



**PRODUCTS 2018** 

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#### **15 YEARS OF GEJOS**

Founded 15 years ago, today the once small 2-man business is a successful provider of pipe and sewer inspection systems with a proven track record.

Drawing on this experience, we offer user-friendly inspection equipment for a wide range of nominal diameters from DN30 to DN500; we thus satisfy diverse customer groups – from caretakers, plumbers and pipe cleaning firms to towns, communities and industrial companies. Our inspection equipment is sold by long-standing partners in more than 15 countries across the globe.

Marking our anniversary, we are pleased to announce new products to join our portfolio: as of now, GEJOS is offering its first crawler with an automatic cable drum. Thanks to a patented lifting arm, the crawler can be used to inspect DN100 to DN500, with all the features inside required for comprehensive sewer inspection.

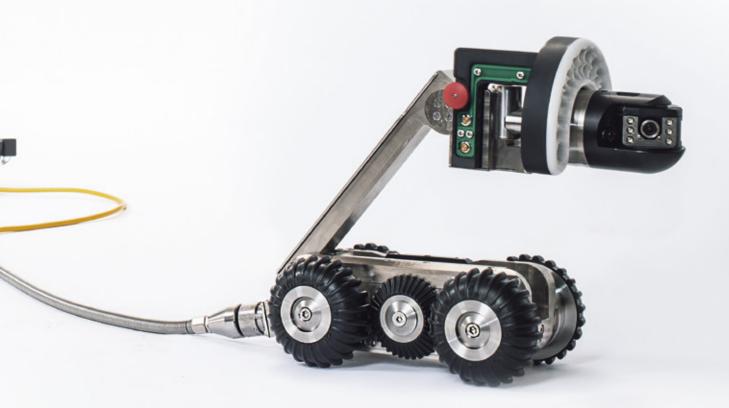
We have also taken our GEJOScan software to the next level for the GEJOS crawler, and now offer it in a 3D pipe route version. Easy intuitive operation means that any customer can probe pipe routes and capture and evaluate the findings. We took a well-considered decision not to use third-party software, but invest instead in developing our own. This ensures our flexibility and lets us respond to customer wishes quickly and directly.

Another new product is the PIC 6.0 "spherical head" – a special version consisting of a wideangle rotating camera head with a digital swivel function, which can be used to inspect Geberit toilet connection pipes (bend-capable at DN70 and higher). Exactly like the PIC 6.0 swivel head, it enables permanent automatic nominal diameter measurement via laser in real time.

We should like to thank all our customers for the trust they have placed in us, and the constructive cooperation over the years; and we look forward to the future as a full-range provider of pipe and sewer inspection equipment with more new products in the offing.



# GEJOS CRAWLER



#### **GEJOS CABLE DRUM**

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# Technical data

- Fully automatic cable drum with integrated cable guiding
- Rugged aluminium/stainless steel frame
- 250m cable (with an optional length of up to 350m)
- Plug-in lithium-ion battery (48V)
- Speed and power manually adjustable
- Integrated electronic meter counter
- Pelicase with control unit can be fitted onto the cable drum
- Adjustable transport wheels

88108

# **GEJOS CRAWLER (DN 100 TO DN 500)**

The little one for the big tasks

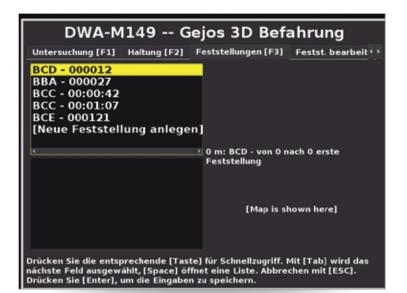


# Technical data

- Suitable for DN 100 to DN 500
- Bend-capable at DN 150 and higher (2x45°)
- High weight (approx. 9kg)
- Patented robotic arm (height 190mm) with angle display and fully automatic, centred positioning inside the pipe/ sewer
- Rear-view camera integrated
- Automatic levelling (prevents toppling over)
- Infinitely variable advancing and reversing speed (automatic speed control)
- Continuous, real-time laser nominal diameter measurement (output in mm)
- Compatible with the following GEJOS camera heads: PIC 6.0 swivel head, PIC 6.0 spherical head, PIC 5.5 axial head, PIC 3.0 axial head
- Internal pressure monitoring displayed by the control unit
- Bendable cable quick coupling
- Switchable tracking (33kHz / 512Hz)
- Additional LED lighting ring (push-on)
- Mountable, additional weights
- Additional wheels in various sizes (push-on)

## GEJOSCAN 3D DATA CAPTURE SOFTWARE





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Integrated in the GEJOS control unit pelicase

Easy pipe route capturing with automatic generation of relevant findings

Real-time display of the pipe route on the map (geocoding)

Intuitive project management: Corresponding sections of sewers/pipes are saved in one project

Hotkeys can be configured individually in order to enter a whole set of findings with a single keystroke

## GEJOSCAN 3D OFFICE SOFTWARE

- 3D display and editing of a pipe route
- Modular software (individual modules can be hidden or moved to a separate screen)
- State-of-the-art WPF components (individually scalable, moveable, minimizable)
- Layout elements (shafts, ground plan, dimensioning elements) can be drawn manually
- 3D pipe route view in one map from several map sources
- Interactive graphical representation of the sewer section (synchronised with video and photo views and findings list)
- Reports about the sewer section can be printed in different formats and in highest resolution
- Import/display/export of 3D data in ESRI shape file format
- Identical representation (read-only format) for the end customer
- No video codec installation required



Scan QR-Code to view a sample report

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# GEJOS NOMINAL DIAMETER MEASUREMENT





Laser nominal diameter measurement – permanent display on the screen

Fully automatic and in real-time: Any pipe size change is instantly indicated when the camera is pushed into the pipe

Output in millimetres

Optionally available for PIC 6.0 swivel head and PIC 6.0 spherical head (new!)

Compatible with pushrod inspection system and crawler system

Older PIC 6.0 swivel heads can easily be upgraded with laser nominal diameter measurement

# **GEJOS-COMPATIBILITY**

	PIC 6.0	PIC 5.5	PIC 3.0	PIC 1.9	CRAWLER		
REEL CAGES							
Reel cage large 70 m, ø 9 mm	+	+					
Reel cage large 70 m, ø 7,5 mm	+	+					
Reel cage small 40 m, ø 6 mm	+	+	+	+			
Reel cage small 40 m, ø 4,5 mm	+	+	+	+			
Cable drum for cra- wler, 250m					+		
CAMERA HEADS							
<b>PIC 6.0 Camera head</b> (with/without laser)	+	+			+		
PIC 6.0 Spherical head (with/without laser)	+	+			+		
PIC 5.5 Camera head	+	+	+		+		
PIC 3.0 Camera head	(push-on or via interchange- able cage)	+	+	+ (via interchangeable cage)	+		
PIC 1.9 Camera head	+ (via interchangeable cage)	+ (via interchangeable cage)	+ (via interchangeable cage)	+			
CONTROLUNITS / N	IONITORS						
PELI	+	+	+	+	+ (PELI crawler version)		
LC	+	+	+	+			
LCI			+	+			
BNC (BNC output, without monitor)			+	+			
ACCESSORIES							
Tracking	+	+	+	+	+		
Sliding sleeves	+	+	+	+			
Roller slides	+	+	+				
Roller slides large	+	+					
Deflection guide with alignment pins	+						
GEJOScan-Software	+ (PELI)	+ (PELI)	+ (PELI)	+ (PELI)	<b>-</b> (PELI)		

# SWIVEL HEAD CAMERA PIC 6.0 PELI SPECIAL SPHERICAL HEAD VERSION





# EXTENDABLE PIC 6.0 PELI SPECIAL AXIAL HEAD VERSION



Swivel head basic system with axial camera head (Ø 55 mm)

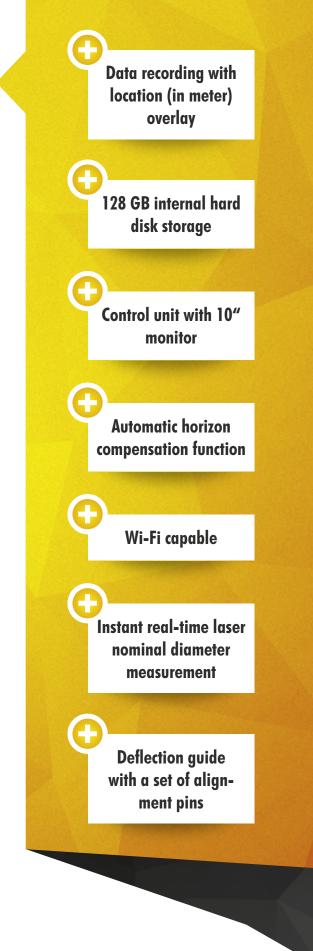
All requirements for swivel head operation already integrated in this special version

Connection of swivel head possible any time



# **DEFLECTION SWIVEL HEAD CAMERA PIC 6.0 PELI**





 CONTROLUNIT
 Image: Weight: 4 kg
 Image: Size: 23 cm x 14 cm x 23 cm

 REEL
 Image: Weight: ca. 19 kg
 Image: Size: Length 60 cm, Width 38 cm with wheel (22 cm w.n. w..), Height 74 cm

# **ACCESSORIES SWIVEL HEAD PIC 6.0 PELI**



**PELI-Controlunit** 



Deflection guide (alignment pins)



PIC 6.0 swivel head



Instant realtime laser nominal measurement

# Technical data

#### Deflection swivel head camera PIC 6.0 PELI – from DN 70 to- DN 500 (optional)

- Fully tiltable camera head made of stainless steel and aluminium Ø 60 mm
- Infinite rotation / infinite tilting
- Automatic zero function
- Automatic 360° rotation function
- Instant, fully automatic real-time laser nominal diameter measurement (output in mm)
- Pressure-resistant up to 1 bar
- Bend-capable at DN 100/87° and higher
- Can be plugged on the push rod due to connection for various camera heads
- Pressure control pressure valve
- Rotation and tilting position indicator in degrees
- Pipe inclination measurement in degrees
- Shutter/aperture mode settable via the control unit
- 70 m fibreglass rod Ø 9 mm with integrated camera cable
- Digital module 0.1 lux

- Adjustable reel wheels for easy transport
- Accessory bag on the reel- Vertically adjustable handle for transportation and attachment of the control case with 360° rotation function
- Detachable control unit in a rugged Pelicase
- ⊕ 10" Sunreflect Monitor
- Keypad, optionally with external wireless keyboard
- Video output- Infinitely variable lighting control
- 220 V / 50 Hz mains connection- High-capacity LFP battery- Video recording and image storage, 2x USB connection
- 128 GB internal hard disk storage (extendable)
- Wi-Fi data transfer
- Update via Wi-Fi
- Data recording with location (in meter) overlay
- Pre-installed 3D pipe routing software with GPS position indicator (optional, unlockable any time)



 CONTROLUNIT

 • Weight: 4 kg
 • Size: 23 cm x 14 cm x 23 cm
 • Weight: ca. 19 kg
 • Size: Lenght 60 cm, Width 38 cm with wheel (22 cm w.n. w..), Height 74 cm
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 • Size: Lenght 60 cm, Width 38 cm with wheel (22 cm w.n. w..), Height 74 cm
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 • Size: Lenght 60 cm, Width 38 cm with wheel (22 cm w.n. w..), Height 74 cm
 • Size: Lenght 60 cm, Width 38 cm with wheel (22 cm w.n. w..), Height 74 cm
 • Size: Lenght 60 cm, Width 38 cm with wheel (22 cm w.n. w..), Height 74 cm
 • Size: Lenght 60 cm, Width 80 cm with wheel (22 cm w.n. w..), Height 74 cm
 • Size: Lenght 60 cm, Width 80 cm with wheel (22 cm w.n. w..), Height 74 cm
 • Size: Lenght 60 cm, Width 80 cm with wheel (22 cm w.n. w..), Height 74 cm
 • Size: Lenght 60 cm, Width 80 cm with wheel (22 cm w.n. w..), Height 74 cm
 • Size: Lenght 60 cm, Width 80 cm with wheel (22 cm w.n. w..), Height 74 cm
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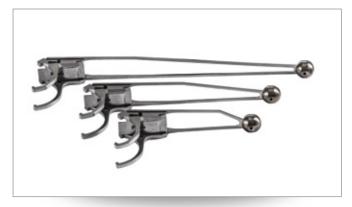
# **ACCESSORIES DEFLECTION SWIVEL HEAD CAMERA PIC 6.0 LC**



LC-Controlunit



PIC 6.0 swivel head



Deflection guide (alignment pins)

# Technical data

#### Deflection swivel head camera PIC 6.0 LC - from DN 70 to- DN 500 (optional)

- Fully tiltable camera head made of stainless steel and aluminium Ø 60 mm
- Infinite rotation / infinite tilting
- Automatic zero function
- ➔ Automatic 360° rotation function
- Pressure-resistant up to 1 bar- Bend-capable at DN 100/87° and higher
- Can be plugged on the push rod due to connection for various camera heads
- Pressure control pressure valve
- 70m fibreglass rod Ø 9 mm with integrated camera cable

- Digital module 0.1 lux
- Adjustable reel wheels for easy transport
- Accessory bag on the reel- Vertically adjustable handle for transportation and attachment of the control case with 360° rotation function
- Handy, detachable control unit with integrated 7" colour monitor
- Keypad, optionally with external wireless keyboard
- Video output- Infinitely variable lighting control
- High-capacity LFP battery- Video- and image storage on SD card

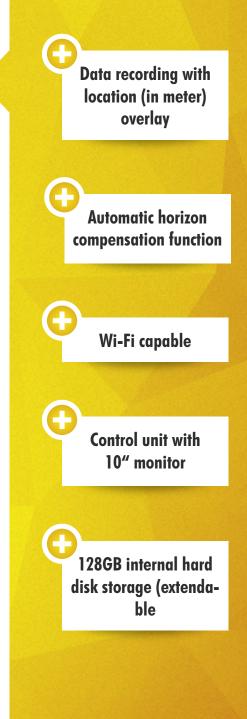
#### **AXIAL HEAD CAMERA PIC 5.5 PELI**



 CONTROLUNIT
 Image: Weight: 7,3 kg
 Image: Size: 57 cm x 17 cm x 34 cm

 REEL
 Image: Weight: ca. 19 kg
 Image: Size: Lenght 60 cm,

 Width 38 cm with wheel (22 cm w.n. w..), Height 74 cm



# Technical data Axial head camera PIC 5.5 from DN 70 to DN 300

- Stainless steel axial camera head, Ø 55 mm
- Automatic horizon compensation function
- Pressure-resistant up to 5 bar (optional)
- Bend-capable at DN 90/87° and higher

- Can be plugged on the push rod due to connection for various camera heads
- Digital module 0.1 lux
- 70 m fibreglass rod Ø 7.5 mm with integrated camera cable

#### AXIAL HEAD CAMERA PIC 5.5 LC



 CONTROLUNIT

 Weight: 4 kg
 Size: 23 cm x 14 cm x 23 cm

 REEL

 Weight: ca. 19 kg
 Size: Lenght 60 cm,
 Width 38 cm with wheel (22 cm w.n. w..), Height 74 cm

Coation (in meter) overlay
Control unit with Z" monitor
Control unit with Z" moni

- Adjustable reel wheels for easy transport
- Accessory bag on the reel
- Vertically adjustable handle for transportation and attachment of the control case with 360° rotation function
- Detachable control unit

- Video output
- Infinitely variable lighting control
- High-capacity LFP battery

#### PUSH ROD INSPECTION CAMERA PIC 3.0 LC



#### PUSH ROD INSPECTION CAMERA PIC 3.0 LCI



## PUSH ROD INSPECTION CAMERA PIC 3.0 BNC

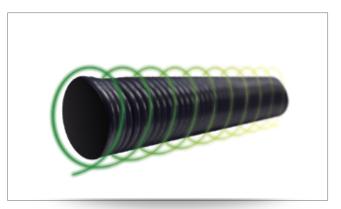




# **ACCESSORIES PUSH ROD INSPECTION CAMERA PIC 3.0**



PIC 3.0 sliding sleeve from DN 70 (left) / DN 100 (right)



PIC 3.0 Switchable tracking (33 kHz/512 Hz)



Reel cage small with PIC 1.9 axial camera head Ø 19mm, 40 m push rod Ø 4,5 mm



Roller slide with/without additional illumination from DN 150

# Technical data

#### (from DN50 to DN200)

- Stainless steel camera head, Ø 30 mm
- Automatic horizon compensation function
- Pressure-resistant up to 1 bar
- Bend-capable at DN 50/87° and higher
- Digital module 0.01 lux
- Reel brake
- ✤ 40 m fibreglass rod Ø 6 mm with integrated cable
- Interchangeable cage (for all GEJOS camera systems)

- Accessory bag on the reel
- Handle for transportation and attachment of the control case
- 7" colour monitor
- Video input/output
- Infinitely variable lighting control
- 220V/50Hz mains connection
- High-capacity LFP battery
- Location (in meter) overlay

**CONTROLUNIT** • Weight: 4 kg • Size: 23 cm x 14 cm x 23 cm

REEL • Weight: ca. 10 kg • Size: Lenght 48 cm, Width 22 cm, Height 44 cm

#### PUSH ROD INSPECTION CAMERA PIC 1.9 LC

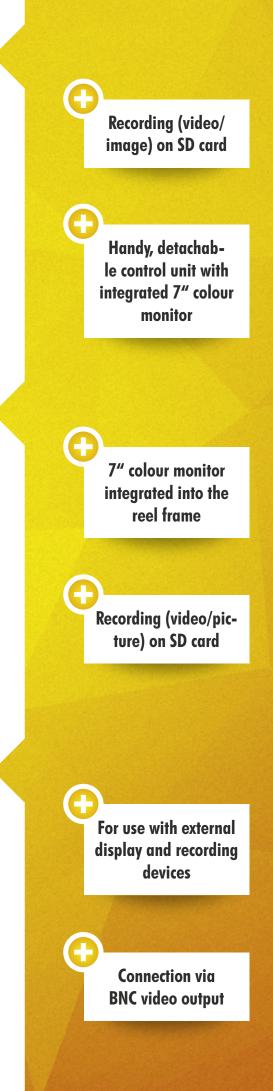


## PUSH ROD INSPECTION CAMERA PIC 1.9 LCI



# PUSH ROD INSPECTION CAMERA PIC 1.9 BNC

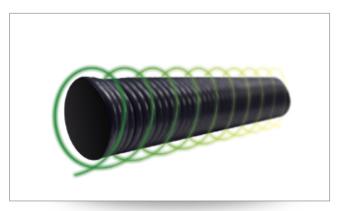




# **ACCESSORIES PUSH ROD INSPECTION CAMERA PIC 1.9**



PIC 1.9 Sliding sleeve from DN 50



PIC 1.9 Switchable tracking (33 kHz/512 Hz)



Reel cage small with PIC 3.0 axial camera head Ø 30mm , 40 m push rod Ø 6 mm

# Technical data

#### (from DN30 to DN200)

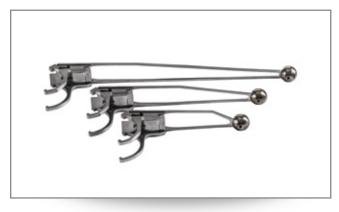
- Stainless steel camera head, Ø 19 mm
- Pressure-resistant up to 2 bar
- Bend-capable at DN 30/87° and higher
- Digital module 0.01 lux
- Reel brake
- 40 m fibreglass rod Ø 4.5 mm with integrated cable
- Interchangeable cage (for all GEJOS camera systems)
- Accessory bag on the reel
- 7" colour monitor
- Video input/output
- Infinitely variable lighting control
- 220 V / 50 Hz mains connection
- High-capacity LFP battery
- Location (in meter) overlay

<section-header></section-header>						
	PIC 6.0 SWIVEL HEAD (with/without laser)	PIC 6.0 SPHERICAL HEAD (with/without laser)	PIC 5.5 AXIAL HEAD	PIC 3.0 AXIAL HEAD	PIC 1.9 AXIAL HEAD	
ANLAGE						
PIC 6.0	+	+	+	+ (push-on or via interchangeable cage)	+ (via interchangeable cage)	
PIC 5.5	+	+	+	+	+ (via interchangeable cage)	
PIC 3.0			+	+	+ (via interchangeable cage)	
PIC 1.9				+ (via interchangeable cage)	+ (via interchangeable cage)	
Fahrwagen	+	+	+	+		
TECHNICAL DATA						
Diameter Ø	60 mm	60 mm	55 mm	30 mm	19 mm	
Weight	550 g	350 g	300 g	150 g	100 g	
Suitable from	DN 70	DN 70	DN 70	DN 40	DN 30	
Suitable to	DN 500	DN 500	DN 300	DN 200	DN 200	
Navigates pipe bends from	DN 100	DN 70	DN 90	DN 50	DN 30	
Deflectability	+					
Rotation	360°	360°				
Tilting	360°	110°				
Shutter / aperture	+ (for laser version)					
Focus	+	+				
Autom. horizon compensation	+	+	+	+		

# **ACCESSORIES PUSH-ROD SYSTEMS**



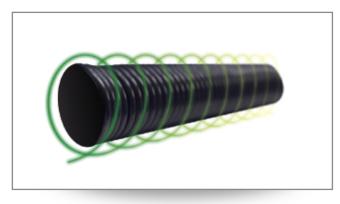
Sliding sleeves DN 50, 70, 100 - PIC 1.9, 3.0, 5.5



Deflection guide (alignment pins)



Roller slide with/without additional illumination from DN 150 – PIC 3.0, 5.5



Switchable tracking 33 kHz / 512 Hz PIC 1.9, 3.0, 5.5, 6.0



Accessory suitcase - PIC 1.9, 3.0, 5.5, 6.0



Roller slide adjustable from DN 150 - 500 (with/without additional illumination) – PIC 5.5, 6.0



SPE flushing nozzle - cleaning and bend-capable - PIC 6.0



Break for combo-reel – PIC 6.0

# **CONTROL UNITS**

LC-Controlunit (with/without swivel head control)





PELI-Controlunit (with/without swivel head control)



PELI-Controlunit – crawler version



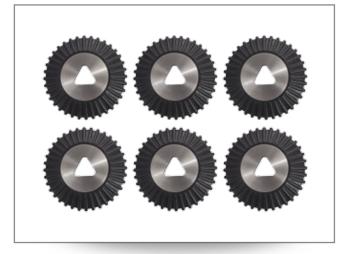
## **ACCESSORIES CABLE DRUM AND CRAWLER**



Cable drum – Plugin lithium-ion battery



Cable drum – outrigger for cable guiding



Crawler - wheels small



Crawler – wheels big



Crawler - additional LED-lighting ring (push-on)



#### **GEJOS GMBH**

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