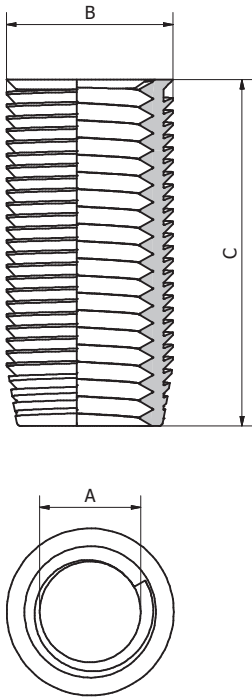


FFT Full-Torque inserts for through holes

FFT inserts are our most popular, lowest cost and easiest to install. These inserts can be used for most common bolt hole repairs. They produce maximum strength, a flush surface finish and don't leave a visible thread line. They are available in metric and inch thread sizes, in both their standard and fine-thread variants.



All sizes listed on this page are standard stock items, yet subject to prior sale. We are also able to quickly custom produce any other diameter or length.

FFT INSERTS FOR UNC THREADS (DIMENSIONS IN INCHES)

A	B	C	BASIC KIT	FIVE ADDITIONAL INSERTS	INSTALLATION TOOL KIT
1/4 - 20	0.348	0.315	FFT2S1420K	FFT2S1420-5	FP21420K
		0.630	FFT21420K	FFT21420-5	
5/16 - 18	0.465	0.400	FFT3S51618K	FFT3S51618-5	FP351618K
		0.780	FFT351618K	FFT351618-5	
3/8 - 16	0.595	0.470	FFT4S3816K	FFT4S3816-5	FP43816K
		0.935	FFT43816K	FFT43816-5	
7/16 - 14	0.595	0.625	FFT4S71614K	FFT4S71614-5	FP471614K
		1.100	FFT471614K	FFT471614-5	
1/2 - 13	0.735	0.750	FFT5S1213K	FFT5S1213-5	FP51213K
		1.500	FFT51213K	FFT51213-5	
9/16 - 12	0.860	0.750	FFT6S91612K	FFT6S91612-5	FP691612K
		1.410	FFT691612K	FFT691612-5	
5/8 - 11	0.860	0.780	FFT6S5811K	FFT6S5811-5	FP65811K
		1.560	FFT65811K	FFT65811-5	
3/4 - 10	1.095	0.94	FFT8S3410K	FFT8S3410-5	FP83410K
		1.875	FFT83410K	FFT83410-5	
7/8 - 9	1.220	1.100	FFT9S7809K	FFT9S7809-5	FP97809K
		1.750	FFT97809K	FFT97809-5	
1 - 8	1.220	1.125	FFT9S1008K	FFT9S1008-5	FP91008K
		2.500	FFT91008K	FFT91008-5	
1 1/8 - 7	1.364	1.125	FFT10S1187K	FFT10S118-5	FP101187K
		2.250	FFT101187K	FFT101187-5	
1 1/4 - 7	1.610	1.250	FFT12S1147K	FFT12S1147-5	FP121147K
		2.500	FFT121147K	FFT121147-5	
1 3/8 - 6	1.732	1.375	FFT13S1386K	FFT13S1386-5	FP131386K
		2.750	FFT131386K	FFT131386-5	
1 1/2 - 6	1.975	1.500	FFT14S1126K	FFT14S1126-5	FP141126K
		3.000	FFT141126K	FFT141126-5	
1 3/4 - 5	2.225	1.750	FFT15S1345K	FFT15S1345-5	FP151345K
		3.500	FFT151345K	FFT151345-5	
2 - 4 1/2	2.475	2.000	FFT16S2412K	FFT16S2412-5	FP162412K
		4.000	FFT162412K	FFT162412-5	

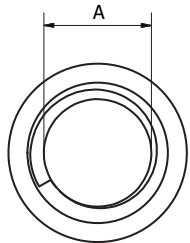
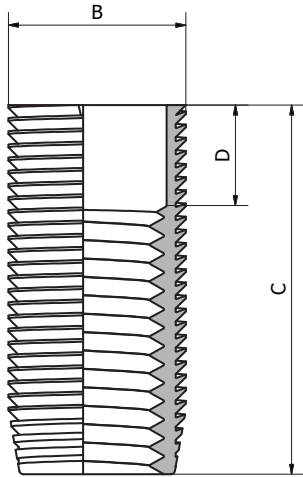
FFT INSERTS FOR UNF THREADS (DIMENSIONS IN INCHES)

A	B	C	BASIC KIT	FIVE ADDITIONAL INSERTS	INSTALLATION TOOL KIT
1/4 - 28	0.348	0.315	FFT2S1428K	FFT2S1428-5	FP21428K
		0.630	FFT21428K	FFT21428-5	
5/16 - 24	0.465	0.400	FFT3S51624K	FFT3S51624-5	FP351624K
		0.780	FFT351624K	FFT351624-5	
3/8 - 24	0.595	0.470	FFT4S3824K	FFT4S3824-5	FP43824K
		0.935	FFT43824K	FFT43824-5	
7/16 - 20	0.595	0.625	FFT4S71620K	FFT4S71620-5	FP471620K
		1.100	FFT471620K	FFT471620-5	
1/2 - 20	0.735	0.750	FFT5S1220K	FFT5S1220-5	FP51220K
		1.500	FFT51220K	FFT51220-5	
9/16 - 18	0.860	0.750	FFT6S91618K	FFT6S91618-5	FP691618K
		1.410	FFT691618K	FFT691618-5	
5/8 - 18	0.860	0.780	FFT6S5818K	FFT6S5818-5	FP65818K
		1.560	FFT65818K	FFT65818-5	
3/4 - 16	1.095	0.940	FFT8S3416K	FFT8S3416-5	FP83416K
		1.875	FFT83416K	FFT83416-5	
7/8 - 14	1.220	1.100	FFT9S7814K	FFT9S7814-5	FP97814K
		1.750	FFT97814K	FFT97814-5	
1 - 14	1.220	1.125	FFT9S1014K	FFT9S1014-5	FP91014K
		2.000	FFT91014K	FFT91014-5	
1 - 12	1.220	1.250	FFT9S1012K	FFT9S1012-5	FP91012K
		2.500	FFT91012K	FFT91012-5	



Counter-sunk inserts for through holes

FFT inserts are also available in counter-sunk execution. They are usually made to match the exact geometry of various applications. Besides being counter-sunk, they are usually made to a specific length.



All sizes listed on this page are standard stock items, yet subject to prior sale.

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FFT COUNTER-SUNK INSERTS FOR UNC THREADS

(DIMENSIONS IN INCHES)

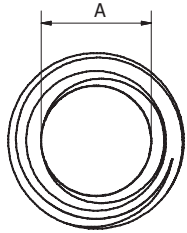
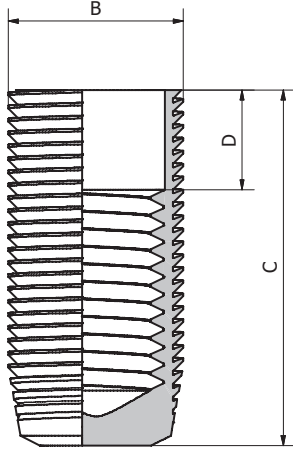
A	B	C	D	BASIC KIT	FIVE ADDITIONAL INSERTS	INSTALLATION TOOL KIT
3/8 - 16	0.595	1.370	0.300	FFT4SP007K	FFT4SP007-5	FP43816K
7/16 - 14	0.595	1.053	0.225	FFT4SP003K	FFT4SP003-5	FP4SP004K
	0.595	1.655	0.815	FFT4SP001K	FFT4SP001-5	FP4SP004K
1/2 - 13	0.735	1.438	0.250	FFT5SP006K	FFT5SP006-5	FP5SP007K
9/16 - 12	0.860	2.550	0.775	FFT6SP004K	FFT6SP004-5	FP6SP007K

FFT COUNTER-SUNK INSERTS FOR UNF THREADS

(DIMENSIONS IN INCHES)

A	B	B	D	BASIC KIT	FIVE ADDITIONAL INSERTS	INSTALLATION TOOL KIT
9/16 - 18	0.735	2.375	0.375	FFT5SP002K	FFT5SP002-5	FP5SP004K
5/8 - 18	0.860	2.125	0.625	FFT6SP001K	FFT6SP001-5	FP6SP006K
7/8 - 14	1.220	3.250	0.900	FFT9SP003K	FFT9SP003-5	FP9SP001K
	1.220	3.875	1.437	FFT9SP002K	FFT9SP002-5	FP9SP001K

FFB counter-sunk inserts are made to match the exact geometry of various applications. Besides being counter-sunk, they are usually made to a specific length.



All sizes listed on this page are standard stock items, yet subject to prior sale.

We are also able to quickly custom produce any other diameter or length.

FFT COUNTER-SUNK INSERTS FOR UNC THREADS

(DIMENSIONS IN INCHES)

A	B	C	D	BASIC KIT	FIVE ADDITIONAL INSERTS	INSTALLATION TOOL KIT
7/16 - 14	0.595	2.450	0.500	FFB4SP003K	FFB4SP003-5	FP4SP004K
	0.735	2.020	0.350	FFB5SP006K	FFB5SP006-5	FP5SP007K
1/2 - 13	0.735	2.057	0.475	FFB5SP001K	FFB5SP001-5	FP5SP007K
	0.860	2.150	0.188	FFB6SP005K	FFB6SP005-5	FP6SP007K
9/16 - 12	0.860	2.000	0.210	FFB6SP006K	FFB6SP006-5	FP6SP007K
	0.860	3.000	0.820	FFB6SP014K	FFB6SP014-5	FP6SP007K
	0.860	2.000	0.400	FFB6SP001K	FFB6SP001-5	FP6SP008K
5/8 - 11	0.860	2.415	0.240	FFB6SP007K	FFB6SP007-5	FP6SP008K
	0.860	2.900	0.230	FFB6SP008K	FFB6SP008-5	FP6SP008K
	0.860	2.900	0.500	FFB6SP009K	FFB6SP009-5	FP6SP008K
	0.860	3.000	0.750	FFB6SP004K	FFB6SP004-5	FP6SP008K
3/4 - 10	1.095	4.150	1.500	FFB8SP006K	FFB8SP006-5	FP8SP001K
	1.095	4.290	2.000	FFB8SP005K	FFB8SP005-5	FP8SP001K

FFT COUNTER-SUNK INSERTS FOR UNF THREADS

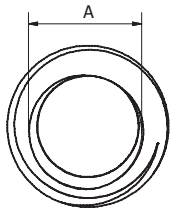
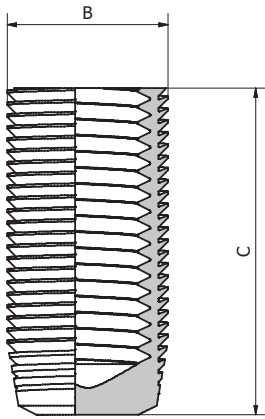
(DIMENSIONS IN INCHES)

A	B	C	D	BASIC KIT	FIVE ADDITIONAL INSERTS	INSTALLATION TOOL KIT
1 1/16 - 12	0.970	2.500	0.800	FFB7SP002K	FFB7SP002-5	FP7SP005K
	0.970	2.500	1.000	FFB7SP001K	FFB7SP001-5	FP7SP005K
3/4 - 16	0.970	3.500	1.000	FFB7SP004K	FFB7SP004-5	FP5SP003K
	0.970	3.750	1.940	FFB5SP003K	FFB7SP003-5	FP5SP003K
	0.970	1.095	3.080	FFB8SP007K	FFB8SP007-5	FP8SP004K
	0.970	1.095	3.940	FFB5SP001K	FFB8SP001-5	FP8SP004K



Full-Torque inserts for blind holes

FFB inserts have a solid, or “blind” bottom. They are liquid- and airtight up to 69 MPa (10,000 Psi) and are used in applications where bolt holes are reaching into, or are close to, pressurized cavities such as cooling water spaces.



All sizes listed on this page are standard stock items, yet subject to prior sale. We are also able to quickly custom produce any other diameter or length.

FFB INSERTS FOR UNC THREADS (DIMENSIONS IN INCHES)

A	B	C	BASIC KIT	ADDITIONAL FIVE INSERTS	INSTALLATION TOOL KIT
¼ - 20	0.348	0.800	FFB21420K	FFB21420-5	FP21420K
⅕ - 18	0.465	1.105	FFB351618K	FFB351618-5	FP351618K
⅜ - 16	0.595	1.200	FFB43816K	FFB43816-5	FP43816K
7/16 - 14	0.595	1.330	FFB471614K	FFB471614-5	FP471614K
½ - 13	0.735	1.500	FFB51213K	FFB51213-5	FP51213K
9/16 - 12	0.860	1.750	FFB691612K	FFB691612-5	FP691612K
5/8 - 11	0.860	1.900	FFB65811K	FFB65811-5	FP65811K
¾ - 10	1.095	2.275	FFB83410K	FFB83410-5	FP83410K
7/8 - 9	1.220	2.500	FFB97809K	FFB97809-5	FP97809K
1 - 8	1.220	2.880	FFB91008K	FFB91008-5	FP91008K
1 1/8 - 7	1.364	2.980	FFB101187K	FFB101187-5	FP101187K
1 1/4 - 7	1.610	3.230	FFB121147K	FFB121147-5	FP121147K
1 3/8 - 6	1.732	3.570	FFB131386K	FFB131386-5	FP131386K
1 1/2 - 6	1.975	3.820	FFB141126K	FFB141126-5	FP141126K
1 3/4 - 5	2.225	4.450	FFB151345K	FFB151345-5	FP151345K
2 - 4 1/2	2.475	5.050	FFB162412K	FFB162412-5	FP162412K

FFB INSERTS FOR UNF THREADS (DIMENSIONS IN INCHES)

A	B	C	BASIC KIT	FIVE ADDITIONAL INSERTS	INSTALLATION TOOL KIT
¼ - 28	0.348	0.800	FFB21428K	FFB21428-5	FP21428K
⅕ - 24	0.465	1.105	FFB351624K	FFB351624-5	FP351624K
⅜ - 24	0.595	1.200	FFB43824K	FFB43824-5	FP43824K
7/16 - 20	0.595	1.330	FFB471620K	FFB471620-5	FP471620K
½ - 20	0.735	1.500	FFB51220K	FFB51220-5	FP51220K
9/16 - 18	0.860	1.650	FFB691618K	FFB691618-5	FP691618K
5/8 - 18	0.860	1.900	FFB65818K	FFB65818-5	FP65818K
¾ - 16	1.095	2.130	FFB83416K	FFB83416-5	FP83416K
7/8 - 14	1.220	2.500	FFB97814K	FFB97814-5	FP97814K
1 - 14	1.220	2.880	FFB91014K	FFB91014-5	FP91014K