



Product Catalogue



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Useful Information

A full set of accessories for portable projectors consists of:

- Remote Control
- Guide Tube and Extension Tube
- Guide Tube Connector (and Transition Fit, if applicable)
- Source Terminal
- Link Type Sourceholder
- Go/No-Go Gauge for Sourceholder and Ball Pin
- Source (see specific price)
- Transport Box or Transport Trolley (optional)
- Collimators (optional)
- Various Accessories and Radiation Monitoring Equipment (optional)

Source not included

Complete self-propelled isotope crawler equipment consists of:

- Isotope Camera
- Transport Container
- Gammalux M Warning Device
- Command Isotope Unit, Cs-137
- Driving Carriage
- Charger (Carriage and Battery)
- Battery, completely wired (2x)
- Set of Axles and Space Sleeves
- Camera Support and Accessories

Source not included

GammaMat TSI

GammaMat TSI Specifications

Basic Construction Standards

DIN45115 part 4 and ISO 3999:2000
Class P
Category 2

Isotope

Ir-192 in special form
Half-life: 73.8 days

Dose Rate at the Surface

Max. 2 mSv/h

Applicable Temperature Range

-40°C up to +50°C
Exceeding ISO 3999:2000,5.1.4

Overall Dimensions

Length: 350 mm (13³/₄)
Width: 132 mm (5³/₄)
Height: 222 mm (8³/₄)

Material Used

Outer shell: CrNi steel, aluminium casting

Shielding

Depleted uranium max. 0.4% U-235
Specific activity <18.50 MBq/kg

	TSI 3/1	TSI 5/1
Activity	3.00 TBq (80 Ci)	5.00 TBq (135 Ci)
Depleted uranium weight	10.9 kg (24 lb)	13.0 kg (28.4 lb)
Device weight	19 kg	22 kg



21-00360

GammaMat TSI 3/1, 3.00 TBq (80 Ci) Ir-192, Type B(U)
B-89-B(U)-96

or

21-00361

GammaMat TSI 5/1, 5.00 TBq (135 Ci) Ir-192, Type B(U)
B-90-B(U)-96

include the following accessories:

21-00122 Source Holder

21-00069 Guide Tube Connector

23-00022 Go/No Go Gauge for Source Holder and Ball Pin

21-00237 Wrench for Connectors

Specific Accessories



21-00122
Source Holder



21-00069
Guide Tube Connector



21-00237
Wrench for Connectors



21-00112
Fitting for Tripod Stand, TSI

Accessories TI/TSI

Source Terminals



21-00018

Source Terminal 40 Ir, M14 x 1

21-00232

Source Terminal 150 Ir, M14 x 1

21-00248

Source Terminal 300 Ir, M14 x 1

21-00228

Source Terminal 500 Ir, M14 x 1

21-00229

Source Terminal 1000 Ir, M14 x 1

Tungsten Collimators



21-00099

Plug-on Collimator Ir, side emission 90°

21-00100

Plug-on Collimator Ir, side emission 60°

21-00101

Plug-on Collimator Ir, side emission 360°



21-00146

Saddle Collimator Ir



21-00156

Magnet Device for Saddle Collimator Ir, with 2 Pivots (without collimator)

Various Accessories



23-00059

Exposure Calculator for Ir-192



21-00086

Link-type Source Holder, **Series TI**

GammaMat SE

GammaMat SE Specifications

Basic Construction Standards

ISO 3999:2000
Class P
Category 2

Isotope

Se-75
Half-life: 119.78 days

Dose Rate at the Surface

Max. 2 mSv/h

Applicable Temperature Range

-40°C up to +50°C
Exceeding ISO 3999:2000

Overall Dimensions

Length: 220 mm (8.7")
Width: 100 mm (3.9")
Height: 175 mm (6.9")

Material Used

Stainless steel (Cr, Ni, alloy), aluminium casting

Shielding

Depleted uranium max. 0.4% U-235
Specific activity <18.50 MBq/kg

	SE Type A	SE Type B
Activity	3.00 TBq 81 Ci	4.44 Tbq 120 Ci
Depleted uranium weight	2.7 kg (6 lb)	2.7 kg (6 lb)
Device weight	7.2 kg	7.2 kg



21-00362

GammaMat SE, 3.00 TBq (80 Ci) Se-75, Type A

or

21-00363

GammaMat SE, 4.44 TBq (120 Ci) Se-75, Type B(U),
RUS/5373/B(U)-96

include the following accessories:

21-00212 Source Holder

21-00213 Guide Tube Connector

23-00022 Go/No Go Gauge for Source Holder and Ball Pin

Specific Accessories



21-00212
Source Holder



21-00213
Guide Tube Connector

Accessories SE

Source Terminals



21-00216

Source Terminal 45 Se, M18 x 1.5

21-00218

Source Terminal 120 Se, M18 x 1.5

21-00201

Source Terminal 300 Se, M18 x 1.5

21-00215

Source Terminal 500 Se, M18 x 1.5

21-00198

Source Terminal 1000 Se, M18 x 1.5



21-00225

Source Terminal 45 Se, M14 x 1

21-00210

Source Terminal 120 Se, M14 x 1

21-00217

Source Terminal 300 Se, M14 x 1

21-00195

Source Terminal 500 Se, M14 x 1.5

21-00197

Source Terminal 1000 Se, M14 x 1.5

Tungsten Collimators



21-00222

Plug-on Collimator Se,
side emission 90°

21-00223

Plug-on Collimator Se,
side emission 60°

21-00224

Plug-on Collimator Se,
side emission 360°

Various Accessories



21-00209

Fitting for Tripod Stand, SE

Accessories TK

Tungsten Collimators



21-00020
Collimator TK30/100 panoramic

21-00021
Collimator TK30/100, forward emission 90°

21-00032
Collimator TK30/100 side emission 90°



21-00023
Collimator Fork TK30/100



21-00017
Complete Collimator TK30/100 forward emission 90°
Requires additional Connector No. 21-00069



21-00159
Collimator Fork TK30/100



23-00040
Tripod Stand for Collimator Fork, TK30/100

Link Type Source Holders



21-00030
Link Type Source Holder from Serial No. 500, TK30

21-00008
Link Type Source Holder from Serial No. 500, TK100

Guide Tube Connectors and Adaptors



21-00019
Guide Tube Connector, TK30/100

Accessories TK (continued)

Remote Controls



21-00106

Remote Control without Stand, 5 m,
TK30/100

21-00107

Remote Control without Stand, 10 m,
TK30/100

21-00108

Remote Control without Stand, 15 m,
TK30/100



21-00109

Remote Control with Stand (amber),
5 m, TK30/100

21-00110

Remote Control with Stand (amber),
10 m, TK30/100

21-00111

Remote Control with Stand (amber),
15 m, TK30/100



21-00244

Stand for Remote Control
(amber)



21-00246

Mounting Plate for Remote Control

Trolley



21-00027

Transport Carriage from Serial No. 500
TK 30/100

Accessories for GammaMat SE, TSI, TI, TIF, TIFF and TK

Remote Controls



21-00400
Generation II Remote Control,
5 m, Series Ir/Se

21-00401
Generation II Remote Control,
10 m, Series Ir/Se

21-00402
Generation II Remote Control,
15 m, Series Ir/Se



21-00510
Stand for Remote Control
Generation II

Guide Tubes, Extension Tubes and Accessories



21-00253
Guide Tube, 1 m, adjustable, M14 x 1

21-00254
Guide Tube, 2 m, adjustable, M14 x 1

21-00255
Guide Tube, 2 m, adjustable, M14 x 1

21-00256
Guide Tube, 2 m, adjustable, M14 x 1

21-00257
Guide Tube, 2 m, adjustable, M14 x 1



21-00214
Threaded Sleeve, M14 x 1



21-00240
Transition Fit, M14 x 1 / M18 x 1.5
*Additionally required for Adjustable
Guide Tubes.*



21-00132
Double Nipple for connection
of two Guide Tubes M14 x 1



21-00208
Steel Extension Tube 300 Se/Ir, M14 x 1

21-00148
Steel Extension Tube 500 Se/Ir, M14 x 1

21-00149
Steel Extension Tube 1000 Se/Ir, M14 x 1

Accessories for GammaMat SE, TSI, TI, TIF, TIFF and TK (continued)

Guide Tubes, Extension Tubes and Accessories



21-00249
Guide Tube, 1 m, flexible, M18 x 1.5

21-00242
Guide Tube, 2 m, flexible, M18 x 1.5

21-00273
Guide Tube, 2 m, flexible, M18 x 1.5

21-00251
Guide Tube, 2 m, flexible, M18 x 1.5

21-00252
Guide Tube, 2 m, flexible, M18 x 1.5



21-00238
Threaded Sleeve, M18 x 1.5



21-00150
Steel Extension Tube 300 Se/Ir/Co,
M18 x 1.5

21-00161
Steel Extension Tube 500 Se/Ir/Co,
M18 x 1.5

21-00152
Steel Extension Tube 1000 Se/Ir/Co,
M18 x 1.5
*Steel Extension Tubes require two
Threaded Sleeves, M18 x 1.5 for
connection*



21-00235
Double Nipple for connection
of two Guide Tubes, M18 x 1.5



21-00234
Quick Connector for connection
of two Guide Tubes, M18 x 1.5

Source Terminals



21-00231
Source Terminal 40 Ir/Co, M18 x 1.5

21-00233
Source Terminal 65 Ir/Co, M18 x 1.5

21-00236
Source Terminal 150 Ir/Co, M18 x 1.5

21-00230
Source Terminal 300 Ir/Co, M18 x 1.5

21-00241
Source Terminal 500 Ir/Co, M18 x 1.5

21-00259
Source Terminal 1000 Ir/Co, M18 x 1.5

Accessories for GammaMat SE, TSI, TI, TIF, TIFF and TK (continued)

Various Accessories



23-00022
Go/No-Go Gauge for Source Holder
and Ball Pin, Series TSI/SE



23-00029
Tripod Stand, Series TI/TSI/SE



21-00226
Coupling, Series TSI/SE

Various Accessories



21-00239
Threaded Stud, M18 x 1.5/M14 x 1



23-00009
Handling Tong, 1 m

23-00018
Handling Tong, 2 m



21-00131
Pipe Centering Device, for pipe
diameters 250–900 mm

21-00137
Pipe Centering Device, for pipe
diameters 65–300 mm

Self-propelled Isotope Crawlers

For pipe diameters 6–18"/M6 and 18–60"/M18.



** It is recommended to buy with two heads. One as a spare.*

Self-propelled Isotope Crawlers (continued)

Crawler Heads



21-00001

Isotope Camera M10-1,
(2.20 TBq (60 Ci) Ir-192,
D/2031/B(U)-85)



21-00009

Isotope Camera M4,
(3.00 TBq (80 Ci) Se-75, Type A)



21-00051

Isotope Camera M18-1
(3.00 TBq (100 Ci) Ir-192, D/2021/
B(U)-85)

Crawler Carriage/Head Combinations

Crawler Head	Carriage	
	M6 for pipes 6–18"	M18 for pipes 18–60"
M10-1 Type B(U85) Shielding DU Isotope: Ir-192 Maximum activity: 2.20 TBq (60 Ci)	•	
M4 Type A Shielding W Isotope: Se-75 Maximum activity: 3.00 TBq (80 Ci)	•	•
M18-1 Type B(U85) Shielding DU Isotope: Ir-192 Maximum activity: 3.70 TBq (100 Ci)		•

Self-propelled Isotope Crawlers (continued)



GammaMat M6 Ir-192 consists of the following basic accessories:

- 21-00001 Isotope Camera M10-1, 2,20 TBq (60 Ci) Ir-192
- 21-00052 Command Isotope Unit, 13.0 GBq (0.35 Ci) Cs-137, Type A
- 22-xxxxx Cs-137 source (loaded in 21-00052)
- 28-00044 Packing charges Crawler
- 21-00750/21-00751 Accessory pack M6 Crawler Ir-192:
 - Type B(U) Overpack, Series M10
 - Gammalux M Warning Device, Series M
 - Driving Carriage M6
 - Charger for Gammalux M and Battery M6
 - Batteries M6, completely wired
 - Axles for Pipe diameters 9–14", M6
 - Axles for Pipe diameters 15–18", M6
 - Axles for Pipe diameters 19–21", M6
 - Spacer Sleeves for Pipe diameters 9–14", M6
 - Spacer Sleeves for Pipe diameters 15–18", M6
 - Spacer Sleeves for Pipe diameters 19–21", M6
 - Camera Support
 - Camera Screw
 - Camera Washer
 - Camera Nut
 - Spare parts for normal use, M6
 - Charging Cable for M6 Batteries
 - Charging Cable for Gammalux M
 - Padlocks
 - Tools
 - Box for Head
 - Wooden Box for M6 Carriage

GammaMat M18 Ir-192 consists of the following basic accessories:

- 21-00051 Isotope Camera M18-1, 3.70 TBq (100 Ci) Ir-192
- 21-00052 Command Isotope Unit, 13.0 GBq (0.35 Ci) Cs-137, Type A
- 22-xxxxx Cs-137 source (loaded in 21-00052)
- 28-00044 Packing charges Crawler
- 21-00754/21-00755 Accessory pack M18 Crawler Ir-192:
 - Type B(U) Overpack, Series M18
 - Gammalux M Warning Device, Series M
 - Driving Carriage M18
 - Charger for Gammalux M
 - Charger for Battery M18
 - Batteries M18, completely wired
 - Axles for Pipe diameters 18–25", M18
 - Axles for Pipe diameters 26–35", M18
 - Axles for Pipe diameters 36–45", M18
 - Axles for Pipe diameters 50–55", M18
 - Axles for Pipe diameters 56–60", M18
 - Spacer Sleeves for Pipe diameters 26–35", M18
 - Spacer Sleeves for Pipe diameters 36–45", M18
 - Spacer Sleeves for Pipe diameters 50–55", M18
 - Spacer Sleeves for Pipe diameters 56–60", M18
 - Wheels with Tyre, M18
 - Screws
 - Camera Support for Pipe diameters 18–25"
 - Camera Support for Pipe diameters 25–40"
 - Camera Support for Pipe diameters 40–60"
 - Support for Detector Bar
 - Clamping Screw, M10 x 1
 - Knurl Screw, M24 x 1.5
 - Spare parts for normal use M18
 - Charging cable for M18 Batteries (new charger)
 - Charging cable for Gammalux M (new charger)
 - Cable for Detector Bar M18
 - Cable Carriage to Head
 - Tools
 - Wooden Box for Crawler Head
 - Wooden Box for M18 Carriage

Isotope Pipeline Crawlers (continued)

GammaMat M6 Se-75 consists of the following basic accessories:

- 21-00009 Isotope Camera M4, 3.00 TBq (80 Ci) Se-75, Type A
- 21-00052 Command Isotope Unit, 13.0 GBq (0.35 Ci) Cs-137, Type A
- 22-xxxxx Cs-137 source (loaded in 21-00052)
- 28-00044 Packing charges Crawler
- 21-00752/21-00753 Accessory pack M6 Crawler Se-75, 2 heads:
 - Type A Overpack, Isotope Camera SE
 - Gammalux M Warning Device, Series M
 - Driving Carriage M6
 - 1 Charger for Gammalux M and Battery M6
 - Batteries M6, completely wired
 - Axles for Pipe diameters 9–14", M6
 - Axles for Pipe diameters 15–18", M6
 - Spacer Sleeves for Pipe diameters 9–14", M6
 - Spacer Sleeves for Pipe diameters 15–18", M6
 - Spacer Sleeves for Pipe diameters 19–21", M6
 - Camera Support
 - Camera Screw
 - Camera Washer
 - Camera Nut
 - Spare parts for normal use, M6
 - Charging cable for M6 Batteries
 - Charging cable for Gammalux M
 - Source Holders
 - Padlocks
 - Tools
 - Boxes for Head
 - Wooden Box for M6 Carriage

GammaMat M18 Se-75 consists of the following basic accessories:

- 21-00009 Isotope Camera M4, 3.00 TBq (80 Ci) Se-75, Type A
- 21-00052 Command Isotope Unit, 13.0 GBq (0.35 Ci) Cs-137, Type A
- 22-xxxxx Cs-137 source (loaded in 21-00052)
- 28-00044 Packing charges Crawler
- 21-00756/757 Accessory pack M18 Crawler Se-75:
 - Type A Overpack, Isotope Camera M4
 - Gammalux M Warning Device, Series M
 - Driving Carriage M18
 - Charger for Gammalux M
 - Charger for Battery M18
 - Batteries M18, completely wired
 - Axles for Pipe diameters 18-25", M18
 - Axles for Pipe diameters 26-35", M18
 - Axles for Pipe diameters 36-45", M18
 - Axles for Pipe diameters 50-55", M18
 - Axles for Pipe diameters 56-60", M18
 - Spacer Sleeves for Pipe diameter 26-35", M18
 - Spacer Sleeves for Pipe diameter 36-45", M18
 - Spacer Sleeves for Pipe diameter 50-55", M18
 - Spacer Sleeves for Pipe diameter 56-60", M18
 - Wheels with Tyre, M18
 - Screws
 - Camera Support for Pipe diameters 18–25"
 - Camera Support for Pipe diameters 25–40"
 - Camera Support for Pipe diameters 40–60"
 - Support for Detector Bar
 - Clamping Screw, M10 x 1
 - Knurl Screw, M24 x 1.5
 - Spare parts for normal use M18
 - Charging cable for M18 Batteries (new charger)
 - Charging cable for Gammalux M (new charger)
 - Cable for Detector Bar M18
 - Fixture for Isotope Camera M4
 - Tools
 - Wooden Box for Crawler Head
 - Box for Carriage M18

Transport Containers M4, M10 and M18

(included in respective Crawler)



21-00013

Type A Transport Container, M4



21-00038

Type B(U) Transport Container, M18

21-00007

Type B(U) Transport Container, M10

Accessories, Series M

(included in respective crawler)



21-00005

Gammalux M Warning Device,
Series M



21-00052

Command Isotope Unit, 13.0 GBq
(0.35 Ci) Cs-137, Type A



21-00012

Fixture for Isotope Camera M4
on M18 Carriage

Accessories M6



21-00010
Driving Carriage M6



21-000190
Camera Nut



21-00179
Axle for Pipe diameters 9–14", M6

21-00180
Axle for Pipe diameters 15–18", M6

21-00181
Axle for Pipe diameters 19–21", M6

21-00182
Axle for Pipe diameters 22–24", M6

21-00167
Axle for Pipe diameters 6–8", M6



21-00015
Battery M6, completely wired



21-00144
Wheel with Tyre, M6

21-000135
High Velocity Wheel with Tyre, M6



21-00193
Spacer Sleeve for Pipe diameters 9–14", M6

21-00184
Spacer Sleeve for Pipe diameters 15–18", M6

21-00178
Spacer Sleeve for Pipe diameters 19–21", M6

21-00186
Spacer Sleeve for Pipe diameters 22–24", M6



21-00189
Camera Washer

Accessories M6 (continued)



21-00187
Camera Support



21-00328
Charging Cable for M6 Batteries
for old charger (21-00335)



21-00327
Charging Cable for Gammalux M
for old charger (21-00335)



21-00188
Camera Screw



21-00341
Charger Mascot 2416 M6



21-00343
Charger Adaptor for M6 Batteries

Accessories M18

(included in respective Crawler)



21-00053
Driving Carriage M18



21-00168
Axle for Pipe diameters 18–25", M18



21-00192
Camera Support for Pipe diameters 18–25"



21-00057
Battery M18, completely wired

21-00162
Axle for Pipe diameters 26–35", M18

21-00170
Axle for Pipe diameters 36–45", M18

21-00171
Axle for Pipe diameters 50–55", M18

21-00172
Axle for Pipe diameters 56–60", M18

21-00185
Camera Support for Pipe diameters 25–40"

21-00169
Camera Support for Pipe diameters 40–60"



21-00177
Wheel with Tyre, M18



21-00173
Spacer Sleeve for Pipe diameters 26–35", M18

21-00174
Spacer Sleeve for Pipe diameters 36–45", M18

21-00175
Spacer Sleeve for Pipe diameters 50–55", M18

21-00176
Spacer Sleeve for Pipe diameters 56–60", M18



21-00342
Charger Ideal Power M18



21-00163
Support for Detector Bar

Accessories M18 (continued)



21-00165
Clamping Screw, M10 x 1



21-00327
Charging Cable for Gammalux M
for old charger (21-00335)



21-00166
Knurl Screw, M14 x 1.5



21-00329
Charging Cable for M18 Batteries
for old charger (21-00335)



21-00269
Cable for detector bar M18 Batteries

Services

In order to ensure the highest standards of safety and operation, full range of maintenance, training and repairs is provided.

Annual maintenance/inspection and certification of equipment

Annual maintenance consists of:

- Inspection and maintenance of the exposure container:
 - locking device functionality check
 - Source Holder securing mechanism functionality check
 - connector ends functionality check
 - sliding sleeves damage inspection
 - name plate damage inspection
 - visual inspection for wear or damage of all parts
 - functionality check of exposure container, check screws for tightness
 - overall functionality check.
- Inspection and maintenance of Source Guide Tube, Guide Tube Connector, Source Terminal:
 - remove dirt, inspect for wear of the Source Terminal
 - inspect for wear, corrosion, ruptures, bends, compression and damage of the Guide Tube
 - remove dirt, inspect for wear of the Guide Tube Connector
 - re-assemble, tighten threads of the Source Guide Tube, Guide Tube Connector, Source Terminal
 - final, overall check.
- Inspection and maintenance of a Remote Control if provided with the device:
 - detach, remove dirt, check for wear of the Remote Control connector
 - clean, inspect for wear, corrosion, ruptures, length and damage of the cable with male Connector
 - inspect for wear, corrosion, ruptures, bends, compression and damage of the cable hoses
 - clean, inspect for wear of cable drive with crank
 - visual inspection of all parts
 - re-assembly, tighten nuts and screws of the Remote Control
 - overall functionality check.
- Inspection and maintenance of a source holder
 - check for cracks, wear and tear of individual sections
 - clean, check for cracks, wear and tear of female Connector
 - assemble with new roll pins, secure ball cup of the Source Holder
 - check length issue, final test inspection, maintenance or repair of a Remote Control or Guide Tube sent without the device will be charged standard maintenance and replacement part rates.

Certified dosimetry (inspected every three years)

This inspection covers the whole device including all its operational accessories and consist of:

- the preparation of the device for the authority inspection
- the dosimetry carried out by the notified body.

The dosimetry is carried out only if an annual inspection has been done over the past 12 months.

The annual inspection costs are not included in the certified dosimetry inspection.

Repairs

The replacement of different parts will be charged separately at the working unit rate, in addition to the cost of the components.

Services

- 28-00037 Hour Rate
- 28-00036 Annual Inspection, Series TI
- 28-00035 Annual Inspection, TK30/100
- 28-00034 Annual Inspection, TK1000
- 28-00033 Annual Inspection, Isotope Camera M4, M10, M18
- 28-00025 Annual Inspection, Command Isotope Unit
- 28-00004 Annual Inspection, Series TSI
- 28-00003 Annual Inspection, SE
- 28-00002 Dosimetry
- 28-00009 Modification according DIN 54115, TK30/100





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