



# DRILL COLLAR SIZES AND WEIGHTS



Initial reference only. Final size, connection and weight should be confirmed from approved drawings.

Drill collar size should be selected according to hole size, required weight on bit, BHA stiffness, hydraulic flow requirement, fishing clearance and connection compatibility. A larger OD provides more stiffness and weight, but it also reduces annular clearance. A smaller ID increases weight, but may restrict mud flow or tool passage.






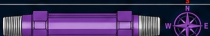
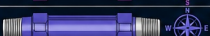
For project comparison, the plain body weight can be estimated by the hollow steel cylinder formula:

$$\text{Approx. weight, lb/ft} = 2.67 \times (\text{OD}^2 - \text{ID}^2)$$

OD and ID are in inches.



This calculation is useful for early selection, but final weight should be confirmed from the approved drawing because thread form, connection design, elevator recess, spiral groove, bore tolerance and surface machining can change the final value.

VISUAL REFERENCE	SIZE OD	ID (Project / Thread)	COMMON CONNECTION RANGE	APPROX. PLAIN BODY WEIGHT (lb/ft)	TYPICAL SELECTION MEANING
	4 3/4"	2 1/4"	NC38 / project thread	47 lb/ft	Smaller BHA and moderate WOB requirement
	6 1/4"	2 13/16"	NC46 / NC50	83 lb/ft	Common size range for medium drilling assemblies
	6 1/2"	2 13/16"	NC50	92 lb/ft	Higher stiffness and weight than 6 1/4" collar
	7"	2 13/16"	NC50 / 5 1/2 FH	110 lb/ft	Larger hole sections and stronger BHA control
	8"	2 13/16"	6 5/8 REG / NC56	150 lb/ft	High WOB and heavy BHA application
	9 1/2"	3"	7 5/8 REG / NC61	217 lb/ft	Large-hole drilling and high stiffness requirement
	11"	3"	8 5/8 REG / project thread	299 lb/ft	Large-diameter hole sections and heavy bottom assembly



ACCEPTED SIZE SHEET CHECKLIST FOR FORMAL ORDERING:



OD



ID



LENGTH



CONNECTION



BEVEL/SHOULDER



MATERIAL GRADE



HARDNESS



QUANTITY

All weights are approximate plain body weights for comparison only. Final values must be confirmed from the approved drawing.