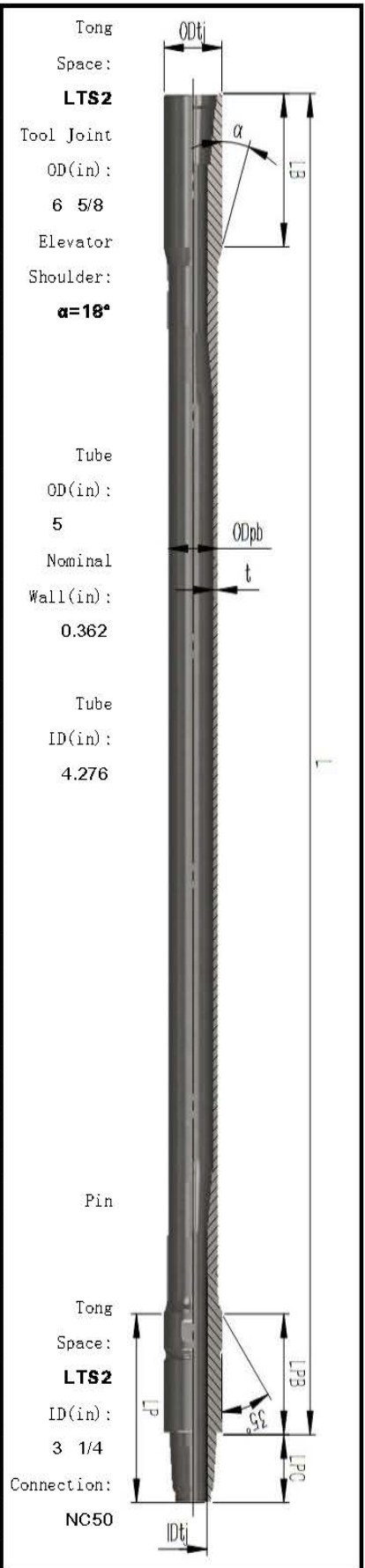




Drill Pipe Performance Datasheet				
Pipe Size and Weight:	5	19.50	IEU	
Pipe Grade:	G105			
Range:	Shoulder to Shoulder 43ft±6in			
Tool Joint:	NC50 6 5/8 "OD 3 1/4 "ID			
Pipe	5	19.50	G105	IEU
Dimensional Data	New	Premium	Unit	
Outside Diameter(ODpb)	5.000	4.8552	in	
Wall Thickness(t)	0.362	0.2896	in	
Inside Diameter	4.276	4.276	in	
Cross Sectional Area of Pipe Body	5.275	4.154	in ²	
Cross Sectional Area of OD	19.635	18.514	in ²	
Cross Sectional Area of ID	14.360	14.36	in ²	
Section Modulus	5.708	4.476	in ³	
Polar Section Modulus	11.415	8.953	in ³	
Performance Data	New	Premium		
Torsional Strength	57600	45200	ft-lbs	
Tensile Strength	553800	436100	lbs	
80% Torsional Strength	46100	36200	ft-lbs	
Pressure Capacity	13304	12163	psi	
Collapse Capacity	12999	8765	psi	
NC50 6 5/8 "OD 3 1/4 "ID				
Tool Joint				
Dimensional Data	New	Premium	Unit	
Outside Diameter(ODtj)	6 5/8	6.09375	in	
Inside Diameter(IDtj)	3 1/4	3.75	in	
Pin Tong Length(Lpb)	9	6	in	
Box Tong Length(Lb)	12	7.5	in	
Make-up Loss MUL(Lpc)	4.5	4.5	in	
Performance Data	Material Yield Strength 120000 psi			
Torsional strength	51700	36500	ft-lbs	
Max Recommended Make-up Torque	31000	21900	ft-lbs	
Min Recommended Make-up Torque	25900	18300	ft-lbs	
Balance OD	6.390	—	in	
Tensile Strength	1269000	939100	lbs	
Tool joint/Drill pipe torsional ratio(New pipe)	0.90	0.81		
*Tool joint/Drill pipe torsional ratio(Prem pipe)	1.14			
*Remark:The OD of Tool joint is 6 5/8 in				
Drill pipe assembly with tool joint				
Adjusted Weight	21.52	19.629	lbs/ft	
Fluid Displacement	0.328	0.300	gal/ft	
Fluid Capacity	0.731	0.741	gal/ft	
Drift Size	3 1/8	—	in	



Tool Joint Wear Chart

- Torsional Strength of Tool Joint(ft-lbs)
- Max Recommended Make-up Torque
- Min Recommended Make-up Torque
- Prem Pipe

