



# INDUSTRY LEADING EXPERIENCE

[www.strykerdirectional.com](http://www.strykerdirectional.com)



# ABOUT US

Stryker Directional is a full service directional drilling company providing expert horizontal and directional drilling services, MWD/EM services, and Gamma services to a wide range of energy exploration customers. Stryker services drilling operations all across North America. Stryker's experienced crews work side-by-side with our customers, managing projects safely and keeping them on-time and on-budget. With more than 100 years combined of expertise, we are one of the most reputable Directional Drilling service providers in the business. There simply is no substitute for experience. It's what separates the Stryker team from the rest.

## Conroe Location

1212 Old Hwy 105 W,  
Conroe, TX 77304  
936-588-5505



## Midland Location

6701 Farm to Market 307,  
Midland, TX 79706  
432-687-1121



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## Stryker is currently operating in seven key basins

Stryker is currently operating in seven of North America's key basins throughout Oklahoma, Texas, Utah, Louisiana, New Mexico, and beyond.

Stryker Directional utilizes high-performance drilling equipment, techniques, and software to provide expert horizontal and directional drilling, MWD/EM, and Gamma services.

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# DRILLING MOTORS



## OUR CUSTOMER'S SUCCESS IS OUR GREATEST REWARD!

Stryker Directional motors are some of the most reliable in the industry. We continue to enhance and improve our tools to withstand the increased power from today's higher torque power sections. We are able to speed up hydrocarbon recovery with faster ROP, run longevity, superior steering response and hole quality.

With motors available from 4 <sup>3</sup>/<sub>4</sub>" to 9 <sup>5</sup>/<sub>8</sub>" and powers from high speed low torque 1.1 RPG thru slow speed high torque .09 RPG we can achieve the correct torque and bit speed for virtually any application. In house Stryker experts ensure the optimal power performance by selecting the correct elastomer and fit for each specific motor application.

Each and every motor is assembled with pride and held to the highest standards possible. The professional team here at the Stryker motor facility has over forty years of combined motor experience, and we understand the importance of performance and reliability.

Staying on bottom drilling is the name of the game and our motors continue to deliver.



# MOTOR INVENTORY



SIZE	POWER	RPG	GPM RANGE	TORQUE SLOPE	BTB ADJ	BTB FXD	MAX DIFF	REC MAX DIFF	MAX OP TORQUE	STALL TORQUE
4.75	5/6 8.3	1.000	100 - 300	2.55	62"	51"	1960	1568	4,980	7,840
	7/8 2.6	0.260	150 - 300	9.44			620	496	5,770	9,090
	7/8 5.0	0.620		3.97			1180	944	4,670	7,350
5.00	7/8 2.6 ERT	0.260	150 - 300	9.94	56.3	45.7	770	616	7,650	14,000
	6/7 8.0	0.790	150 - 350	3.25			1880	1504	6,110	9,630
	6/7 8.8	0.660	150 - 400	3.70			2070	1656	7,660	12,060
	6/7 9.6	0.810	200 - 360	3.00	N/A	41/48/53	1920	1536	7,283	14,566
	7/8 5.7	0.520	150 - 300	4.74	63.4	51.1	1340	1072	6,350	10,000
5.125	7/8 8.2	0.700	150 - 350	3.57	63.4	51.1	1930	1544	6,880	10,840
	7/8 8.3	0.500	200 - 400	4.80			1960	1568	9,370	14,750
	5/6 6.7	0.630	150 - 350	3.97			1510	1208	6,000	9,000
5.25	6/7 10.9	0.750	200 - 400	3.23	N/A	46.0	2570	2056	8,300	13,200
5.50	6/7 11.3	0.750	150 - 400	3.27	66.1	53.9	2520	2016	8,250	12,990
6.25	7/8 4.8	0.330	150 - 400	7.53	55	55.0	1130	904	8,500	13,380
6.75	4/5 7.0	0.490	300 - 600	5.36	68 / 57	57 / 45	1650	1320	8,820	13,890
	4/5 7.0 ERT			5.87	80	68	1730	1384	10,160	18,600
	7/8 3.5	0.150		17.14	68 / 57	57 / 45	790	632	13,500	20,250
	7/8 5.0	0.270		9.06	68 / 57	57 / 45	1180	944	10,650	16,770
	7/8 6.0			9.06			1410	1128	12,780	20,120
	7/8 5.7	0.230		10.60	66.7 / 57	54.6 / 45	1340	1072	14,200	22,370
7.00	7/8 5.7 ERT	0.230	300 - 700	11.27	66.7	54.6	1580	1264	17,810	32,590
	7/8 8.5	0.260	400 - 740	9.78	68	56	2000	1600	19,540	30,770
7.25	7/8 6.7	0.180	600 - 800	13.45	N/A	73.9	1580	1264	21,250	33,460
8.00	4/5 5.3	0.240	300 - 950	10.93	74.7 / 87	60 / 72.3	1250	1000	13,620	21,450
	6/7 4.0	0.170	400 - 900	14.70			940	752	13,820	21,770
	7/8 3.4	0.090		28.19			800	640	22,530	35,480
	7/8 4.0	0.160		15.77			940	752	14,830	23,350
	7/8 5.9						1390	1112	21,870	34,440
8.25	7/8 4.0 ERT	0.160	300 - 900	16.70	74.7 / 87	60 / 72.3	1110	888	18,540	33,930
	9/10 3.9 ERT	0.110	700 - 1200	22.84	87	74	1150	920	26,270	48,070
9.625	6/7 5.0	0.130	600 - 1300	20.30	87.3	87.3	1180	944	23,860	37,570

# MWD INFORMATION



## MWD

Stryker Directional provides MWD/LWD services that have exceptional maintenance and are easy to repair if ever needed. We use a Windows based firmware that utilizes very little power to run. Stryker Directional MWD/LWD services are designed to be rugged and are fully retrievable and reseatable without tripping.



## Measurement While Drilling

Measurement While Drilling is the collection of various types of bottomhole borehole data in real-time to steer the well along a predetermined well path. The data is typically transmitted via mud pulse by creating pressure pulses in the drilling fluid which is then detected at the surface by use of a pressure transducer. The pulse data is then decoded via the Surface Receiver and processed real-time within a matter of seconds to verify the position of the wellbore along the well path to ensure it's being drilled as planned.



## Logging While Drilling

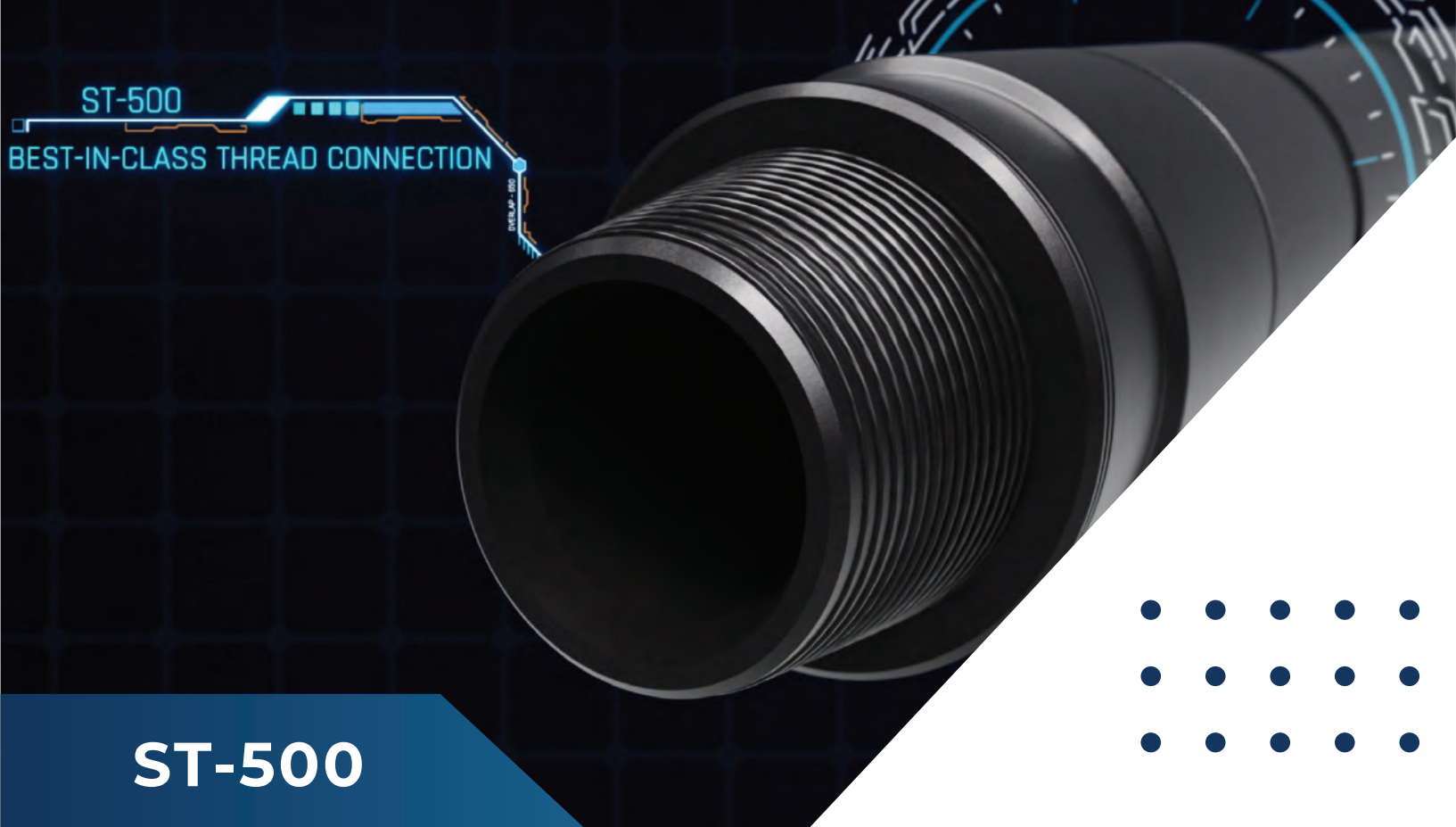
Logging While Drilling is the measurement of the formation properties during the time in which the wellbore is being drilled. The LWD is an option that is added to the MWD. This Real Time data is used to identify the formation of the wellbore to ensure the wellbore is in the production formation as measured. There are numerous types of formation evaluation tools but the most common is the Gamma Ray Tool. Gamma Ray tools record naturally occurring gamma rays in the formations adjacent to the wellbore. This measurement indicates the amount of radioactive content within the formation which then allows the geologist to determine the exact formation being drilled. This data can then be use for steering the well to ensure the BHA stays in the formation zone of interest.

## MWD Key Points

- ✓ Advanced Decoding options
- ✓ Capable of operating in 175° Celsius
- ✓ Improved rugged design to mitigate High Shock and Vibration
- ✓ Stryker's MWD can withstand and operate under Flow Rates from 75 to 1100 GPM's
- ✓ LWD Memory Gamma Log option to produce a high-resolution log at the end of the well for better correlation.
- ✓ Current max drilled MD up to 24,000'+

## MWD Accuracies

- ✓ +/- 0.05° to +/- 3.0° Gravity tool face programmable
- ✓ Pointing accuracy of 0.15° = 2ft/1000ft of displacement
- ✓ +/- 0.05° to +/- 3.0° Magnetic tool face programmable and +/- 0.1° Inclination
- ✓ +/- 1.0° Azimuth (inclination >5°)
- ✓ Programmable to any value when crossing over to High Side Tool Face
- ✓ Readout resolution for Inclination and Azimuth: 0.1°; for Tool Face: 1.0°



**ST-500**

## **ST-500**

### **BEST- IN-CLASS THREAD CONNECTION**

Stryker has developed a best-in-class thread connection created specifically for today's drilling landscape. ST 500 proves superior and long lasting as it continuously delivers and meets high performance expectations.

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## RSS

With an extensive inventory of Rotary Steerable Systems ( RSS ) Stryker optimizes outcomes with strategic placement, trajectory control, and smoother boreholes. In any drilling environment, the PowerDrive RSS family delivers the power required to place wells accurately with superior borehole quality while ensuring maximum drilling efficiency.



### Applications

- ✔ High-performance drilling
- ✔ Complex fluid systems
- ✔ Extended-reach drilling

### BENEFITS

- ✔ Improved drilling efficiency
- ✔ Enhanced trajectory control
- ✔ Precise kickoff from vertical
- ✔ Increased operating parameter window

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### Features

- ✔ Performance-focused design
- ✔ Up to 350 revolutions per minute
- ✔ Metal-to-metal sealing on pad
- ✔ QuikDownlink\* continuous-circulation downlink service
- ✔ Eight-sector near-bit azimuthal gamma ray
- ✔ Six-axis continuous survey
- ✔ Inclination and azimuth closed loops to provide advanced automated tangent controls
- ✔ Optional hybrid configuration



@StrykerDirectional




## Stryker has industry leading experience in drilling the most challenging directional projects, consistently delivering quality


Established in 2010, Stryker Management combines more than 100 years of Directional Drilling Experience. Our understanding allows us to provide our customers with the application of some of the most extensive and accurate knowledge in the Directional Drilling Industry.

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### ■ Get in Touch


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