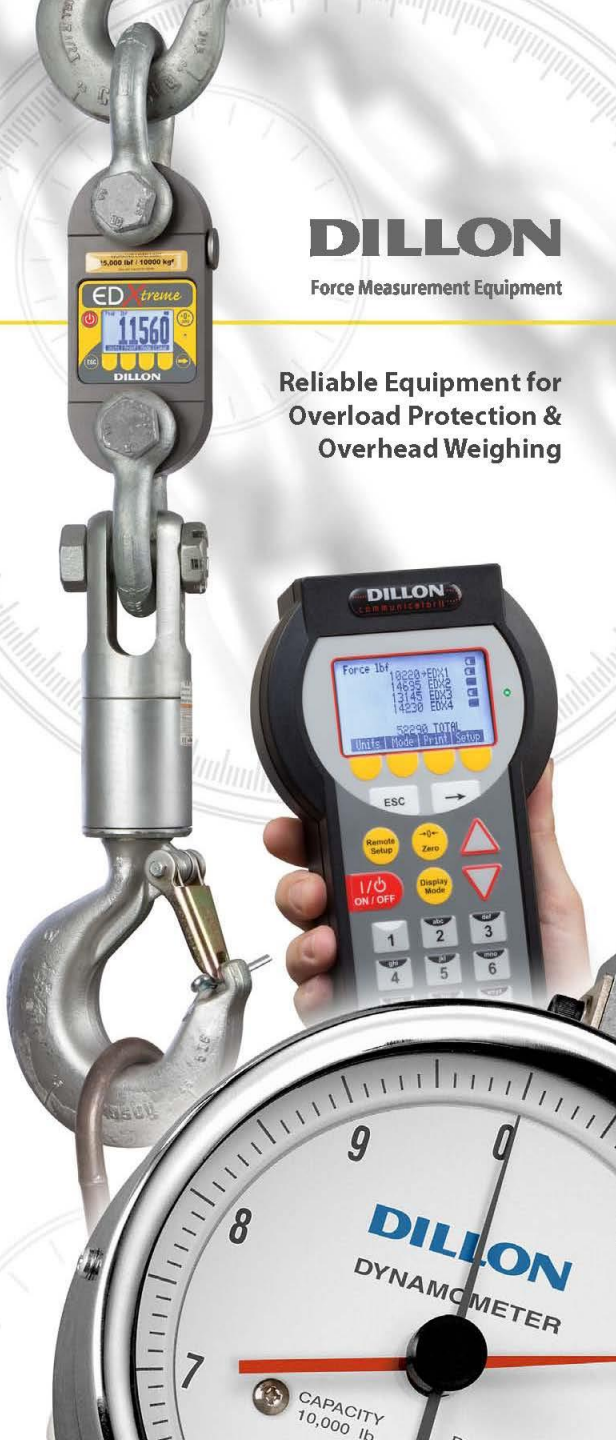


The image features a vertical Dillon ED Xtreme force measurement device on the left, which includes a digital display showing '11560'. Below it, a hand holds a Dillon handheld device with a screen displaying a list of force values and a numeric keypad. At the bottom, a large circular Dillon Dynamometer is visible, with a needle pointing to approximately 7,500 on a scale from 0 to 10,000. The background is a light gray with faint circular patterns.

DILLON

Force Measurement Equipment

Reliable Equipment for
Overload Protection &
Overhead Weighing

DILLON

Safety, Accuracy, Reliability

Since 1937

Current process

Current Process

- 2 or 3 man crew with a single quick check
- Average time for a plumb & tension of tower 5-6 hrs
- Photos taken of each cable with data information on white board and display of quick check showing actual tension 1-2 hrs
- Enter all data into tower site forms (based on 7 cables each anchor point) including manually entering image data into tower site forms 1-2 hrs
- Email photos and forms to engineering company who incorporates this data into a final inspection report and submits to the tower owner/operator

Main issues

- A lot of manual documentation
- Potential for human error
- Is correct target tension selected using ambient air temp
- Incorrect drawing interpretation
- Doubling up of data entry
- Is the measurement device accurate?
- How do you verify accuracy of recorded data?
- Time taken to review site data and verify that it is correct



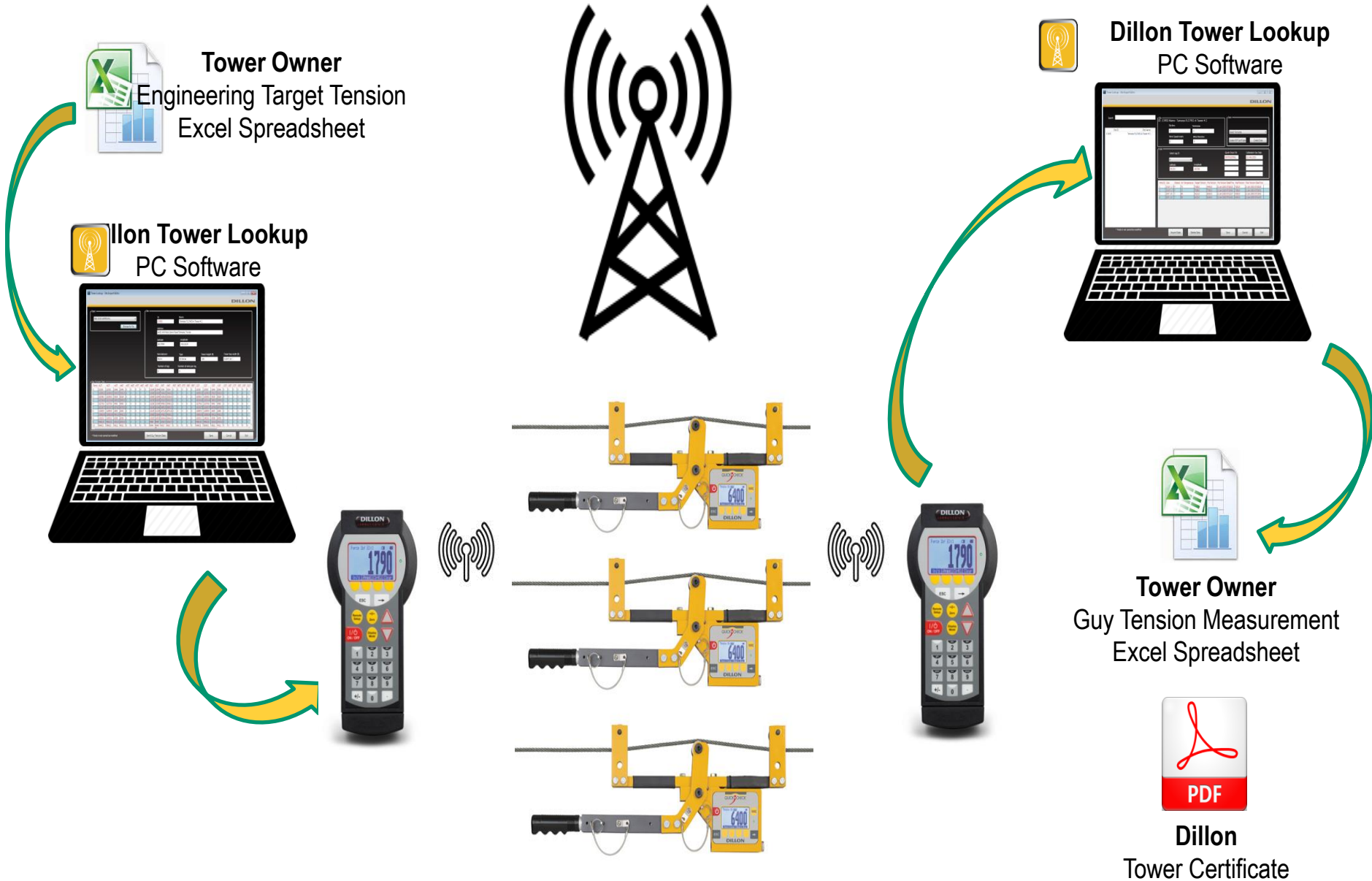
New hardware features

- GPS
- Temperature sensor
- Wireless connectivity
- Remote viewing and data collation
- Calibration check rod



New software features

- Locally stored data encrypted
- Pre, post and target tension reading
- GPS data
- Temp data
- Export data includes
 - ✓ S/N number
 - ✓ Last Cal date
 - ✓ Last Cal rod check
 - ✓ All above data





GPS



Temperature
Sensor



Wireless



Tower
Lookup
PC
Software



Site form

GUY WIRE TENSION REPORT

Site Name:		Tower Manufacturer:		Tower Height:		Date:	
Site No:		Face Width/Leg Size:		Wind Speed:		Wind Dir.:	
Site Address:		Temperature:		Latitude:		Longitude:	
Person Performing Tension:		Device Used to Check Tension:	Dillon Quick Check	Calibration Date:			

Tower Leg A: Inner

Azimuth:

Guy Anchor Radius:

Elevation Deviation:

Guy Level	Height	EHS Size	Quantity	% Initial Tension	New EHS Size	Temp. Adjusted Design Tension	Recorded Tension	Temp. Adjusted Range	Target	Status	Plumb		
											% Out	Inches Out	R or L
1					N/A	from chart	actual tension						
2					N/A	from chart	actual tension						
3					N/A	from chart	actual tension						
4					N/A	from chart	actual tension						
5					N/A	from chart	actual tension						
6					N/A	from chart	actual tension						
7					N/A	from chart	actual tension						
8					N/A	from chart	actual tension						
9					N/A	from chart	actual tension						

Tower Leg A: Outer

Azimuth:

Guy Anchor Radius:

Elevation Deviation:

Guy Level	Height	EHS Size	Quantity	% Initial Tension	New EHS Size	Temp. Adjusted Design Tension	Recorded Tension	Temp. Adjusted Range	Target	Status	Plumb		
											% Out	Inches Out	R or L
1					N/A	from chart	actual tension						
2					N/A	from chart	actual tension						
3					N/A	from chart	actual tension						
4					N/A	from chart	actual tension						
5					N/A	from chart	actual tension						
6					N/A	from chart	actual tension						
7					N/A	from chart	actual tension						
8					N/A	from chart	actual tension						
9					N/A	from chart	actual tension						