

NOGGIN® Catalog

If you need a high-performance, configurable GPR that is adaptable for multiple applications, the NOGGIN is the right choice for you.



NOGGINs® provide optimal flexibility and performance

5 Sensors

5 Configurations

HIGHER RESOLUTION
↑
DEEPER PENETRATION
↓

1000



SmartCart®

Durable, 4-wheeled, folding cart; provides rapid data collection in open areas.



500



SmartTow™

Light, compact hand-tow configuration; traverse rough or difficult terrain.



250



SmartSled™

Hand or vehicle tow over rough terrain or survey large areas quickly.



100



SmartChariot™

Rugged, vehicle hitch-mounted; rapidly survey large, flat areas such as roads, parking lots and golf courses.



Ultra 100



SmartHandle™

Versatile, compact handle; operates on vertical or overhead surfaces and in confined spaces.



Use your Noggin system to expand your business into new markets. Easily add another frequency, a new configuration or accessories to your existing Noggin system and your subsurface investigation opportunities are limitless.

NOGGIN Applications



SHALLOW, HIGHER RESOLUTION

DEEPER PENETRATION



NOGGIN Configuration features

GPS
for geo-referencing data

Foldable cart
for easy transport

12 Volt battery
in case

SmartCart

Fiberglass
to eliminate signal
interference

Interchangeable
brackets
allow any Noggin
sensor to be attached

Optical odometer
for precise positioning



SmartTow

Fiberglass
to eliminate interference

Optical odometer
for precise positioning

Interchangeable
brackets
allow any Noggin
sensor to be attached

Rugged treaded tire
for challenging terrains



SmartSled cover
to protect equipment from dust,
debris and water

Optical odometer
for precise positioning

Tow hitch
for use on any vehicle:
truck, ATV's, tractors,
golf carts, snowmobiles

SmartHandle

Tow hitch
for any vehicle

Fiberglass
to eliminate
interference

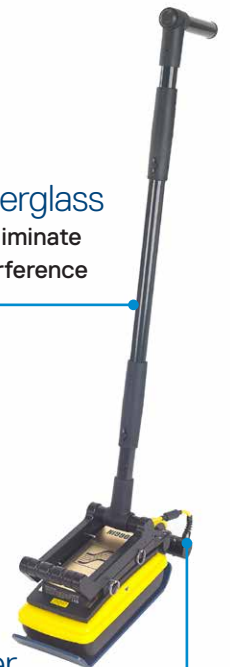


GPS
for geo-referencing data

Fiberglass
to eliminate interference



Optical odometer
for precise positioning



























SmartSled

Rugged treaded tire
for challenging terrains

Ground Coupled
for maximum penetration

SmartChariot

Choose the **NOGGIN** and configuration that is right for you. Or mix and match.

	SmartCart	SmartTow	SmartSled	SmartChariot	SmartHandle
 NOGGIN 1000	Page 6 	Page 20 	Page 43 	Page 34 	Page 52 
 NOGGIN 500	Page 9 	Page 23 	Page 46 	Page 37 	Page 55 
 NOGGIN 250	Page 12 	Page 26 	Page 49 	Page 40 	N/A
 NOGGIN 100	Page 15 	Page 29 	N/A	N/A	N/A
 NOGGIN Ultra 100	Page 16 	Page 30 	N/A	N/A	N/A
 NOGGIN Ultra 100 HP	Page 17 	Page 31 	N/A	N/A	N/A

NOGGIN 1000 SmartCart System (100-10-0158)



Data Logger:

DVL-500N
100-22-0089

Configuration:

Noggin 1000 SmartCart
100-53-0135

Includes 1.75m cable,
SmartCart battery
and battery charger

GPR Sensor:

Noggin 1000
100-22-0063

*GNSS and mount shown are optional

Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin 250/500/1000 SmartCart	100-54-0156X
Spare Battery	Noggin/pulseEKKO® Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartCart Cable (1.75m)	100-52-0048
Other Cable Lengths	2.5, 5, 10, 15 meters	See Noggin Accessories page
Deluxe Shipping Case	SmartCart ATA Shipping Case (with DVL Bag)	100-60-0063


NOGGIN 1000 SmartCart System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 1000 SmartCart</p> 	<p>Noggin 100 SmartCart</p> 	<p>100-22-0060 – Noggin 100 or 100-22-0108 – Noggin Ultra 100 or 100-22-0115 – Noggin Ultra 100 HP* 100-53-0086 – 1/2m SmartCart Separation Kit 100-52-0091 – Odometer extension cable (0.45m)</p> <p>Optional Items: 100-53-0102 – pulseEKKO/Noggin 100 SmartCart GPS mount 100-52-0147 – 2.75m GPS cable</p>
	<p>Noggin 250 SmartCart</p> 	<p>100-22-0061 – Noggin 250 100-53-0125 – Noggin 250 Cart Conversion kit w/ swivel Mounting Posts</p>
	<p>Noggin 500 SmartCart</p> 	<p>100-22-0062 – Noggin 500 100-53-0126 – Noggin 500 Cart Conversion kit w/ swivel Mounting Posts</p>

*Not available in all countries. Check with your distributor.

NOGGIN 1000 SmartCart System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 1000 SmartCart</p> 	<p>Noggin 1000 SmartTow</p> 	<p>100-53-0128: Noggin 250/500/1000 SmartTow Configuration</p> <p>Optional Item: 100-52-0147: 2.75m GPS cable</p>
	<p>Noggin 1000 SmartChariot</p> 	<p>100-53-0130: Noggin 250/500/1000 SmartChariot Configuration</p> <p>Optional Item: 100-52-0148: 13m GPS cable</p>
	<p>Noggin 1000 SmartSled</p> 	<p>100-53-0131: Noggin 250/500/1000 SmartSled Configuration</p> <p>Optional Item: 100-52-0148: 13m GPS cable</p>
	<p>Noggin 1000 SmartHandle</p> 	<p>100-53-0118: Noggin 1000 SmartHandle Configuration</p>

NOGGIN 500 SmartCart System (100-10-0157)



Data Logger:

DVL-500N
100-22-0089

Configuration:

Noggin 500 SmartCart
100-53-0134

Includes 1.75m cable,
SmartCart battery
and battery charger

GPR Sensor:

Noggin 500
100-22-0062





*GNSS and mount shown are optional

Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin 250/500/1000 SmartCart	100-54-0156X
Spare Battery	Noggin/pulseEKKO Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartCart Cable (1.75m)	100-52-0048
Other Cable Lengths	2.5, 5, 10, 15 meters	See Noggin Accessories page
Deluxe Shipping Case	SmartCart ATA Shipping Case (with DVL Bag)	100-60-0063






NOGGIN 500 SmartCart System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
Noggin 500 SmartCart 	Noggin 100 SmartCart 	100-22-0060 – Noggin 100 or 100-22-0108 – Noggin Ultra 100 or 100-22-0115 – Noggin Ultra 100 HP* 100-53-0086 – 1/2m SmartCart Separation Kit 100-52-0091 – Odometer extension cable (0.45m) Optional Items: 100-53-0102 – pulseEKKO/Noggin 100 SmartCart GPS mount 100-52-0147 – 2.75m GPS cable
	Noggin 250 SmartCart 	100-22-0061 – Noggin 250 100-53-0125 – Noggin 250 Cart Conversion kit w/ swivel Mounting Posts
	Noggin 1000 SmartCart 	100-22-0063 – Noggin 1000 100-53-0127 – Noggin 1000 Cart Conversion kit w/ swivel Mounting Posts

*Not available in all countries. Check with your distributor.

NOGGIN 500 SmartCart System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
 <p>Noggin 500 SmartCart</p>	 <p>Noggin 500 SmartTow</p>	100-53-0128: Noggin 250/500/1000 SmartTow Configuration Optional Item: 100-52-0147: 2.75m GPS cable
	 <p>Noggin 500 SmartChariot</p>	100-53-0130: Noggin 250/500/1000 SmartChariot Configuration Optional Item: 100-52-0148: 13m GPS cable
	 <p>Noggin 500 SmartSled</p>	100-53-0131: Noggin 250/500/1000 SmartSled Configuration Optional Item: 100-52-0148: 13m GPS cable
	 <p>Noggin 500 SmartHandle</p>	100-53-0117: Noggin 500 SmartHandle Configuration

NOGGIN 250 SmartCart System (100-10-0156)



Data Logger:

DVL-500N
100-22-0089



Configuration:

Noggin 250 SmartCart
100-53-0132

Includes 1.75m cable,
SmartCart battery
and battery charger

GPR Sensor:

Noggin 250
100-22-0061




*GNSS and mount shown are optional

Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin 250/500/1000 SmartCart	100-54-0156X
Spare Battery	Noggin/pulseEKKO Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartCart Cable (1.75m)	100-52-0048
Other Cable Lengths	2.5, 5, 10, 15 meters	See Noggin Accessories page
Deluxe Shipping Case	SmartCart ATA Shipping Case (with DVL Bag)	100-60-0063





NOGGIN 250 SmartCart System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 250 SmartCart</p> 	<p>Noggin 100 SmartCart</p> 	<p>100-22-0060 – Noggin 100 or 100-22-0108 – Noggin Ultra 100 or 100-22-0115 – Noggin Ultra 100 HP* 100-53-0086 – 1/2m SmartCart Separation Kit 100-52-0091 – Odometer extension cable (0.45m)</p> <p>Optional Items: 100-53-0102 – pulseEKKO/Noggin 100 SmartCart GPS mount 100-52-0147 – 2.75m GPS cable</p>
	<p>Noggin 500 SmartCart</p> 	<p>100-22-0062 – Noggin 500 100-53-0126 – Noggin 500 Cart Conversion kit w/ swivel Mounting Posts</p>
	<p>Noggin 1000 SmartCart</p> 	<p>100-22-0063 – Noggin 1000 100-53-0127 – Noggin 1000 Cart Conversion kit w/ swivel Mounting Posts</p>

*Not available in all countries. Check with your distributor.

NOGGIN 250 SmartCart System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
Noggin 250 SmartCart 	Noggin 250 SmartTow 	100-53-0128: Noggin 250/500/1000 SmartTow Configuration Optional Item: 100-52-0147: 2.75m GPS cable
	Noggin 250 SmartChariot 	100-53-0130: Noggin 250/500/1000 SmartChariot Configuration Optional Item: 100-52-0148: 13m GPS cable
	Noggin 250 SmartSled 	100-53-0131: Noggin 250/500/1000 SmartSled Configuration Optional Item: 100-52-0148: 13m GPS cable

NOGGIN 100 SmartCart System (100-10-0155)



Data Logger:

DVL-500N
100-22-0089



Configuration:

Noggin 100 SmartCart
100-53-0133

Includes 1.75m cable, 0.45m
odometer extension cable,
SmartCart battery
and battery charger

GPR Sensor:

Noggin 100
100-22-0060

*GNSS and mount shown are optional

Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin 100/pulseEKKO SmartCart	100-54-0155X
Spare Battery	Noggin/pulseEKKO Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartCart Cable (1.75m)	100-52-0048
Other Cable Lengths	2.5, 5, 10, 15 meters	See Noggin Accessories page
Deluxe Shipping Case	SmartCart ATA Shipping Case (with DVL Bag)	100-60-0063

NOGGIN Ultra 100 SmartCart System (100-10-0182)



Data Logger:

DVL-500N
100-22-0089

Configuration:

Noggin 100 SmartCart
100-53-0133

Includes 1.75m cable,
0.45m odometer
extension cable,
SmartCart battery
and battery charger

GPR Sensor:

Noggin Ultra 100
100-22-0108

*GNSS and mount shown are optional

Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin 100/pulseEKKO SmartCart	100-54-0155X
Spare Battery	Noggin/pulseEKKO Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartCart Cable (1.75m)	100-52-0048
Other Cable Lengths	2.5, 5, 10, 15 meters	See Noggin Accessories page
Deluxe Shipping Case	SmartCart ATA Shipping Case (with DVL Bag)	100-60-0063

NOGGIN Ultra 100 HP SmartCart System (100-10-0186)*



Data Logger:

DVL-500N
100-22-0089

Configuration:

Noggin 100 SmartCart
100-53-0133

Includes 1.75m cable,
0.45m odometer
extension cable,
SmartCart battery
and battery charger

GPR Sensor:

Noggin Ultra 100 HP*
100-22-0115

**GNSS and mount shown are optional





Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin 100/pulseEKKO SmartCart	100-54-0155X
Spare Battery	Noggin/pulseEKKO Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartCart Cable (1.75m)	100-52-0048
Other Cable Lengths	2.5, 5, 10, 15 meters	See Noggin Accessories page
Deluxe Shipping Case	SmartCart ATA Shipping Case (with DVL Bag)	100-60-0063


*Not available in all countries. Check with your distributor.

NOGGIN 100 SmartCart System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 100 SmartCart</p> 	<p>Noggin 250 SmartCart</p> 	<p>100-22-0061 – Noggin 250 100-53-0125 – Noggin 250 Cart Conversion kit w/swivel Mounting Posts</p> <p>Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable</p>
	<p>Noggin 500 SmartCart</p> 	<p>100-22-0062 – Noggin 500 100-53-0126 – Noggin 500 Cart Conversion kit w/swivel Mounting Posts</p> <p>Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable</p>
	<p>Noggin 1000 SmartCart</p> 	<p>100-22-0063 – Noggin 1000 100-53-0127 – Noggin 1000 Cart Conversion kit w/swivel Mounting Posts</p> <p>Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable</p>

NOGGIN 100 SmartCart System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 100 SmartCart</p> 	<p>Noggin 100 SmartTow</p> 	<p>100-53-0129: Noggin 100 SmartTow Configuration</p>

NOGGIN 1000 SmartTow System (100-10-0192)



Configuration:

Noggin 250/500/1000 SmartTow
100-53-0128

Includes deluxe DVL-500
harness, 2.5m cable, belt
battery and battery charger

Data Logger:

DVL-500N
100-22-0089



GPR Sensor:





Noggin 1000
100-22-0063

Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin SmartTow/SmartHandle	100-54-0152
GNSS carrier	GPS Backpack with Pole	100-53-0116
Spare Battery	Belt Battery with Case	100-55-0012
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartHandle Cable (2.5m)	100-52-0051
Other Cable Lengths	1.75, 5, 10, 15 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066






NOGGIN 1000 SmartTow System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 1000 SmartTow</p> 	<p>Noggin 100 SmartTow</p> 	<p>100-22-0060 – Noggin 100 or 100-22-0108 – Noggin Ultra 100 or 100-22-0115 – Noggin Ultra 100 HP*</p> <p>100-53-0084 – 1/2m Tow Frame</p>
	<p>Noggin 250 SmartTow</p> 	<p>100-22-0061 – Noggin 250</p>
	<p>Noggin 500 SmartTow</p> 	<p>100-22-0062 – Noggin 500</p>

*Not available in all countries. Check with your distributor.

NOGGIN 1000 SmartTow System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 1000 SmartTow</p> 	<p>Noggin 1000 SmartCart</p> 	<p>100-53-0135: Noggin 1000 SmartCart Configuration</p>
	<p>Noggin 1000 SmartChariot</p> 	<p>100-53-0130: Noggin 250/500/1000 SmartChariot Configuration Optional Item: 100-52-0148: 13m GPS cable</p>
	<p>Noggin 1000 SmartSled</p> 	<p>100-53-0131: Noggin 250/500/1000 SmartSled Configuration Optional Item: 100-52-0148: 13m GPS cable</p>
	<p>Noggin 1000 SmartHandle</p> 	<p>100-53-0118: Noggin 1000 SmartHandle Configuration</p>

NOGGIN 500 SmartTow System (100-10-0191)



Configuration:

Noggin 250/500/1000 SmartTow
100-53-0128

Includes deluxe DVL-500
harness, 2.5m cable, belt
battery and battery charger

Data Logger:

DVL-500N
100-22-0089



GPR Sensor:





Noggin 500
100-22-0062

Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin SmartTow/SmartHandle	100-54-0152
GNSS carrier	GPS Backpack with Pole	100-53-0116
Spare Battery	Belt Battery with Case	100-55-0012
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartHandle Cable (2.5m)	100-52-0051
Other Cable Lengths	1.75, 5, 10, 15 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066






NOGGIN 500 SmartTow System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 500 SmartTow</p> 	<p>Noggin 100 SmartTow</p> 	<p>100-22-0060 – Noggin 100 or 100-22-0108 – Noggin Ultra 100 or 100-22-0115 – Noggin Ultra 100 HP*</p> <p>100-53-0084 – 1/2m Tow Frame</p>
	<p>Noggin 250 SmartTow</p> 	<p>100-22-0061 – Noggin 250</p>
	<p>Noggin 1000 SmartTow</p> 	<p>100-22-0063 – Noggin 1000</p>

*Not available in all countries. Check with your distributor.

NOGGIN 500 SmartTow System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
Noggin 500 SmartTow 	Noggin 500 SmartCart 	100-53-0134: Noggin 500 SmartCart Configuration
	Noggin 500 SmartChariot 	100-53-0130: Noggin 250/500/1000 SmartChariot Configuration Optional Item: 100-52-0148: 13m GPS cable
	Noggin 500 SmartSled 	100-53-0131: Noggin 250/500/1000 SmartSled Configuration Optional Item: 100-52-0148: 13m GPS cable
	Noggin 500 SmartHandle 	100-53-0117: Noggin 500 SmartHandle Configuration

NOGGIN 250 SmartTow System (100-10-0190)



Configuration:

Noggin 250/500/1000 SmartTow
100-53-0128

Includes deluxe DVL-500
harness, 2.5m cable, belt
battery and battery charger

Data Logger:

DVL-500N
100-22-0089



GPR Sensor:





Noggin 250
100-22-0061

Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin SmartTow/SmartHandle	100-54-0152
GNSS carrier	GPS Backpack with Pole	100-53-0116
Spare Battery	Belt Battery with Case	100-55-0012
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartHandle Cable (2.5m)	100-52-0051
Other Cable Lengths	1.75, 5, 10, 15 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066





NOGGIN 250 SmartTow System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 250 SmartTow</p> 	<p>Noggin 100 SmartTow</p> 	<p>100-22-0060 – Noggin 100 or 100-22-0108 – Noggin Ultra 100 or 100-22-0115 – Noggin Ultra 100 HP*</p> <p>100-53-0084 – 1/2m Tow Frame</p>
	<p>Noggin 500 SmartTow</p> 	<p>100-22-0062 – Noggin 500</p>
	<p>Noggin 1000 SmartTow</p> 	<p>100-22-0063 – Noggin 1000</p>

*Not available in all countries. Check with your distributor.

NOGGIN 250 SmartTow System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
Noggin 250 SmartTow 	Noggin 250 SmartCart 	100-53-0132: Noggin 250 SmartCart Configuration Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable
	Noggin 250 SmartChariot 	100-53-0130: Noggin 250/500/1000 SmartChariot Configuration Optional Item: 100-52-0148: 13m GPS cable
	Noggin 250 SmartSled 	100-53-0131: Noggin 250/500/1000 SmartSled Configuration Optional Item: 100-52-0148: 13m GPS cable

NOGGIN 100 SmartTow System (100-10-0195)



Configuration:

Noggin 100 SmartTow
100-53-0129

Includes deluxe DVL-500 harness,
2.5m cable, belt battery
and battery charger

Data Logger:

DVL-500N
100-22-0089

GPR Sensor:

Noggin 100
100-22-0060

Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin SmartTow/SmartHandle	100-54-0152
GNSS carrier	GPS Backpack with Pole	100-53-0116
Spare Battery	Belt Battery with Case	100-55-0012
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartHandle Cable (2.5m)	100-52-0051
Other Cable Lengths	1.75, 5, 10, 15 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066

NOGGIN Ultra 100 SmartTow System (100-10-0196)



Configuration:

Noggin 100 SmartTow
100-53-0129

Includes deluxe DVL-500 harness,
2.5m cable, belt battery
and battery charger

Data Logger:

DVL-500N
100-22-0089

GPR Sensor:

Noggin Ultra 100
100-22-0108

Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin SmartTow/SmartHandle	100-54-0152
GNSS carrier	GPS Backpack with Pole	100-53-0116
Spare Battery	Belt Battery with Case	100-55-0012
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartHandle Cable (2.5m)	100-52-0051
Other Cable Lengths	1.75, 5, 10, 15 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066

NOGGIN Ultra 100 HP SmartTow System (100-10-0197)*



Configuration:

Noggin 100 SmartTow
100-53-0129

Includes deluxe DVL-500 harness,
2.5m cable, belt battery
and battery charger

Data Logger:

DVL-500N
100-22-0089

GPR Sensor:

Noggin Ultra 100 HP*
100-22-0115





*Not available in all countries. Check with your distributor.

Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin SmartTow/SmartHandle	100-54-0152
GNSS carrier	GPS Backpack with Pole	100-53-0116
Spare Battery	Belt Battery with Case	100-55-0012
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartHandle Cable (2.5m)	100-52-0051
Other Cable Lengths	1.75, 5, 10, 15 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066

NOGGIN 100 SmartTow System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 100 SmartTow</p> 	<p>Noggin 250 SmartTow</p> 	<p>100-22-0061 – Noggin 250 100-53-0066 – (Qty 2) – Noggin 250 SmartTow Bracket</p>
	<p>Noggin 500 SmartTow</p> 	<p>100-22-0062 – Noggin 500 100-53-0080X – Noggin 500/1000 SmartTow Adapters</p>
	<p>Noggin 1000 SmartTow</p> 	<p>100-22-0063 – Noggin 1000 100-53-0080X – Noggin 500/1000 SmartTow Adapters</p>

NOGGIN 100 SmartTow System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 100 SmartTow</p> 	<p>Noggin 100 SmartCart</p> 	<p>100-53-0133 – Noggin 100 SmartCart Configuration</p>

NOGGIN 1000 SmartChariot System (100-10-0172)



Data Logger:

DVL-500N
100-22-0089



Configuration:

Noggin 250/500/1000 SmartChariot
100-53-0130

Includes 15m cable,
SmartChariot battery
and battery charger

GPR Sensor:

Noggin 1000
100-22-0063




*GNSS shown is optional

Optional Accessories (see photos on Noggin Accessories page)






System Component	Part Name	Part Number
GNSS	GPS Kit for SmartSled/SmartChariot	100-54-0151X
Spare Battery	Noggin/pulseEKKO Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin to DVL Cable (15m)	100-52-0115
Other Cable Lengths	1.75, 2.5, 5, 10 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066

NOGGIN 1000 SmartChariot System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 1000 SmartChariot</p> 	<p>Noggin 250 SmartChariot</p> 	<p>100-22-0061 – Noggin 250</p>
	<p>Noggin 500 SmartChariot</p> 	<p>100-22-0062 – Noggin 500</p>

NOGGIN 1000 SmartChariot System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 1000 SmartChariot</p> 	<p>Noggin 1000 SmartCart</p> 	<p>100-53-0135 – Noggin 1000 SmartCart Configuration</p> <p>Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable</p>
	<p>Noggin 1000 SmartTow</p> 	<p>100-53-0128 – Noggin 250/500/1000 SmartTow Configuration</p> <p>Optional Item: 100-52-0147 – 2.75m GPS cable</p>
	<p>Noggin 1000 SmartSled</p> 	<p>100-53-0131 – Noggin 250/500/1000 SmartSled Configuration</p>
	<p>Noggin 1000 Smarthandle</p> 	<p>100-53-0118 – Noggin 1000 SmartHandle Configuration</p>

NOGGIN 500 SmartChariot System (100-10-0171)



Data Logger:

DVL-500N
100-22-0089



Configuration:

Noggin 250/500/1000 SmartChariot
100-53-0130

Includes 15m cable,
SmartChariot battery
and battery charger

GPR Sensor:




Noggin 500
100-22-0062

*GNSS shown is optional






Optional Accessories (see photos on Noggin Accessories page)

System Component	Part Name	Part Number
GNSS	GPS for SmartSled/SmartChariot Kit	100-54-0151X
Spare Battery	Noggin/pulseEKKO Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin to DVL Cable (15m)	100-52-0115
Other Cable Lengths	1.75, 2.5, 5, 10 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066

NOGGIN 500 SmartChariot System: Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 500 SmartChariot</p> 	<p>Noggin 250 SmartChariot</p> 	<p>100-22-0061 – Noggin 250</p>
	<p>Noggin 1000 SmartChariot</p> 	<p>100-22-0063 – Noggin 1000</p>

NOGGIN 500 SmartChariot System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 500 SmartChariot</p> 	<p>Noggin 500 SmartCart</p> 	<p>100-53-0134 – Noggin 500 SmartCart Configuration</p> <p>Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable</p>
	<p>Noggin 500 SmartTow</p> 	<p>100-53-0128 – Noggin 250/500/1000 SmartTow Configuration</p> <p>Optional Item: 100-52-0147 – 2.75m GPS cable</p>
	<p>Noggin 500 SmartSled</p> 	<p>100-53-0131 – Noggin 250/500/1000 SmartSled Configuration</p>
	<p>Noggin 500 Smarthandle</p> 	<p>100-53-0117 – Noggin 500 SmartHandle Configuration</p>

NOGGIN 250 SmartChariot System (100-10-0170)



Data Logger:

DVL-500N
100-22-0089



Configuration:

Noggin 250/500/1000 SmartChariot
100-53-0130

Includes 15m cable,
SmartChariot battery
and battery charger

GPR Sensor:

Noggin 250
100-22-0061




*GNSS shown is optional

Optional Accessories (see photos on Noggin Accessories page)




System Component	Part Name	Part Number
GNSS	GPS for SmartSled/SmartChariot Kit	100-54-0151X
Spare Battery	Noggin/pulseEKKO Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin to DVL Cable (15m)	100-52-0115
Other Cable Lengths	1.75, 2.5, 5, 10 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066

NOGGIN 250 SmartChariot System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 250 SmartChariot</p> 	<p>Noggin 500 SmartChariot</p> 	<p>100-22-0062 – Noggin 500</p>
	<p>Noggin 1000 SmartChariot</p> 	<p>100-22-0063 – Noggin 1000</p>

NOGGIN 250 SmartChariot System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 250 SmartChariot</p> 	<p>Noggin 250 SmartCart</p> 	<p>100-53-0132 – Noggin 250 SmartCart Configuration</p> <p>Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable</p>
	<p>Noggin 250 SmartTow</p> 	<p>100-53-0128 – Noggin 250/500/1000 SmartTow Configuration</p> <p>Optional Item: 100-52-0147 – 2.75m GPS cable</p>
	<p>Noggin 250 SmartSled</p> 	<p>100-53-0131 – Noggin 250/500/1000 SmartSled Configuration</p>

NOGGIN 1000 SmartSled System (100-10-0189)



Data Logger:

DVL-500N
100-22-0089

Configuration:

Noggin 250/500/1000 SmartSled
100-53-0131

Includes 15m cable,
1m odometer extension
cable, SmartSled battery
and battery charger



GPR Sensor:

Noggin 1000
100-22-0063




*GNSS shown is optional

Optional Accessories (see photos on Noggin Accessories page)



System Component	Part Name	Part Number
GNSS	GPS for SmartSled/SmartChariot Kit	100-54-0151X
Spare Battery	Noggin/pulseEKKO Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin to DVL Cable (15m)	100-52-0115
Other Cable Lengths	1.75, 2.5, 5, 10 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066

NOGGIN 1000 SmartSled System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 1000 SmartSled</p> 	<p>Noggin 250 SmartSled</p> 	<p>100-22-0061 – Noggin 250</p>
	<p>Noggin 500 SmartSled</p> 	<p>100-22-0062 – Noggin 500</p>

NOGGIN 1000 SmartSled System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 1000 SmartSled</p> 	<p>Noggin 1000 SmartCart</p> 	<p>100-53-0135 – Noggin 1000 SmartCart Configuration</p> <p>Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable</p>
	<p>Noggin 1000 SmartTow</p> 	<p>100-53-0128 – Noggin 250/500/1000 SmartTow Configuration</p> <p>Optional Item: 100-52-0147 – 2.75m GPS cable</p>
	<p>Noggin 1000 SmartChariot</p> 	<p>100-53-0130 – Noggin 250/500/1000 SmartChariot Configuration</p>
	<p>Noggin 1000 Smarthandle</p> 	<p>100-53-0118 – Noggin 1000 SmartHandle Configuration</p>

NOGGIN 500 SmartSled System (100-10-0188)



Data Logger:

DVL-500N
100-22-0089



Configuration:

Noggin 250/500/1000 SmartSled
100-53-0131

Includes 15m cable,
1m odometer extension
cable, SmartSled battery
and battery charger

GPR Sensor:

Noggin 500
100-22-0062




*GNSS shown is optional

Optional Accessories (see photos on Noggin Accessories page)






System Component	Part Name	Part Number
GNSS	GPS for SmartSled/SmartChariot Kit	100-54-0151X
Spare Battery	Noggin/pulseEKKO Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin to DVL Cable (15m)	100-52-0115
Other Cable Lengths	1.75, 2.5, 5, 10 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066

NOGGIN 500 SmartSled System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 500 SmartSled</p> 	<p>Noggin 250 SmartSled</p> 	<p>100-22-0062 – Noggin 500</p>
	<p>Noggin 1000 SmartSled</p> 	<p>100-22-0063 – Noggin 1000</p>

NOGGIN 500 SmartSled System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 500 SmartSled</p> 	<p>Noggin 500 SmartCart</p> 	<p>100-53-0134 – Noggin 500 SmartCart Configuration</p> <p>Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable</p>
	<p>Noggin 500 SmartTow</p> 	<p>100-53-0128 – Noggin 250/500/1000 SmartTow Configuration</p> <p>Optional Item: 100-52-0147 – 2.75m GPS cable</p>
	<p>Noggin 500 SmartChariot</p> 	<p>100-53-0130 – Noggin 250/500/1000 SmartChariot Configuration</p>
	<p>Noggin 500 Smarthandle</p> 	<p>100-53-0117 – Noggin 500 SmartHandle Configuration</p>

NOGGIN 250 SmartSled System (100-10-0185)



Data Logger:

DVL-500N
100-22-0089

Configuration:

Noggin 250/500/1000 SmartSled
100-53-0131

Includes 15m cable,
1m odometer extension
cable, SmartSled battery
and battery charger



GPR Sensor:

Noggin 250
100-22-0061




*GNSS shown is optional

Optional Accessories (see photos on Noggin Accessories page)





System Component	Part Name	Part Number
GNSS	GPS for SmartSled/SmartChariot Kit	100-54-0151X
Spare Battery	Noggin/pulseEKKO Power Source with Case	100-55-0021
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin to DVL Cable (15m)	100-52-0115
Other Cable Lengths	1.75, 2.5, 5, 10 meters	See Noggin Accessories page
Data Logger Case	Deluxe DVL-500 Shipping Case	100-60-0066

NOGGIN 250 SmartSled System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 250 SmartSled</p> 	<p>Noggin 500 SmartSled</p> 	<p>100-22-0062 – Noggin 500</p>
	<p>Noggin 1000 SmartSled</p> 	<p>100-22-0063 – Noggin 1000</p>

NOGGIN 250 SmartSled System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 250 SmartSled</p> 	<p>Noggin 250 SmartCart</p> 	<p>100-53-0132 – Noggin 250 SmartCart Configuration</p> <p>Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable</p>
	<p>Noggin 250 SmartTow</p> 	<p>100-53-0128 – Noggin 250/500/1000 SmartTow Configuration</p> <p>Optional Item: 100-52-0147 – 2.75m GPS cable</p>
	<p>Noggin 250 SmartChariot</p> 	<p>100-53-0130 – Noggin 250/500/1000 SmartChariot Configuration</p>

NOGGIN 1000 SmartHandle System (100-10-0194)



Configuration:

Noggin 1000 SmartHandle
100-53-0118

Includes deluxe DVL-500
harness, 2.5m cable, belt
battery and battery charger

Data Logger:

DVL-500N
100-22-0089



GPR Sensor:

Noggin 1000
100-22-0063

Optional Accessories (see photos on Noggin Accessories page)


System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin SmartTow/SmartHandle	100-54-0152
GNSS carrier	GPS Backpack with Pole	100-53-0116
Spare Battery	Belt Battery with Case	100-55-0012
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartHandle Cable (2.5m)	100-52-0051
Other Cable Lengths	1.75, 5, 10, 15 meters	See Noggin Accessories page

NOGGIN 1000 SmartHandle System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 1000 SmartHandle</p> 	<p>Noggin 500 SmartHandle</p> 	<p>100-22-0062 – Noggin 500 100-54-0078 – Noggin 500 odometer with bracket</p>

NOGGIN 1000 SmartHandle System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 1000 SmartHandle</p> 	<p>Noggin 1000 SmartCart</p> 	<p>100-53-0135 – Noggin 1000 SmartCart Configuration</p> <p>Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable</p>
	<p>Noggin 1000 SmartTow</p> 	<p>100-53-0128 – Noggin 250/500/1000 SmartTow Configuration</p> <p>Optional Item: 100-52-0147 – 2.75m GPS cable</p>
	<p>Noggin 1000 SmartSled</p> 	<p>100-53-0131 – Noggin 250/500/1000 SmartSled Configuration</p>
	<p>Noggin 1000 SmartChariot</p> 	<p>100-53-0130 – Noggin 250/500/1000 SmartChariot Configuration</p>

NOGGIN 500 SmartHandle System (100-10-0193)



Configuration:

Noggin 500 SmartHandle
100-53-0117

Includes deluxe DVL-500
harness, 2.5m cable, belt
battery and battery charger

Data Logger:

DVL-500N
100-22-0089



GPR Sensor:

Noggin 500
100-22-0062

Optional Accessories (see photos on Noggin Accessories page)






System Component	Part Name	Part Number
GNSS	GPS Kit for Noggin SmartTow/SmartHandle	100-54-0152
GNSS carrier	GPS Backpack with Pole	100-53-0116
Spare Battery	Belt Battery with Case	100-55-0012
Spare Battery Charger	Battery Charger	100-55-0027
Spare Cable	Noggin SmartHandle Cable (2.5m)	100-52-0051
Other Cable Lengths	1.75, 5, 10, 15 meters	See Noggin Accessories page

NOGGIN 500 SmartHandle System:

Add another Noggin

System & Configuration	New System & Configuration	Part Numbers Required
<p>Noggin 500 SmartHandle</p> 	<p>Noggin 1000 SmartHandle</p> 	<p>100-22-0063 – Noggin 1000 100-54-0077 – Noggin 1000 odometer with bracket</p>

NOGGIN 500 SmartHandle System: Add another Configuration

System & Configuration	Additional Configuration	Part Number
<p>Noggin 500 SmartHandle</p> 	<p>Noggin 500 SmartCart</p> 	<p>100-53-0134 – Noggin 500 SmartCart Configuration</p> <p>Optional Items: 100-53-0101 – Noggin 250/500/1000 SmartCart GPS mount 100-52-0146 – 1.1m GPS cable</p>
	<p>Noggin 500 SmartTow</p> 	<p>100-53-0128 – Noggin 250/500/1000 SmartTow Configuration</p> <p>Optional Item: 100-52-0147 – 2.75m GPS cable</p>
	<p>Noggin 500 SmartSled</p> 	<p>100-53-0131 – Noggin 250/500/1000 SmartSled Configuration</p>
	<p>Noggin 500 SmartChariot</p> 	<p>100-53-0130 – Noggin 250/500/1000 SmartChariot Configuration</p>

NOGGIN Accessories – GPS



100-22-0112 – GPS Antenna with Mounting Plate



100-52-0146 – 1.1m GPS cable
100-52-0147 – 2.75m GPS cable
100-52-0148 – 13m GPS cable



100-53-0101 – Noggin SmartCart GPS Mount
100-53-0102 – pulseEKKO/Noggin 100 SmartCart GPS mount



GPS Backpack with Pole – 100-53-0116
(GPS not included)

GPS Kit for Noggin 250/500/1000 SmartCart – 100-54-0156X

Consists of:

- 100-22-0112 – GPS Antenna with Mounting Plate
- 100-52-0146 – 1.1m GPS cable
- 100-53-0101 – Noggin SmartCart GPS Mount

GPS Kit for Noggin 100 SmartCart – 100-54-0155X

Consists of:

- 100-22-0112 – GPS Antenna with Mounting Plate
- 100-52-0147 – 2.75m GPS cable
- 100-53-0102 – pulseEKKO/Noggin 100 SmartCart GPS mount

GPS Kit for SmartTow/SmartHandle – 100-54-0152

Consists of:

- 100-22-0112 – GPS Antenna with Mounting Plate
- 100-52-0147 – 2.75m GPS cable

GPS Kit for SmartChariot/SmartSled – 100-54-0151X

Consists of:

- 100-22-0112 – GPS Antenna with Mounting Plate
- 100-52-0148 – 13m GPS cable

NOGGIN Optional Accessories

Spare SmartCart/Chariot/Sled Battery with Case

100-55-0021



Spare SmartTow/Handle Belt Battery with Case

100-55-0012



Spare Battery Charger

100-55-0027



SmartCart ATA Shipping Case (with DVL Bag)

100-60-0063



Spare Noggin Cables

SmartCart (1.75m) 100-52-0048

SmartTow/Handle (2.5m) 100-52-0051

SmartChariot/Sled (15m) 100-52-0115



Other cable lengths available:

- 5m, 100-52-0049
- 10m, 100-52-0099

Specialty Noggin Cables

- 0.75m, 100-52-0049 (no odom input)
- 10m, 100-52-0050 (opposite odom input)

Noggin Spare Parts Kit

100-54-0157

One Spare Parts Kit is included with every Noggin system



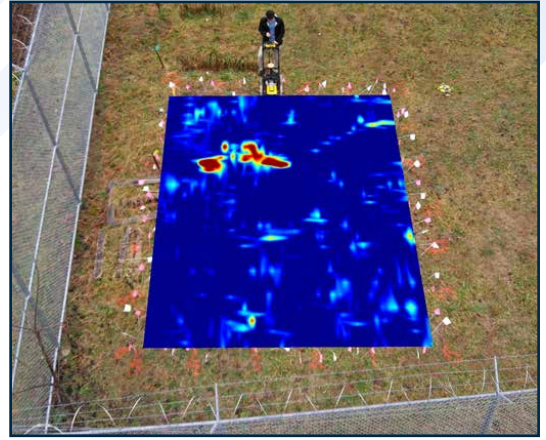
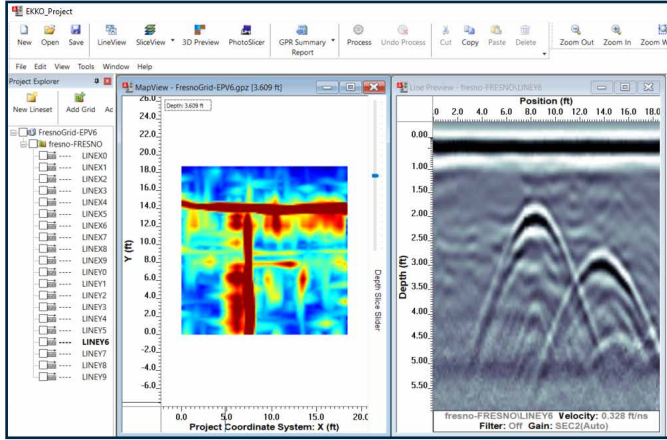
Deluxe DVL-500 Case

100-60-0066 (DVL-500 not included)



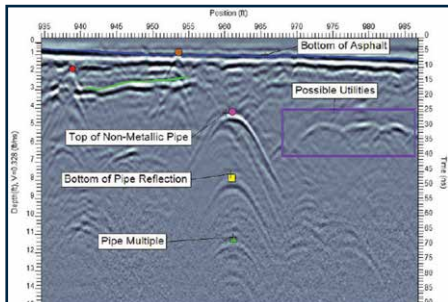
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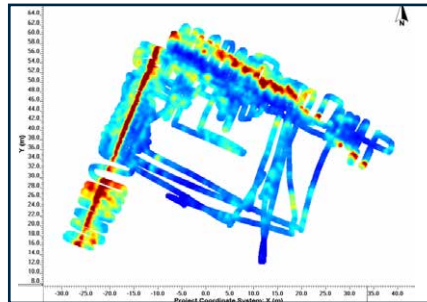


Core

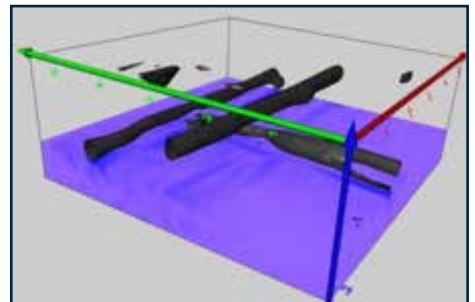
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Examine (Cross-sections)



Reveal (Depth Slices)



3D Reveal (3D Visualization)

Software Bundle	Part Number
Core	100-11-0130
Examine	100-11-0131
Reveal	100-11-0132
Suite	100-11-0133
3D Reveal	100-11-0134
3D Suite	100-11-0135

2 and 3 License bundles available

Optional Modules	Part Number
Bridge Deck Report	100-11-0136
Pavement Structure Report	100-11-0137

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