



# DRILL RIG ALIGNMENT SYSTEM

THE MAZAC SMART ALIGNER IS A LIGHTWEIGHT AND POWERFUL DRILL RIG ALIGNMENT SOLUTION. **COMPACT DESIGN, EXCEPTIONAL PERFORMANCE, MULTIPLE CONFIGURATIONS AND SMARTPHONE ENABLED** MAKES IT THE SMARTEST TO ALIGN YOUR SURFACE DRILL RIG.

## SMART PERFORMANCE

- Typical 0.5° degree Azimuth accuracy
- Tilt and Roll accuracy of 0.0°
- GLONASS enabled for increased performance
- Fast acquisition time
- Up to 10 hours of operation on a single battery charge



## SMART DESIGN

- Foldable GPS + GLONASS Alignment Tool
- Tool and Bracket fit into ruggedized carrying case
- Easy to travel with, carry and transport
- Fits into provided backpack for easy transport
- Weighs only 9.5lb (2.3kg) (Tool & Bracket)

## SMART PHONE ENABLED

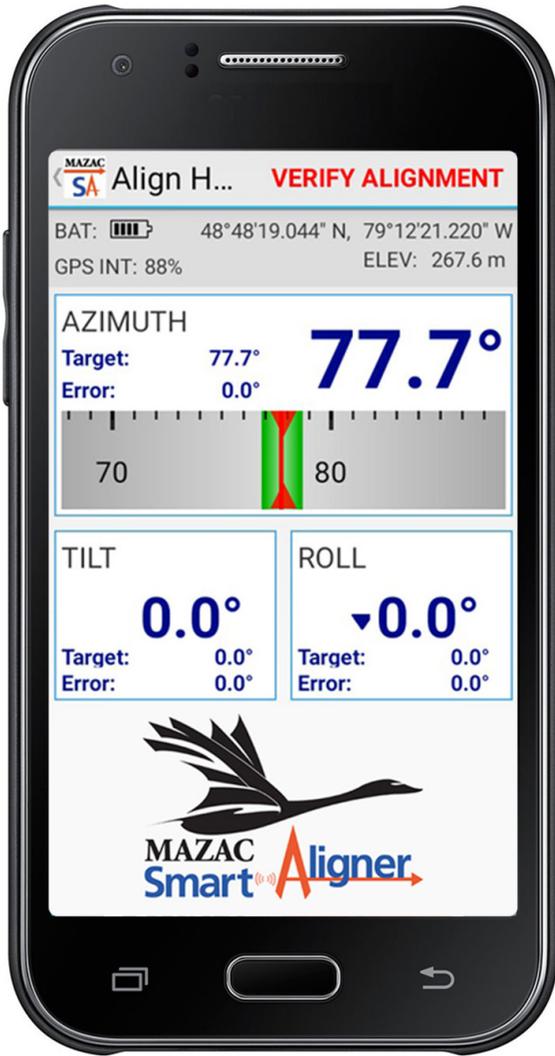
- Measure, verify and save alignment data using our free App
- Create and send PDF reports wirelessly from your mobile device
- Include up to four photos for each site survey in the report
- Import and export site data directly to and from App



DIRECTIONAL SURVEYING & EQUIPMENT

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# SPECIFICATIONS

## PERFORMANCE

Azimuth accuracy	0.5°
Tilt and Roll accuracy	0.2°
Position accuracy	60 cm with SBAS
Start up time	< 30 seconds

## POWER

Internal battery	Rechargeable lithium ion
Operation time	> 10 hrs (over 100 alignments)
Battery charger	AC wall charger & DC car charger

## PHYSICAL

### Smart Aligner Tool (patent pending)

Dimensions	19" x 4.5" x 3" (48.3 cm x 11.4 cm x 7.6 cm)
Weight	4.5 lb (2.0 kg)

### Carrying Case (contains all components)

Dimensions	21" x 16" x 8.5" (53.3 cm x 40.6 cm x 21.6 cm)
Weight	12 lb (5.4 kg)
TOTAL WEIGHT 22.7 lb (10,3kg)	

## COMMUNICATION PORTS

LED backlit display	User interface and display
Wi-Fi	Smart Aligner to user's mobile device
Connectivity	Smartphone/Tablet - iOS or Android
Cable Interface	Serial RS-232

## REPORTING

Report formats	JPEG (screenshot), PDF or CSV
Photos	Embedded in PDF report
<i>Photos can also be used as a backup, by taking picture or the User Display</i>	

## ENVIRONMENTAL

Operational temperature	-22° F to +158° F (-30° C to +70° C)
Sealing	NEMA 4X, IP63
Shock/vibration	IEC 68-2-27/IEC 68-2-6
EMI	FCC Part 15 Subpart B: 2008 and ICES-003: 2004

## MOUNTING CONFIGURATIONS

### Multiple arm positions :

User can orientate the arms according to physical limitations

Automatically calculates Azimuth, Tilt and Roll offsets

## MODES OF USE (SMART ALIGNER APP)

**Quick measure :** Real time display of positioning information with option to save a screenshot of the data

**Site survey :** Set up of site and site information

**Align antenna :** Real time display of positioning information with option to verify the alignment

**Verify :** Verify the alignment - ability to save the alignment information after verification

**Report mode :** Create PDF reports from verified alignments or historically saved sites  
- automatic attachment to email message

**Import profiles :** Import CSV file with site and antenna information

**Export profiles :** Export completed CSV file with appended measured alignment information  
- automatic attachment to email message



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