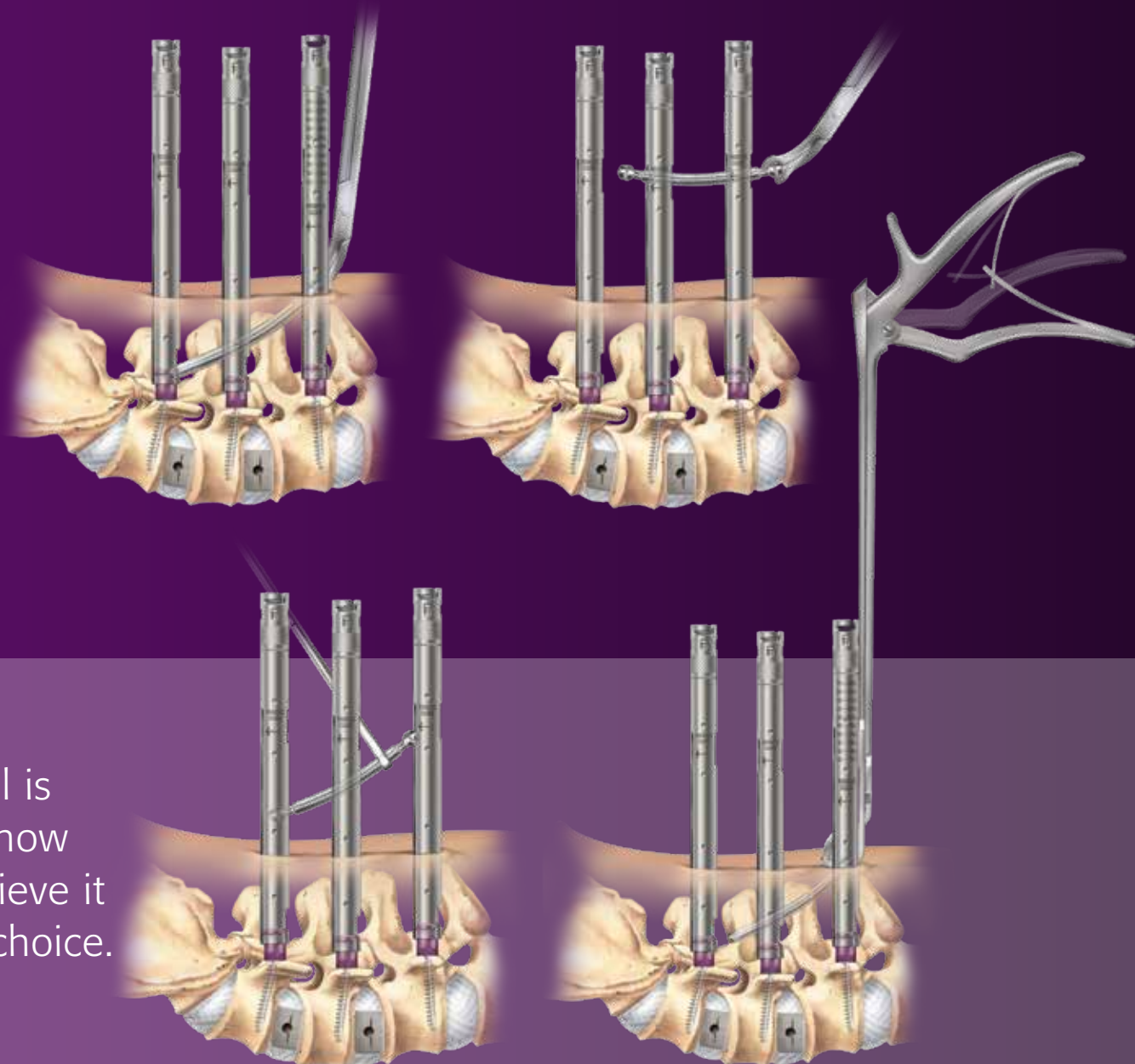




## Delivering Versatility and Efficiency



The goal is clear – how you achieve it is your choice.

# Delivering Versatility and Efficiency

## SpheRx<sup>®</sup> DBR<sup>®</sup> II

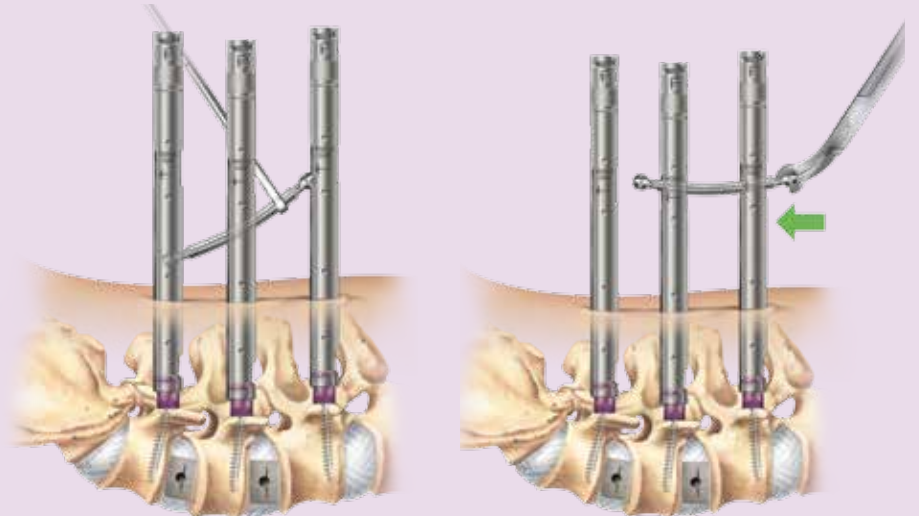
SpheRx DBR II is designed to enable the surgeon to dictate how each surgery is performed. Offering two patented rod designs, delivered through four insertion techniques, SpheRx DBR II provides an unprecedented ability for the surgeon to customize the approach to the individual patient and procedure. In addition to remarkable versatility, SpheRx DBR II is designed to be incredibly efficient with an advanced locking Guide design, seamless reduction capabilities, and exclusive "instrument-free" compression. SpheRx DBR II delivers a combination of versatility and efficiency which has previously eluded minimally disruptive pedicle screw fixation.



## Rod Delivery Techniques

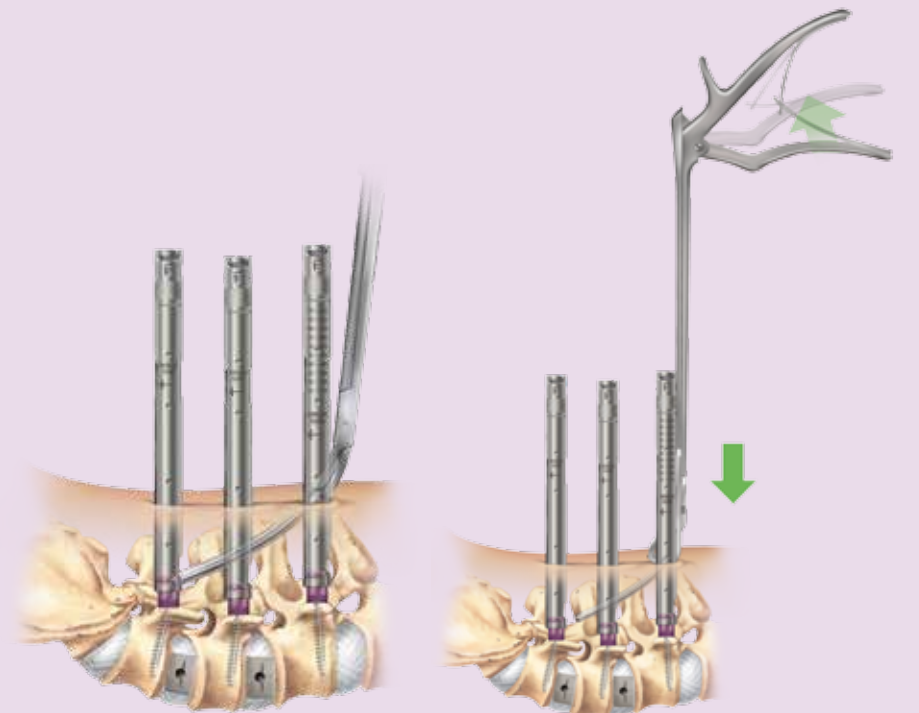
### Dual Ball Rod

- Fully constrained rod insertion
  - Delivers the rod directly into the screw heads
- Instrument-free compression
  - Enabled by the patented Dual Ball Rod design, SpheRx DBR II offers effective compression without the introduction of additional instruments
- Zero profile rod overhang
  - Potential to minimize the incidence of superior facet joint violation



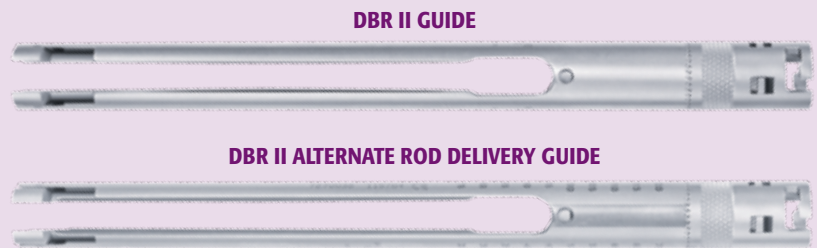
### Single Ball Rod

- Minimal incision requirements
- Simple, reproducible rod insertion
- Zero profile rod overhang



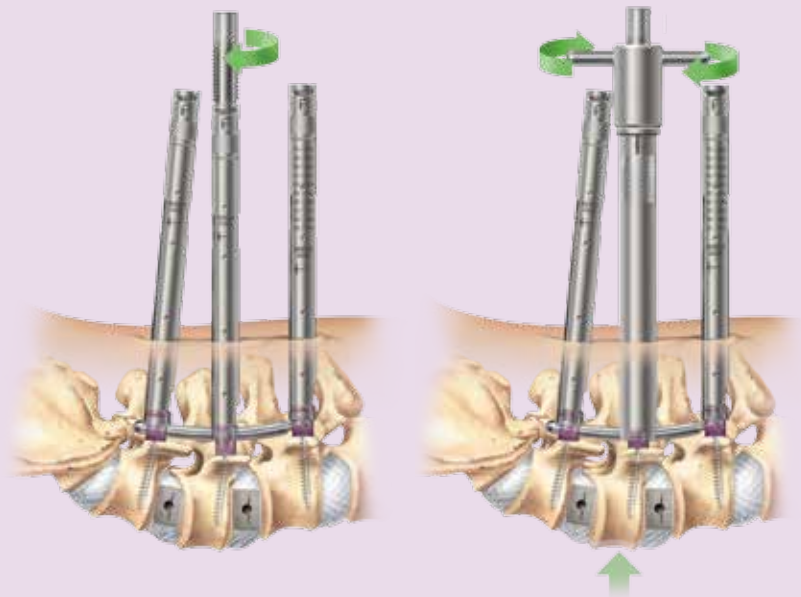
## Locking Guide Design

- Six points of positive screw engagement
- Simple locking mechanism



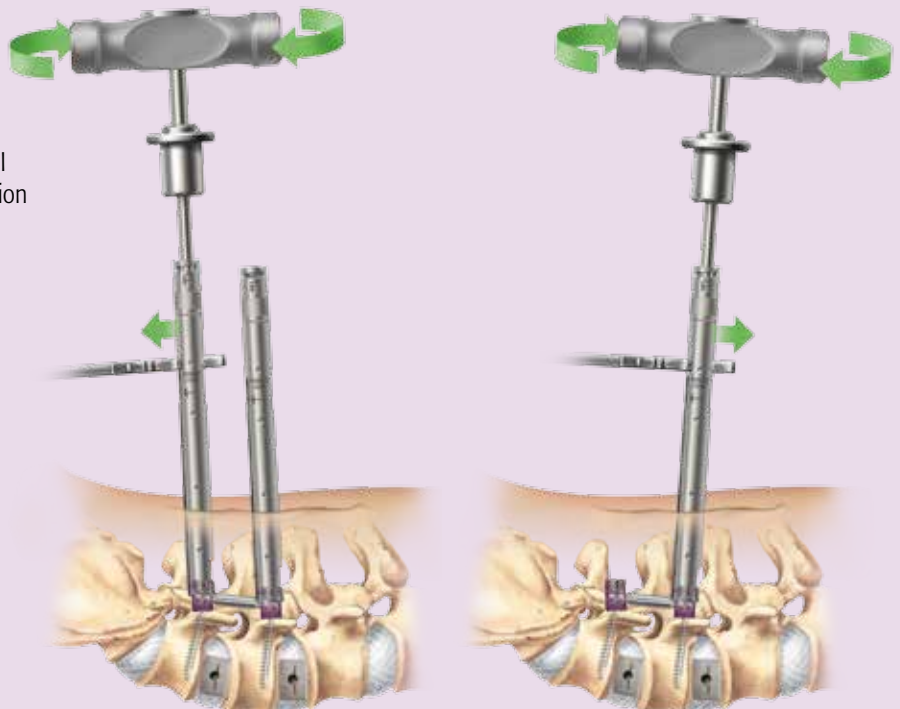
## Reduction

- Seamless integration with SpheRx® DBR® II Guides
- Delivers up to 30mm of reduction



## Instrument-Free Compression

Patented spherical rod end(s) enable SpheRx DBR II to provide up to 5mm of instrument-free compression without the addition of bulky instrumentation.

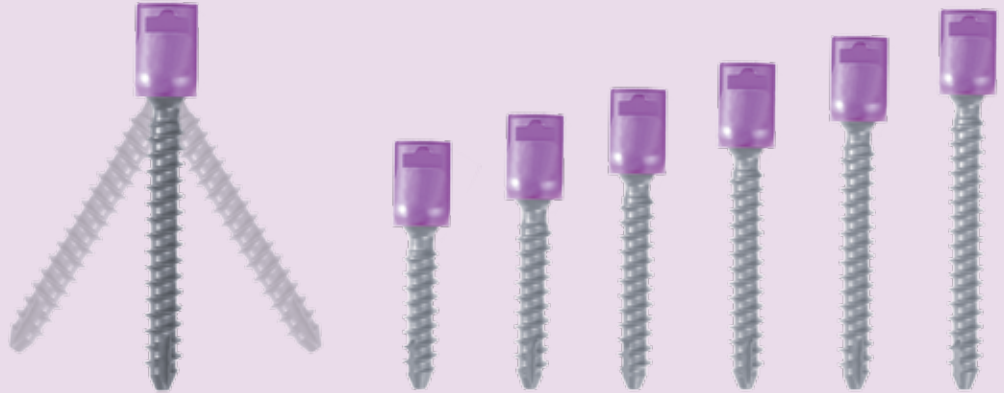


# Delivering Versatility and Efficiency

## SpheRx<sup>®</sup> DBR<sup>®</sup> II Implants

### Polyaxial Screws

- Cannulated, self-tapping shank
- 60° of screw head angulation
- Diameters: 5.5mm – 7.5mm
- Lengths: 30mm – 55mm



### Rods

- Patented design with spherical rod end(s)
- Diameter: 6.25mm
- Pre-bent design
- Dual Ball Rod
  - Lengths: 17.5mm – 80mm
- Single Ball Rod
  - Lengths: 20mm – 150mm



## Fully NVM5<sup>®</sup> Compatible

- Instrumentation designed to seamlessly integrate with NVM5 technology during multiple phases of the procedure.
- NVM5 Dynamic Stimulation mode to monitor safe passage during pedicle preparation and screw insertion.
- Free Run EMG mode for passive nerve monitoring during compression and final tightening.



## NVM5:

### Seamless, Procedural Integration

The challenge to any minimally disruptive pedicle screw procedure lies in the inherent inability to place screws with direct visualization of the pedicle. Moreover, screw placement is traditionally limited to 2D confirmation, using fluoroscopic imaging. Using NVM5 in conjunction with fluoroscopy provides an added layer of safety with the 3D sensitivity of its nerve avoidance technology. Using a proprietary, threshold-determining, hunting algorithm, NVM5 provides real-time feedback of initial pilot hole formation and throughout pedicle screw placement.

### Dynamic Screw Test

Real-time, continuous feedback is displayed as easy-to-interpret, color-coded, numeric threshold responses. Continuous stimulated EMG is seamlessly applied to your instruments to provide real-time information during:



#### Pedicle Targeting Using I-PAS™ III



#### Tapping



#### Screw Insertion



### Free Run EMG

Continuous monitoring of multiple spinal nerves during the SpheRx® DBR® II procedure provides a warning of neurological insult from mechanical stimuli. This is particularly valuable during:

- Rod Insertion
- Distraction
- Compression
- Final Tightening



If nerve manipulation generates EMG activity, NVM5 will immediately notify the user with an audible alert tone and a visual signal on the screen.

## CATALOG

### SPHERX® DBR® II INSTRUMENTS (TRAY ONE)

DESCRIPTION	CATALOG #
DBR II Instrument Tray One	7270001
DBR II Guide	7270013
Split DBR II Non-Locking Guide	7270015
DBR II Rod Pusher	7270016
DBR II Tissue Dissector	7270017
DBR II Alternate Rod Inserter	7270018
DBR II Screwdriver	7270019
DBR II Rod Measurement Tool	7270020
DBR II Primary Insulator	7270023
DBR II Tap Insulator	7270024
DBR II Screw Insulator	7270025
DBR II K-Wire Driver	7270027
DBR II Alignment Guide	7270028
DBR II Non-Locking Guide	7270031
Ratcheting Teardrop Handle	7270032
DBR II Self-Retaining Screwdriver	7270034
DBR II Alternate Rod Delivery Guide	7270035
Curved Tissue Dissector	7270040
DBR II Alignment Guide Ring	7270041
DBR II Thumb Screw	7270042
DBR II Threaded Rod Pusher	7270043
DBR II Fork Rod Pusher	7270045
DBR II Non-Locking Alternate Rod Delivery Guide	7270046
DBR II Rod Retrieval Tool	7270048
Quick-Connect Straight Handle, Short	7270049
DBR II Sphere Gripper, 30°	7270050
DBR II Sphere Gripper, 60°	7270051
DBR II Cannulated Awl	7270057
DBR II Rod Holder	7270058
Bevel Tip K-Wire	7270100
4.5mm Cannulated Tap	7270145
5.5mm Cannulated Tap	7270155
6.5mm Cannulated Tap	7270165
7.5mm Cannulated Tap	7270175
SpheRx IFU	9003905

### SPHERX DBR II INSTRUMENTS (TRAY TWO)

DESCRIPTION	CATALOG #
DBR II Instrument Tray Two	7270003
DBR II Torque T-Handle	7240025
DBR II Counter-Torque/Reduction Sleeve	7270010
DBR II Reduction T-Handle	7270011
DBR II Reducer Extension	7270014
DBR II Lock Screw Driver	7270021
DBR II Lock Screw Starter	7270022
DBR II Reattachment Tool	7270029
DBR II Counter-Torque Tool	7270044
DBR II Compressor Arm, Short	7270054
DBR II Compressor Arm, Long	7270055
DBR II Compressor Rack	7270056
SpheRx IFU	9003905

## CATALOG

### SPHERX® DBR® II IMPLANT TRAY

DESCRIPTION	CATALOG #
DBR II Implant Tray	7270002
Pre-Bent Rod, 20mm	7217020
Pre-Bent Rod, 25mm	7217025
Pre-Bent Rod, 30mm	7217030
Pre-Bent Rod, 35mm	7217035
Pre-Bent Rod, 40mm	7217040
Pre-Bent Rod, 45mm	7217045
Pre-Bent Rod, 50mm	7217050
Pre-Bent Rod, 55mm	7217055
Pre-Bent Rod, 60mm	7217060
Pre-Bent Rod, 65mm	7217065
Pre-Bent Rod, 70mm	7217070
Pre-Bent Rod, 75mm	7217075
Pre-Bent Rod, 80mm	7217080
Pre-Bent Rod, 85mm	7217085
Pre-Bent Rod, 90mm	7217090
Pre-Bent Rod, 95mm	7217095
Pre-Bent Rod, 100mm	7217100
Pre-Bent Rod, 105mm	7217105
Pre-Bent Rod, 110mm	7217110
Pre-Bent Rod, 120mm	7217120
Pre-Bent Rod, 130mm	7217130
Pre-Bent Rod, 140mm	7217140
Pre-Bent Rod, 150mm	7217150
Dual Ball Rod, 17.5mm	7236175
Dual Ball Rod, 20.0mm	7236200
Dual Ball Rod, 22.5mm	7236225
Dual Ball Pre-Bent Rod, 25.0mm	7237250
Dual Ball Pre-Bent Rod, 27.5mm	7237275
Dual Ball Pre-Bent Rod, 30.0mm	7237300
Dual Ball Pre-Bent Rod, 32.5mm	7237325
Dual Ball Pre-Bent Rod, 35.0mm	7237350
Dual Ball Pre-Bent Rod, 37.5mm	7237375
Dual Ball Pre-Bent Rod, 40.0mm	7237400
Dual Ball Pre-Bent Rod, 42.5mm	7237425
Dual Ball Pre-Bent Rod, 45.0mm	7237450
Dual Ball Pre-Bent Rod, 47.5mm	7237475
Dual Ball Pre-Bent Rod, 50.0mm	7237500
Dual Ball Pre-Bent Rod, 52.5mm	7237525
Dual Ball Pre-Bent Rod, 55.0mm	7237550
Dual Ball Pre-Bent Rod, 57.5mm	7237575
Dual Ball Pre-Bent Rod, 60.0mm	7237600
Dual Ball Pre-Bent Rod, 62.5mm	7237625
Dual Ball Pre-Bent Rod, 65.0mm	7237650

### SPHERX DBR II IMPLANT TRAY

DESCRIPTION	CATALOG #
Dual Ball Pre-Bent Rod, 67.5mm	7237675
Dual Ball Pre-Bent Rod, 70.0mm	7237700
Dual Ball Pre-Bent Rod, 72.5mm	7237725
Dual Ball Pre-Bent Rod, 75mm	7237750
Dual Ball Pre-Bent Rod, 77.5mm	7237775
Dual Ball Pre-Bent Rod, 80mm	7237800
5.5mm x 30mm Cannulated Polyaxial Screw	7375530
5.5mm x 35mm Cannulated Polyaxial Screw	7375535
5.5mm x 40mm Cannulated Polyaxial Screw	7375540
5.5mm x 45mm Cannulated Polyaxial Screw	7375545
5.5mm x 50mm Cannulated Polyaxial Screw	7375550
5.5mm x 55mm Cannulated Polyaxial Screw	7375555
6.5mm x 30mm Cannulated Polyaxial Screw	7376530
6.5mm x 35mm Cannulated Polyaxial Screw	7376535
6.5mm x 40mm Cannulated Polyaxial Screw	7376540
6.5mm x 45mm Cannulated Polyaxial Screw	7376545
6.5mm x 50mm Cannulated Polyaxial Screw	7376550
6.5mm x 55mm Cannulated Polyaxial Screw	7376555
7.5mm x 30mm Cannulated Polyaxial Screw	7377530
7.5mm x 35mm Cannulated Polyaxial Screw	7377535
7.5mm x 40mm Cannulated Polyaxial Screw	7377540
7.5mm x 45mm Cannulated Polyaxial Screw	7377545
7.5mm x 50mm Cannulated Polyaxial Screw	7377550
7.5mm x 55mm Cannulated Polyaxial Screw	7377555
SpheRx DBR II Lock Screws	7370100
SpheRx IFU	9003905



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