GW INSTEK
SONEL
KYORITSU
HIOKI
SEW
EXTECH
TENMARS
BK PRECISION
AINUO
IET LAB
WUHAN

Model: C.A 8333

- Number of channels: 3U / 4I
- Number of inputs: 4V / 3I
- IEC 61000-4-30: EN50160 reports
- Voltage (TRMS AC+DC): 2 V to 1,000 V
- + Voltage ratio: Up to 500 kV
- Current (TRMS AC+DC):
- + MN clamps: MN93 : 500 mA to 200 AAC ; MN93A : 0,005 AAC to 100 AAC
- + C193 clamp: 1 A to 1000 AAC
- + AmpFlex® or MA clamps: 100 mA to 10000 AAC

Low Voltage Tester

SEW
CHAUVIN ARNOUX
SANWA
FLIR
EXTECH
KYORITSU
HIOKI
SONEL
TESTO
STANLEY

Model: LVD15

Voltage detection: 50V~1000V AC
Frequency: 50~500 Hz
Dimensions: 142(L) x 28(W) x 27(D)mm
Weight (battery included): Approx. 45g
Power source: 1.5V (AAA) x 2

Phase Indicator, Detector

KYORITSU
CHAUVIN ARNOUX
SANWA
HIOKI
SEW
EXTECH
SONEL
BK PRECISION
PCE
WUHAN

Model: 8030

- + Directive
- + Voltage AC 200 ~ 480V
- + Frequency effects: 20 ~ 400Hz, 200V ~ 480V

I - ELECTRICAL MEASURING INSTRUMENT

Tachometer



EXTECH
CHAUVIN ARNOUX
SANWA
HIOKI
SMARTSENSOR
TENMARS
ADTEK
ADASH
TESTO
LUTRON
IMR
KIMO

Model: 461895

Range (RPM)
Contact 5 to 99,999
Non-contact 0.5 to 20,000
Accuracy 0.05% rdg +1 digit
Surface Speed
0.2 to 6560ft/min
0.05 to 1999.9m/min
Resolution 0.1rpm (< 1,000 rpm)

Earth Resistance & Resistivity Tester



KYORITSU
CHAUVIN ARNOUX
GW INSTEK
SANWA
EXTECH
SONEL
SEW
HIOKI
BK PRECISION
SMARTSENSOR
WUHAN
AINUO

Model: 4105A

+ Resistance: 0 ~ 20Ω / 0 ~ 200Ω / 0 ~ 2000Ω
+ Ground Voltage (50.60 Hz): 0 ~ 200V AC
Accuracy
+ Resistance: ±2% rdg ± 0.1Ω (20Ω range)
±2% rdg ± 3dgt (200Ω/2000Ω range)
+ Ground voltage ± 1% rdg ± :: 4dgt
Source: R6P (AA) (1.5V) x 6
Size: 105 (L) x 158 (W) x 70 (D) mm

Multifunction Electrical Installations Meter



KYORITSU
CHAUVIN ARNOUX
SEW
SONEL

Model: 6016

+ Directive
+ Measuring communication circuit, measuring circuit, measuring soil resistivity ...
+ Measuring range: 20/200/2000MΩ /: 20/200MΩ ; 250/500/1000V DC

Magnetic Field Meter



AARONIA
METRIX
WAVECONTROL
HIOKI
EXTECH
TENMARS
LUTRON
NOVOTEST
EMCTD

Model: NF-5030

Frequency range: 1Hz to 1MHz (20/30MHz with Option 008/010)
Magnetic field (Tesla): 1pT to 500µT (typ. at 50Hz) expandable up to an amount of Tesla with PBS1
Magnetic field (Gauss): 10nG to 5G (typ. at 50Hz)
Electric field: 0,1V/m to 5kV/m (typ. at 50Hz)

Static Meter



TREK
MONROE - ELECTRONICS
SIMCO
KASUGA

Model: 523-1-CE

Measurement Range 0 to ± 20 kV DC.
Range 0 to ± 19,99 kV.
Resolution 10 V.
Dimensions : 31 mm H x 59 mm W x 183 mm D

Static Meter

TREK
MONROE - ELECTRONICS
SIMCO
KASUGA

Model: 152-1-CE

Measurement Range: 103 to 1013 Ω
Measurement Accuracy (of reading) at 25°
± 10° C and 20% to 70% RH:
Point to Point Probe (152BP-5P):
103Ω to 1012Ω range, ± 5%,
1013Ω range, ± 8%

Electrostatic Discharge/Charger Monitors

TREK
KASUGA
MONROE - ELECTRONICS

Model: NK-7001

Detection method: Vibration-type static sensor
- Attenuation property
+ Time taken for reduction from 1,000V to 100V
+ Time taken for reduction from 200V to 20V
Display range: ± 0.1 - ± 1999.9V ; 0.01 - 99.99sec

Electrostatic Chuck Supply

TREK
KASUGA

Model: PM12003

Output Voltage Range: 0 to +1kV peak AC, adjustable.
Max Source Current: Rise Time: Less than 5A peak AC, 5mA DC
Rise Time (10 to 90%, 10pF load): Less than 10ns
Fall Time (10 to 90%, 10pF load): Less than 100μs

Static Eliminator (Ionizer)

TREK
KASUGA

Model: 950

Output Voltage: 3.0 kV AC
Air Purge - operating pressure: 0.05 to 0.6MPa
Gauge Pressure (when connecting Nozzle Ionizer and optional nozzle)

Cable Fault Location

TAKACHIHO
SONEL
KEP
DET
WUHAN

Model: MPL-FF

Output frequencies:
512Hz/9.5kHz/38kHz/80kHz
Output power: 1W~5W
Transmitting modes: Direct connection, inductive, External coil
Battery Type: LR20 x 8, Direct: 50h
Visual indication: LCD with Backlight

High Voltage Amplifier



PINTEK

Model: HA-205

2500V/uS Super High Speed Model
170Vp-p (± 85 V DC)
900mA_{p-p} (± 450 mA DC)
Bandwidth: 3MHz / 100Vp-p
Gain (AMPL): 0~35 (10 Turn VR+SW)
Microprocess Control Protection

Insulation Tester



KYORITSU
CHAUVIN ARNOUX
METRIX
FLIR
SANWA
SEW
SONEL
LUTRON
HIOKI
EXTECH
MEGGER
SMARTSENSOR
TENMARS
BK PRECISION
KEP
AINUO
DET
TSURUGA
IET LAB

Model: 3128

1) Measurement of insulation resistance
Test voltage:
500V/1000V/2500V/5000V-
10000V/12000V
Resolution resistance measurement:
500G Ω /1T Ω /2.5T Ω /35T Ω
Accuracy: $\pm 5\%$ rdg | \pm and $\pm 20\%$ rdg
3dgt depending on resolution
Short circuit current: 5mA
2) the output voltage
Power voltage:
500V/1000V/2500V/5000V-
10000V/12000V
Accuracy: 0 ~ +20%
Solutions chosen:
50 ~ 600V (step 5V),
610 ~ 1200V (10V step),

High Voltage Testers



SEW
PINTEK
WUHAN

Model: 275HP

8 voltage settings: 240Vac, 2kV, 6kV,
11kV, 22kV, 33kV, 132kV, and 275kV.
High bright LED visual indication.
Sound indication.
Easy-to-probe method.
Self-test selection.
Use 3 x 1.5V "C" batteries.
High impact nylon casing.
Non-contact work by proximity.

Thermal Imaging Camera



FLIR
CHAUVIN ARNOUX
SONEL
SEEK
WUHAN
TESTO

Model: FLir E8

R resolution: 320 x 240 pixels
MSX resolution: 320 x 240 pixels
Thermal sensitivity: 0.06°C
Spatial resolution (IFOV): 2.6 mrad
Field of view/min focus distance:
45° x 34° / 0.5 m

Cable Height Meter

HAGLOF
SMARTSENSOR
MEGGER

Model: L5

Temperature: -20° to +45° C / -4°F-113°F.
Height: 0-999 m/ft. Resolution height: 0.1 m/ft.
Angle: -55° - 85°. Unit: Degrees 360°, Grads 400° and %. Resolution: 0.1°.
Accuracy: 0.1°.
Laser: Distance: 46cm/1.5ft - 700m/2000ft

InfraRed Thermometer

FLIR
SONEL
CHAUVIN ARNOUX
EXTECH
KYORITSU
TESTO
M&MPRO
LUTRON
HIOKI
KIMO
ELCOMETER
EBRO
HUATEC
SMARTSENSOR
BK PRECISION
PROKITS
LASERLINER
WUHAN
BOSCH

Model: VIR50

Laser Convergence Distance: 50" (127cm)
IR Temperature Range: -58 to 3992°F (-50 to 2200°C)
Repeatability: ±0.5% or 1.8°F/1°C
Basic Accuracy: ±(1% of rdg + 4°F/2°C) (31 to 212°F)
Max resolution: 0.1°F/°C
Emissivity: 0.10 to 1.00 Adjustable
Field of View (Distance to Target): 50:1
Type K Temperature Range: -58 to 2498°F (-50 to 1370°C)
Air Temperature Range: 32 to 122°F (0 to 50°C)
R EBRO SONEL HUATEC FLIR SMARTSENSOR BK PRECISION PROKITS LaserLiner CHAUVIN ARNOUX

Battery Tester

EXTECH
CHAUVIN ARNOUX
SEW
BK PRECISION
HIOKI
SBS
TENMARS
ITECH
HOPETECH

Model: BT100

Built-in datalogger stores up to 999 tests
Simultaneously measures DC Voltage and AC Milliohms
Auto power off
Includes Windows® 95/98/NT/2000/ME/XP compatible software for downloading readings to a PC

Electrical Safety

SEW
REGELTEX
CHINA
VIỆT NAM

Model: HS-175-8

Extended length (m): 10.62
Retracted length (m): 1.73
Stick width (mm): 57.5

Safety Testers

GW INSTEK
HIOKI
LEAPTRONIX
AINUO
TSURUGA
HOPETECH

Model: GPT-9603

5 kV AC, 20 mA, 100 VA AC
6 kV DC, 6 mA
Insulation Resistance
240 x 48 Ice Blue Dot Matrix LCD
Auto W-I and I-W Mode

I - ELECTRICAL MEASURING INSTRUMENT

1.2.Electrical Tester

Relay Protection Test Device



WUHAN
HV HIPOT
DET

Model : HT-802

AC current source
- Phase current output (RMS):
0 ~ 40A/phase; accuracy: 0.5%
- 3-phase in parallel output (RMS):
0 ~ 120A

Current Generators



FRANCELOG
KEP
DET
WUHAN

Model : MS15000B

- Electrotechnic current generator
15000VA
+ Continuously adjustable using au-
to-tranformer.
+ Current: 0 to 3000A /5 s/ 5V / cables
20m - 1 x 185mm²

Circuit Breaker Tester



SKB
HV HIPOT
WUHAN

Model : PKV-U3.0

Finish all testing subject by itself, no
need to connect auxiliary equipment.
Built-in printer, to print results easily.
Large screen LCD, graphically display.

Transformer Test Equipment



SKB
CHAUVIN ARNOUX
HV HIPOT
DET
WUHAN
RAYTECH

Model : PKR-2

Instrument and accompanying docu-
ments: inbuilt OLTC in-place diagno-
stics mode (DRM-test), calibration certif-
icate, operation manual, record book,
measurement procedure, software
(SW) for PC.

Insulation Testing



DET
KEP
WUHAN

Model : SVS-15D

Output test AC voltage ranges: 0.1; 3;
15 (kV)
High voltage sources count: 1
Leakage current measuring range: 0,3-
7,6; 0,3-10 (mA)
Total weight (control unit, testing bath,
HV unit): 51kg

Withstand Voltage Test

WUHAN

Model : YDQ-300/300

- Impedance voltage: $\leq 8\%$
- No-load current: $< 7\%$
- Product type: AC, AC&DC, AC cascade, AC DC cascade.
- Capacity(kVA): 300
- HV (kV): 300

Oil Test EquipmentKEP
DET
WUHAN**Model : OLT-100A**

- Compact and lightweight
- Fully automatic operation
- Fully compatible with IEC 60156
- Preloaded testing programs for different standards
- Built-in printer

Arrester Testing Device

WUHAN

Model : HTFC-2GB

- Voltage (U 1mA):
Range: (0~1999)V; Maximum error: $\leq 1\% \pm 1d$; Test Conditions: $1mA \pm 5\mu A$
- Leakage current (I 0.75U 1mA):
Range: (0.1~199.9) μA ; Maximum error: $\leq (2 \mu A + 1d)$; Test Conditions: $0.75 U 1mA, \leq 2\% \pm 1d$

Capacitance & Tan δ MeterWUHAN
KEP
RAYTECH**Model : HTRG-H**

- Capacitance measurement range: $0.1\mu F \sim 3300\mu F$
- Accuracy: \pm (reading $\times 1\% + 0.005\mu F$)
- Resolution: $0.001\mu F$
- Inductance measurement range: $100\mu H \sim 50H$
- Accuracy: \pm reading $\times 2\%$

High Voltage TestingDET
KEP
SONEL
WUHAN**Model : AID-70/50**

- Output voltage type: DC, AC
- Max output voltage (kV): 70VDC, 50VAC
- Max output current (mA): 14(DC), 45(AC)
- Output voltage measuring range (kV): 0.5-70 (VDC), 0.5-50 (VAC)

High-Voltage MeasuringDET
WUHAN**Model : RD-250**

- RD-250 provides a measurement of:
- RMS value of the AC voltage of 50 Hz.
- DC average value.
- RD-250 can be used to test high-voltage laboratories of electrical and energy profile, as well as scientific research, institutions

I - ELECTRICAL MEASURING INSTRUMENT

High-Voltage Step-Up Transformers



KEP

Model : TIOG-100 (17kVA)

Transformers test single-phase gas-filled TIOG-55 and TIOG-100 are intended for testing of the high-voltage electrotechnical equipment of class of voltage of 10 kV and 35 kV (above) to short-term variables (50 Hz) up to 55 kV and 100

Tan Delta Meter



DET

Model : IPI-10

IPI-10 is designed to measure the dielectric loss tangent $\tg\delta$ and the capacity of high voltage insulation C when maintaining, repairing, setting-up, testing various power facilities both

Phase Meter



FRANCELOG

Model : FPM03

Measure:

- Frequency of the 3 voltages
- +Display of the 3 frequencies (FU1, FU2 and FU3).

SF6 Gas Analyzer



WUHAN SMARTSENSOR

Model : HTZH-2H

- Measuring range: 0% ~ 100%
- Accuracy: $\pm 0.5\%$
- Measuring time: < 2min
- Dew point
- Measuring range: -80°C ~ +20°C
- Accuracy: $\pm 0.5^\circ\text{C}$ (- 80°C ~ 60°C)

1.3. Calibrators

Process Calibrator



POWERTEK
CHAUVIN ARNOUX
PRESYS
HIOKI
SEW
EXTECH
FLUKE
HUAXIN
IET LAB
KDS
KEYSIGHT

Model : MC142

Voltage range: 1mV to 200V
Current range: 100uA to 2A
Wave form:square positive, negative, symmetrical, saw A, B, triangle limited sin
Peak value accuracy:0.3% + 50uV
Displayed values:peak, calculated rms

Dry Block, Baths Calibrators



E INSTRUMENTS
FLUKE
EBRO
PRESYS

Model: TCS 1200

Range: from 150°C (300°F) to 1200°C (2190°F)
Absolute Stability: $\pm 0.2^\circ\text{C}$ @ 1100°C
Radial Uniformity: $\pm 0.2^\circ\text{C}$ @ 1100°C
Heating Speed: 100°C to 1100°C in 20 minutes
Cooling Speed: 1100°C to 800°C in 50 minutes
Stabilization Time: 15 minutes

Precision Pressure Test GaugeKDS
HUAXIN**Model: DPC100-20(0.02,SG)**

Accuracy: 0.02%, SG
 Pressure range : (0~600) bar
 Engineering unit selectable : Pa,kPa,M-Pa, psi, bar, mbar, mmH2O, mmHg
 Display: 6-digit resolution Back lighted display

Process CalibratorCHAUVIN ARNOUX
PRESYS
HIOKI
KEYSIGHT
SEW
EXTECH
FLUKE
HUAXIN
IET LAB
KDS**Model: C.A 1623**

- Range: 0.00 Ω - 400.00 Ω; 400.0 Ω - 1,500.0 Ω; 1,500.0 Ω - 3,200.0 Ω
- Accuracy 4-wire input/ 2-wire/3-wire input/ Output: ± 0.1 Ω ; ± 0.5Ω; ± 1Ω/ ± 2Ω
- Acceptable excitation in: 0.1 - 0.5 mA/ 0.5mA - 3.0mA ; 0.05mA - 0.8mA; 0.05mA - 0.8mA
- Pt10 385

Portable Pressure CalibratorPRESYS
FLUKE
KDS**Model: PCS-5070**

Accuracy of 0.025 % of full scale.
 Input range
 -Volt: -10 to 11V and 11to 45V
 +Resolution : 0.0001V
 +Accuracy: ± 0.02% FS
 -mA: -5 tới 24.5 mA

Comparison Test PumpsHUAXIN
KDS**Model: HS318**

Pressure Range: (0~600) bar
 Stability: Above 0.05%FS
 Working Media: Transformer oil

Sound CalibratorEXTECH
PULSAR
TENMARS
BK PRECISION
ACO
TESTO
LUTRON**Model: 407766**

Frequency: 1000 Hz / ± 5%
 Sound Pressure Level: 114dB / ± 1dB
 Distortion < 2% Total Harmonic Distortion (THD)
 Operating Temperature: 32 to 122° F (0 to 50° C)

I - ELECTRICAL MEASURING INSTRUMENT

Calibration Resistors



SEW
SONEL
AINUO
IET LAB

Model: RCB-3-1T(1T)

Resistance ranges (Ω): 1M, 10M, 100M,

1G, 5G, 10G, 100G, 500G

Resistance tolerances: $\pm 1\%$ (F)

Tolerance:

$\pm 25\text{ppm}/^\circ\text{C}$: 1M Ω , 2M Ω , 7M Ω , 10M Ω ,

20M Ω , 30M Ω , 50M Ω , 100M Ω , 200M Ω ,

500M Ω

Mechanical Calibration Equipment



METROLOGY

Model: CTB-91000

Center Distance: 1000mm

Center Height: 170mm

Accuracy: 0.008mm

Flow Calibration



BUCK
FLUKE

Model: M-30

Dimensions: 5.5L x 6W x 2.5D inches 14L x 15.3W x 6.4D cm

Flow range: 0.100 - 30 LPM

1.4. Electronic measuring devices

IC Programmer, Tester



GW INSTEK
BK PRECISION
LEAPTRONIX

Model: SU-3280

Logic Signal Level: 1.5V ~ 6.0V, 10mV

IOL, IOH Current: 10mA

Logic Signal Frequency: 75MHz (3-5V)

/ 60MHz (2.5V) / 45MHz (1.8V) / 25MHz (1.5V)

LCR Meter



GW INSTEK
PROTEK
SANWA
EXTECH
PINTEK
HIOKI
TENMARS
BK PRECISION
GLOBAL
KEYSIGHT
MICROTEST
CHROMA
PROKITS
TTI
IET LAB

Model : LCR-8110G

Wide Test Frequency 20Hz ~ 10/5/1MHz

0.1% Basic Accuracy & 6 Digits Measurement Resolution

Large LCD Display with Intuitive Interface

Full Measuring Functions with DUT V/I Monitor

PASS/FAIL Function (abs, % or delta) with Judgment Alarm

Frequency Counter

TEKTRONIX
PROTEK
GW INSTEK
BKPrecision
EZ DIGITAL
WUHAN
UNI
TTI

Model: FC-7150U

Frequency measuring range :
0.1Hz~100MHz in A,B input
80MHz~1.5GHz in C input(7150U only)
Trigger level adjustment for input A

Analog Oscilloscope

GW INSTEK
METRIX
PROTEK
BK PRECISION
EZ DIGITAL
PINTEK
UNI

Model: OS-5100

100MHz 2CH dual trace
6 inch large size high luminance CRT
Wider than specified frequency re-
sponse
Signal delay with delay line useful for
observation

Digital Oscilloscope

TEKTRONIX
METRIX
GW INSTEK
PROTEK
OWON
EZ DIGITAL
BK PRECISION
LECROY
SALUKI
KEYSIGHT
UNI

Model: TBS1052B-EDU

Analog channels: 2
Bandwidth: 50Mhz
Sample rate: 1 GS/s
Record length: 2.5k
Bandwidth limited: 20 MHz
Input coupling: AC, DC, GND
Input impedance: $1 M\Omega \pm 1\%$, $50 \Omega \pm 1\%$
Input sensitivity range: $1 M\Omega$

Handheld Oscilloscope

TEKTRONIX
METRIX
GW INSTEK
PROTEK
BK PRECISION
OWON
EXTECH
SIGLENT

Model: 2516

Bandwidth: 100 MHz
Real Time Sampling Rate: 1 GSa/s
(half-channel interleaved), 500 MSa/s
(per channel)
Channels: 2 isolated
Max Memory Depth: 40 kpts
Vertical Resolution: 8 bit

Logic Analyzers

LEAPTRONIX
LECROY

Model: LA-2050

Timing Analysis: 500MHz
State Analysis: 200MHz
Bandwidth: 200MHz

Function/Arbitrary Waveform Generators



TEKTRONIX
GW INSTEK
BK PRECISION
PROTEK
PINTEK
EZ DIGITAL
OWON
RIGOL
KEITHLEY
PICO
METRIX
SIGLENT
LECROY
GLOBAL
HIOKI
UNI
TTI

Model: 4034

CHANNELS: 2
Frequency: 0.1 Hz to 50 MHz
Period: 20 ns to 10 s
Width: 10 ns to (Period - 10 ns)
Delay: 0 ns to (Period - Width - 10 ns)
Duty Cycle: 1 to 99%
Output amplitude: -10 V to +10 V into 50 Ω load
Operating mode: Continuous, Triggered, Gated, Burst, External Width
Pulse function: Single, Double
Trigger input: Sensitivity 200 mVpp minimum

1.5. Telecom - TV Tester

RF Voltmeter



GW INSTEK
BOONTON

Model: 9241

2 Channel 1% accuracy at full scale
Voltage Range : 200 μV to 10 V in eight ranges, (300 V to 700 MHz with a 100:1 divider), Indications to 50 μV

Radio Stations Tester



KONTOUR

Model: RST-430

Band 1.6... 470 MHz
Carrier setting error < 10-6*
Deviation in FM mode 0.1 ... 20 kHz (step 10 Hz)
Deviation setting error < 10%

RF, Microwave Power Meter



CHAUVIN ARNOUX
PROTEK
BOONTON

Model: 4500B

8.4" TFT color LCD display
Displays up to 4 measurement channels, 2 memory channels and 1 math channel simultaneously

Measuring Low-Frequency Signals



KONTOUR

Model: SVG-5

Frequency range 300 Hz ... 2.5 MHz
Step 1 Hz, 10 Hz, 100 Hz, 1 kHz, 10 kHz
Relative frequency instability $\pm 1 \cdot 10^{-5} \%$
Frequency setting error $\pm 4 \cdot 10^{-5} \% \pm 1\text{Hz}$

Audio Analyzer

KEITHLEY
GW INSTEK
SEW
BOONTON**Model : 2015**

THD, THD+Noise, and SINAD measurements.
5 standard audio shaping filters.
20Hz-20kHz sine wave generator. 13
Digital Multimeter functions (6-1/2 digits).

Base Station Analyzers



ANRITSU

Model : MT8220T

2-port Cable and Antenna Analyzer
400 MHz to 6 GHz
Spectrum Analyzer 150 kHz to 7.1 GHz
Power Meter 10 MHz to 7.1 GHz

PIM Tester



BOONTON

Model: PIM21

Range: -80 to -153 dBc @ 850 MHz (typical -155 dBc)
Accuracy: $\pm 2 \text{ dB}$ to -153 dBc @ 850 MHz $\pm 3 \text{ dB}$ to -155 dBc @ 850 MHz
Pim Test: Single port reflection measurement
Test Frequencies: 2 custom frequencies*

Signal Analyzers



PROTEK

Model : A434L

VSWR, DTF, Cable Loss, Power Meter Functions
Frequency Range : 5MHz ~ 4GHz

Cable Telecom Test

SEW
EXTECH
BK PRECISION
TENMARS
HIOKI
PROKITS**Model: LC-90**

LCD display.
Test pin configuration for 10/100 base-T cable, 10 base-2 cable, RJ45/RJ11 modular cables, AT and T 258 A cable, EIA/TIA 568A/568B cables and Token Ring Cables etc.

1.6. Fitting And Repair Electronics Equipment

DC Power Supply Adjustable ≤ 1KW



TEKTRONIX
KEITHLEY
GW INSTEK
METRIX
EXTECH
EZ DIGITAL
BK PRECISION
QJE
PINTEK
OWON
TTI
ODA
AINUO
ITECH

Model: ODP3031

Max output resolution : 1mV / 1mA
Low ripples / low noise : 300 ≤Vrms / 2 mVpp
Up to 100 group timers
Up to 10 group preset system configurations
Over-voltage / Over-current protection
Auto-cooling system
3.9 inch high resolution (480 x 320 pixels) TFT LCD display
Multiple communication interface : USB, and RS232

AC Power Supply



GW INSTEK
PRODIGIT
EXTECH
BK PRECISION
UNI
CHROMA
AINUO
ITECH

Model: 5200A

AC Voltage Measurement:
Range: 300Vrms
Accuracy: ± 0.3% of rdg. ± 0.2% of f.s.
Resolution: 0.1Vrms
AC Current Measurement:
Range /Resolution: 0.2A/0,1mA, 2A/0,1mA,
20A/10mA

DC Electronics Load



KEITHLEY
GW INSTEK
BK PRECISION
PRODIGIT
PINTEK
MAYNUO
TTI
ODA
AINUO
ITECH

Model: 3311F

Max Power: 300W
Current Max: 60A
Operating voltage: 60V
Display: V, A, W

Soldering Stations



WELLER
PACE
QJE
ATTEN
HAKKO
QUICK
GORDAK
YAOGONG
KAWH

Model: WSD811

Soldering station, 1 channel, 80 W / 230 V
Silver-Line Technology
1 channel with soldering iron WSP 80 incl. soldering tip LT-B and safety rest WDH 10
Dimensions W x D x H (mm): 170 x 118 x 102
Channels: 1
Voltage: 230 V
Heating output: 95 W

Conductive Rework Systems



WELLER
PACE
XYTRONIC

Model: PRC2000

Unit: PRC 2000 PRC 2000E
Power Requirements: 115VAC, 60Hz, 230VAC, 50/60Hz, 400 Watts maximum
365 Watts maximum

Pre-Heaters



PACE
MANNCORP
SHUTTLESTAR

Model: MC-301

Effective Soldering Area: 9.84" x 7.87" (250 x 200 mm)
Heating Chamber Size: 13.78" x 9.84" (350 x 250 mm)
Temperature Range: Ambient - 310 °C

Area Array (BGA) Rework



WELLER
PACE
MANNCORP
ZHUOMAO
SHUTTLESTAR

Model: IR 3000

Heater (top side): Medium/Long Wave IR, 500W
Bottom Heater with adjustable working height Medium/Long Wave IR, 1000W 220 x 155mm (8.6" x 8.6")

Fume Extraction Systems



WELLER
PACE

Model: ARM-EVAC 500

Part Number: 8889-0500-P1
Power Requirements: 230 VAC, 50 Hz
Noise Level: 61 dBA
Number of Inlets: Three 75mm (3")

II - MECHANICAL AND INDUSTRIAL EQUIPMENT



- Mechanical Measuring Instruments
- Non-Destructive Testing
- Bearing tools
- Hydraulics, Lifting equipment

2.1. Mechanical Measuring Instruments

Digital outside micrometer



INSIZE
MITUTOYO
LUTRON
METROLOGY
MOORE & WRIGHT

Model: 3109 - 25A

Take detailed measurements of external diameter, thickness of sheet metal
Design standard, compact, easy to use
Range: 0 - 25mm

Digital inside micrometer



INSIZE
MITUTOYO
METROLOGY

Model: 3127 - 150

Range: 125-150mm
Resolution: 0.001mm/0.00005"
Accuracy: $\pm 5 \mu\text{m}$
Protection level: IP 54

Digital Caliper



INSIZE
MITUTOYO
LUTRON
MOORE & WRIGHT
METROLOGY
ASAKI

Model: 500 - 502 - 10

Range: 0 - 1000mm
Accuracy: $\pm 0.07\text{mm}$
Resolution: 0.01mm

Digital depth Caliper



INSIZE
MITUTOYO
MOORE & WRIGHT
METROLOGY

Model: 571 - 214 - 10

Range: 0 - 450mm
Graduation: 0.01mm
Accuracy: $\pm 0.002\text{ in}$
Extension rods: 4 rods

Digital height gauge



INSIZE
MITUTOYO
MOORE & WRIGHT
METROLOGY

Model: 1150 - 300

Range: 0 - 300mm / 0 - 12"
Resolution: 0.01mm / 0.0005"
Accuracy: $\pm 0.04\text{mm}$

Protractor



METROLOGY
INSIZE
MITUTOYO
MOORE & WRIGHT
ASAKI

Model: 187 - 907

Capacity gauge to measure the angle
Mitutoyo machinery, molds, ... always
the most accurate measurements
Can be used when measuring the
height of fixed size
Length of leaf size: 150, 150 mm

Bore Gages



INSIZE
MITUTOYO
MOORE & WRIGHT
METROLOGY

Model: 2322 - 250A

Ranger: 160-250mm
Graduation: 0.01mm
Accuracy: $\pm 0.018\text{mm}$
Indicator

Thickness Gages



PROCEQ
DEFELSKO
SAUTER
INSIZE
MITUTOYO
EXTECH
ELCOMETER
HUATEC
SMARTSENSOR
NOVOTEST
DAKOTA

Model: 7301

Range : 0 - 10mm
Resolution : 0.01mm
Accuracy : $\pm 15 \mu\text{m}$

Replica Tape Reader



PROCEQ
DEFELSKO
SAUTER
HUATEC
INSIZE
MITUTOYO
EXTECH
ELCOMETER
SMARTSENSOR
NOVOTEST
DAKOTA

Model: UTG C1

- Measurement Range: 1.00 to 125.00 mm (0.040" to 5.000")
- Thru-Paint Capability: no
- Measurement Rate - Normal: 6 readings/sec
- Measurement Rate - Normal: 20 readings/sec
- Resolution: 0.01 mm (0.001")
- Accuracy: $\pm 0.03 \text{ mm} (\pm 0.001")$
- Monochrome display with transreflective technology enhances sunlight readability

Dial Indicators



INSIZE
MITUTOYO
HOREX
MOORE & WRIGHT

Model: 513 - 415E

Range : 0-1mm
Resolution : 0.01mm
Accuracy : +/- 0.01mm

Magnetic-Micrometer Stand



INSIZE
MITUTOYO
METROLOGY
MOORE & WRIGHT

Model: 7011S - 10

Stem hole : ø4mm, ø8mm, ø9.53mm
Size of magnetic stands (WxD) :
50x58mm

Granite Surface Plate

INSIZE
MITUTOYO
METROLOGY

Model: 6900 - 1101

Size (LxWxH): 1000x1000x150mm
Weight : 450 Kg
Accuracy : 0.0048mm

Gauge Block

INSIZE
MITUTOYO
MOORE & WRIGHT

Model: 4100 - 122

Includes 122 blocks
- Made of alloy: steel
- Accuracy: grade 0 standard
- Meet ISO3650
- Supplied with inspection certificate

Steel Ruler

INSIZE
MITUTOYO
CROSSMAN
ASAHI
TOPTUL

Model: 7110 - 1000

Range: 0-1000mm
Accuracy: 0.20mm

Distance Meters

LEICA
BOSCH
INSIZE
EXTECH
FLUKE
SMARTSENSOR
M&MPRO
PREXISO
STANLEY

Model: D2 - DISTO

This unit contains a Class II Laser with 1mW output
1/16" Accuracy up to 200-Feet Measuring Range. Quick and easy-measure distances at the touch of a button and calculate areas or volumes. Small and handy; fits into any pocket plus a 2 Year Warranty.
IP54 Certified Dust & SPLASH PROTECTED.

Diameter Measurement Caliper

HAGLOF

Model: 11 - 100 - 1106

Ranger: 0-1020mm
Material Scale: Alloy coated aluminum, non-reflective

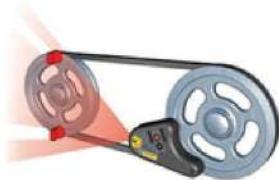
Shims

BEGA

Model: 100 - 100CW

Model: 100-100 CW
No: B100070
Size: 100X100X1.00mm
Size in: 32 mm

Laser Pulley, Shaft Alignment Systems



EASYLASER
FIXTURLASER
VIBRO-LASER

Model : BEGAD90

Sheave diameters: B 60 mm (2.5") and larger
Sheave thickness: Not depending on sheave thickness

Vibration - Acceleration - Balancing



MMF
BEGA
ADASH
HUATEC
TOKYO-KEIKI
EXTECH
SMARTSENSOR
LUTRON
BRUEL & KJER
M&MPRO
ZBL
ACO
SPM

Model : HG6360

Acceleration 10Hz đến 1KHz, 10Hz to 10KHz: 0.1-200m/s
Velocity 10Hz to 1KHz: 0.1-400mm/s
Displacement 10Hz to 1KHz: 0.001-4.0mm
Accuracy: <5%
Auto power off
RPM (revolution): 5-100000r/min
Frequency: 0.1 to 10KHz

Torque Meter



INSIZE
SAUTER
LUTRON
MOUNTZ

Model: TQ - 8800

Professionals with torque meter
15 Kg-cm torque probe, whole.
3 kind display unit: Kg-cm,
Kg-cm, cm LB-inch and Newton.

Gloss Meter, Roughness Meter



DEFELSKO
INSIZE
HUATEC
MITUTOYO
ELCOMETER
HINOTEK

Model: SPG3 - E

Hi Contrast reversible color LCD
Measuring Range: 0 to 500 um (0 - 20 mils)
Accuracy: (5 microns + 5%) , (0.2 mils + 5%)
Storage of 100,000 readings in up to 1,000 batches and sub-batches

Force Gauges Meter



DILLON
SAUTER
KERN
INSIZE
EXTECH
LUTRON
ELCOMETER

Model: FH 100K

Measuring range max: 100kN (10 ton)
Readout: 50 N
Precision: 0,5 % of (Max)
Measuring frequency: 2000 Hz
Overload protection: 150 % of (Max)
Selectable measuring units: N, lb, kg, kN, t
Turnable display with backlight

Force Gauges Meter



DILLON
SAUTER
KERN
INSIZE
EXTECH
LUTRON
ELCOMETER

Model: Quick-check

-Tension capacities: 10000 lb/45 kN/4500 kg
-Wire sizes: 3/16inch through 1 inch
-Accuracy: +3% instrument capacity (calibrated to specific wire size & type +5% with same wire diameter as calibrated but different wire type)

Indicating Torque Wrench



INSIZE
KTC
TOPTUL
KANON
MOUNTZ

Model: TB306WG3

Range Resources: 6-30 Nm
Lever-type ratchet (L) : 3/8 Inch

Gloss Meter, Roughness Meter



DEFELSKO
INSIZE
HUATEC
MITUTOYO
ELCOMETER
HINOTEK

Model: ISR - CS130 - W

Flat lapping: 0.05, 0.1 , 0.2 µm
Reaming: 0.4, 0.8, 1.6 µm
Plain grinding: 0.05, 0.1, 0.2, 0.4, 0.8, 1.6 µm
Horizontal milling: 0.4, 0.8, 1.6, 3.2, 6.3, 12.5 µm

2.2. Non-Destructive Testing

Video Borescope



EXTECH
FLIR
CEM
THREE-IN-ONE

Model: HDV650W - 30G

- 25mm camera head (60° FOV, long depth of field) with built-in bright 12 LEDs for illuminating the problem areas
- Wireless handset/transmitter with brightness and

Ultrasonic Flaw Detector



PROCEQ
HUATEC
ELCOMETER
NOVOTEST
DAKOTA
ULTRASONICS

Model: Proceq 100 (has UT/TOFD)

Configuration: 2 UT Channels
Transducer Socket: Lemo 1 and BNC
Pulse Voltage: -100 to -450 V (in steps of 10 V)

X ray-Machine



HUATEC

Model: XXH - 3205

Output voltage (Kv): 180 - 320
Input (KW): 3.2
Focus spot (mm): 1.0 x 4.0
Level target: 25° + 5°

Thickness Gages



PROCEQ
DEFELSKO
SAUTER
HUATEC
EXTECH
INSIZE
MITUTOYO
ELCOMETER
SMARTSENSOR
NOVOTEST
DAKOTA

Model: UTG M3

- Probe Style: 5 MHz Contact
- Mode: Single Echo
Measurement Range: 1.00 to 125.00 mm (0.040" to 5.000")
- Mode: Multiple Echo
Measurement Range: 2.50 to 60.00 mm (0.100" to 2.500")
- Thru-Paint Capability: yes
- Measurement Rate - Normal: 4 readings/sec

Hardness Meter



PROCEQ
SAUTER
INSIZE
HUATEC
MITUTOYO
METROLOGY
SMARTSENSOR
NOVOTEST

Model: ISH - SPHA

- Steel & cast steel : 20-68(HRC), 38-100(HRB), 81-654(HB), 81-955(HV), 32-100(HS), 375-2639(Mpa)
- Cast iron : 93-334(HB)

Hardness meter



PROCEQ
SAUTER
INSIZE
HUATEC
MITUTOYO
METROLOGY
SMARTSENSOR
NOVOTEST

Model: HR1500

Load cycle: 3 ~ 8s
Load dwell duration: 2 ~ 50s, can be set
Resolution: 0.1HR
Display: High definition backlight LCD
Operation: Menu selectable, Membrane keypad

Concrete Test Hammer



PROCEQ
HUATEC
ELCOMETER
SJJW

Model: HTH - 225 V

Measuring ranges: 10-60MPa
Impact energy: 2.207J
Spring constant: 785N/m
Spring extension: 75mm

OpticScan 3D Scanners



SHINING 3D

Model: OpticScan - DL - Classic

Measuring Area by single Scan:
400mm x 300mm(adjustable)
Accuracy: 0.04mm - 0.02mm

Eddy Current Conductivity Meter



HUATEC

Model: HEC102

Measurement technology: Eddy current
Operating frequency: 60KHz
Instrument case: Anti-intense impact,
water-proofing polyester

CNC Measuring System



METROLOGY

Model: IMI-AF250

Measuring Range(XYZ):
250*150*150mm
Resolution: 0.001mm/0.00005"
Measuring Accuracy : $\pm (2+L/200) \mu\text{m}$
(X, Y Axis)
Main structure: DIN 00 grade granite
table master base & Z axis T type granite
column

Profile Projector



HUATEC
INSIZE
METROLOGY

Model: HB - 16

Sturdy metal design with the novel shape
Excellent optical path with the sharp image
Large X, Y measuring travel stage with the precision accuracy $(3 + L/50) \mu\text{m}$
Digital Multifunctional digital readout DC5000 with the strong process function
Touch panel switch protects the operator's safe
Screen diameter: $\varnothing 400 \text{ mm (16'')}$

Microscope



KERN
INSIZE

Model: ISM - PM200SB

Magnification: 10X - 200X
Pixel: 2M (1600 x 1200)
Type: short focus distance
Illumination: built-in adjustable LED
Focus support: included
Power supply : USB 2.0 cable (voltage required: $5 \pm 0.1\text{V}$)

Handheld X-ray Fluorescence Spectrometer



HUATEC

Model: XRF Pocket 110

Wide range of measurable elements:
Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Zr, Nb, Mo, Sn, Hf, Ta, W, Re, Pb, Bi, Se, Sb, Pb, Au and Hg
Working principle: XRF analysis exploiting X-ray

Coating Thickness Meter



DEFELSKO
SAUTER
INSIZE
EXTECH
ELCOMETER
SANKO
HUATEC
SMARTSENSOR

Model: 6000 FNS3

Non-Conductive coatings on Non-Ferrous Metals Aluminum, Copper etc.
Non-Magnetic coatings on Ferrous-Metals (Steel & Iron)
- Range: $0 - 1500 \mu\text{m (0 - 60 mils)}$

Adhesion Tester



DEFELSKO
SAUTER
INSIZE
EXTECH
HUATEC
SMARTSENSOR
ELCOMETER
SANKO

Model: ATA20A-B

Adhe-sion	Dolly size	Max Pull-Off Pressure	
	10 mm (option)	10000 psi	70 MPa
	14 mm (option)	6000 psi	40 MPa
	20 mm* (include)	3000 psi	20 MPa
	50 mm** (option)	500 psi	3.5 MPa

Gold and Diamonds Tester



SAUTER

Model: TD GOLD 40

Measuring head diameter: 6 mm
Measuring range (Max): 22,500 cm (steel), 4cm (gold)

Precision (of Max): 0,005
Readout (d): 10 μm

Test frequency: 5 MHz

You can use the TD-GOLD to determine whether gold bars and coins are genuine or whether they contain a core of a different material

The instrument measures the thickness of gold bars and gold coins using ultrasound

Cover Meter & Rebar Detector



PROCEQ
ELCOMETER
SJJW
NOVOTEST
ZBL

Model: Profometer PM-630

+ Cover Measuring Range: Up to 185 mm (7.3 inch)

+ Cover Measuring Accuracy: $\pm 1 \text{ mm}$ to $\pm 4 \text{ mm}$ (0.04 to 0.16 inch)

Permeability Test



PROCEQ

Model: Torrent

Memory: non-volatile memory for 200 measured objects

Display: 128 x 128 graphic LCD

Interface: RS 232 or optional adapter to USB

Ultrasonic Pulse Velocity



PROCEQ
NOVOTEST
ZBL

Model : 5100

Acoustic transit time accuracy: 0.025 μs

Dynamic range: 154dB

Receiver sensitivity: $\leq 10 \mu\text{V}$

Emission voltage (V): 65, 250, 500, 1000 V adjustable

Rebar Corrosion Detection



PROCEQ
ZBL
HUATEC
SJJW

Model: ZBL - C310A

Measuring range $\pm 1000\text{mV}$
Accuracy 0.1mV
Single electrode:
Tested points Interval X: 0 ~ 100 adjustable
Tested points Interval Y: 0 ~ 100 adjustable
Double electrode:
Tested points Interval X: 20 fixed

Floor Clab Thickness Meter



SJJW

Model: CH800 - A

Thickness test range (mm) : 40 - 600
Thickness test accuracy 40 - 400(mm) :
 $\leq \pm 1\text{mm}$
Thickness test accuracy 401 - 600 (mm) :
 $\leq \pm 2\text{mm}$
Data storage capacity : 40000 test point data

Pull Off Tester For Concrete



PROCEQ

Model: DY - 206

Dimensions of housing: 109 x 240 x 205.5 mm
Operating temperature: -10 to 50°C (14 to 122° F)
Storage temperature: -10 to 70°C (14 to 158°F)
Display: in N/mm² based on dia. 50 mm test disc

Steel Structure Analyzer



NOVOTEST

Model: KRC - M2

- + Measurement of coercive force
- + Current measurement
- + Code measurement (units)
- + Additional scale for calibration

Temperature & Humidity Test Chamber



SH SCIENTIFIC
JEIOTECH
MEMMERT
KOMEG

Model : SH - CTH40TSC

Time Range: -15°C ~ 150°C
Humi Range: 30%~99% at Temp 20°C ~ 80°C
30%~95% at Temp 20°C ~ 85°C
25% at over 85°C

3.3. Bearing tools

Bearing Heaters



BEGA

Model: 24RSDi

Device indicated for heating bearing, gear...
 Power: 3.6 KVA
 Voltage: 230V
 Frequency: 50/60 Hz
 Max. temperature 240 °C

Pullers


 BEGA
 CROSSMAN
 ASAHI
 TOPTUL

Model: HXPM 100 t

Capacity in tons: 100
 Max. stroke in mm: 270 with 4 adapters
 extensions 900 mm
 Max. spread in mm: 1500
 Min. spread in mm: 200
 Max. shaft length in mm: 1215

Hydraulic Pullers


 BEGA
 CROSSMAN
 ASAHI
 TOPTUL

Model: HSP 303

Capacity: 30 ton
 Shaft lenght Max: 465mm
 Spread Max: 680 mm
 Stroke: 111 mm

Toolset Impact 39



BEGA

Model: IMPACT 39

This fitting tool set has been specially designed for quick, accurate and safe mounting of bearings with a bore varying from 10 to 60 mm.

5.4. Hydraulics, Lifting Equipment

Hydraulic Cilinders



BEGA

Model: JLLC400112

Capacity (ton): 400
Max. working pressure bar: 700 Bar
Stroke mm: 300
Height Retr. mm: 585
Height Ext mm: 885

Bottle Jack



BEGA
MASADA

Model: MH - 100Y

Capacity: 100 ton
Min Height: 305 mm
Lift: 145 mm

Hydraulics Pumps



BEGA

Model: HC2000 SET

Materials: Steel
Pressure rating (bar): 700
Usable oil capacity cm³: 2000

Hydraulic Spreader, Lifting



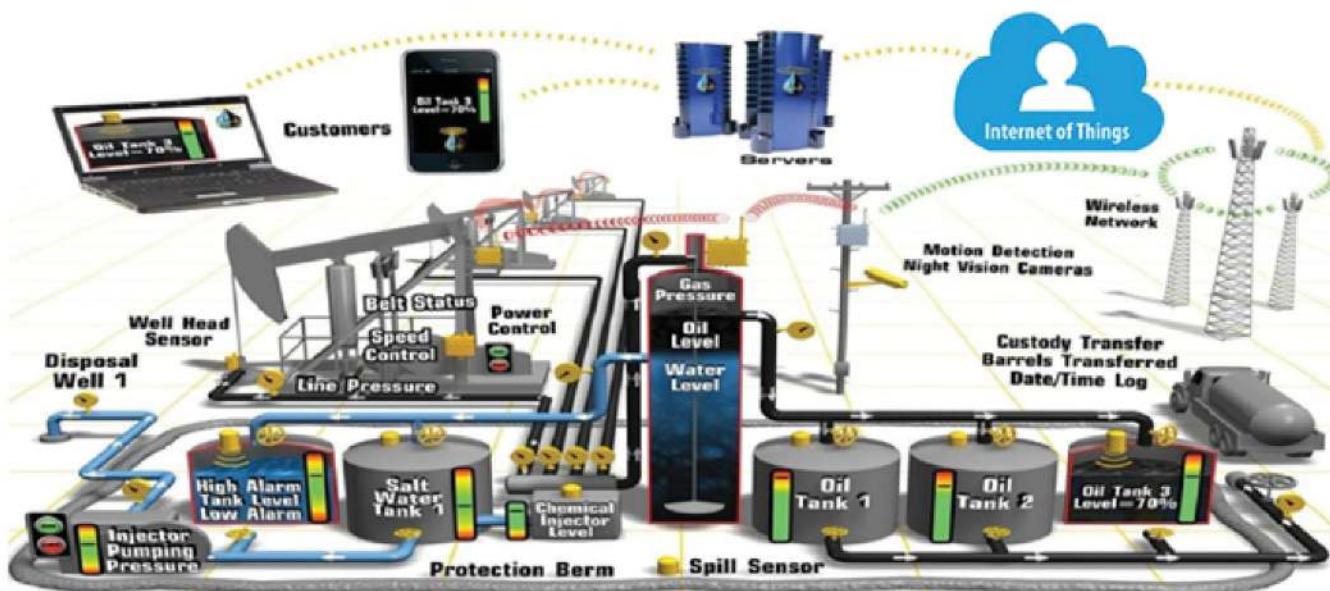
BEGA

Model: 25 TLS SET

Capacity (ton): 25
Max. spread mm: 16
Min. spread mm: 5
Max. pressure bar: 700



IoT cloud



PLC S7-300



SIEMENS

Model: 6ES7314-6CH04-0AB0
SIMATIC S7-300, CPU 314C-2 DP
COMPACT CPU WITH MPI,
24 DI/16 DO, 4AI, 2AO, 1 PT100,
4 FAST COUNTERS (60 KHZ),
INTEGRATED DP INTERFACE,
INTEGRATED 24V DC POWER SUPPLY,
192 KBYTE WORKING MEMORY,
FRONT CONNECTOR (2 X 40PIN) AND
MICRO MEMORY CARD REQUIRED

HMI S7-200/300/400



SIEMENS

Model: 6AV6644-0AA01-2AX0
SIMATIC MP 377 12" TOUCH
MULTIPANEL, WINDOWS CE 5.0
12" COLOR-TFT-DISPLAY
12 MB USER MEMORY
CONFIGURABLE FROM
WINCC FLEXIBLE 2007

Inverter Siemens



SIEMENS

Model: 6SE6440-2UD42-0GA1
Inverter power: 200 KW.
Power supply: 3 phase 380-480V, 45-63Hz.
The frequency range: 0.1 - 650 Hz.
6 programmable digital inputs.
2 analog inputs.
2 analog outputs: 12:25 - 20mA.
Dimensions H x W x D: 1533 x 326 x 545.
Output relay: 3.
Method of control: V / f; Vector, Moment;
control information flow from the FCC.
Overload capability: 136% 57S, 160% 3s.

Soft starter Siemens



SIEMENS

Model: 3RW4076-6BB44
SIRIUS SOFT STARTER, S12,
432 A, 250 KW/400 V, 40 DEG.,
200-460 V AC, 230 V AC,
SCREW TERMINALS

MCCB 3 phase

LS

Model: ABS1203b1200A

Number of poles: 3
Rated current: 1200A
Short circuit current: 65kA

ContactorLS
SIEMENS**Model: MC-800a**

Number of poles: 3
Rated current: 800A
Coil voltage: 220VAC
Auxiliary example: 2NO + 2NC

Thermal Overload RelaysLS
SCHNEIDER

Model: MT-800 (520-800A)

Number of poles: 3
Current: 520 - 800A
Voltage input: 380V

Capacitors

SHIZUKI

Model: 50KVAR/415V

Size: 50KVAR
Voltage capacitor: 415v/3P-50Hz



EMIN at Agroviet 2013



EMIN Draminski the workshop from South to North



EMIN at Techmart 2013



EMIN at Agroviet 2014



EMIN at Expo 2014



EMIN at VIIF 2014



EMIN at E&A HaNoi 2015



EMIN at NEPCON Vietnam 2015



EMIN at E&A HCMC 2015



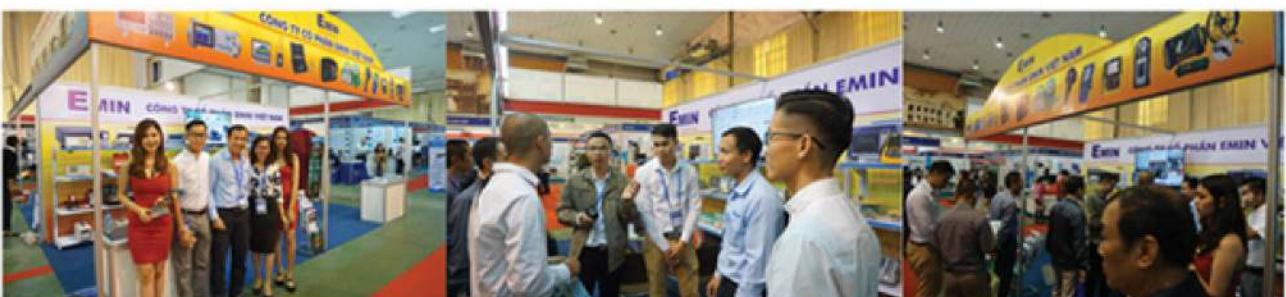
EMIN at Techmart Hanoi 2016



Global Technology supply and demand Connection point



EMIN at NEPCON 2017



EMIN in Vietnam International Industrial Fair (VIIF) 2017



EMIN at VINAMAC EXPO 2017



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