



NDT PRODUCTS CATALOGUE



Non Destructive Testing Products Catalogue

- Darkroom Safelight

X-RAY CRAWLER

- IRIS 6 X-Ray crawler
- IRIS 6 Gamma-Ray crawler
- IRIS 10 X-Ray crawler
- IRIS 10 Gamma-Ray crawler
- IRIS 10XS X-Ray and Gamma-Ray Crawler

X-RAY RADIOGRAPHY

- CPbattery Portable X-Rays Generators
- SITEX CPseries Directional Units /POWERBOX
- SITEX CP160D, CP200D, CP225D, CP300D, CP200DS, CP300DS
- SITEX CPseries Panoramic Units / RCU
- SITEX CP160CR, CP300CR
- SITEX CPseries Panoramic Units /POWERBOX
- SITEX CP300C
- SITEX & XS Directional Units and Panoramic Units
- SITEX & XS Panoramic for crawler
- GO-SCAN C-VIEW
- GO-SCAN 15 10 HR

GAMMA RADIOGRAPHY

- 1075 SCARPro source projector
- 880 Series Source Projector
- Handle Grip Control Assemblies
- Source Guide Tubes
- Collimators
- Automatic Exposure Control Unit
- Pipeliner
- Emergency Container EC3
- Radioactive Isotopes
- OpenVision™ OVCF-NDT

FILM PROCESSORS

- INDX 900
- INDX 43 2.0b
- INDX 43/3MW - INDX 43/5MW
- INDX 37M NDT "Mobile"
- INDX 37 NDT Dryer

INDUSTREX Films Solutions for NDT

- Industrex X-ray films
- Industrex Chemicals
- Eco-Friendly Chemicals

INDUSTREX DIGITAL SYSTEM

- Industrex HPX-1
- Industrex HPX-PRO

X-Ray Film Scanners and Digitizers

- MII-900 Plus
- Microtek NDT-2000
- MII-800XL Plus

MANUAL FILM PROCESSING UNIT

- PROCESSING TANKS
- X-RAY FILM DRYER

FILM PROCESSING ACCESSORIES

- Films Hangers
- Steel Spirals

X-RAY FILM VIEWER

- FV-2010T PLUS LED
- Spot viewer LED
- Portable LED Films Viewers
- KOWOLUX M Series

DENSITOMETER

- KOWODENS TD Densitometer
- Digit-X Densitometer
- TD 200 Densitometer
- DT-200 Densitometer

RADIOGRAPHIC ACCESSORIES

- Lead Markers
- Lead Markers Box
- Image Quality Indicators (IQI)
- Flexible Cassettes
- Lead Screens
- Rigid Cassettes
- PhotoMarker for Darkroom

RADIATION SAFETY

- Radiation Warning Signs
- Isotope handling tongs
- TRACERCOTM T402 and T402HR
- Direct-Reading Dosimeter
- Dosimeter Charger
- Personal Dosimeter RAD-60R
- Dose Rate Meter 6150 AD5/6
- Dose Rate Meter X5C plus FW
- Dose Rate Meter RDS-30
- Personal Dosimeter DMC 3000
- Dose Rate Alarm Lamp GWL 10m
- Rad Alert

MOBILE DARKROOM

STATIONARY DARKROOM

WELD MEASURING GAUGES

NDT Demonstration Kit

- Standard RT Kit
- Standard UT Kit

VACUUM DEVICES FOR LEAK TESTING

- vacuum boxes

MAGNETIC PARTICLE INSPECTION & PENETRANT TESTING

PENETRANT TESTING INSPECTION

- Fluxo consumables

MAGNETIC PARTICLE INSPECTION

- Fluxo consumables
- Magnaflux Y2, Y6, Y7
- PM-6 Permanent Magnet

ULTRASONIC FLAW DETECTOR

- ECHOGRAPH 1095
- A-Scan ECHOMETER 1077
- EPOCH 600
- EPOCH 650
- OmniScan MX2
- Ultrasonic Transducers, Test Blocks



ULTRASONIC THICKNESS GAGES

- 27MG
- 38DL PLUS
- 45MG
- UT5000 Thickness Gauge ATEX
- Multigauge 5500

EMAT THICKNESS GAGES

- Portable EMAT thickness gauge

REBOUND HARDNESS TEST

- Equotip 550 Leeb

METAL HARDNESS TESTER

- Equotip Bambino 2

METAL HARDNESS TESTER

- Equotip Piccolo 2
- Leeb Hardness Tester HM-6561

XRF Spectrometers

- Spectroxsort

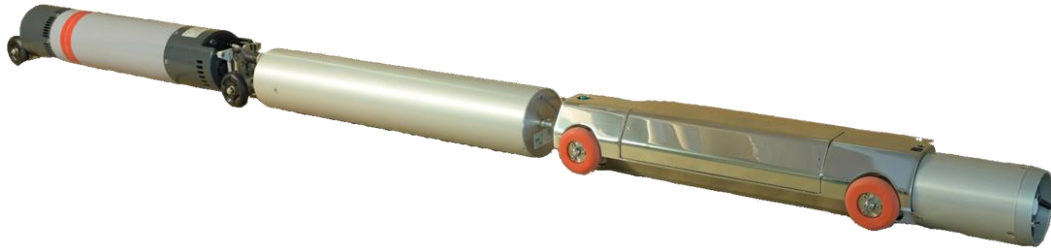
LIFTING EQUIPMENT

- The Handifor
- The dynafor LLX1
- The Dynafor LLZ
- Yale Tigrip Crane Weigher TZR
- Hydraulic Adhesion Tester



PIPELINE CRAWLER IRIS 6

IRIS 6 X-Ray Crawler for onshore / offshore pipes diameter ranging from 6" to 18" N.D.



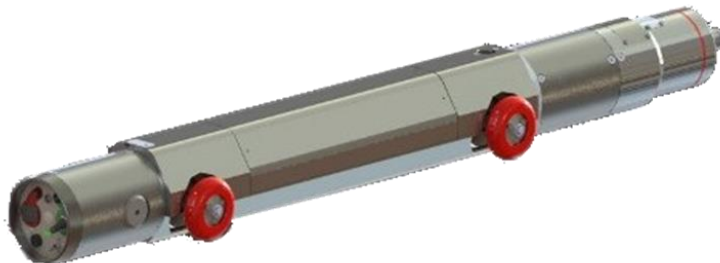
Pipeline diameter range	:	6" to 18"
Length without the X-ray head	:	2140 mm
Speed moving	:	13m/mn
Accepted climbing	:	30% - 16,6°
Maximum bend	:	10d
Operating temperature	:	40° to +80°C
Motor propulsion	:	2
Propulsion battery power/ capacity	:	Lithium Ion Battery 24V / 7.5Ah
X-ray battery power/ capacity	:	Lithium Ion Battery 48V / 12.5Ah
Propulsion wheels	:	Clinging rubber
X-ray wheels	:	Orthogonal
Distance autonomy (propulsion)	:	4km
Exposure autonomy (X-ray)	:	120 mn
Positioning accuracy	:	+/- 5 mm
Adjustable exposure	:	0 à 999 s
Safety exposure delay	:	10s
Pilot Command Caesium 137	:	740MBq 20mCi
Pilot Command magnetic	:	Magnetic System

Panoramic X-Ray Generator	C1802	:	CP160CR
Output rating Kv	:	180	CP160CR
Tube current mA	:	2	2
Focal spot size mm	:	4 x 0.5	4 x 0.5mm
Dimensions mm	:	124 x 580	120 x 688
Weight	:	9.5kg	9.9kg

Product code 13.01.00

PIPELINE CRAWLER IRIS 6

IRIS 6 Gamma-Ray Crawler for onshore / offshore pipes diameter ranging from 6" to 18" N.D.



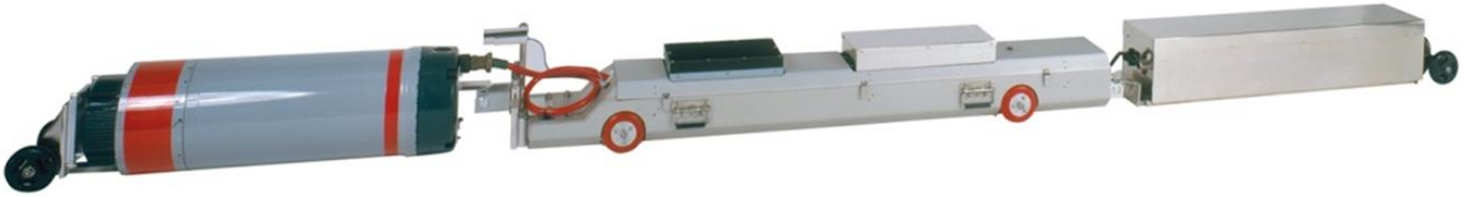
Pipeline diameter range	:	6 to 18"
Gamma-ray projector	:	
Brand	:	IPSI
Model	:	G610
Class	:	A
Capacity	:	740 GBq 20Ci

Product code 13.01.01



PIPELINE CRAWLER IRIS 10

IRIS 10 X-Ray Crawler for onshore / offshore pipes diameter ranging from 12" to 60" N.D.



Pipeline diameter range	:	12" to 60"
Length without the X-ray head	:	700 mm
Speed moving	:	13m/mn
Accepted climbing	:	40% - 22,2°
Maximum bend	:	10d
Operating temperature	:	40° to +80°C
Motor propulsion	:	2
Propulsion battery power/ capacity	:	24V / 44 Ah
X-ray battery power/ capacity	:	120V / 22 Ah
Propulsion wheels	:	clinging rubber
X-ray wheels	:	Orthogonal
Distance autonomy (propulsion)	:	4km
Exposure autonomy (X-ray)	:	120mn According X-ray generator
Positioning accuracy	:	+/- 5 mm
Adjustable exposure	:	0 à 999 s
Safety exposure delay	:	10s
Pilot Command Caesium 137	:	740MBq 20mCi
Pilot Command magnetic	:	Magnetic System

Panoramic X-Ray Generator	:	ICM SITEX
Output rating kV	:	180 200 225 250 300 320
Tube current mA	:	2 4 4 4 3 3
Focal spot size	:	5 x 0.8 mm
Working ambient temperature	:	-25°C to 70°C
Dimensions	:	248 x 757 mm
Weight	:	from 25 to 27kg

Product code 13.02.00

PIPELINE CRAWLER IRIS 10

IRIS 10 Gamma-Ray Crawler for onshore / offshore pipes diameter ranging from 16" to 60" N.D.



Pipeline diameter range	:	12" to 60" According the Gamma-ray projector
Length without the X-ray head	:	1700 mm

ALL TYPE OF Ir192 AND Se75

Gamma-ray projector		
Brand	QSA Global	GAMMA-RAY PROJECTOR
Model	880 SENTINEL	ALL TYPE
Class	B (U)	B (U)
Capacity	3.7 TBq 100Ci	3.7 TBq 100Ci

Product code 13.02.01

PIPELINE CRAWLER IRIS 10XS

IRIS 10XS X-Ray and Gamma-Ray Crawler for onshore / offshore pipes diameter ranging from 16" to 30" N.D.

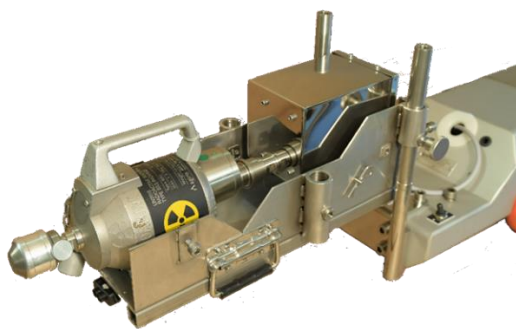
IRIS 10XS Pipeline Crawler are designed to produce panoramic radiographs of circumferential butt welds in pipelines from 16 inches to 30 inches.



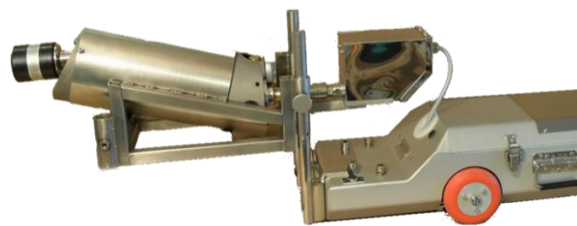
Min. nominal pipe diameter	:	16"
Max. nominal pipe diameter	:	30"
Travelling speed	:	13 metres/minute
Movement	:	Forward and reverse motion
Allowable slope	:	40% - 22.2 °
Sealed lead battery	:	48 V 22 Ah
Autonomy (on flat ground)	:	1 500 metres
X-Ray Autonomy	:	1 hours
Allowable temperature	:	- 40°C to + 80°C
Exposure time	:	from 0 to 999 seconds
X-Ray Autonomy	:	1 hours
Safety delay	:	12 s
Propulsion Motor	:	2 Unit
Pilot Command	:	20 mCi Cs 137
Pilot Command	:	Magnetic System
X-Ray Generator	:	SITE-X CP160CR
Gamma-ray projector	:	All Type of Ir192 or Se75

The safety ejection motor can be adapted to all Gamma-Ray projector

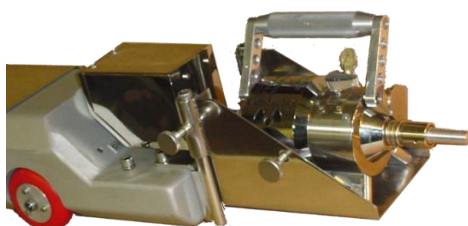
Product code 13.03.00



IRIS10 WITH GAMMATAT



IRIS10 WITH SENTINEL 880



IRIS10 WITH NUCLEAR SU100



IRIS6 WITH IPSI G610

PORTABLE X-RAY GENERATOR

CPbattery

Constant potential ultralightweight battery powered X-ray generators for NDT and Security inspections.

The CP120B and CP160B are ultra-light and portable constant potential X-Rays generators that have been specially developed to offer a completely new concept that is able to match the major advances in imaging technology that have taken place in recent years.

Even with their ultra-compact size and being so light in weight, these constant potential generators are capable of penetrating through 10 mm (CP120B) and 21 mm (CP160B) of steel in a very short exposure time.

Constant Potential output.

- 120 kV – 1 mA
- 160 kV- 0.5 mA
- 60° x 60° directional beam.

Focal spot of 0.8 x 0.5 mm / 0.8 x 0.7 mm

7 Kg / 9.2 Kg including battery pack and handling.

Extended operation, external power supply options.

Optimised for new digital and radiographic imaging media

Generators 160 kV- 0.5 mA

Radiation geometry

Output voltage range

Tube current range

Tube current at full output

Maximum power at the anode

Steel penetration

Weight

Overall dimensions mm

Leakage dose at 1 m at full output

Optical focal spot

Inherent filtration

Waterproof level

Product code 11.06.00



Generators	Unit	Value
Radiation geometry	-	Directional
Output voltage range	kV	40 to 160
Tube current range	mA	0.1 to 0.5
Tube current at full output	mA	1.0
Maximum power at the anode	W	80
Steel penetration	mm	21
Weight	Kg	9.2
Overall dimensions mm	∅	124 x 490
Leakage dose at 1 m at full output	mSv/h	< 2.0
Optical focal spot	mm	0.8 x 0.7
Inherent filtration	mm	Equiv. 3.5 (Al)
Waterproof level	-	IP54

SITEX CPseries

Directional Units

While the SITEX CP160D & CP320D weigh just 12 Kg & 23 Kg respectively, they are Extremely powerful and capable of penetrating 42 mm (CP200D) and 70 mm (CP320) of steel in just under 10 minutes.

Furthermore, our unrivalled air-cooling system combined with the CP output translates into a duty cycle at 30°.

Moreover, its broad input power range (from 90 to 264 VAC) enables the SITEX CP SERIES to be operated on virtually any grid in the world and generator sets.

Finally, its low power consumption will ensure that your inspections are more cost-effective and environmentally friendly.

KEY FEATURES

Unbeatable Power to Weight ratio 0.8 Be window	: V-shaped hand rings
Up to 960 W anode dissipation	: Laser pointer
160 to 320 kV range	: Gas insulated
1 kV and 0.1 mA steps	: Shutter & diaphragms included
100% duty cycle at 30 °C	: 7.9 kg control unit
Forced air cooled	: 90 to 264 VAC mains
6A at 230V	

POWERBOX CONTROL UNIT

Developed for the CP SERIES, the POWERBOX control unit is not merely a minor component of the new system. It is one of the best!

Product code 11.07.00



SITEX CP160D
BEAM DIRECTIONAL
POWER SUPPLY MAINS

The **CP160D** is the lightest and most compact generator of the **CP**SERIES. Featuring a built-in Beryllium window, it is the perfect generator for the inspection of light alloys such as aluminum, magnesium or fiber based materials like glass and carbon, as well as the greater thickness of steel. In fact, with its penetration capacity that is capable of reaching up to 37 mm of steel, the **CP160D** is able to execute many different types of NDT tasks without the need to ever have to add extra accessories.

CP160D	Unit	Value
Radiation geometry	-	Directional
Output voltage range	kV	10 to 160
Tube current range	mA	1 to 10
Tube current at full output	mA	5.6
Max. power at the anode	W	900
Constant power mode	-	Yes
Working cycle at 30°C (*)	%	100
Steel penetration (**)	mm	29
Weight (excluding guard rings)	Kg	11.9
Overall dimensions	mm	Ø 140 x 725
Leakage dose at 1 m at full output	mSv/h	< 2.0
Optical focal spot (EN12543)	mm	3.0 (~1.5 IEC 336)
Max. useful angle	°	60 x 40 elliptical
Inherent filtration	mm Be	0.8 (Be Window)
Waterproof level	-	IP65
Operating temperature	°C	-30 to +60
Storage temperature	°C	-40 to +70
Built-in carousel featuring 5 outputs	-	Yes
Guard rings	-	2
(*) Open air - 5m/sec airstream	-	-
(**) 700 mm FFD, 10 min, AA400, D=2	-	-



Product code 11.07.01

SITEX CP200D
BEAM DIRECTIONAL
POWER SUPPLY MAINS

Being just 20 mm longer than the **CP160D**, the **CP200D** represents the best compromise between high penetration (up to 42 mm for steel) and the capacity of the generator to fit with various NDT applications, such as inspections of more technical materials in the aeronautical or space industries. The **CP200D** is one of the most versatile generators on the market and thanks to its built-in multiple X-Ray output carousel it will adapt to a very wide variety of NDT applications, without compromising in any manner its light weight (12 kg) and ease of use.

CP200D	Unit	Value
Radiation geometry	-	Directional
Output voltage range	kV	10 to 200
Tube current range	mA	1 to 10
Tube current at full output	mA	4.5
Max. power at the anode	W	900
Constant power mode	-	Yes
Working cycle at 30°C *	%	100
Steel penetration	mm	42
Weight (excluding guard rings)	Kg	12
Overall dimensions	mm	Ø 140 x 725
Leakage dose at 1 m at full output	mSv/h	< 2.0
Optical focal spot (EN12543)	mm	3.0 (~1.5 IEC 336)
Max. useful angle	°	60 x 40 elliptical
Inherent filtration	mm Be	0.8 (Be Window)
Waterproof level	-	IP65
Operating temperature	°C	-40 to +70
Built-in carousel featuring 5 outputs	-	Yes
Guard rings	-	2



Product code 11.07.02

2024

SITEX CP225D
BEAM DIRECTIONAL
POWER SUPPLY MAINS

Supplemental to its outstanding penetration capacity (up to 47 mm for steel in just 10 minutes), the CP225D includes a built-in multiple X-Ray output carousel that features a Beryllium window for the inspection of lighter alloys such as aluminum and carbon fiber. The CP225D is one of the most versatile generators on the market and will adapt to an extremely wide variety of applications. In fields as diverse as the construction or petrochemical industries, its power and small focal spot, light weight, compactness and high penetration capacity will be much appreciated.

CP225D	Unit	Value
Radiation geometry	-	Directional
Output voltage range	kV	10 to 225
Tube current range	mA	1 to 10
Tube current at full output	mA	4.0
Max. power at the anode	W	900
Constant power mode	-	Yes
Working cycle at 30°C *	%	100
Steel penetration	mm	47
Weight (excluding guard rings)	Kg	12.1
Overall dimensions	mm	Ø 140 x 725
Leakage dose at 1 m at full output	mSv/h	< 2.0
Optical focal spot (EN12543)	mm	3.0 (~1.5 IEC 336)
Max. useful angle	°	60 x 40 elliptical
Inherent filtration	mm Be	0.8 (Be Window)
Waterproof level	-	IP65
Operating temperature	°C	-40 to +70
Built-in carousel featuring 5 outputs	-	Yes
Guard rings	-	2



Product code 11.07.03

SITEX CP300D
BEAM DIRECTIONAL
POWER SUPPLY MAINS

Teledyne ICM's CP SERIES has been designed with a view to revolutionizing the handling and performances of portable X-Ray sets. Despite having managed to halve the weight of similar portable X-Ray generators available on the market (while continuing to provide the same power output), the SITEX CP SERIES generators feature a shutter, a laser pointer, a beryllium window, an aluminum filter and two integrated diaphragms (customized sizes are available upon request). Without compromising the robustness and reliability for which Teledyne ICM products are renowned, the small size and light weight of the SITEX CP SERIES will radically change the way that you perform your RT inspections. And you will see a positive impact in terms of both quality and return on investment (ROI).

CP300D	Unit	Value
Radiation geometry	-	Directional
Output voltage range	kV	20 to 300
Tube current range	mA	1 to 10
Tube current at full output	mA	3.0
Max. power at the anode	W	900
Constant power mode	-	Yes
Working cycle at 30°C *	%	100
Steel penetration	mm	66
Weight (excluding guard rings)	Kg	23
Overall dimensions	mm	Ø 180 x 839
Leakage dose at 1 m at full output	mSv/h	< 5.0
Optical focal spot (EN12543)	mm	3.0 (~1.5 IEC 336)
Max. useful angle	°	60 x 40 elliptical
Inherent filtration	mm Be	0.8 (Be Window)
Waterproof level	-	IP65
Operating temperature	°C	-40 to +70
Built-in carousel featuring 5 outputs	-	Yes
Guard rings	-	2

Product code 11.07.04

SITEX CP200DS
BEAM DIRECTIONAL
IDEAL FOR DIGITAL RADIOGRAPHY

The small focal spot (1 mm) of the CP200DS generator minimizes un-sharpness and gives clearer images, which makes it ideal for digital radiography (DR) when close X-ray shots are possible.

Our CP200DS is a light and powerful generator (200 kV) with a metal-ceramic tube which turns it to be the best power-to-weight ratio in the world.

The CP200DS, like the rest of the CP Series product range, operates with the plug-and-play POWERBOX control unit.

CP200DS	Unit	Value
Radiation geometry	-	Directional
Output voltage range	kV	10 to 200
Tube current range	mA	0.5 to 10
Tube current at full output	mA	3.7
Max. power at the anode	W	750
Constant power mode	-	Yes
Working cycle at 30°C	%	100
Steel penetration	mm	40
Weight	Kg	15.9
Overall dimensions	mm	∅ 140 x 705
Leakage dose at 1 m at full output	mSv/h	< 2.0
Optical focal spot (EN12543)	mm	1
Max. useful angle	°	60 x 40 elliptical
Inherent filtration	mm Be	0.8 (Be Window)
Waterproof level	-	IP65
Operating temperature	°C	-30 to +60
Built-in carousel featuring 5 outputs	-	Yes
Guard rings	-	2



Product code 11.07.05

SITEX CP300DS
BEAM DIRECTIONAL
IDEAL FOR DIGITAL RADIOGRAPHY

The small focal spot (1 mm) of the CP300DS generator minimizes un-sharpness and gives clearer images, which makes it ideal for digital radiography (DR) when close X-ray shots are possible.

Our CP300DS is a light and powerful generator (300 kV) with a metal-ceramic tube which turns it to be the best power-to-weight ratio in the world.

The CP300DS, like the rest of the CP Series product range, operates with the plug-and-play POWERBOX control unit.

CP300DS	Unit	Value
Radiation geometry	-	Directional
Output voltage range	kV	30 to 300
Tube current range	mA	0.5 to 6
Tube current at full output	mA	3
Max. power at the anode	W	900
Constant power mode	-	Yes
Working cycle at 30°C	%	100
Steel penetration	mm	66
Weight	Kg	29
Overall dimensions	mm	∅ 180 x 837
Leakage dose at 1 m at full output	mSv/h	< 5.0
Optical focal spot (EN12543)	mm	1
Max. useful angle	°	60 x 30 elliptical
Inherent filtration	mm Be	0.8 (Be Window)
Waterproof level	-	IP65
Operating temperature	°C	-30 to +60
Built-in carousel featuring 5 outputs	-	Yes
Guard rings	-	2



Product code 11.07.05

CP160CR
BEAM PANORAMIC
POWER SUPPLY BATTERY CRAWLER

Designed to fit into 6" pipelines and higher, the CP160CR constant potential X-Ray generator for crawlers is – in its category – the most powerful panoramic X-Ray tube head in the world for crawlers. The generator is making the cutting edge constant potential technology of the CP SERIES even more compact into a 9.9 kg – 120 mm diameter X-Ray tube head. The crawler unit is capable of penetrating up to 28 mm of steel in 10 minutes, which corresponds to just a 25 second exposure time for 6" standard pipeline welds.

	Unit	Value
CP160CR	-	Panoramic
Radiation geometry	-	Panoramic
Output voltage range	kV	40 to 160
Tube current range	mA	0.5 to 2.0
Tube current at full output	mA	2.0
Max. power at the anode	W	320
Constant power mode	-	Yes
Working cycle at 30°C	%	100
Steel penetration (**)	mm	28
Weight	Kg	9.9
Overall dimensions	mm	∅ 120 x 688
Leakage dose at 1 m at full output	mS/h	< 2.0
Optical focal spot (EN12543)	mm	∅ 4 x 0.5
Max. useful angle	°	360 x (2x20)
Inherent filtration	mm	Equiv. 3.5 (Al)
Waterproof level	-	IP65
Operating temperature	°C	-40 to +70



RCU REMOTE CONTROL UNIT

Product code 11.08.00

CP300CR
BEAM PANORAMIC
POWER SUPPLY BATTERY CRAWLER

	Unit	Value
CP300CR	-	Panoramic
Radiation geometry	-	Panoramic
Output voltage range	kV	30 to 300
Tube current range	mA	0.5 to 1.0
Tube current at full output	mA	2.5
Max. power at the anode	W	750
Constant power mode	-	Yes
Working cycle at 30°C	%	100
Steel penetration (**)	mm	52
Weight	Kg	39.4
Overall dimensions	mm	∅ 180 x 837
Leakage dose at 1 m at full output	mS/h	< 5.0
Optical focal spot (EN12543)	mm	∅ 0.5 x 5.5
Max. useful angle	°	360 x (2x20)
Inherent filtration	mm	Equiv. 3.5 (Al)
Waterproof level	-	IP66
Operating temperature	°C	-30 to +60



CPRCU
REMOTE CONTROL UNIT
FOR CP SERIES CRAWLER

Type of power supply	-	Provided by the crawler
Unique supply voltage	VDC	40 to 60
Max. mean current (160 kV/ 2 mA)	A	9

Product code 11.08.01

SITEX & CP SERIES PANORAMIC UNITS

The CP300C is the first panoramic x-ray generator of the CP Series product range.

Equipped with a metal-ceramic tube, the CP300C is a light (less than 30kg) and powerful generator (300 kV), able to penetrate up to 52mm of steel in 10 minutes, making it the best power-to-weight ratio in the world.

Like the rest of the CP Series product range, the CP300C operates with the plug-and-play POWERBOX control unit.

CP300C	Unit	Value
Radiation geometry	-	Panoramic
Output voltage range	kV	30 to 300
Tube current range	mA	0.5 to 10
Tube current at full output	mA	2.5
Max. power at the anode	W	750
Constant power mode	-	Yes
Working cycle at 30°C	%	100
Steel penetration	mm	52
Weight	Kg	29.4
Overall dimensions	mm	∅ 180 x 837
Leakage dose at 1 m at full output	mSv/h	< 5.0
Optical focal spot (EN12543)	mm	0.5 x 5.5
Max. useful angle	°	360 x 40
Inherent filtration	mm	0.4 Ni / 0.02 + 3.5 / 0.14 Al
Waterproof level	-	IP65
Operating temperature	°C	-30 to +60
Guard rings	-	2



POWERBOX CONTROL UNIT

Developed for the CP SERIES, the POWERBOX control unit is not merely a minor component of the new system. It is one of the best!

Product code 11.08.02

SITEX & XS DIRECTIONAL

All SITEX and SITEXS units contain a rod anode.

This is the focal spot that is outside the SF6-insulated high-voltage generator.

As maximum advantages are derived from this ideal configuration, for one and the same thickness, the volume of lead required for standard radiation protection is considerably reduced.

SITE-X D1802

Technical specifications :

Radiation geometry	:	Directional
Output voltage range	:	60 to 180 kV
Output voltage selection step	:	1 kV
Tube current range	:	1 to 3 mA
Tube current at full output	:	2 mA
Tube current selection step	:	0.1 mA
Maximum useful angle of X-ray beam	:	60 x 40 (°)
Dimensions of optical focal spot	:	0.8 x 0.8 mm
Inherent filtration	:	3.5 mm (Al)
Working cycle at 40°C ambient temp.	:	80 %
Operating temperature range	:	-40 to +80 °C
SF6 insulation pressure at 20°C	:	5.0 kg/cm ²
Weatherproof level	:	IP65
Penetration into steel at max. power (FFD=700mm/Film D7pb/D=1.5/T=20 min)	:	24 mm Fe
Guard rings	:	yes
Position of interconnection socket	:	Axial/Radial
Maximum leakage dose at 1 m	:	10 mSv/h
Microcontroller HT measurement	:	yes
Overall dimensions	:	∅ 240 x 573 mm
Total weight	:	9.5 kg



Generator Control Unit SCU286

Technical specifications:

- Supply voltage: from 198 to 264 VAC
- 5.000 records can be stored
- Storage of exposure parameters: kV, mA, exposure time, FFD, film density, type of materials
- Weight: 14 kg

Product code 11.09.01

SITE-X D3006

Technical specifications:

Radiation geometry	:	Directional
Output voltage range	:	90 to 300 kV
Output voltage selection step	:	1 kV
Tube current range	:	1 to 6 mA
Tube current at full output	:	6 mA
Tube current selection step	:	0.1 mA
Maximum useful angle of X-ray beam	:	60 x 40 (°)
Dimensions of optical focal spot	:	2.5 x 2.5 mm
Inherent filtration	:	2.5 mm (Al) + 0.4 mm (Ni)
Working cycle at 40°C ambient temp.	:	100 %
Operating temperature range	:	-40 to +80 °C
SF6 insulation pressure at 20°C	:	5.0 kg/cm ²
Weatherproof level	:	IP65
Penetration into steel at max. power	:	69 mm Fe
Guard rings	:	yes
Position of interconnection socket	:	Axial/Radial
Microcontroller HT measurement circuit	:	yes
Overall dimensions	:	∅ 346 x 831 mm
Total weight without guard rings	:	31 kg



Product code 11.09.03

SITEX & XS PONORAMIQUE

SITE-X C1802

Technical specifications :	
Output voltage range	: 50 to 180 kV
Output voltage selection step	: 1 kV
Tube current range	: 1 to 3 mA
Tube current at full output	: 2 mA
Tube current selection step	: 0.1 mA
Maximum useful angle of X-ray beam	: 360x (2 x 20) (°)
Dimensions of optical focal spot	: diam. 4 x 0.5 mm
Inherent filtration	: 3.5 mm (Al)
Working cycle at 40°C ambient temp.	: 80 %
Operating temperature range	: -25 to +70 °C
Storage temperature range	: -40 to +80 °C
SF6 insulation pressure at 20°C	: 5.0 kg/cm ²
Weatherproof level	: IP65
Penetration into steel at max. power	: 17 mm Fe
Guard rings	: yes
Position of interconnection socket	: Radial
Maximum leakage dose at 1 m	: 2 mSv/h
Microcontroller HT measurement circuit (kV & mA)	: yes
Overall dimensions	: ø 250 x 653 mm
Total weight	: 9.5 kg

Product code 11.10.01

SITEX & XS PANORAMIC

SITE-X C3005

Technical specifications :	
Output voltage range	: 90 to 300 kV
Output voltage selection step	: 1 kV
Tube current range	: 1 to 5 mA
Tube current at full output	: 5 mA
Tube current selection step	: 0.1 mA
Maximum useful angle of X-ray beam	: 360 x (2x20) (°)
Dimensions of optical focal spot	: ø 5 x 0.8 mm
Inherent filtration	: 2.5 mm (Al) + 0.4 mm (Ni)
Working cycle at 40°C ambient temp.	: 100 %
Operating temperature range	: -25 to +70 °C
Storage temperature range	: -40 to +80 °C
SF6 insulation pressure at 20°C	: 5.0 kg/cm ²
Weatherproof level	: IP65
Penetration into steel at max. power	: 60 mm Fe
Guard rings	: yes
Position of interconnection socket	: Axial/Radial
Maximum leakage dose at 1 m	: 10 mSv/h
Microcontroller HT measurement circuit	: yes
Overall dimensions	: ø 346 x 831 mm
Total weight without guard rings	: 32 kg

Product code 11.10.02

Generator Control Unit SCU286

Technical specifications:

- Supply voltage: from 198 to 264 VAC
- Printing and transfer from SCU286 to the database
- 5.000 records can be stored
- Storage of exposure parameters: kV, mA, exposure time, FFD, film density, type of materials
- Weight: 14 kg

Product code 11.10.03



PANORAMIC X-RAY GENERATORS FOR CRAWLERS

SITEX C1802

C1802	Unit	Value
Radiation geometry	-	Panoramic
Output voltage range	kV	50 to 180
Tube current range	mA	1 to 3
Tube current at full output	mA	2.0
Max. power at the anode	W	N.A
Constant power mode	-	No
Working cycle at 30°C (*)	%	50
Steel penetration (**)	mm	/
Weight (excluding guard rings)	Kg	9,5
Overall dimensions	mm	∅ 250 x 653
Leakage dose at 1 m at full output	mSv/h	< 2.0
Optical focal spot (EN12543)	mm	∅ 4 x 0.5
Max. useful angle	°	360 x (2x20)
Inherent filtration	mm Be	Equiv. 3.5 (Al)
Waterproof level	-	IP65
Operating temperature	°C	-25 to +70
Storage temperature	°C	-40 to +80

Product code 11.11.00

SITEX C3003

POWER SUPPLY CRAWLER BATTERY

C3003	Unit	Value
Radiation geometry	-	Panoramic
Output voltage range	kV	90 to 300
Tube current range	mA	1 to 5
Tube current at full output	mA	3.0
Max. power at the anode	W	N.A
Constant power mode	-	No
Working cycle at 30°C (*)	%	100
Steel penetration (**)	mm	54
Weight (excluding guard rings)	Kg	32
Overall dimensions	mm	∅ 346 x 831
Leakage dose at 1 m at full output	mSv/h	< 10
Optical focal spot (EN12543)	mm	∅ 5 x 0.8
Max. useful angle	°	360 x (2x20)
Inherent filtration	mm Be	2.5 (Al) + 0.4 (Ni)
Waterproof level	-	IP65
Operating temperature	°C	-25 to +70
Storage temperature	°C	-40 to +80

Product code 11.11.01

CCU186

CRAWLER CONTROL UNIT

CCU186	Unit	Value
Type of power supply	-	Pb
Unique supply voltage range	VDC	105 to 140
Max. mean current (300kV/3mA - SITE-X C3003)	A	7
Direct kV and mA measurements - control accuracy	%	+0.5 / -0.5
Display of programmed parameters (CCU186R)	-	Yes
kV, mA programming step (CCU186R)	kV/mA	1/0.1
Battery voltage control accuracy	%	± 0.2
LED display with variable brightness (CCU186R)	line x	1 x 8 with anti-reflection screen
Total weight	kg	4
Operating temperature range	°C	-40 to +85

Product code 11.11.02



GO-SCAN C-VIEW

Real-time X-ray for CUI Inspection

C-VIEW	Unit	Value
Technology	-	CMOS Active Pixel
Pixel pitch	µm	99
Active area	mm	102 x 153
Active resolution	pxl	1032 x 1548
BANDWIDTH		
Data interface	-	Wi-Fi or Ethernet cable (optional)
Frame rate	fps	up to 30
POWER CONSUMPTION		
Power supply	-	18V Dewalt battery
X-ray max power output	W	12
Battery performance	h	2 (with 5 Ah battery)
INTEGRATION		
Dimension detector head	mm	292x195x61.5
Overall dimension	mm	300-650x292x504
Weight	Kg	<6.5
Adjusting source		
- detector distance	mm	300 - 650
ENVIRONMENTAL		
Operating temperature	°C	-20, +50°C
Storage temperature	°C	-30, +60°C
Humidity	% R.H.	20 - 80
IP Range	-	IP65 (excluding battery)
Software / app	-	Works with Go-Scan C-Viewer app, multiple simultaneous displays, video recording, snapshot, x-ray settings, ..



Product code 11.12.00

GO-SCAN 15 10 HR

PORTABLE X-RAY DETECTORS

Teledyne ICM and Teledyne DALSA, two of the most advanced x-ray solution providers in the world, unite forces and reveal the first Integrated Digital Portable X-Ray Solution for Non-Destructive Testing... ever!

Resolution: 99 µm. Dimensions: 15x10 cm Weight: 3.5 Kg

15 10 HR	Unit	Value
Technology	-	CMOS
Pixel Pitch	µm	99
Pixel Capacity Mode	#	2
Active Area	mm	102 x 153 / 4 x 6
Active Resolution	pxl	1032 x 1548
Data Interface	-	GigE & Wifi
ADC Conversion	bits	14
Frame Rate -1x1 (GigE)	fps	30
Power Supply	-	Battery
Power Consumption	W	15
Battery Performance	-	Approx. 7 hours (continuous operation)
Active Cooling	y/n	NO
Dimension Detector Head	mm/inch	238 x 154 x 25 / 9.4 x 6.0 x 1.0
Overall Dimension	mm/inch	238 x 154 x 80 / 9.4 x 6.0 x 3.1
Detector Head Weight	Kg/ lb	1.6 / 3.5
Overall Weight	Kg/ lb	3.5 / 7.7
Operating Temperature	C°/F°	-20, +50 / -4, +122
Storage Temperature	C°/F°	-20, +60 / -4, +140
Humidity	% R.H.	20 to 80
X-Ray Energy Range	kV	10 to 225
IP Range	-	IP65

Product code 11.12.01



1075 SCAR Pro Source Projector

SENTINEL™ Model 1075 SCARPro source projector is used for industrial non-destructive testing applications of gamma radiography with Selenium-75.

SCARPro can be used as a category I or II exposure device.

When used in SCAR mode (category I), the SCARPro allows radiography to be performed in congested work areas with a minimal distance to the controlled areas.

When used as a traditional projector (category II), standard SENTINEL™ source guide tubes and collimators allow the Selenium-75 source to be used for axial, radial and panoramic exposures.

Exposure Device

Model 1075 SCARPro is a dual mode radiographic exposure device for Small Controlled Area Radiography and traditional projection radiography.

SCAR

An interchangeable collimator with a 90o incremental adjustment enables safe radiography in areas congested with workers.

Projector

A standard guide tube attachment with an ISO compliant interlock enables traditional axial and radial projection radiography.

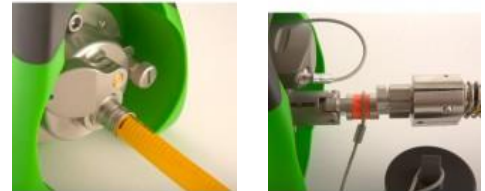
Length :	(22.45 cm) 11.20 in
Width :	(14.99 cm) 5.90 in
Height :	(18.54 cm) 7.30 in
Weight with Jacket :	(13.61 kg) 30 lb
Weight without Jacket :	(12.25 kg) 27 lb
Shielding :	Tungsten 16.5 lb (7.5 kg)

Materials : Tungsten shield with built in source path, Stainless Steel, Aluminum, and Polyurethane

Isotope : Selenium-75

Maximum Source Capacity : 81 Ci (3 TBq) of Selenium-75

Controls and Guide Tubes : 1075 SCARPro Projectors are designed, manufactured and approved for use with SENTINEL™ authorized controls and accessories only.



Product code 10.01.00

880 Series Source Projectors

SENTINEL™ Model 880 Delta, Elite and Omega source projectors are portable, lightweight and compact industrial radiographic exposure devices.

The patented device body consists of a titanium 'S' tube and cast depleted uranium (DU) shield contained within a 300 series stainless steel tube with stainless steel discs welded at each end forming a cylinder shaped housing.

The discs are recessed to provide protection for the rear mounted locking mechanism and front mounted outlet port.

EXPOSURE DEVICE

The exposure device body, containing the DU shield, locking mechanism, outlet port, protective covers and required labels*, comprises the radioactive material transport Type B(U) package.

REMOVABLE JACKET

An impact resistant plastic jacket surrounds the exposure device to protect labels and provide the means for carrying and placement during radiographic operations.

The three models are identified by jacket color; yellow for the 880 Delta, blue for the 880 Elite and orange for the 880 Omega.



880 Delta Projector

Length :	(33.8 cm) 13.33 in
Width :	(19.1 cm) 7.5 in
Height :	(22.9 cm) 9 in
Weight :	(23.6 kg) 52 lbs

880 Elite Projector

Length :	(33.8 cm) 13.33 in
Width :	(19.1 cm) 7.5 in
Height :	(22.9 cm) 9 in
Weight :	(19 kg) 42 lbs

880 Omega Projector

Length :	(33.8 cm) 13.33 in
Width :	(19.1 cm) 7.5 in
Height :	(22.9 cm) 9 in
Weight :	(15 kg) 33 lbs



Product code 10.02.00

Handle Grip Control Assemblies

Extreme Condition

A handle control assembly is comprised of the handcrank and gear box, a pair of control housings, a drive cable and a safety connector.

- Available in 25, 35 and 50 ft (7.5, 10.5 and 15 m)
- Light weight polyurethane ergonomic handle design
- Water resistant handle assembly preventing ingress of water, dirt and sand
- Control housings are constructed of light weight, non metallic 3-ply material twined together for maximum dent resistance
- Yellow and black housings for high visibility during night operations
- Large gear ratio providing 1 foot of travel per revolution (ALARA)
- Commercial grade sealed ball bearing
- Noncorrosive stainless steel end fittings
- Extreme temperature operation from -40oF to 212oF (-40oC to 100oC)

Product code 10.03.00



Source Guide Tubes

Source guide tubes are flexible stainless steel tubes with a protective polyvinyl covering and are available to fit all SENTINEL™ projector units.

Product code 10.04.00



Tungsten Gamma Ray Collimators

TCN799

Weight	:	1.75 lb (0.79 kg)
Dimensions	:	Length: 1.88 in, Diameter: 1.5 in
Attenuation	:	Ir-192: 0.05
Half Value Layers	:	Ir-192: 4.30
Beam Size	:	60° conical side throw

Product code 10.05.00

TCN846

Weight	:	4.3 lb (1.95 kg)
Dimensions	:	Length: 3.75 in Diameter 2.25 in
Attenuation	:	Ir-192: 0.0045
Half Value Layers	:	Ir-192: 7.80
Beam Size	:	20° x 360° panoramic

Product code 10.05.01



Automatic Exposure Control Unit

The fully automatic motorized wind out system enables radiographers to position a source to expose a radiograph and then retract the source after a pre-set exposure time has elapsed. The system can be used with Cobalt-60 units as well as SENTINEL™ Model 460, 660, and 880 devices.

Product code 10.06.00



THE PIPELINER

The PipeLiner is a rugged, easy to use attachment for the Sentinel 880 Delta, Sigma, Elite and Omega gamma ray radiography projectors.

The PipeLiner system is operated by one person and can be used on 2" and larger diameter pipelines.

Integral wheels mean smooth effortless transport along the pipeline to reduce operator fatigue.

Weight	:	31kg
Jacket and Projector	:	24.2kg
Collimator and Shoe Assembly	:	6.8kg

Product code 10.07.00



Emergency Container EC3

The EC3 is a purpose designed and built emergency container for mass production. This has allowed us to produce a cost effective and weight efficient lead emergency container. The EC3 is designed to be used with Ir192, Se75 and Yb169 sources. The EC3 can be manufactured for use with 660 or 880 compatible source holders. The Type A status of the EC3 allows the package to be used to transport the radioactive contents if the emergency container is put into action. A Type A limit allows transportation of isotopes up to the A1 or A2 value; 1TBq (27 Ci) for Ir192. This allows for dose saving following an emergency incident as there is no need to move the source from a non-transportable emergency container into an approved transport package.

It must be noted that the Safe Store is NOT a licenced transport container.

Product code 10.08.00



RADIOACTIVE ISOTOPES

Iridium-192 Sealed Sources

Natural and enriched Iridium-192 sources are constructed using iridium metal discs or pellets of uniform size in a welded stainless steel capsule. Iridium plus high specific activity sources are also available.

Source Model	:	A424-9, SPEC-150 969, INC-IR100 87703
Half Life	:	74 Days
Energies	:	206-612 KeV
Steel Working Range	:	0.47 in to 2.75 in (12 mm to 70 mm)

Product code 10.09.00

Selenium-75 Sealed Sources

Selenium-75 sources are available in cylindrical and quasi-spherical focals, permitting shorter SFDs and greater sensitivity on fixed geometries.

Source Model	:	A424-25W
Half Life	:	120 Days
Energies	:	97-401 KeV
Steel Working Range	:	0.32 in to 1.18 in (8 mm to 30 mm)

Product code 10.10.00

OpenVision™ OVCF-NDT

OpenVision™ is a light weight live video X-ray imaging system specifically designed for hand-held inspection. It includes a highly sensitive radiographic imager and battery-operated 70kV x-ray tube designed for portable field operation. The proprietary intensified video imaging system captures images and displays them on a hand-held LCD viewer, head mounted display, or portable recorder with LCD display in real-time. This portable system is commonly used for Corrosion Under Insulation inspection. Corrosion Under Insulation (CUI) inspection is a term used to address the inspection of areas that exist between the insulation material and the exterior wall of the pipe.

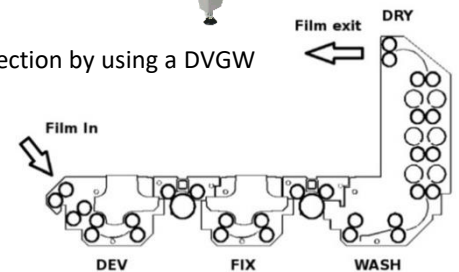
Product code 10.11.00



COLENTA NDT FILM-Processors (for processing Industrial X-Ray films)

COLENTA INDX 900

Processing applications	:	All type of Industrial X-Ray films
Film thickness	:	min. 0,10 mm
Material width	:	min. 6 cm - max. 36 cm
Material length	:	min. 10 cm
Time in Developer	:	min.30 sec max. 150 sec
Intake Speed	:	38 cm/min 8 cm/min
Cycle Time	:	2,7 min (162 sec) 13,6 min (816 sec)
Tank capacity-Developer	:	2,6 L
Fixer	:	2,5 L
Wash water	:	3 L
Solution heating (Fix and DEV) (350W Inline Heater)	:	variable in a range of 18°C - 43°C
Dryer	:	warm air
Replenishment	:	fully automatic.
water supply	:	2-way magnetic valve, with 3/4" hose connection by using a DVGW approved system-separating device or pipe-separating device.
Wash water flow rate	:	1,5 ltr/min when film is in process
Wash water supply pressure	:	3 - 10 bar
Wash water supply	:	filtered at a temperature of 10°C - 15°C
Weight	:	Empty 58 kg With solution 66 kg



Product code 12.01.00

COLENTA INDX 43 2.0b

Film thickness	:	0,10 mm - 0,18mm
Material width	:	min. 7,5 cm max. 43cm
Material length	:	min. 12 cm

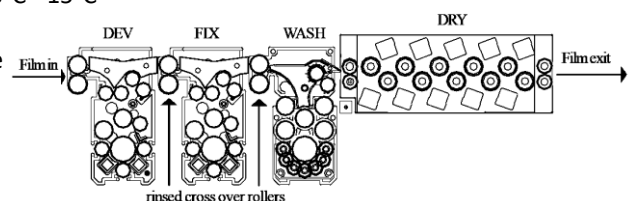
Time in Developer	Cycle Time (dry to dry)	Intake speed
[sec]	[sec]	[cm/min]
min 25	97	95
max 170	659	14

Tank capacity – Developer	:	7,0 L (incl Developer filter system)
Fixer	:	6,5 L
Washwater	:	6,5 L
Solution heating(Fix and DEV) (separate inline 350Wheaters)	:	adjustable in a range of 18°C - 43°C
Dryer	:	warm air adjustable in a range of 18°C - 55°C
Replenishment	:	fully automatic.

replenishment is microprocessor controlled and calculated from information received from sensors measuring the width and length of material entering the processor. Replenishment cycles are adjustable.

Wash water distribution	:	built in 2-waymagnetic valve
Wash water flow rate	:	2,5 ltr/min when film is processed
Wash water supply pressure	:	3 - 10 bar
Wash water supply with 3/4" hose connection	:	filtered at a temperature of 8°C - 15°C
Wash water drain	:	32mm (5/4inch) hose or tube
Weight	:	Empty 150 kg

Product code 12.01.01



INDX 43/3MW - INDX 43/5MW

Film thickness : 0,10 mm - 0,18mm
 Material width : min. 7,5 cm max. 43cm
 Material length : min. 10 cm

Film processor INDX 43/3MW

Time in Developer	Cycle Time (dry to dry)	Intake speed
[sec]	[min]	[cm/min]
32	2'36"	77
176	14'18"	14

Film processor INDX 43/5MW

Time in Developer	Cycle Time (dry to dry)	Intake speed
[sec]	[min]	[cm/min]
30	2'08"	115,4
165	11'45"	21



	INDX 43/3MW	INDX 43/5MW
Tank capacity – Developer	9 L	11L (incl Devel. filter)
Fixer	8 L	10L
Washwater	8 L	10L
Solution heating(Fix and DEV)	adjustable in a range of 18°C - 43°C	
Dryer	warm air adjustable in a range of 18°C - 55°C	
Replenishment	fully automatic.	
Wash water distribution	built in 3-way magnetic valve	
Wash water flow rate	2,5 ltr/min when film is processed	
Wash water supply pressure	3 - 10 bar	
Wash water supply	filtered at a temperature of 8°C - 15°C	
Wash water drain	32mm (5/4inch) hose or tube	
Weight	Empty 132 kg	Empty 150 kg

Product code 12.01.02

INDX 37M NDT "Mobile"

Colenta INDX 37M NDT

Film Processor suitable for all commonly used NDT film types

- Maximum film feed width : 37cm
- Minimum film length : 10cm
- Production capacity : 13 cm/min
- Automatic Replenishment system for Developer & Fixer
- Water Rinse crossover system between the chemical tanks that reduce carryover and repl. rates
- Anti oxidation & Anti crystallisation cycles
- 3 Pre-programmable operating channels
- Automatic developer temp.control and cooling
- Controlled warm air drying with NO Infra-Red in use
- Prepared as standard for use with fresh water
- Well proven and reliable film transport system
- Prepared with ventilation and exhaust

Product code 12.01.03



COLENTA INDX 37 NDT Dryer

Automatic NDT Industrial X-Ray Film Dryer

The affordable, compact and easy to use wash and drying solution for the varied and specialised manual developing applications.

- Low noise, Warm air drying with over-temp protection
- Low Maintenance precision gear drive - no worm drive used
- Staggered "minimum contact" roller system ensures safe, Clean and dry x-ray film production.
- Lightweight and compact for easy handling
- Low power requirements, low operating costs.

Technical Specifications:

Max Film Width	:	36cm/14inch
Min Film Length	:	10cm/4inch
Tank body PA	:	Wash 3,4 Litre
Dryer Temperature	:	approx 50°C
Water replenishment	:	automatic bottle feed
Capacity at cycle time		in-feed speed
from:	212 sec.	15 cm/min
to:	70 sec.	45 cm/min
(adjustable in 5cm/min steps)		
Electr. Power Supply:		230V, N, 50/60 Hz, 1200W
Water Supply	:	by supplied water bottle

Product code 12.02.00



INDUSTREX Film Solutions for NDT

The “gold-standard” in NDT X-ray film imaging.
Choose from a wide variety of film options

INDUSTREX AA400 Film

This high speed, fine grain, high contrast film is suitable for a wide range of industrial applications. It is excellent for use with lead screens.

INDUSTREX T200 Film

This is our fastest ASTM E1815-96, Type 1 film. It is suitable for use in critical imaging applications and can be used in multiple film loads to provide an extended imaging range.

INDUSTREX MX125 Film

This very fine grain, very high contrast film is suitable for a wide range of applications requiring excellent sensitivity. It can be used with or without lead screens.

INDUSTREX M100 Film

This very fine grain, very high contrast film provides outstanding sharpness. Its excellent sensitivity and low speed make it an excellent choice for critical inspections in a wide range of materials. It can be used with or without lead screens.

INDUSTREX DR50

Film This ultra-fine grain, very high contrast film has outstanding definition and is recommended for highly critical inspection needs with a wide range of materials. This film works well in multiple film techniques

Product code 15.01.00

INDUSTREX Chemicals

Consistent, predictable results every time INDUSTREX Chemicals for manual and automatic processing support the evolving requirements of the non-destructive testing market. Our experience in imaging science spans over one hundred years. But it’s an unbreakable commitment to product innovation and customer service that has allowed the INDUSTREX line of products to achieve superiority in the NDT industry.

INDUSTREX Single Part **Developer** Replenisher (2 x 20L)

Product code 15.02.01

INDUSTREX LO **Fixer** and Replenisher (2 x 20L)

Product code 15.02.02

Recommended for all NDT and industrial imaging films. Offers improved archivability, great for automatic and manual processing, can be used in chemical auto mixers.

Eco-Friendly Chemicals

INDUSTREX DX Developer

INDUSTREX FX Fixer

Use with All NDT Processors with No Change to Replenishment Rate. Easy to use. Simply continue to follow the NDT processing cycle standard replenishment rates for your processor.

Replenishment rates: Developer is 665 ml per square meter
Fixer is 1200 ml per square meter.

For optimum processing:

Set developer temperature to 28°C, immersion time 100 seconds

Set developer temperature to 26°C, immersion time 146 seconds

Manual processing developer immersion time/developer temperature equivalency is the same as conventional INDUSTREX chemicals. Starting point is 4 minutes development time at 22°C.



New INDUSTREX Eco-Friendly Chemicals

Available to Order

INDUSTREX DX Developer 2x20L CAT 5504923

INDUSTREX FX Fixer 2x20L CAT 5504931



Industrex HPX-1 Digital System

Rigid Cassette and Phosphor Plate Reader with Integrated Eraser

- Use plates in subdued light loading or use rigid cassettes in normal room light

Dimensions

- Height : 17.5 in. (44.5 cm)
- Width : 23 in. (58.4 cm)
- Depth : 26 in. (66 cm) with feed tray removed, 35 in. (88.9 cm) with tray in operating position
- Weight : 120 lb (54.4 kg) (or less)

Phosphor Plates Supported

- 70 mm to 14-inch (35 cm) width, 8-inch (20 cm) to 60-inch (152 cm) length
- Multiple plate simultaneous feed up to 14-inch (35 cm) width

Rigid Cassettes Supported

- 10-inch (25.4 cm) to 14-inch (35 cm) width, 8-inch (20 cm) to 17-inch (43 cm) length

Scan Rate

- 35 to 135 seconds per 14 x 17 in. / 35 x 43 cm plate, depending on resolution setting

Erase Rate, Automatic High Intensity

- 0.2 - 2.0 in. (0.5 - 5 cm) per second Power
- 100-240 V ~ 50/60 Hz, 12.5 – 8 A - automatic sensing Also Included

- Desktop computer
- High resolution color LCD monitor
- Keyboard and mouse
- INDUSTREX Digital Viewing Software

Other Available Options

- Rugged travel case
- High resolution monochrome LCD monitor
- Laptop View Station with high resolution LCD
- INDUSTREX Flex GP Digital Imaging Plate SO-170
- INDUSTREX Flex HR Digital Imaging Plate 2174

Product code 15.03.00

Carestream Industrex HPX-PRO

Portable Digital System

Scanning Optics	Located above imaging area eliminating gravity driven particulates
Imaging Plate Feed	Phosphor side up to prevent damage
Connectivity	Ethernet
Air Flow	Filtered to keep out dirt and dust
Erase	LED erase lamps for high efficiency and low power consumption
Maintenance	User serviceable parts
Calibration	Fully factory calibrated and ready to operate
Scan Resolution	25 microns, 50 micron & 100 micron
Plate Sizes	Maximum 6-inch width x maximum 96-inch length
Software	INDUSTREX (installed and tested prior to shipping) Windows 7 Ultimate 64 bit
Image Filter	Custom EDGE image display filter. 10 predefined filters including (2) specifically for gamma work.
Monitor	Laptop, 3MP (color) or 5MP (monochrome)
Chassis	Rigid aluminium construction with vibration damping feet
Power	100-240 VAC (Automatic Level Sensing)
Battery	24 volt standard tool battery
Battery Life	4 hr. standby/45 min. active scanning and erasing per battery
Warranty	1 year parts and labor
Installation	Ships complete and can be quickly and easily installed in less than 5 minutes on-site by customer
Dimensions	16-inches (41cm) x 13-inches (33cm) x 12-inches (31cm).
Weight	35 lbs (16 kg)

Product code 15.04.00



X-Ray Film Scanners and Digitizers

RT Film Digitizing

MII-900 Plus

Microtek NDT/ RT Film Digitizing System is an all-in-one imaging solution developed exclusively for radiographic inspection. It easily transfers the industrial X-Ray film into digital images for storage and management and makes it convenient to view and share for the professionals

Scanner Type	Sheet-fed film digitizer
Image Sensor Type	CCD
Resolution	2400 x 2400 dpi
Light Source	LED
Scanning Area	14" x 200" (355.6 x 5080 mm)
Scanning Speed	18 seconds at 300 dpi in grayscale per 14" x 17" film
Optical Density	4.7 Dmax
Dynamic Range	0.5D ~ 4.5D based on ISO 14096, DS 10.0
Bit Depth	8 / 16-bit grayscale
Paper Size	Min: 2.5" x 2.5" (63.5 mm x 63.5 mm) Max: 14" x 200"(355.6 x 5080 mm)
Connectivity	Hi-Speed USB (USB 2.0)
Scannable Media Types	Transparent
Supported Film Types	8.5" x 4.5", 12" x 3 1/3"
OS Support	Windows XP/ Windows 7 / 8 / 10 (ScanWizard Industry)
Dimensions	(L x W x H) 10.2" x 18.7" x 9.3" / 260 x 474 x 235 mm
Weight	19.82 lbs (9 kg)
Certifications	CE, FCC, BSMI, ETL, CCC, RoHS
Power Source	AC 100V ~ 240V, 47 ~ 63 Hz, 1.5A Max
Power Consumption	54.9 Watts
Accessories :	
Film holders	(8.5" x 4.5", 12" x 3 1/3")
Automatic Film Feeder	(Optional) :
- Up to 15 pics of film	(Min. 2.5"x10" / Max. 14" x 17")
Multi-channel tray	(Optional) :
- Up to 3 pics of 30.5 x 8	



Product code 22.03.00

Microtek NDT-2000

High Resolution: 1200 dpi / 21 µm, 16 bit
 High Dynamic Range: Able to detect changes between 0.5 to 4.5 optical density
 Optional Auto Film Feeder enhances working efficiency
 Supports all film sizes from 14" to 200"
 Self-Calibration ensures consistent image quality
 Designed to prevent dust and dirt buildup, great for tough environments
 Designed for aerospace, petrochemical, military and other industrial testing applications

General Specifications

Type	Sheet-fed film digitizer
Image Sensor	CCD
Lamp Source	Green LED
Scanning Method	Grayscale in single scanning pass
Bit Depth	8-bit, 16-bit grayscale
Resolution	1200 dpi (21 µm)
Dynamic Range	0.5D ~ 4.5D (Base on ISO 14096)
Scanning Area	14" x 200" (355.6 mm x 5080 mm)
Film SizeMin:	2.5" x 2.5" (63.5 mm x 63.5 mm)
Max:	14" x 200" (355.6 mm x 5080 mm)
Film Holders	8.5" x 4.5", 12" x 3 1/3"
Dimensions	12.9"L x 18.7"W x 8.8"H (329 mm x 474 mm x 224 mm, Film holders are not included)
Weight	44.5 lbs. (20.2 kg)



Product code 22.03.02

2024

MicroTek MII-800XL+

Product Name : MII-800XL Plus
Scanner Type : Flatbed film digitizer
Image Sensor Type: CCD
Resolution : 3200 x 6400 dpi (Default: 400 dpi)
Light Source : LED
Scanning Area : 12" x 16" (305 x 406 mm)
Scanning Speed : 25 seconds @ 400 dpi (scan area: 12" x 15.8")
Optical Density : 4.7 Dmax
Dynamic Range : 0.5D - 4.5D based on ISO14096, DS11.1
Bit Depth : 8 / 16-bit grayscale
Connectivity : Hi-Speed USB (USB 2.0)
Scanable Media Types: Transparent
Supported Film Types: 8.5" x 4.5", 6.5" x 3.5" and 12" x 31/3"
OS Support : Windows XP / Windows 7 / 8 (ScanWizard Industry)
Dimensions : 24.7" x 14.8" x 7.1" (627.6 x 375.9 x 180.5 mm)
Weight : 35.4 lbs (16.1 kg)
Certifications : CE, FCC, RoHS and ISO 9001: 2000
Power Source : AC 100V - 240V / 47 - 63 Hz
Power Consumption: 45 Watts

Product code 22.03.01



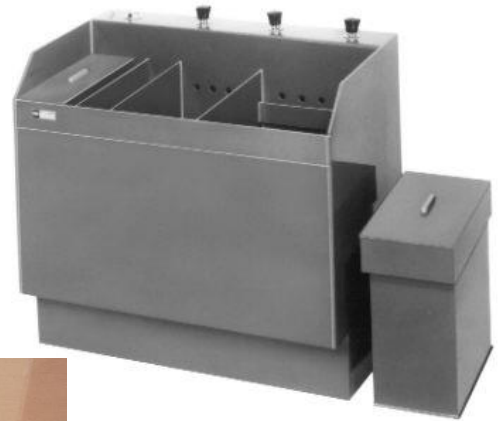


MANUAL FILM PROCESSING UNIT

Constituted PVC anticid, complete with removable tanks with lid for developing and fixing.

- 1 compartment with developer tank 20 or 40 liters (depending on model) with rapid heating, regulated by a precision adjustable thermostat
- 1 compartment rinsing with frames support
- 1 compartment with fixer tank 40 or 80 liters (depending on model)
- 1 compartment washing generously dimensioned high turbulence of water with frames support

Product code 02.01.00



MANUAL FILM PROCESSING FOR MOBILE

For installation in mobile darkrooms

- 1 developer compartment 20 liters watertight
- 1 rinsing compartment 20 liters watertight
- 1 fixer compartment 40 liters watertight
- 1 washing compartment 40 liters watertight

Product code 02.02.00

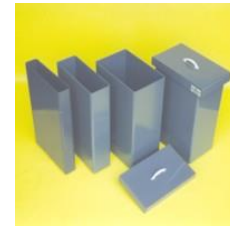


PROCESSING TANKS

PVC tanks take sheet films up to 35cm wide and 48cm long.

10 liters, 20 liters, 40 liters

Product code 02.03.00



X-RAY FILM DRYER

DRYING TYPE 10 OR 25 HANGERS

- Dryer for X-ray films
- Top load
- 1000 W Resistance (2000 W on request)
- All our dryers are manufactured in gray PVC
- The temperature is controlled by a safety thermostat
- They have a removable air filter for easy cleaning
- Unless otherwise indicated, they are equipped with 220v

Silent and powerful ventilation tangential blower

DRYING TYPE 10 HANGERS **Product code 02.08.01**

DRYING TYPE 25 HANGERS **Product code 02.08.02**

DRYER 25 HANGERS

- Dryer for radio film
- Industrial radiology equipment compact made of PVC Model 10mm
- Dryer metal film front door leading to a sliding carriage on dryer metal nylon rollers
- Film dryer fast and quiet Drying tangential turbine and resistance of 1000 W blowing upwards
- Partial recycling of hot air (power saving)
- Dimensions: 900 X 550 X 1000 mm
- Dryer forming work plan

Product code 02.09.00



Film Processing Accessories

Stainless Steel Film Hanger

Channel Type film hangers are used for manual processing of x-ray film.

Specifications

Material	:	Stainless Steel 304
Material Thickness	:	0.6 mm
Solder Point	:	Spot Welding

Product code 02.04.00

Stainless Steel Spirals

Specifications

Material	:	Stainless Steel 304
Solder Point	:	Spot Welding

Product code 02.05.00

Darkroom Safelight

The Darkroom Safelight is designed for use in X-Ray darkrooms, emitting light with a wavelength of 640nm

Product code 02.06.00

Cutter and corner cutter

The cutter is suitable for cutting paper, cardboard, foils and thin foils soft plastics.

The self sharpening cutters will give long life and efficient service as far as the maximal capacity under clamp of (1.5 mm) is not overstepped or unsuitable material is cut.

- Cutter size light cm 46 X 15
- Cutter size light cm 51 X 30

Product code 02.06.00

Timers

Darkroom Alarm Timers

Product code 02.07.00

FV-2010T PLUS LED Film Viewer

FV-2010T PLUS LED Film Viewer is developed according to the Norm of ISO5580 Industrial radiographic illuminators - Minimum requirements.

Inherited fine traditions of FV-2010 and FV-2009T, adopt powered LED area light source, enable the viewer to high luminance and excellent uniformity, theoretical lifetime span up to more than 50,000 hours

Luminance	:	130,000Cd/M (408,200Lux)
High Accuracy	:	±0.02D
Uniformity	:	0.95
Diffusionfactor	:	0.95

12 hours continues maximum luminance,

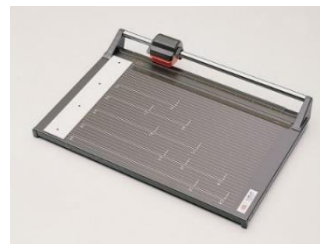
Surface temperature rise ≤18°C

Unlimited dimmer from 5%-100%

Window Size : 400×100mm (15.8×4")

Weight less than 4.0 Kg (8.8lbs)

Product code 03.05.01



Spot viewer LED Film Viewer

Adjustable IRIS spot viewer
 Extreme high luminance
 Two level of Luminance For Choose:
 300,000Cd/m² Film: 4.5D
 IRIS adjustable light mask
 Spot view size can be adjust from ϕ 5mm - ϕ 100mm
 Programmable "Stand by Luminance"
 Stand by Luminance: The luminance of the viewer when you release the foot pedal
 Programmable Range : From 0% to 10%
 Compact Design, only 2.3Kg

Product code 03.05.02



Portable LED Film Viewers

Higher Intensity than Conventional Units
 Luminance : 103,000Cd/M² (323,420Lux)
 Uniformity : 0.95, Diffusion factor: 0.95
 Weight less than : 2.5 Kg
 12 hours continues maximum luminance, Surface temperature rise \leq 15°C
 Unlimited dimmer from 5%-100%

Product code 03.05.00



KOWOLUX M Series mobile NDT film viewers with Power LED



KOWOLUX M1

Product code 03.06.00

Luminance, max. : 100,000 Cd/m²
 Film density, max.: 4.0 D
 Control range : 0.2 ... 100 %
 Viewing screen : 225 x 80 mm
 (for films 10x24 cm)
 Rated power : 70 W
 Power supply : 100 ... 240 V, 50/60 Hz
 24 V DC, 90 W
 Dimensions : 325 x 62 x 150 mm
 Weight : 2.9 kg
 Lifetime of LEDs : 40,000 h
 Color temperature of LEDs : 5,000 K
 Housing : anodized aluminum profile with cooling fins completely closed to environment with gaskets (IP54)
 Viewing screen : crystal glass with 95 percent translucency, thermally cured

KOWOLUX M2

Product code 03.07.00

Luminance, max. : 100,000 Cd/m²
 Film density, max.: 4.0 D
 Control range : 0.2 ... 100 %
 Viewing screen : 450 x 80 mm
 (for films 10x48 cm)
 Rated power : 140 W
 Power supply : 100 ... 240 V, 50/60 Hz
 24 V DC, 160 W
 Dimensions : 552 x 62 x 150 mm
 Weight : 4.5 kg
 Lifetime of LEDs : 40,000 h
 Color temperature of LEDs : 5,000 K
 Housing : anodized aluminum profile with cooling fins completely closed to environment with gaskets (IP54)
 Viewing screen : crystal glass with 95 percent translucency, thermally cured

KOWODENS TD Densitometer

For precise determination of optical densities of X-ray films the KOWODENS TD is equipped with innovative digital measuring technique

Materials:

Housing:	Aluminum, anodized
Table:	Lucite (PMMA)
Measuring range:	D 0.00 ... > 5.50
Resolution:	≤ D 4.00 D 0.001 >D 4.00 D 0.010
Accuracy:	≤ D 4.00 +/- D 0.02 >D 4.00 +/- D 0.03
Repeatability:	≤ D 4.00 +/- D 0.005 >D 4.00 +/- D 0.010
Measuring light source:	
Color temperature:	2,800 K
Luminance:	≤ D 4.00 - 40,000 cd/m ² >D 4.00 - 80,000 cd/m ²
Aperture size:	Ø 2 mm
Communication port:	USB 2.0
Power Supply:	100 ... 240 V, 50 ... 60 Hz
Dimensions unit:	280 x 380 x 190 mm (WxDxH)
Dimensions table:	280 x 320 mm (WxD)
Length measuring arm:	260 mm
Weight unit:	5.80 kg
Weight power supply:	0.15 kg

Product code 03.06.01

Digit-X Densitometer

Density Range	: 0.00 to 4.00 D
Fibre Optic Aperture	: 3mm
Resolution	: 0.010D
Accuracy	: 0.050D
Repeatability	: 0.020D
Drift	: 0.0005/min
Power Supply	: 9v PP3 Battery
Battery Life	: Alkaline 2500 Hrs
Size	: 210x60x40mm
Weight	: 175kg

Product code 03.06.00

DT-200 Densitometer

The DT-200 is a robust, easy to use, separate probe type densitometer for measuring the transmission density of x-ray film.

Range	: 650 Cd/m ² – 320 000 Cd/m ²
Density	: 0.00 – 5.00 D*
Optical Aperture	: 3mm diameter
Probe Temperature compensated	
Display	: 4 digit LCD
Accuracy	: ± 0.03 D
Resolution	: 0.01D
Detector	: Silicon photodiode
Power supply	: (AA/1.5V)x2-Alkaline Battery
Battery life	: 1200 hours (Continuous duty, without illuminated)
Dimensions	: 170mm x 90mm x 60mm
Weight	: 800g

Product code 03.09.00



RADIOGRAPHIC ACCESSORIES

LEAD MARKERS

Lead markers numbers 8x2 mm

Product code 01.02.00 to 01.02.09

Lead markers letters 8x2 mm

Product code 01.01.00 to 01.02.26

Lead markers numbers 10x2 mm

Product code 01.04.00 to 01.04.09

Lead markers 10x2 mm

Product code 01.03.00 to 01.03.26

Other sizes available on request



LEAD MARKER BOX

Lead Marker Storage Boxes

Product code 01.05.00

LEAD MARKER TAPES

Lead marker tape 5 cm spacing

Product code 01.06.00

Lead marker tape 10 cm spacing

Product code 01.07.00

Other sizes available on request



Image Quality Indicators - IQIs - Penetrameters

Image Quality Indicators as per standard

ASTM E 747-97 et ASME SE 747

I.Q.I. ASTM Set A Fe - I.Q.I. ASTM Set C Fe

Product code 01.08.01 - Product code 01.08.03

I.Q.I. ASTM Set B Fe - I.Q.I. ASTM Set D Fe

Product code 01.08.02 - Product code 01.08.04

Wire type Image Quality Indicators / IQIs

EN 462-1

European standard specifications EN 462-1

Product code 01.09.00

Duplex Image Quality Indicator

IQI to EN 462-5 and ASTM E 2002 – 98

Product code 01.10.00

FLEXIBLE CASSETTES

6 x 24, 6 x 40, 6 x 48, 7 x 40, 7 x 48

9 x 12, 10 x 20, 10 x 24, 10 x 40, 10 x 48

13 x 18, 15 x 40, 18 x 24, 20 x 30, 24 x 30

30 x 40, 35 x 43cm.

Product code 01.11.00

Other sizes available on request



PAIR PACK LEAD SCREENS

PACK INTERMEDIATE LEAD SCREENS

0,02, 0,05, 0,10, 0,15, 0,20, 0,25mm
 (Format (cm) 6 x 24, 6 x 40, 6 x 48, 7 x 40,
 7 x 48, 9 x 12, 10 x 20, 10 x 24, 10 x 40, 10 x 48
 13 x 18, 15 x 40, 18 x 24, 20 x 30, 24 x 30
 30 x 40, 35 x 43.

Product code 01.12.00



RIGID CASSETTES

The x-ray cassettes are produced in alloy aluminium and special material, the edges are in plastic and aluminium.

Product code 01.13.00



MASKING TAPE

Black PVC Tape 25mm X 50m
 White fibrin Tape 19mm X 50m
 White nuclear K 226 Tape 25mm X 55m
 Other sizes available on request

Product code 01.14.00



MARKALL BALL PAINT FIXOLID

Ball Paint Marker Red / White / Yellow

Product code 01.15.00

PHOTOMARKER FOR DARKROOM

Photomarker for darkroom In stove enamelled steel;
 Identification space mm 85 x 25;
 Provided with electronic timer

Product code 01.16.00



RADIATION SAFETY

Radiation Warning Signs

Controlled Area Sign A3, Rigid Plastic

Product code 04.10.00

Radiation Barrier Tape (English).

Heavy duty tape 40mm wide x 50 metres long.

Product code 04.11.00

Tape with enclosed dispenser For 40mm wide tapes

Product code 04.11.01



Isotope handling tongs

For handling detached gamma sources, and source holders in an emergency.

- Isotope Handling Tongs 1,5m long

- Isotope Handling Tongs 2m long

Product code 04.12.00

RADIATION SAFETY

Radiation Dose Rate Monitors

TRACERCOTM T402 and T402HR

Radiation detected:	T402: X-rays and gamma rays in range 59 keV to 1332 keV. T402HR: X-rays and gamma rays in range 33 keV to 1332 keV.
Detector:	Single halogen, energy compensated Geiger Muller tube.
Case material:	Robust, chemical resistant polymers.
Dose rate range:	Bar graph display 0-1000 $\mu\text{Sv/h}$
T402:	Digital numeric display 1-10,000 $\mu\text{Sv/hr}$.
T402HR:	Digital numeric display 0-100 mSv/hr.
Accumulated dose range:	T402: Digital numeric display 0-10,000 μSv .
T402HR:	Digital numeric display 0-100 mSv.
Peak radiation dose rate:	T402: Digital numeric display 0-10,000 $\mu\text{Sv/hr}$.
T402HR:	Digital numeric display 0-100 mSv/hr.
Sensitivity data:	T402: 1.7 cps per $\mu\text{Sv/hr}$. T402HR: 0.7 cps per $\mu\text{Sv/hr}$.
Variation with battery voltage:	Less than 1%.
Battery life:	100-hours typically with background radiation.
Low battery indication:	On 4 hours available life left.
Battery:	Standard 9V PP3 battery.
Ingress protection Rating:	Rated IP65 (dust tight and will withstand water jets).
Humidity range:	0 to 95%.
Weight:	500 grammes.
Standard Compliance:	EU directives: 2004/108/EC Compatibility Directive.

Product code 04.09.00





Direct-Reading Dosimeter

The Direct-Reading Dosimeter is a pocket-size, carbon-fiber electroscopes with an ion chamber.

- Radiation Detected : Gamma and X-Ray
- from 16 keV to 6 MeV
- Range : 0-2mSv, 0-5mSv, 0-50mSv
- Detector : Fiber-Electrometer mounted in an Electrically Conductive Plastic Ion Chamber
- Detector Housing : Very low permeability plastics - Hermetically-Sealed
- Accuracy : +/- 10% of true exposure
- Rate Response : Dose rate independent for Gamma and X-Ray
- Electrical Leakage : Less than 1.0% of full scale for 24 hours at 50 C
- Relative Humidity : Up to 90%
- Dimensions : 4.5" (12.4 cm) Length X .6" (1.5 cm) Diameter
- Weight : 1.0 oz. (25 grams)

Product code 04.01.00

Dosimeter Charger

Easier charging, viewing, dosimeter protection and improved accuracy...

Capable of charging any Direct-Reading Dosimeter
Conforms to ANSI N42.6-1980

Operates on two 1.5 V "AA" Batteries

Has the ability to "Kick" or remove all residual charge from dosimeters properly, which prevents spurious upscale fiber movement

LED Reading Light to allow for easy charging/viewing
Residual static charge removed for improved accuracy

Product code 04.02.00

Personal Electronic Dosimeter RAD-60R

- Radiation detected: gamma and X-rays
- Measurement range:
 - dose: 1 μ Sv - 9.99 Sv or 0.1 mrem - 999 rem
 - dose rate: 5 μ Sv/h - 3 Sv/h or 0,5 mrem/h - 300 rem/h
- Calibration: better than $\pm 5\%$ (Cs-137, 662 keV at 2 mSv/h), Hp(10)
- Energy response: Hp(10), 55 keV - 3 MeV, better than $\pm 25\%$, up to 6 MeV, better than $\pm 35\%$

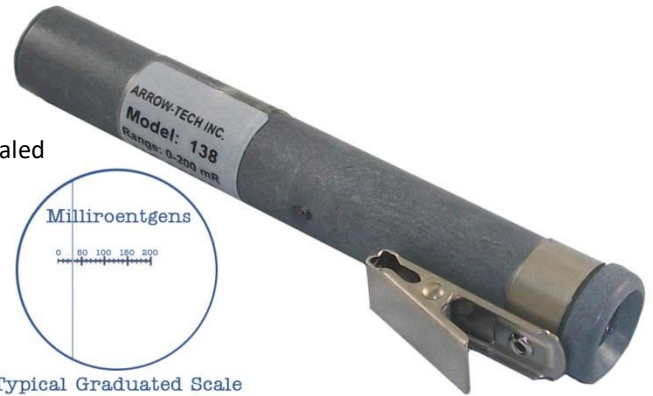
Product code 04.03.00

DOSE RATE METER 6150 AD5/6

Dose Rate Meters 6150 AD5 or AD6 provide universal radiation protection measuring photon radiation

(gamma and x-rays) and the detection of alpha and beta radiation. 6150AD Models	Additional functions	Ranges for dose rate and photon energy
6150AD1 6150AD1/H	no	High range models: analog: 1 μ Sv/h - 1000 mSv/h digital: 0.1 μ Sv/h - 999 mSv/h
6150AD5 6150AD5/H	yes	»useful«: 0.2 mSv/h - 999 mSv/h 45 keV - 3 (/H:2.6) MeV
6150AD2 6150AD2/H	no	Low range models: analog: 0.1 μ Sv/h - 10 mSv/h digital: 0.01 μ Sv/h - 9.99 mSv/h
6150AD6 6150AD6/H	yes	»useful«: 2 μ Sv/h - 9.99 mSv/h 60 keV - 1.3 MeV

Product code 04.04.00



DOSE RATE METER X5C plus

The GRAETZ X5C FW has a dose display as well as a warning function for personal radiation protection when handling ionizing radiation. The measuring system is also equipped with an RS-232 interface and an interface for connecting external probes

Dose rate meter GRAETZ X5C FW

Calibratable electronic dose rate measuring system in compact and robust design

Approval for use by fire departments

Extension of the measuring range by interface for external probes

Display ranges Dose $0.01 \mu\text{Sv} \leq \dot{H}^*(10) \leq 10 \text{ Sv}$

Dose rate $0 \text{ nSv/h} \leq \dot{H}^*(10) \leq 19.99 \text{ mSv/h}$

Measuring ranges Dose $0.5 \mu\text{Sv} \leq \dot{H}^*(10) \leq 10 \text{ Sv}$

Dose rate $1 \mu\text{Sv/h} \leq \dot{H}^*(10) \leq 19.99 \text{ mSv/h}$

Energy sector $40 \text{ keV} - 1.3 \text{ MeV}$

Protection class IP67

Dimension approx. $152 \times 82 \times 39 \text{ mm}$

Weight (incl. batteries) approx. 385 g

Product code 04.05.00



GammaSmart one/two

The dose rate alarm units GammaSmart one/two are very robust, battery operated and easy to handle pocket-sized dose rate alarm units designed for the personal radiation protection.

The GamaSmart one is also approved for the use in potentially explosive atmospheres of zone 1.

Both detect gamma radiation and X-rays, indicating these with clear optical and acoustical single pulses. An increasing dose rate leads to an increasing pulse rate.

Kind of radiation : gamma radiation / X-rays

Detector : GM tube

Sensitivity : counting rate at $3 \mu\text{Sv/h}$
approx. 6 counts/minute

Ambient background

Radiation : approx. 1 count in 2 minutes

Power supply : 2 batteries 1.5 V (type AAA)

Housing : aluminium

Dimensions/Weight : $72 \times 60 \times 22 \text{ mm}$ approx. 100 g (with batteries)

Product code 04.13.00



RDS-30 Rem/Sieverts

Dose Rate Survey Meter

Physical characteristics

- radiation detected : gamma and X-ray
from 48 keV to 1.3 MeV
- detector : energy compensated GM tube
compliant to $H^*(10)$
- dose rate measurement Range : from $0.01 \mu\text{Sv/h}$ to 100 mSv/h
or from $1 \mu\text{rem/h}$ to 10 rem/h
- dose rate linearity : $\pm 10\% \pm 1$ digit within the range
of $0.1 \mu\text{Sv/h}$ to 100 mSv/h or $10 \mu\text{rem/h}$ to 10 rem/h
- calibration accuracy : $\pm 5\%$ of the reading in 137Cs exposure, at 3 mSv/h ,
 $+20^\circ\text{C}$ (68°F)
- energy response : $\pm 30\%$ over the range of 48 keV - 1.3 MeV
- angular response : $\pm 25\%$ within $\pm 45\%$ from the calibration direction at 48 keV
- dose measurement range : from $0.01 \mu\text{Sv}$ to 1 Sv or from $1 \mu\text{rem}$ to 100 rem
- dose rate follow-up by audible signal with frequency proportional to dose rate
- visual and audible alarm : user settable for dose and dose rate over the whole
measurement range
- histogram capability of up to 480 dose rate values with user settable logging interval
- backlit display with six large digits
- display in either $\mu\text{Sv/h}$ or in mrem/h

Product code 04.06.01





Electronic Personal Dosimeter, X-ray & Gamma

The DMC 3000 Personal Electronic Dosimeter has a rugged, high impact polycarbonate-ABS case, is small, lightweight, and is cost effective personal radiation monitoring device.

Display dose: 1 μ Sv to 10 Sv (0.1 mrem to 1000 rem)
Display rate: 10 μ Sv/h to 10 Sv/h (1 mrem/h to 1000 rem/h)
or 1 μ Sv/h to 10 Sv/h (0.1 mrem/h to 1000 rem/h)
extended option.

Product code 04.07.00

Dose Rate Alarm Lamp GWL 10m

Kind of radiation: gamma radiation / X-rays (DC installations)
Detector: energy compensated GM tube
Measuring: ambient dose rate equivalent $\dot{H}^*(10)$
Alarm thresholds: 7.5 μ Sv/h, 25 μ Sv/h, 1 mSv/h, 10 mSv/h
Acoustic alarm: > 93 dB(A) measured in 30 cm distance,
can be switched off
Energy range: 40 keV up to 1.3 MeV
Temperature range: -30°C up to +60°C
Power supply: accumulator (operating time with fully charged
accumulator approx. 48 hours, without acoustic alarm)
Housing: aluminium combined with high impact plastic,
protection class IP65
Dimensions/Weight: (120 × 120 × 250) mm 2300 g (with accumulator)

Product code 04.08.00

RAD ALERT

The Radiation Alert® line of radiation area monitors protects your personnel and your facility.

The base controller unit includes a Touch Screen LCD, latching, siren light and strobe. Internal or external radiation probes are available for most models, with Geiger Muller or Sodium Iodide Probe options.

A rugged, wall mount enclosure option is available for portal monitoring and high traffic areas to protect the sensor while on duty.

RANGE OPTIONS:

AM-7149: 0.2 - 16,000 mR/hr (2.0 - 160,000 μ Sv/ hr)
Using an Internally Mounted LND 7149 Energy Compensated GM
Detector. External mounting also available
AM-7128: 15 μ R/hr – 200 mR/hr (0.2 - 2000 μ Sv/ hr) Using an Internally Mounted LND 7128
Energy Compensated GM Detector. External mounting also available
AM-71313: 0.1 to 1500 mR/hr (0.5 - 15,000 μ Sv/ hr) Using an Internally Mounted LND 71313 Energy Compensated GM
Detector. External mounting also available
AM-1X1NAI: 1 μ R/hr to 500 mR/hr (0 μ Sv/hr – 5 mSv/hr) Using an Externally Mounted 1X1 NaI(Tl) Scintillation Probe
AM-2X2NaI: 0.1 μ R/hr to 75 mR/hr (0 – 750 μ Sv/hr) Using an Externally Mounted 2X2 NaI(Tl) Scintillation Probe

MAX CABLE LENGTHS: GM Probes - 100ft, Scintillation Probes - 50ft

TOUCH SCREEN DISPLAY: 5-digit 4.3 inch TFT 480x272 touch screen LED display

BASE DISPLAY UNITS: Can display in μ R/hr, mR/hr, μ Sv/hr, mSv/hr, cpm, Kcpm, cps, and Kcp

FEATURES: RESPONSE: Varies automatically from 20 seconds to 2 seconds

INDICATORS: Ultra-Bright Strobe and Audible Alarm Can trigger up to three relays with DB-9 serial connection USB
VCP for computer data logging, which can also be used to control the unit with use of remote software
for alarm indication and acknowledgment (Silence by remote)

ETHERNET: 10 Base-T connection for use with remote software for alarm indication and acknowledgment (Silence
by remote)

CALIBRATION CONTROLS: Functions accessible through touch screen push button under calibration cover enables secure access
to changing settings

HIGH VOLTAGE: User adjustable from 200 to 1200 volts

DEAD TIME: User adjustable to compensate for dead time of the detector and electronics





POWER: 12 VDC (110/220) wall mount adapter with four sets of international adapters for almost any style wall receptacle

BATTERY LIFE: Typically 7.5 hours in non-alarm condition; 6 hours in alarm condition

BATTERY CHARGER: Battery is continuously trickle charged when the instrument is connected to line power and turned on

CONSTRUCTION: Easy mount steel enclosure

TEMPERATURE RANGE: -10 to 60 °C (14 to 140 °F)

SIZE: 16.2 x 26.6 x 5.3 cm (6.4 x 10.5 x 2.1 in.)

WEIGHT: 84.8 oz (5.3lbs) Without Probe and Cable

INCLUDES: Management software for use with networked area monitors , Base Unit, Power Supply, CD with Software and Operation Manual, Mounting Clips (External Versions Only), C to C Cable (External Versions Only).

Product code 04.09.00



MOBILE DARKROOM

This radiographic processing film darkroom is designed to be used in countries with strong climatic variations. It is fixed on the rear chassis of an all-purpose vehicle.

This device enables technicians to have the laboratory near to the working site.

Product code 14.01.00



STATIONARY DARKROOM

This radiographic processing film darkroom is designed to be used in countries with strong climatic variations.

It is fixed on skids and is made of 3 rooms : darkroom, drying and desk areas.

Product code 14.02.00



Weld Measuring Gauges

Adjustable Sizes

Medium Size Tool Kit

- V-WAC Gage*,
- Magnifier,
- AWS Type Gauge*,
- Hi-Lo Gauge,
- Micrometer w/ Ball*,
- Telescoping Mirror & 6" SPI Scale*

(*) Measurement Scale: Inch or Metric

Product code 18.01.00



American Welding Society (AWS) Tool Kit

- 0-150mm Dial Caliper,
- 6" Scale w/ Clip,
- 0-1" Micrometer,
- 2" Reading Glass,
- 7 Piece Fillet Weld Set,
- V-WAC Gauge* & AWS Type Gauge*

(*) Measurement Scale: Inch or Metric

Product code 18.02.00



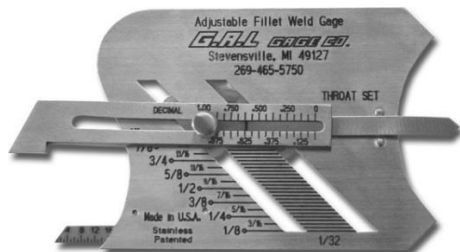
Brief Case Type Large Tool Kit/Lock & Key

- V-WAC Gauge*
- Fillet Weld
- WTPS Gauge
- Bridge Cam
- Single Purpose*
- 6" SPI Scale*
- Telescoping Mirror
- Micrometer w/ Ball*
- Hi-Lo Gauge
- Skew-T Fillet Weld w/ Calc
- AWS Type Gauge*
- ADJ Fillet Weld*
- Magnifier

Product code 18.03.00



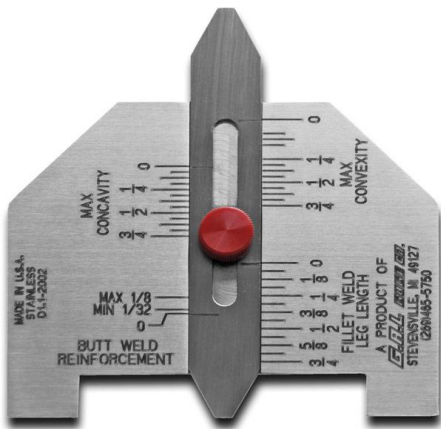
Adjustable Fillet Weld Gauge



Measure Fillet Weld & Weld Throat Thickness, Available in Inch or Metric

Product code 18.04.00

Automatic Weld Size Weld Gauge



For Accurate Calibration of Butt Fillet Type Welds, Available in Inch or Metric

Product code 18.05.00

Bridge Cam Gauge



The following measurements are possible in either inches or millimeters: Angle of Preparation, Excess Weld Metal, Depth of Undercut, Depth of Pitting, Weld Throat Size, and more.

Product code 18.06.00

Economy Single Purpose Hi-Lo Welding Gauge



Eliminates Rejects - Improves Productivity, Available in Inch or Metric

Product code 18.07.00

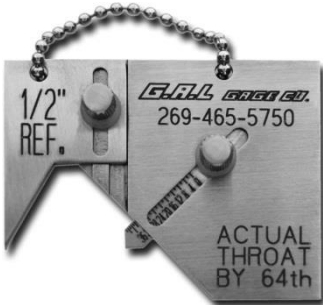
HI-LO Welding Gauge



Measures Internal Alignment, New Slim Design Is 30% Lighter

Product code 18.08.00

"Mini Sub" Socket Weld Gauge



Check Throat Dimensions, Checks All Pipe Schedule, All Stainless Steel

Product code 18.09.00

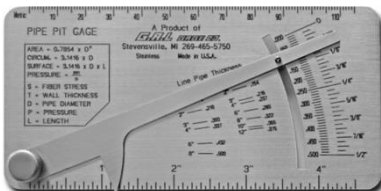
Pit Depth Gauge



Undercuts/Pits to 1/2 Inch by 1/32 Inch Increments. Check Undercuts/Pits, Porosity, All Stainless Steel.

Product code 18.10.00

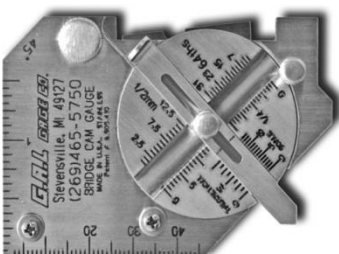
Pipe Pit Gauge



Range is 0 to 1/2" in 1/64" & .010 Increments, Arm Can be Locked in Place at Any Dimension, All Stainless Steel, Available in Inch or Metric

Product code 18.11.00

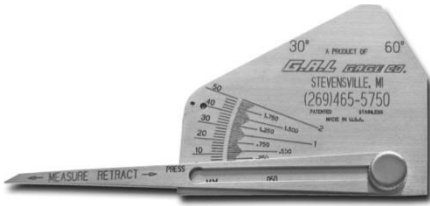
Pocket Bridge Cam Gauge



Check Angle of Preparation, Excess Weld Metal, Depth of Undercut, Depth of Pitting, and more.

Product code 18.12.00

Skew-T Fillet Weld Gauge



Check Angle of Vertical Member, Weld Acute Side, Weld Obtuse Side, Available in Inch or Metric

Product code 18.13.00

"V-WAC" Single Weld Gauge



Undercuts/Pits to 1/4 Inch, Crowns to 1/4 Inch by 1/64 Inch Increments (Tolerance .006"). Check Undercuts/Pits, Porosity, Crowns, All Stainless Steel.

Product code 18.14.00

"V-WAC" Single Weld Gauge



Undercuts/Pits to 0.240, Crowns to 0.240 by 0.020 Increments. Check Undercuts/Pits, Porosity, Crowns, All Stainless Steel.

Product code 18.15.00

"V-WAC" Single Weld Gauge



Undercuts/Pits to 6mm, Crowns to 6mm by 0.5mm Increments. Check Undercuts/Pits, Porosity, Crowns, All Stainless Steel.

Product code 18.16.00

Pit Gauge



Undercuts/Pits to 0-2mm by 0.2mm Increments. Check Undercuts/Pits, All Stainless Steel.

Product code 18.17.00

Pit Gauge



Undercuts/Pits to 0.08", Crowns to 0.04" by 0.005" Increments. Check Undercuts/Pits, Crowns, All Stainless Steel.

Product code 18.18.00

NDT Demonstration Kit (Demo Kit)

The flaws in these specimens can be examined by several different NDT methods to demonstrate the advantages and disadvantages of each NDT method.

Material: Carbon Steel

Kit Spec: 5 specimens

◦MT/PT (1) Tee @ 0.25”T x 4” x 8” x 4”

◦VT (1) Plate @ 0.25”T x 4” x 8”

◦UT (1) Plate @ 0.625”T x 4” x 8”

◦RT (1) Pipe 4” Sch80 (0.337” wall) x 8” & (1) Plate @ 0.625”T x 4” x 8”

Flaws : 2 each in plates and tee, 3 in pipe, 11 total

Doc Pack: Includes C of C, CAD Drawings, RT Film & Test Sheets

Product code 19.01.00

Standard RT Kit (Radiographic Testing)

Material: Carbon Steel

Kit Spec: 10 Specimens

◦(5) Plates @ 0.375”T

◦(3) Plates @ 0.625”T

◦(1) Tee @ 0.375”T

◦(1) Pipe @ 4” Sch80 (0.337” wall)

Flaws: 2 each specimen, 20 total

Doc Pack: Includes C of C, CAD Drawings, Test Sheets & Radiographs

Product code 19.02.00

Reference Radiograph Set

Film Set Contains: 16 Radiographs of 20 "Real Flaws"

plus ~6 Processing Defects

Radiographs are of 10 carbon steel specimens as follows:

◦(4) Plates @ 0.375”T

◦(3) Plates @ 0.625”T

◦(1) Tee @ 0.375”T

◦(2) Pipe @ 4” Sch80 (0.337” wall)

Product code 19.03.00

Standard UT Kit (Ultrasonic Testing)

Material: Carbon Steel

Kit Spec: 10 Specimens

◦(4) Plates @ 0.375”T

◦(4) Plates @ 0.625”T

◦(1) Tee @ 0.375”T

◦(1) Pipe @ 4” Sch80 (0.337” wall)

Flaws: 2 each specimen, 20 total

Doc Pack: Includes C of C, CAD Drawings and Test Sheets

Product code 19.04.00





VACUUM DEVICES FOR LEAK TESTING

The vacuum boxes are designed to be used with a compressed air source. Maximum efficiency is achieved with only 4 cubic feet per minute of air flow. This efficiency allows our boxes to operate on jobsite air or with portable air compressors powered by electric current.

Model: 30 FB

Flat bottom box for testing lap joint welds of 3/8" plate on flat surfaces
Operates using compressed air
Outside Dimensions: 30"L x 7"W x 1 5/8"H
Viewing Area: 26 7/8"L x 4"W

Product code 20.01.00

Model: 18 CB

Corner vacuum boxes are specifically designed for testing the inside corner, where the bottom meets the sidewall at 90 degrees.
Operates using compressed air.
Outside Dimensions: 18"L x 5 1/4"W x 5 1/4"H
Viewing Area: 15"L x 2 7/8"W

Product code 20.02.00

Model: 20FB

Flat bottom box for testing butt welds on flat surfaces
Operates using compressed air.
Outside Dimensions: 20"L x 7 "W x 1 5/8"H
Viewing Area: 16 7/8"L x 4 "W

Product code 20.03.00

Model: 40 CB

Corner vacuum boxes are specifically designed for testing the inside corner, where the bottom meets the sidewall at 90 degrees.
Operates using compressed air.
Outside Dimensions: 40"L x 5 1/4"W x 5 1/4"H
Viewing Area: 37"L x 2 7/8"W

Product code 20.04.00

Model: 30 CB

Corner vacuum boxes are specifically designed for testing the inside corner, where the bottom meets the sidewall at 90 degrees.
Operates using compressed air.
Outside Dimensions: 30"L x 5 1/4"W x 5 1/4"H
Viewing Area: 27"L x 2 7/8"W

Product code 20.05.00

Vacuum Box Accessories

Replacement Gasket

The replacement for the original gasket attached to the vacuum box.

Gaskets are the highest quality material with the proper softness for an easy seal, yet durable enough to last for multiple uses. Replacement of the old gasket requires its removal. The surface is cleaned of the old material as much as possible. Contact cement is then applied to the surface of the replacement gasket and to the surface of the vacuum box. When tacky, the replacement gasket is applied to the box. Care must be taken when applying the replacement gasket as there is no opportunity for adjustment.

Air Hose

3/8" x 50' air hose
Made in USA by Goodyear
Oil resistant
1/4" male threaded ends

Product code 20.06.00





Gauge

Replacement vacuum gauge.

Measurement range: 0 - 30 inches of mercury.

1/4" NPT threaded connection

Conversion: Pressure (inches of mercury)

= 2.03602 x Pressure (psi)

Accuracy ASME B40.1 standard (grade B) (3-2-3%).

Product code 20.07.00



Venturi

Replacement compressed air venturi.

4cfm air flow required for maximum effectiveness.

No moving parts for long term mechanical reliability.

The venturi comes with a removable sound suppressor (plastic piece on end of exhaust).

Product code 20.08.00



MAGNETIC PARTICLE INPECTION & PENETRANT TESTING



PENETRANT TESTING INPECTION

FLUXO P125

Red Dye penetrant

Sensitivity 2

Spray can 500ml -300ml- drum

Product code 16.01.00

FLUXO R175

Developer

Spray can 500ml -300ml- drum

Product code 16.02.00

FLUXO S190

Solvent remover

Spray can 500ml -300ml- drum

Product code 16.03.00

FLUXO P578

Fluorescent penetrant

Sensitivity 2

Spray can 500ml

Product code 16.04.00

FLUXO N130

Penetrant remover

Spray can 500ml

Product code 16.05.00

MAGNETIC PARTICLE INPECTION

FLUXO 3

Black magnetic ink

Spray can 500mL – drum

Product code 16.06.00

FLUXO 7

White contrast Paint

Spray can 500ml

Product code 16.07.00

FLUXO 4

White contrast Paint

Spray can 500mL – drum

Product code 16.08.00

FLUXO 5

White contrast Paint remover

Spray can 500mL

Product code 16.09.00

FLUXO 6

Fluorescent magnetic ink

Spray can 500mL – drum

Product code 16.10.00

Y2 AC ELECTRO-MAGNETIC YOKE

The Y-2 is an AC electromagnetic yoke, ergonomically designed to improve productivity and reduce operator arm and wrist fatigue.

- 230 Volt 50/60 Hz
- Weight: 2.2kg

Product code 16.22.00

Y6 ELECTRO-MAGNETIC YOKE **Discontinued**

The Y6 is a lightweight encapsulated AC yoke designed for reliable, one-person detection of surface indications. Its articulated legs make it ideal for inspecting components of different geometries.

Product code 16.22.01

Y7 AC/DC ELECTRO-MAGNETIC YOKE

The Y7 Yoke offers either a constant AC field to reveal surface defects or a pulsed DC field for revealing both surface and near-surface defects. Designed for one-person portable inspection, its articulated legs contour to any part shape to assure good contact

Product code 16.22.02

PM-6 PERMANENT MAGNET

The PM-6 is a portable, lightweight, state-of-the art magnetic particle testing device for reliable one-man inspection. The PM-6 Permanent Magnet Yoke operates anywhere and needs no external power source and it is spark-proof for tests in "red" fire or explosive zones.

Product code 16.23.00

YM-5 Yoke **Discontinued**

Permanent magnet adjustable arms. 3 Kg mass breakout force greater than 18 daN. Height of the handle at the end of the poles, 177 mm. For magnetic particle inspection on site (MPI).

DIMENSIONS

Handle Length: 200mm

Height: 177mm handle to leg tip

Poles: 35mm

Weight-Yoke: 3.02 Kg

Weight-With Keeper: 3.34 Kg

Product code 16.24.00



ULTRASONIC FLAW DETECTOR

Digital Ultrasonic Flaw Detect

ECHOGRAPH 1095

High-tech meets comfort: Ultrasonic Testing made simple

Besides the proven qualities of its predecessor model the new ultrasonic flaw detector ECHOGRAPH 1095 features time corrected gain and backwall echo attenuation. It is the ideal instrument for manual ultrasonic testing: digital, high-contrast and comfortable in practical applications. It is reliable and sturdy and thus can be used outdoors or in rough industry environment.

- is lightweight (only 2 kg) and easy to handle
- is equipped with a very large and high-contrast TFT colour display (7" diagonal, resolution 800 x 480 pix) with automatic brightness control and a large viewing angle
- guides the user safely and self-explanatorily through the applications by means of its plain text menu
- ensures extremely simple and complete adjustment with its user guidance
- supports the operator during probe handling and instrument adjustment (DAC, TCG, AWS, DGS, JIS, ...)
- offers direct access to all important key functions
- displays up to 6 measured values in large digits
- is equipped with 3 monitors to measure amplitude and time-of-flight, as well as 3 associated control lamps on the front panel for monitoring threshold values
- enables to show reference echoes and to record echo dynamics
- enables simple freezing and storing of A-scans
- allows to move all 3 monitor gates in "freeze" mode and recalculates the displayed measured values accordingly
- comes with a convenient text editor which enables the storage of each data set with an individual file name
- contains a probe data base for easy entering of probe data, even for third-party probes
- displays all functions in plain text on the screen, in addition to the 6 function keys
- permits selection of the pulse repetition frequency (PRF) from 10 Hz up to 5000 Hz:
 - low PRF to avoid ghost echoes, and high PRF for high testing speed in case of automated testing
- saves all data, e.g. screenshots as BMP files or series of measurements as CSV files, on a removable 8 GB SD flash card
- evaluates the time-of-flight between transmitter pulse and an echo within the monitor gate
- measures the wall thickness between echoes of two monitors, either between echo peaks, edges or zero crossings
- provides 0.01 mm indication accuracy in echoecho-mode
- allows evaluation also on curved surfaces (e.g. pipes)
- provides a VGA output for external monitors
- is delivered with a colour rubber protective holster to avoid sliding and for additional protection
- offers a separate adjustable gain in the third monitor, e.g. for individual backwall echo attenuation
- has an adjustable square pulser with a pulse width automatically adapted to the frequency of the probe when it is loaded, but which can be changed manually as well
- features digital filters for optimal adaption to the probe
- is dust-proof and provides protection against water jets according to IP65



The ECHOGRAPH 1095 available in 4 versions:

1095 Basic - 1095 DAC/TCG/AWS - 1095 AVG/DAC/TCG - 1095 AVG/DAC/TCG/AWS/JIS **Product code 17.15.00**

A-Scan ECHOMETER 1077 Portable and Multichannel Rack Version

Measurement Of Wall Thickness And Sound Velocity

Display TFT colour display, 320 px x 240 px, 50 mm x 37 mm approx., illuminated

Measurands Wall thickness, sound velocity, transit time

Measurement uncertainty of gauge for wall thickness measurement (resolution):

* 0.1 mm, 0.01 mm, 0.001 mm, 0.0001 Inch, 0.001 μ s (selectable)

Measurement uncertainty of gauge for sound velocity measurement (resolution):

1 m/s, 0.1 m/s and 1 Inch/s (selectable)

Ranges for wall thickness measurement: 0.25 mm .. 450 mm (depending on probe)

Measurement uncertainty (gauge) in mm: 0.001 mm (may be limited by application)

Measurement uncertainty (gauge) in Inch: 0.001 Inch (may be limited by application)

Product code 17.16.00



Ultrasonic Flaw Detector

EPOCH 600

The EPOCH 600 is mid-level, handheld ultrasonic flaw detector. Weighing only 1.68 kg (3.72 lb.), its horizontal case is built to withstand the rigors of very harsh environments

- Designed to meet the requirements of EN12668-1
- Perfect Square™ tuneable square wave pulser
- Digital high dynamic range receiver
- Eight digital filters for enhanced signal-to-noise ratio
- 2 kHz PRF for rapid scanning
- Knob or navigation pad adjustment configurations
- Large, full VGA sunlight readable display
- Long battery life, supporting lithium-ion or alkaline batteries
- Standard dynamic DAC/TVG and on board DGS/AVG
- 2 GB MicroSD memory card for data transfers and storage
- USB On-The-Go (OTG) for PC communication
- Alarm and VGA outputs
- Optional analog output

Product code 17.01.00



EPOCH 650

The EPOCH 650 is designed for use in nearly any inspection environment, from bench top testing in a laboratory to extreme outdoor and hazardous conditions

- Large, full VGA resolution transfective display for vivid clarity in any indoor lighting and direct sunlight conditions
- Rubber overmolded bumpers on all four corners for shock absorption and anti-marring considerations
- Four-point harness connection for chest straps
- "No tools" access to battery compartment and side I/O door
- Continuous position stand with right angle crook for improved stability from 0 to 180 degrees
- Gasketed side door for USB OTG connection and removable memory
- Standard internal, rechargeable lithium-ion battery
- Lightweight, ergonomic design for increased portability and ease of use

Product code 17.02.00



OmniScan MX2

Modular Instrument

A Platform that Evolves as your Needs Grow

Designed to secure both your current and future phased array investments, the OmniScan MX2 houses more than 10 different Olympus modules.

State of the Art PA2 and UT2 Modules

As a world leader in phased array technology,

Olympus has released a new line of modules compatible with MX2 instrument.

PA2

The new phased array offer-led by the new innovative PA2 modules, features multiple improvements, such as:
Best Phased Array and TOFD Signal Quality Ever
Better signal-to-noise ratio

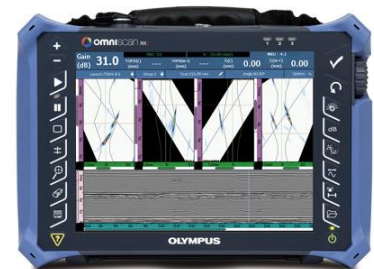
More powerful pulsers

64 pure gray tone

More Multi-group Capabilities

Ability to use PA and UT channels simultaneously

UT2 TOFD Module and MXU Software



The new OmniScan MX2 UT2 module from Olympus represents a powerful, yet affordable solution for TOFD inspection.

Product code 17.03.00

Ultrasonic Transducers

Atlas European Standard Transducers feature LEMO connectors, metric unit element diameters, and common frequencies, such as 1, 2, and 4 MHz. They are designed to meet inspection criteria referenced throughout Europe and the rest of the world.

Product code 17.04.00

Test Blocks

Calibration and/or Reference Blocks should be used in every application.

Product code 17.05.00

Ultrasonic Transducers Transducers & Wedges

- The single crystal range of shear wave transducers are available in various angle sizes.

- Phoenix developed the gold series transducer range to offer superior performance. Available with a stainless steel case, modified internal design and rear entry connectors, gold series transducers provide exceptional results.

- Twin crystal shear wave transducers hold two crystals mounted at inward angles that provide improved near-surface resolution and superior signal-to-noise ratio.

Compression Wave Transducers

- Single crystal compression wave probes are used to measure thickness and detect flaws on plates, bars, forgings and castings.

- Twin crystal compression wave probes are suitable for use on corroded and pitted surfaces, thickness measurement, brazed joint testing and for lamination detecting. High gain and resolution are achieved with a very low cross-talk.

Thickness Gages

27MG

The 27MG is a basic ultrasonic thickness gage designed to make accurate measurements from one side on internally corroded or eroded metal pipes and parts.

Product code 17.06.00

38DL PLUS

The versatile 38DL PLUS can be used with dual element transducers for the measurement of corroded pipes to the very precise thickness measurements of thin or multilayer materials with a single element transducer.

Product code 17.07.00

45MG

The 45MG is an advanced ultrasonic thickness gage packed with standard measurement features and software options.

This unique instrument is compatible with the complete range of Olympus dual element and single element thickness gage transducers.

Product code 17.08.00



UT5000 Thickness Gauge ATEX & IECEx Certified

UT5000 Intrinsically Safe thickness gauge with CorDEX CONNECT™ measures metal thickness for Non-Destructive Testing (NDT) and Predictive Maintenance (Pdm) on pipelines and fixed equipment within hazardous locations.

ATEX Certificate No.	Baseefa11ATEX0114
IECEx Certificate No.	IECEx BAS 11.0094
Memory	Stores up to 1000 measurements
Screen	8cm (3.1inch) RGB TFT colour screen with backlight Right/left handed set up
Material Velocity Selection	Preloaded via Drop-Down menu, or user defined.
Transducer	Dual Element
Pulse Rate	Standard transmit pulse rate of 4Hz
Adjustable from single shot	up to 8Hz
Receiver Bandwidth	1MHz to 15MHz (-3dB points)
Frequency	4MHz, 3mm up to 100mm (0.01in to 3.9in)
Accuracy	+/- 0.05mm (0.01in) RFID Tag Reader

- Operates with 13.54MHz passive tags
- Detection range up to 5cm (1.9in)
- Supports ISO/IEC 15693-2, ISO/IEC 18000-3 tag formats
- Lithium thionyl chloride primary 3.6V cell
- 100 hours continuous operation with back light restrictions
- Low battery warning

Operating Temperature	-10 to +50C (14° F to 122° F)
Weight	1.1Kg (2.4lb)

Product code 17.09.00

Ultrasonic Thickness Gauge Multigaue 5500

The Multigaue 5500 has been designed for hands free use when climbing on staging, ladders, scaffolding or when accessing by rope. Whether it's onboard a ship, on large storage tanks, climbing on top of a road tanker or inspecting underneath a bridge, the 5500 will make the job much easier.

- Ignores coatings up to 6 mm thick using Multiple Echo.

Coating Plus+ ignores coatings up to 20 mm.

- Automatic Measurement Verification System (AMVS).
- Mounts onto waist belt or chest harness for hands free use.
- No zeroing required.
- Single crystal soft faced probe protected by a membrane.
- Easy calibration with menu driven buttons.
- Intelligent Probe Recognition (IPR).
- Echo strength indicator.

Resolution	0.1 mm (0.005") or 0.05 mm (0.002")
Accuracy	± 0.1 mm (0.005") or ± 0.05 mm (0.002")
Coatings Range	Up to 6mm (Standard Mode)*; up to 20mm (Coating Plus+)*
Display	Red 4 character 7 segment LED
Batteries	3 x disposable AA alkaline batteries or rechargeable NiMH / NiCD
Battery Life	Up to 50 hours continuous use using alkaline batteries
Dimensions	147 mm x 90 mm x 28 mm (5.75" X 3.5" X 1")
Weight	320 g (11.3 ounces) including batteries
Environmental	Case rated to IP65. RoHS and WEEE compliant
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Storage Temperature	-10°C to +60°C (14°F to 140°F)

The Multigaue 5500 has been manufactured to comply with British Standard BS EN 15317:2007, which covers the characterization and verification of ultrasonic thickness measuring equipment.

Product code 17.11.00



Portable EMAT thickness gauge

The gauge enables measurements to be taken at a vast range of surface temperatures, going from -20 to +720 degrees Celsius.

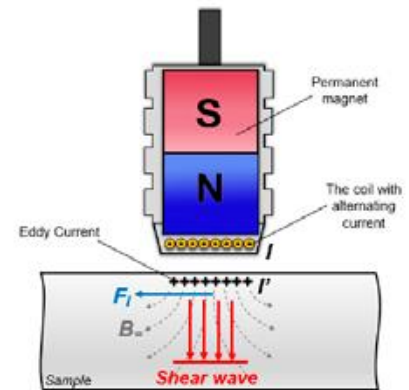
A convenient, compact, sophisticated and innovative field instrument, the EMAT Wall Thickness gauge «UltraSonic» can be used to easily yet precisely measure the thickness of components, pipes, vessels and other metal objects.

Weight of the device (with batteries)	1430 g
Weight of transducer	178 g
Overall dimensions (LxWxH)	274x168x36 mm
Power supply:	replaceable batteries (AA type, 8 pieces)
Operation time at a brightness of 50%	12 hours
(using belt with additional external power supply unit)	40 hours
Temperature range whilst in operation	- 10°C up to +50°C
Temperature range of the test object (in basic design)	- 20°C up to +720°C*
Measurement unit	millimeter
Measurement range	1.5 – 100 mm
Precision	0.01 mm
Accuracy	0.001 mm
Distance from test object up to	4 mm**
Transmission rate	4 MHz
Type of ultrasonic wave	transversal
Gain	80dB
Dead band at 4 MHz	max. 4 µs
Pulse Repetition Frequency (PRF) at least	150 Hz
Hz ultrasonic speed	1000-9999 m/sec
NVRAM	1 MB
Sampling rate	40 MHz
4.3" colour TFT screen with adjustable lighting	480x272 Pixel

* Depending on transducer and time measured

** Depending on the surface coating and probe specifications

Product code 17.10.00



Hardness Testing

Equotip 550 Leeb

Rebound Hardness Test

The Equotip 550 is the most versatile all-in-one solution for portable hardness testing. The Leeb hardness principle is based on the dynamic (rebound) method and is best suited for on-site testing of heavy, large or already installed parts.

Equotip Leeb

Automatic conversions to all common hardness

scales (HV, HB, HRC, HRB, HRA, HS, Rm) as required

Highly accurate ± 4 HL (0.5% at 800 HL) with automatic correction for impact directions

Wide measurement range with a variety of impact devices and support rings to serve most hardness testing requirements

Extensive range of precise hardness test blocks available for each impact device with different hardness levels for regular verification

Product code 24.01.00



Metal Hardness Tester

Equotip Bambino 2

The Equotip Bambino 2 is a handy measuring device for an easy metal hardness test on most diverse part geometries.

It combines modern electronics with a patented impact device that integrates the test cycle into one simple motion.

Product code 24.02.00



Portable Metal Hardness Test

Equotip Piccolo 2

The revolutionary portable metal hardness test of the Equotip Piccolo 2 convinces with precise measurements on most metals.

It offers the same features as the Equotip Bambino 2 but also allows user defined hardness conversions, free Piccolink software for systematic real time monitoring of hardness, automated portable metal hardness test during serial production and full remote control of the Equotip Piccolo 2 settings.

With this instrument for the portable metal hardness test customers can enjoy full bi-directional communication via USB interface and free online firmware updates.

Product code 24.03.00



Leeb Hardness Tester HM-6561

Technical Specifications

Display:	12.5mm LCD with back light
Accuracy:	Display error $\pm 0.8\%$ at LD=900
Measuring range:	200-900L
Conversion:	HL-HRC-HRB-HB-HV-HSD
Materials:	9 different common materials With RS232C interface
Memory:	250 data can be stored and re-readable
Impact device:	D Will handle the majority of hardness testing
applications.	Weight: 75g
Power supply:	2x1.5V AAA size battery
Dimension:	146x65x36mm
Weight:	130g (not including batteries)
Working temperature :	- 10°C/+50°C

Product code 24.10.00



SPECTRO xSORT

Handheld XRF Analyzer Delivers Improved Speed, Precision in Analysis of Light Elements

The design, performance, and simple operation of the SPECTRO xSORT handheld spectrometer make it ideal for performing positive material identification (PMI) for infrastructure integrity testing at refineries, power plants, and petrochemical complexes — as well as scrap metal analysis and sorting in the recycling industry.

The SPECTRO xSORT Alloy model delivers grade identification in seconds.

The even more powerful SPECTRO xSORT AlloyPlus analyzes most alloys in 2 seconds, and identifies alloys based on light elements such as aluminum, magnesium, silicon, phosphorus, and sulfur in 7 seconds. Advantages include:

- Ease of Use: With SPECTRO xSORT, operators don't have to switch methods between samples, or bother with helium flushes or vacuum systems. Its compact, one-piece 1.64 kg (3.62 lb) design is optimized for easy use in the field, even in tight or less accessible spots.
- Built-In Protection and Calibration: A shutter that automatically closes the measurement window between analyses — to protect internal components — also functions as the sample material for unique, automatic iCAL standardization. All calibrations loaded into SPECTRO xSORT are always ready for use.

Additional features include an X-ray safety gasket to prevent backscatter radiation from light element matrix samples; wireless LAN; quick-change battery; interface bezel with operator-defined hot keys; "live" analysis results; simplified software with touchscreen; and the SPECTRO iCAL one-sample, one-time easy automated calibration system. Options include an integrated GPS receiver and integrated video camera. The new SPECTRO xSORT analyzer is available in different models. The SPECTRO xSORT Alloy employs an innovative silicon PIN (Si-PIN) detector and delivers grade identification of metals in seconds without extensive analysis.

The SPECTRO xSORT AlloyPlus (Combi) features a top-of-the-line silicon drift detector (SDD) and provides reliable, high-productivity measurement and analysis.

Product code 26.01.00



Lifting Equipment

The Handifor

The Handifor electronic mini weighing Scale is perfect for weighing and measuring loads up to 200kg.

Built to a robust specification, the innovative and compact design of the Handifor makes it easy to operate and store

- Operating life batteries 100h
- Lightweight (ONLY 220g)
- 2x AAA batteries
- The Units can be easily adjusted via the featured 'soft key pad'
- Large Displays IP40
- Accuracy +/-0.5% From 20 up to 200kg
----- Please specify when ordering! - -
- Rugged, lightweight & compact

Product code 25.01.00

The dynafor LLX1

The dynafor LLX1 dynamometers are precision force sensors used to measure forces and indicate loads. The shape of this model allows the use of standard shackles on both ends. The dynamometers of this range function in all positions for the measurement of force & suspended for weighing.

Model	Precision (daN)	Increment (kg)	Weight (kg)
LLX1 0.5T	0.2	1.1	1.1
LLX1 1T	0.5	1.1	1.1
LLX1 2T	1	1.3	1.3
LLX1 3.2T	1	1.5	1.5
LLX1 5T	2	2.3	2.3
LLX1 6.3T	2	2.3	2.3
LLX1 12.5T	5	4.3	4.3
LLX1 20T	10	7	7

Product code 25.02.00

Dynafor LLZ

Dynafor LLZ range of electronic dynamometer load cell with digital display for pulling and lifting applications. Using strain gauge sensor the LLZ models are designed for use between shackles or brackets. These units operate in all positions for forces measurement and vertically for load checking and measurement.

Features:



- 0.25 - 20Tonnes
- Capable of displaying a wide range of units (kg, T, daN kN, lbs)
- Accuracy : 0.8% of capacity
- Coefficient of utilisation : more than 6
- Built in Liquid crystal display (LCD) : 5 digits 18 mm high
- Offers the 'Tare' function
- Ambient temperature range : -10°C to +40°C
- Weatherproof and dustproof in accordance with EN 60 529 : IP65
- Body in painted aluminium alloy
- Power supply : 3 x 1.5 V, AA or R6 (diameter 14 x 50 mm).
- Battery life (using 2000 mAh batteries) 850 hours approx.
- Meets IP65 & is fine to use in severe weather



Product code 25.03.00

Yale Tigrip Crane Weigher TZR (0-100 Tonnes)

The new generation of Load Indicators designed and manufactured by industry experts, Yale. These are quality and extremely compact handheld units perfectly engineered for the weighing of loads ranging from 0 to 100 Tonnes depending on the model chosen.



The 'TZL' unit is the standard unit featuring a digital display. The TZR model is exactly the same however comes delivered with a remote control.

Model: TZR 1.0 - TZR 2.5 - TZR 5.0 - TZR 10.0 - TZR 20.0 - TZR 35.0 - TZR 50.0 - TZR 100

Product code 25.04.00

Hydraulic Adhesion Tester

The Hydraulic Adhesion Tester is an extremely versatile Type III adhesion gauge which can be used for many adhesion requirements. Tests can be made on flat or curved (concave and convex) surfaces. The Adhesion Tester is the ideal gauge for coatings on Tanks, Pipelines, etc.

- Hand-Powered and portable
- Ideal for site work
- Reusable stainless steel dollies

Digital Adhesion Gauge features:

- Maximum hold - displays the highest value reached
- Backlit display for dark areas
- Rubber protective casing
- Switchable Metric/Imperial

The Adhesion Tester can be used with convex and concave dollies, making this the gauge for adhesion of coatings on all pipelines including those with small diameter, tanks and other curved surfaces. There is a wide range of curved dollies available, each designed for a specific range of curvature.

Product code 25.05.00



All goods are sold subject to terms and conditions of IPSI.

A copy of these terms and conditions is available upon request.

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