

	Content
	page
<b>Radiation Safety</b>	
Radiation Warning Equipment	2
Isotope handling tongs	2
Warning Signs	3
<hr/>	
<b>Gamma Radiography</b>	
Remote Controls & Spare Parts	4
Cable Hoses & Drive Cables	7
Guide Tubes & Connectors	8
Guide Tube Extensions	11
Source Terminals	12
Tungsten Collimators	14
Positioning Devices	
Ellipse clamping tongs	15
Magnetic holders etc.	17
Film retaining straps	18
Centering devices	19
<hr/>	
<b>Film Evaluation</b>	
Densitometer	20
<hr/>	
<b>Ultrasonics</b>	
Ultrasonic Rule	21
<hr/>	

Radiation Warning Equipment

01-07002 MONITOR GX-2  
 Personal radiation alarm for Gamma- and X-ray radiation 50 keV - 1.3 MeV, update capable, RoHs compliant, incl. Lithium battery



01-07012 Lithium battery 3.6V, spare battery for MONITOR GX-2



only available in German version:

01-0770 *MONITOR GX-Re Dosisleistungs-Warngerät für Gamma- und Röntgenstrahlung, stationäre Raumüberwachung mit Außensonde und 20m Verbindungskabel*



*Hinweis: Einbau und Montage dürfen nur von einer Elektrofachkraft entsprechend der nationalen Norm durchgeführt werden. Anschlussplan beiliegend.*

Isotope handling tongs

09-0012 Isotope handling tongs 1 meter long

09-0010 Isotope handling tongs 1.5 meters long

09-0011 Isotope handling tongs 2 meters long



Warning Signs

Barrier tape roll dispenser ...



now available in two sizes:

- ▶ **50 meters** *standard length*
- ▶ **100 meters** *NEW - on request*

synthetic fabric tape 40 mm wide:

- ▶ extremely tear-resistant and weatherproof
- ▶ with radioactive symbol
- ▶ in several language versions

- 08-0062 ... German version acc. StrSchV und RöV  
"Kein Zutritt Röntgen Kontrollbereich -  
Vorsicht Strahlung Radioaktiv"
- 08-0067 ... German version acc. RöV  
"Kein Zutritt Röntgen - Kontrollbereich kein Zutritt"
- 08-0069 ... German version acc. StrSchV  
"Vorsicht Strahlung - kein Zutritt Kontrollbereich"
- 08-0068 ... English version  
"STOP RADIATION - KEEP OUT"
- 08-0064 ... Dutch version  
"STRALINGSGEVAAR - GEEN TOEGANG  
VOOR ONBEVOEGDEN"
- 08-0065 ... Italian version  
"PERICOLO RADIAZIONI - ZONA CONTROLLATA  
E SORVEGLIATA"



Remote Controls & Spare Parts

02-0310 Remote control MTC III, 10 m complete Ir/Se drive cable length 14.10 m

02-0315 Remote control MTC III, 15 m complete Ir/Se drive cable length 19.10 m

- height-adjustable stand of stainless steel with integrated spiral pipe for cable return:
- ▶ max. driving distance 3.80 m
  - ▶ durable construction
  - ▶ favorable maintenance
  - ▶ convenient operation
- working height up to 83 cm (see picture)



02-0110 Remote control MTC I, 10 m complete Ir/Se drive cable length 19.80 m

02-0115 Remote control MTC I, 15 m complete Ir/Se drive cable length 29.80 m

- with 2-piece stand of powder-coated steel
- ▶ double hose version (long cable return)
  - ▶ proven standard system



02-0010 Remote control 10 m, complete Ir/Se without stand

02-0015 Remote control 15 m, complete Ir/Se without stand

- ▶ double hose version (long cable return)

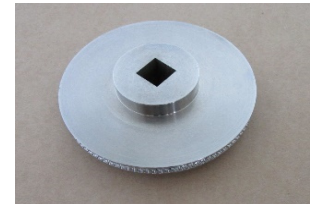


02-0021 Gear box 11mm square, with steel wheel

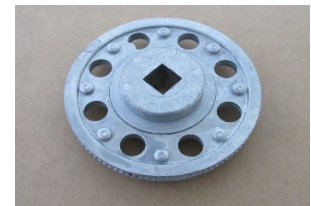
02-0020 Gear box 11mm square, with die cast wheel



02-0023 Drive gear 11mm square of stainless steel



02-0022 Drive gear 11mm square of die cast zinc



02-0025 Crank handle 11mm square with ball stop



02-1031 Gear box internal serration, with steel wheel

02-1030 Gear box internal serration, with die cast wheel



02-1033 Drive gear serrated of stainless steel



02-1032 Drive gear serrated of die cast zinc



02-1036 Crank handle serrated shaft, with retaining screw





02-1037 Crank handle with serrated bolt and screw



02-0070 Double hose clamp, aluminium



02-0080 Plate for remote control  
02-0081 Screw for plate (M12x1)



02-0090 Remote control quick connector, M12x1



02-0096 Protective plug for remote control,  
quick connector fitting



04-0204 Wrench for quick connector,  
powder coated



02-1093 Remote control connector NUC 53 mm,  
threaded coupling M12x1



**Cable Hoses & Drive Cables**

Cable guide hoses for remote controls (M12x1)

- 02-0035 Cable hose 5 m
- 02-0045 Cable hose 10 m
- 02-0055 Cable hose 15 m



Drive cables for all established systems, with ball pin and safety terminal tensile load tested to min. 70 kg



Drive cable extra flexibel Ir/Se (GA, short ball pin) (variant Generation I)

- 02-0714 Length 14.1 m (e.g. for MTC III 10 m)
- 02-0719 Length 19.1 m (e.g. for MTC III 15 m)
- 02-0720 Length 19.8 m (for RC 10 m)
- 02-0730 Length 29.8 m (for RC 15 m)



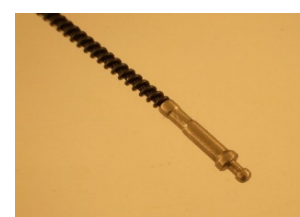
Drive cable Ir/Se (GA, variant Gen. II)

- 02-0740 Length 19.8 m
- 02-0750 Length 29.8 m



Drive cable Co (GA, long ball pin)

- 02-0619 Length 19.1 m
- 02-0630 Length 29.8 m



Drive cable NUC (major ball pin):

- 02-1120 Length 19.8 m
- 02-1130 Length 29.8 m
- 02-1135 Length 35 m



▶ other lengths available on request

**Guide Tubes & Connectors**

Guide tubes flexible, M18x1.5

- 04-0051 Length 1 m
- 04-0058 Length 1.5 m
- 04-0052 Length 2 m
- 04-0059 Length 2.5 m
- 04-0053 Length 3 m
- 04-0055 Length 5 m
- 04-0056 Length 10 m



Guide tubes adjustable, M14x1

- 04-0453 Length 1 m
- 04-0454 Length 2 m
- 04-0455 Length 3 m
- 04-0456 Length 5 m
- 04-0457 Length 10 m



04-0072 Guide tube connector SE/Exertus, M18x1.5



04-0090 Guide tube quick connector Iridium, M18x1.5



04-0204 Wrench for quick connector,  
powder coated



04-0206 Clutch for quick connector (M18)





04-0201 Double nipple 2x M18x1.5

▶ for connecting two guide tubes



04-0203 Threaded sleeve M18x1.5

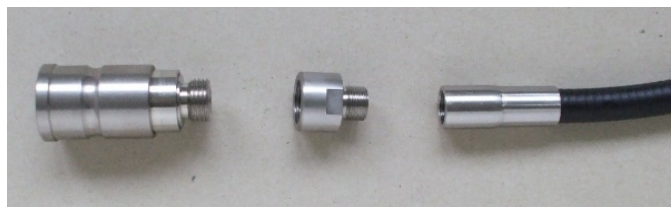


04-0207 Threaded sleeve M14x1



04-0458 Transition fit M14x1/M18x1.5

▶ as threaded transition required e.g.  
for the guide tube adjustable



- 04-1041 Guide tube NUC, green plastic hose L: 1.5 m
  - 04-1045 Guide tube NUC, green plastic hose L: 2.0 m
  - 04-1042 Guide tube NUC, green plastic hose L: 3.0 m
  - 04-1043 Guide tube NUC, green plastic hose L: 4.5 m
- each equipped with quick connector  
and source terminal



- 04-1031 Guide tube NUC, green plastic hose L: 1.5 m
  - 04-1035 Guide tube NUC, green plastic hose L: 2.0 m
  - 04-1032 Guide tube NUC, green plastic hose L: 3.0 m
  - 04-1033 Guide tube NUC, green plastic hose L: 4.5 m
- each equipped with quick connector coupling



- 04-1091 Quick connector NUC, tube connector  
with stop



- 04-1092 Quick connector NUC internal thread G3/8"  
with stop



- 04-1093 Hose connector NUC



- 04-1026 Tube connector NUC (tube - G3/8")



**Guide Tube Extensions**

04-0210 Extension set 200 - 1000 mm, M18x1.5  
allows 6 different tube lengths

set consisting of 3 tubes (200, 300, 500 mm)  
2 sleeves and 2 threaded connectors



04-0230 Steel extension tube 300 mm, M18x1.5



04-0250 Steel extension tube 500 mm, M18x1.5



04-0280 Steel extension tube 840 mm, M18x1.5

**NEW:** Extension tubes with internal thread connection  
for source terminals (no additional sleeve required)



04-0238 Steel extension tube 385 mm IG, M18x1.5

► suitable for Centering device 1.2

04-0251 Steel extension tube 500 mm IG, M18x1.5

► suitable for Centering device 1.0 / 1.1

04-0281 Steel extension tube 840 mm IG, M18x1.5

► suitable for Centering device 2.1



*application example as inner tube for Centering device 1.1*

Source Terminals

04-0173 Source terminal Se 120 mm, M18x1.5



04-0175 Source terminal Se 300 mm, M18x1.5  
 ► sleeve jointed



04-0177 Source terminal Se 540 mm, M18x1.5  
 ► weld jointed  
 ► also available in 890 mm and 1050 mm  
 ► suitable for our Centering devices



04-0180 Source terminal Ir/Co 80 mm, M18x1.5



04-0182 Source terminal Ir/Co 85 mm, M18x1.5



04-0190 Source terminal Ir/Co 300 mm, M18x1.5



04-0195 Source terminal Ir/Co 500 mm, M18x1.5  
 ► suitable for Centering device 1.0 / 1.1



04-0198 Source terminal Ir/Co 850 mm, M18x1.5  
 ► suitable for Centering device 2.1



04-0199 Source terminal Ir/Co 1000 mm, M18x1.5



04-0421 Source terminal Se 110 mm, M14x1

▶ other lengths available



04-0431 Source terminal Ir 80 mm, M14x1

▶ other lengths available



04-1070 Source terminal NUC 105 mm, tube connection



04-1060 Source terminal NUC 90 mm (G3/8")



04-1081 Source terminal NUC 90 mm, with quick connector



04-1063 Source terminal NUC 300 mm (G3/8")

04-1065 Source terminal NUC 500 mm (G3/8")



04-1083 Source terminal NUC 300 mm, with quick connector

04-1085 Source terminal NUC 500 mm, with quick connector

▶ also available in 850 mm and 1000 mm  
▶ suitable for our Centering devices



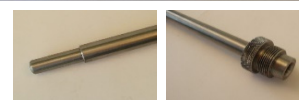
04-2049 Source terminal SEN 495 mm, male thread 1"-18

▶ suitable for Centering device 1.0 / 1.1



04-2086 Source terminal SEN 865 mm, male thread 1"-18

▶ suitable for Centering device 2.1





**Tungsten Collimators**

05-0110 Ir192 Tungsten pipe collimator 120°

► easy plug-in for all established front emitting source terminals



05-0171 Se75 Tungsten plug-on collimator side emission 80°



05-0172 Se75 Tungsten plug-on collimator 80° full set including source terminal, captively integrated, 360° rotatable

► 'clamping zone' suitable for use with ellipse tongs



05-0176 Holding ring with rod for Se75 plug-on collimator 2-part



## Positioning Devices: Ellipse clamping tongs

06-0103 Ellipse clamping tongs 460, hydraulic support with mounting prism, FFD 0 - 460 mm for pipe diameters 10 - 90 mm OD



06-0104 Ellipse clamping tongs 560, hydraulic support with mounting prism, FFD 0 - 560 mm for pipe diameters 10 - 90 mm OD



06-0105 Ellipse clamping tongs 750, hydraulic support with mounting prism, FFD 200 - 750 mm for pipe diameters 10 - 90 mm OD



06-0107 Ellipse clamping tongs 510, mechanical fixture with mounting prism, FFD 0 - 510 mm for pipe diameters 10 - 90 mm OD



#### Ellipse clamping tongs by METRITEC

- ▶ for the positioning of gamma radiography sources and collimators
- ▶ equipped with hydraulic or mechanical fixture
- ▶ clamping of all joints by central locking
- ▶ mounting prism for source terminals up to  $\varnothing 18.5$  mm
- ▶ maximum clamping force appr. 7 kg
- ▶ special wishes can be considered

TIP: Hydraulic or mechanical fixture?

The hydraulic system generates a strong clamping force already when tighten the handwheel slightly. In comparison, a much greater manual force must be applied to the mechanical fixture in order to tighten all joints firmly. However, the mechanical system requires less maintenance, and it can be used regardless of the ambient temperature. In contrast, the hydraulic clamping generally does not tolerate large temperature fluctuations and is also not suitable for use in sub-zero temperatures. - By the hydraulic system the clamping is done simultaneously at all joints, while the mechanical clamping is performed successively from the bottom to the upper joint.

06-0106 Ellipse tongs construction kit 830, 4-piece set for pipes 10 - 90 mm OD, FFD 0 - 830 mm four various lengths can be combined tools included, robust transport case



Spare parts available from us, for example:

06-0022 Hydraulic piston with sealing ring Ø7mm



Special designs on request, examples:

06-0103 SO Ellipse clamping tongs 395, hydraulic support with mounting prism, FFD 0 - 395 mm for pipe diameters 10 - 90 mm OD

*special here: half length extension segment*



06-0108 Ellipse clamping tongs 440, hydraulic support with mounting prism, FFD 0 - 440 mm for pipe diameters 10 - 90 mm OD

*special here: without extension segment*



06-0110 Ellipse clamping tongs HP, hydraulic, mounting plate of stainless steel 60x30x4 mm with bore Ø10 mm for pipes 10 - 90 mm OD, FFD 0 - 460 mm

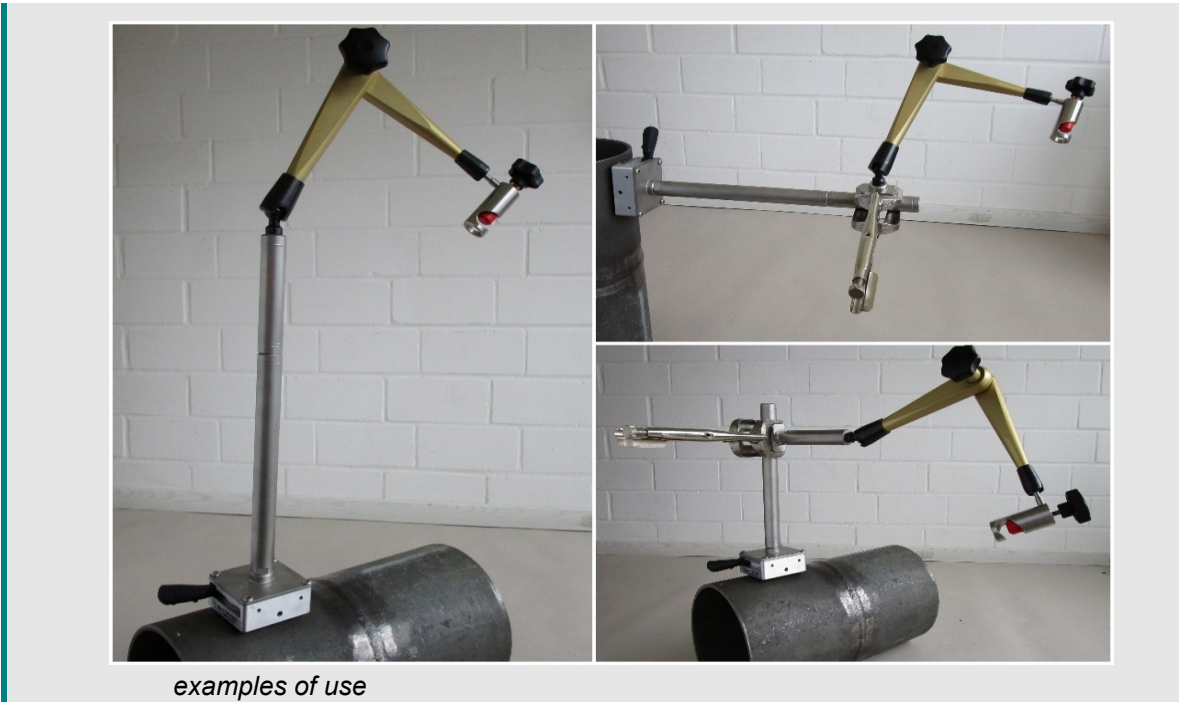


**Positioning Devices: Magnetic holders etc.**

06-0125 Strong magnetic positioner TR 580, mounting prism featuring hydraulic support, FFD 0 - 580 mm for flat or pipe surfaces, OD 25 - 200 mm (1" - 8")  
 Tested pull-off force: >300 kg, Weight: 2.4 kg  
 supplied in a robust transport case



06-0127 Positioning assistance kit:  
 Strong magnetic holder & clamping tongs, hydraulic fixture, screwable extension segments versatile to combine, tools included  
 supplied in a robust transport case

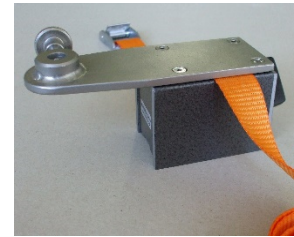


*examples of use*



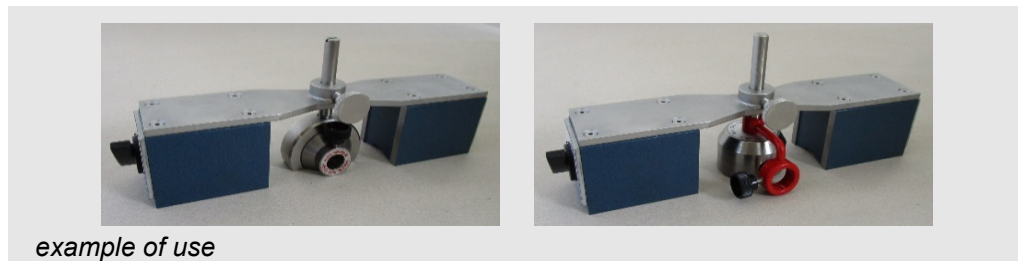
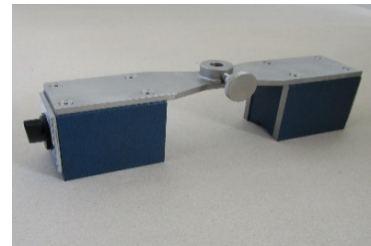
06-0140 Magnet saddle with collimator holder plate and safety tension belt

Positioning assistance for collimators.  
Switchable magnet with prism for pipes up to 100 mm OD



06-0142 Double magnet saddle with collimator holder plate

Two switchable magnets with prism for pipes up to 100 mm OD



06-0150 Collimator positioning belt for non-magnetic or coated pipes 100 - 400 mm OD

*example of use: with collimator holding ring*



06-0121 Supporting bar featuring locking notches

▶ optional accessory for 06-0150



**Positioning Devices: Film retaining straps**

Elastic strap with clamping buckle,  
width: 25 mm

- 06-0605 length 0.5 m
- 06-0610 length 1.0 m
- 06-0615 length 1.5 m
- 06-0620 length 2.0 m



▶ other lengths available



**Positionierhilfen: Centering devices**

06-0200 Centering device 1.0 for pipes 90 - 310 mm ID  
(3.5" - 12")



06-0210 Centering device 1.1 for pipes 105 - 420 mm ID  
(4" - 16")

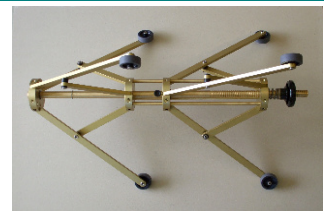


06-0220 Centering device 1.2 for pipes 90 - 318 mm ID  
(3.5" - 12.5")

▶ extra short version, 340 mm in length



06-0310 Centering device 2.1 for pipes 250 - 900 mm ID  
(10" - 35")



06-0410 Extensions for Centering device 2.1  
for pipe diameters of 900 - 1400 mm (35" - 55")  
6-part, equipped with plastic rollers

▶ easy screwing to the base arms  
by cross handles



*example of use:  
Centering device 2.1 stretched  
with mounted extensions*



**Centering devices by METRITEC**

Our Centering devices are intended to use as mechanical positioning assistance for gamma radiography sources in pipes. The spring pressure of the arms is adjustable. For universal fit the basic unit is empty inside and supplied without any connectors. Therefore, as complementary accessory an appropriately long source terminal is needed, corresponding to the type of gamma ray projector which is used.

The source terminal can simply be slide through the centering device and be locked by the centre screw. Suitable for source terminals or steel extension tubes up to 15 mm OD.

Densitometer

07-0400 DENSIT-RT6 Hand-probe Densitometer  
incl. calibration certificate and batteries

Measuring range: diffuse optical density 0 - 5.0  
Sensor aperture diameter: 3 mm  
Powered by 4 batteries 1.5V AA (LR6)



- ▶ high measuring accuracy & stability
- ▶ user-friendly keypad
- ▶ easy digital calibration
- ▶ 3-level display backlighting
- ▶ flexible probe cable
- ▶ robust plastic housing, IP65
- ▶ CE-marking



07-0608 Reference density strip, BAM-approved  
with certificate



Ultrasonic Rule

07-0030 Ultrasonic rule, Type KK, 100 mm  
rotatable, extensible, engraved

