

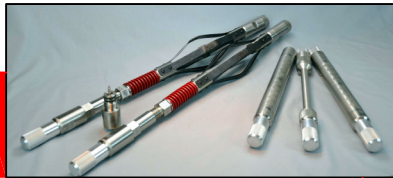


Free point tools are designed to measure torque and stretch in tubing, casings, and drill pipes and to provide accurate free pipe indication. The Advanced Free point tool in conjunction with our portable FPT/CCL panel can be linked with the Warrior system to produce a free point log. A free point tool string consists of the following components:

- Slack joint (16", 24", 36" stroke)
- Top Anchor (Magnet or Bowstring)
- Sensor
- Bottom Anchor (Magnet or Bowstring)

Temperature rating:	500°F
Pressure rating:	20,000 psi
Tool diameter range:	11/16", 1", 1 3/8" & 1 5/8" O.D.
Tool length:	Varies
Anchor type:	Magnets or Bowstrings
Sensor type:	Piston or Boot
Slack joint stroke:	16" (24" & 36" available on 1 3/8" & 1 5/8" O.D. tools)





FPT ANCHOR OPTIONS
(BOWSPRINGS & MAGNETS)



PORTABLE FPT / CCL PANELS
(SEALED PELICAN CASES, ABILITY TO LOG IN WARRIOR)



FPT SENSORS 1 5/8", 1 3/8", 1", & 11/16" O.D.

ITEM #	DESCRIPTION	O.D.
COMPLETE TOOLS		
FPT1000	FREEPOINT TOOL w/ BOWSPRINGS, 11/16"	11/16"
FPT1001	FREEPOINT TOOL w/ MAGNETS, 11/16"	11/16"
FPT3000	FREEPOINT TOOL w/ BOWSPRINGS, 1"	1"
FPT3001	FREEPOINT TOOL w/ MAGNETS, 1"	1"
FPT4000	FREEPOINT TOOL w/ BOWSPRINGS, 1 3/8"	1 3/8"
FPT4001	FREEPOINT TOOL w/ MAGNETS, 1 3/8"	1 3/8"
FPT6000	FREEPOINT TOOL w/ BOWSPRINGS, 1 5/8"	1 5/8"
FPT6001	FREEPOINT TOOL w/ MAGNETS, 1 5/8"	1 5/8"
COMPONENTS		
FBS1001	BOWSPRING, 11/16" (UPPER)	11/16"
FBS1002	BOWSPRING, 11/16" (LOWER)	11/16"
FMG1001	MAGNET UPPER, 11/16"	3/4"
FMG1002	MAGNET SPACER, 11/16"	11/16"
FMG1003	MAGNET LOWER, 11/16"	3/4"
FSJ1001	SLACKJOINT, 11/16"	11/16"
FSN1001	SENSOR, 11/16"	11/16"
FBS3001	BOWSPRING, 1"	1"
FMG3001	MAGNET UPPER, 1"	1 1/8"
FMG3002	MAGNET SPACER, 1"	1"
FMG3003	MAGNET LOWER, 1"	1 1/8"
FSJ3001	SLACKJOINT FPT, 1"	1"
FSN3001	SENSOR FPT, 1"	1"
FBS4001	BOWSPRING, 1 3/8"	1 3/8"
FBS4002	BOWSPRING, 1 3/8" (CASING)	1 3/8"
FMG4001	MAGNET UPPER, 1 3/8"	1 7/16"
FMG4002	MAGNET SPACER, 1 3/8"	1 3/8"
FMG4003	MAGNET LOWER, 1 3/8"	1 7/16"
FSJ4001	SLACKJOINT, 1 3/8" X 16"	1 3/8"
FSJ6001	SLACKJOINT, 1 5/8" X 16"	1 3/8"
FSN4001	SENSOR FPT, 1 3/8"	1 3/8"
FBS6001	BOWSPRING FPT, 1 5/8"	1 5/8"
FBS6002	BOWSPRING FPT, 1 5/8" (CASING)	1 5/8"
FMG6001	MAGNET UPPER, 1 5/8"	1 11/16"
FMG6002	MAGNET SPACER, 1 5/8"	1 5/8"
FMG6003	MAGNET LOWER, 1 5/8"	1 11/16"
FSN6001	SENSOR, 1 5/8"	1 5/8"

