

YOYO SUB

For high angle wells, the **LiMAR[®]** YoYo Sub is a compact, rapid-redressable self-aligning system which can be positioned at various points along the length of a toolstring to greatly reduce frictional drag by effectively lifting the string from off of the tubing wall and onto the robust one-piece elliptical roller ball.

The roller ball rotates on a unique Toughmet[®] bushing, proven to offer exceptional wear resistance and lubricity.

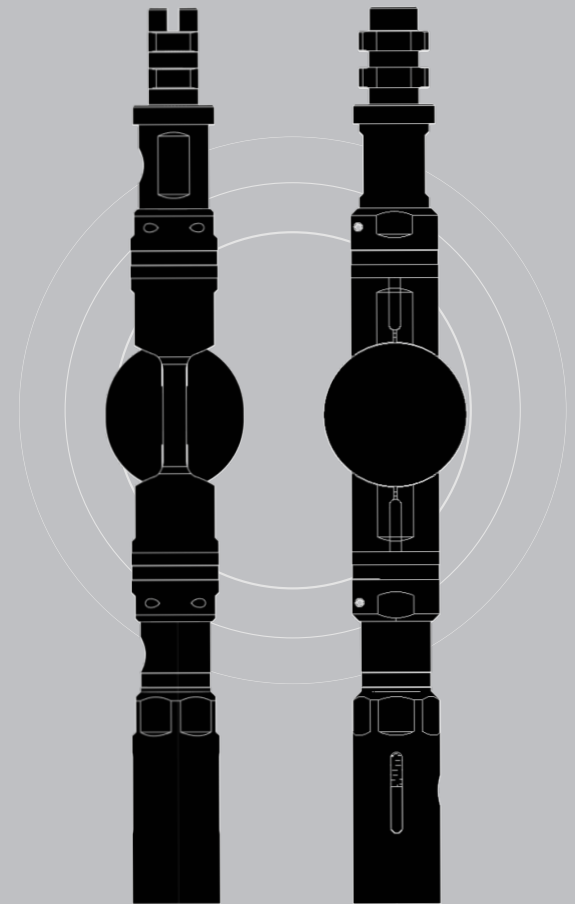
Integral upper & lower swivels with in-situ grease nipples help roller ball alignment, whilst preventing any lateral friction occurring from rotational torque generated between the YoYo Subs as they are conveyed into and out of a well.

TOOL APPLICATIONS:

- A compact & robust roller option for use in high angle, deviated wells
- The smooth roller ball design makes it ideal for use in plastic-coated tubing to reduce tubing wear
- Can be used for tool centralisation purposes

DESIGN FEATURES & BENEFITS:

- Elliptical, self-aligning roller ball
- Short & compact
- Maximised strength
- Toughmet® bushing feature
- Integral upper & lower swivel
- In-situ grease nipples
- Minimal components for rapid redress
- Interchangeable roller ball range across common mandrel offering for reduction in inventory
- Hexagonal flats for safe make-up & break-out
- Selected components QPQ treated including the roller ball



TECHNICAL DATA

| Assembly Part No. | Mandrel OD | Roller Ball Range | Fish Neck | Connection |
|-------------------|------------|-------------------|-----------|------------|
| 1253-1500-XXX-RX | 1.440" | 1.850" - 2.200" | Optional | Optional |
| 1253-1875-XXX-RX | 1.875" | 2.200" - 2.770" | Optional | Optional |
| 1253-2125-XXX-RX | 2.125" | 2.500" - 3.250" | Optional | Optional |
| 1253-2500-XXX-RX | 2.500" | 3.000" - 4.250" | Optional | Optional |
| 1253-3500-XXX-RX | 3.500" | 4.150" - 5.700" | Optional | Optional |

XXX - Last 3 digits of part number denotes connection type
 Roller Ball supplied in effective diameter to suit customer requirements.
 For additional sizes or further information please contact sales@limaroiltools.com