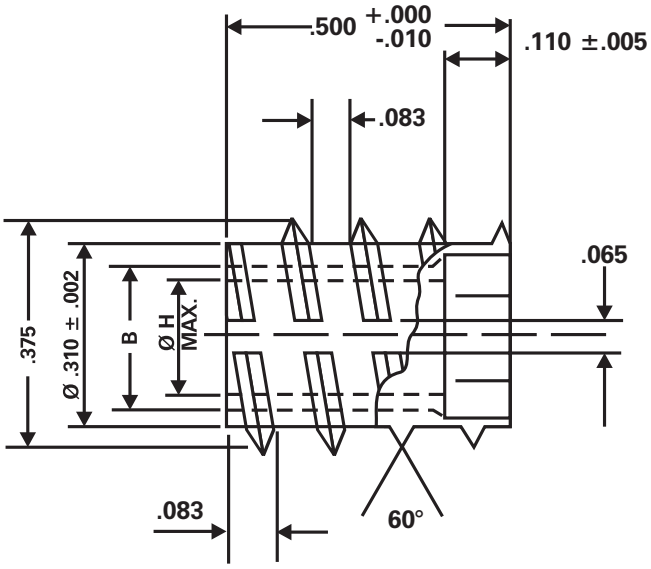
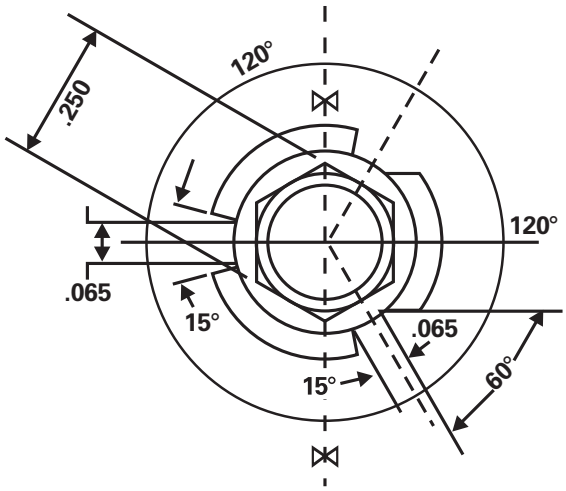
Yardley® Fiber-Sert® Inserts

Self-Tapping Inserts Provide Easily Installed, Strong, Permanent Threads for Wood, Particle Board, ABS, Foamed Plastics and Other Soft Materials

Diecast Series

Zamak diecast FIBER-SERT self-tapping inserts are designed for low cost, easily installed, permanent threads in wood and similar soft materials. The through threaded design with hex socket on one end, allows the FIBER-SERT Diecast Series insert to be installed by hex drive or stud drive.





DIECAST SERIES

Part Number	B	H	Starting Hole Size	Hex Drive (one end)
25020LD24-32	1/4-20	.207	5/16	.250

Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

YARDLEY PRODUCTS CORP A DVCC, INC. COMPANY

10 West College Avenue · P.O. Box 357 · Yardley, Pennsylvania 19067 - 8357

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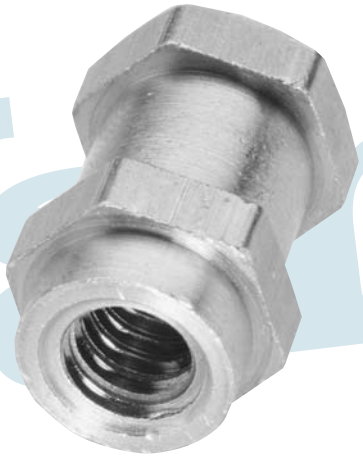
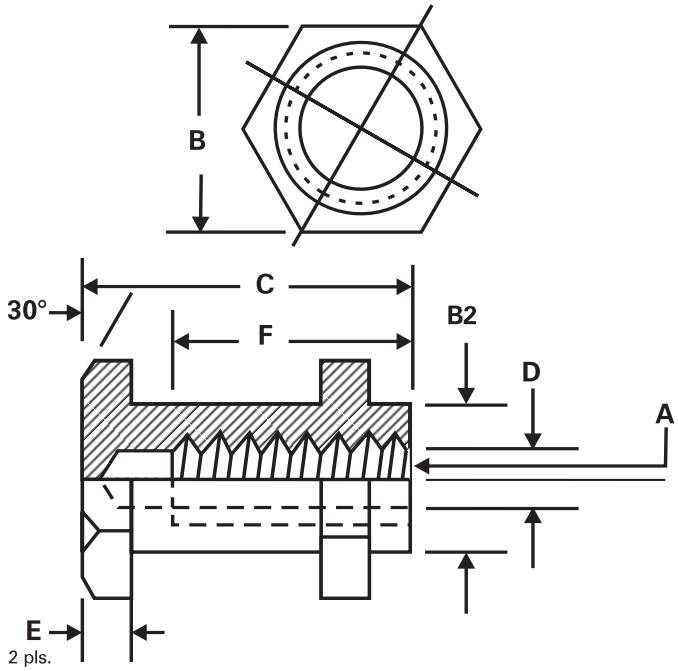
Yardley® Bi-Sert® Inserts

Designed to Provide Permanent Metal Threads in Molded Plastic Parts





Advantages

- **Hex shape provides exceptional torque and pull-out resistance**
- **Best design available for use in rotational molding**
- **Space between the hexes provides excellent flow characteristics, making it ideal for use with fiber-resin plastics**
- **Inside diameter is reamed for a smooth fit on locating pins**

Available from stock in Brass

Custom sizes/materials available

The Yardley BI-SERT insert is designed to provide permanent metal threads in molded plastic parts. The unique hex shape provides exceptional torque and pull-out resistance.

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter	B2 Minor Diameter ±.005	C Length +.000 −.005	D U.S. +.0015 −.000	D Metric +.0015 −.000	E ±.003	F U.S. Minimum Number of Full Threads	F Metric Minimum Number of Full Threads
440BS6-10	3005BS6-10	4-40	M3.0 x 0.5	.187	.156	.313	.089	.100	.040	7-1/2	10-1/2
632BS7-12	3506BS7-12	6-32	M3.5 x 0.6	.218	.187	.375	.110	.117	.050	7-1/2	9-3/4
832BS8-13	4007BS8-13	8-32	M4.0 x 0.7	.250	.218	.407	.136	.133	.060	8	8
1024BS10-15		10-24		.312	.250	.469	.154		.070	6-1/2	
1032BS10-15	5008BS10-15	10-32	M5.0 x 0.8	.312	.250	.469	.161	.168	.070	9	9
25020BS14-22	6010BS14-22	1/4-20	M6.0 x 1.0	.437	.375	.687	.204*	.200*	.125	9-1/2	11
31218BS20-26	80125BS20-26	5/16-18	M8.0 x 1.25	.625	.500	.812	.261*	.267*	.155	9-1/2	10-1/2
37516BS22-30	10015BS22-30	3/8-16	M10.0 x 1.5	.687	.562	.937	.318*	.317*	.165	10	10

*Check with our engineering department for tolerances

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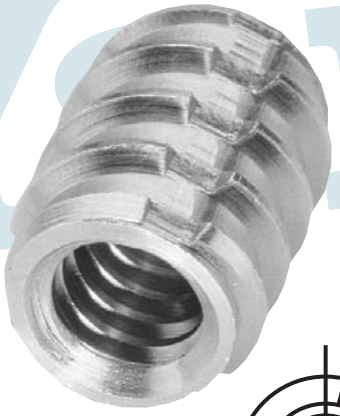
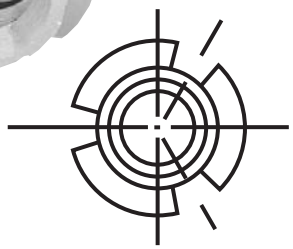
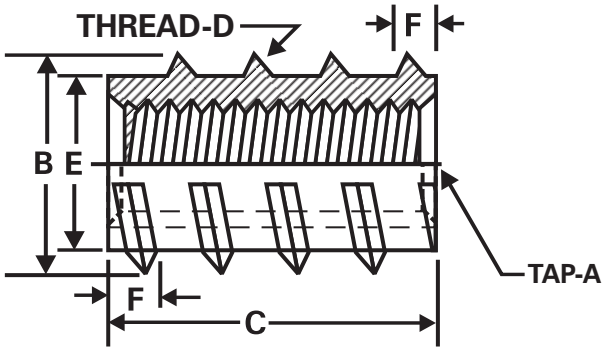
Yardley® Fiber-Sert® Inserts

Self-Tapping Inserts Provide Easily Installed, Strong, Permanent Threads for Wood, Particle Board, ABS, Foamed Plastics and Other Soft Materials







Advantages

- Self-tapping and self-locking
- Lead on both ends simplifies installation
- Three external flutes give even cutting action
- Inside threads stay chip-free and clean
- Coarse, exterior threads give tight lock
- Inserts won't split thin sections

Available from stock in Brass

FIBER-SERT inserts are internally and externally threaded metal bushings that are installed in wood and other comparatively soft materials to provide strong, permanent threads for fastening. They cut their own threads as they are driven (turned) into previously drilled holes and the external flutes provide a balanced cutting action. There are no slots or holes through the wall of the insert so the inside threads stay clean. This permits the driving stud to extend within the whole length of the insert for accurate installation. The coarse, external threads are engineered for maximum resistance to backout and loosening.

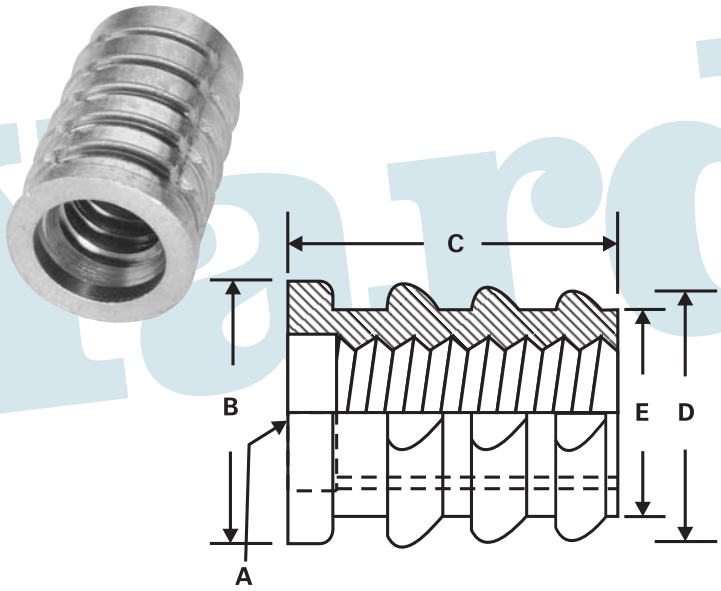
REGULAR SERIES

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter	C Length +.000 −.010	D Outside Thread	E ±.005	F	Starting Hole Size
440L11-22	3005L11-22	4-40	M3.0 x 0.5	.218	.344	7/32-11	.166	.068	11/64
632L14-22	3506L14-22	6-32	M3.5 x 0.6	.218	.344	7/32-11	.166	.068	11/64
832L16-26	4007L16-26	8-32	M4.0 x 0.7	.250	.406	1/4-11	.197	.068	13/64
1024L19-30		10-24		.296	.469	19/64-9	.231	.083	B(.238)
1032L19-30	5008L19-30	10-32	M5.0 x 0.8	.296	.469	19/64-9	.231	.083	B(.238)
25020L24-32	6010L24-32	250-20	M6.0 x 1.0	.375	.500	3/8-9	.310	.083	5/16
31218L30-32	80125L30-32	312-18	M8.0 x 1.25	.469	.500	15/32-9	.373	.083	3/8
37516L36-60	10015L36-60	375-16	M10.0 x 1.5	.562	.938	9/16-9	.464	.125	15/32

Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

Yardley® Intro-Sert® Inserts

For Ultrasonic or Thermal Post-Molded Installation in Thermoplastics



INTRO-SERT Ultrasonic Inserts offer plastic molders and users impressive benefits in lower cost production and better quality assemblies. In addition, they offer a choice of installation methods with conventional high frequency ultrasonic production equipment or the Yardley Thermal Inserter for low volume work.

Advantages

- Reduces molding cycle time by eliminating placing of inserts into mold cavity
- Requires less costly mold construction yet provide more design latitude for molded parts
- Rounded annular ribs reduce the stress concentration that causes residual cracking
- Offer high resistance to rotation and pull-out
- Adaptable to automated, high volume production

Available from stock in Brass, Aluminum and Stainless Steel

Custom sizes/materials available

REGULAR SERIES

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter ±.005	C Length ±.005	D ±.002	E Lead Diameter ±.005	Starting Hole Size ABS	Starting Hole Size Polycarbonates
256H5-6	2004H5-6	2-56	M2.0 x 0.4	.156	.187	.145	.121	.129	.125
440H6-8	3005H6-8	4-40	M3.0 x 0.5	.187	.250	.172	.147	.154	.150
632H7-10	3506H7-10	6-32	M3.5 x 0.6	.218	.312	.200	.178	.185	.180
832H8-12	4007H8-12	8-32	M4.0 x 0.7	.250	.375	.227	.200	.206	.201
1024H9-14		10-24		.281	.437	.255	.231	.238	.234
1032H9-14	5008H9-14	10-32	M5.0 x 0.8	.281	.437	.255	.231	.238	.234
6010H12-18	6010H12-18	1/4-20	M6.0 x 1.0	.375	.562	.341	.320	.328	.323

SHORT SERIES

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter ±.005	C Length ±.005	D ±.002	E Lead Diameter ±.005	Starting Hole Size ABS	Starting Hole Size Polycarbonates
256HR5-6	2004HR5-6	2-56	M2.0 x 0.4	.156	.156	.145	.121	.129	.125
440HR6-7	3005HR6-7	4-40	M3.0 x 0.5	.187	.219	.172	.147	.154	.150
632HR7-8	3506HR7-8	6-32	M3.5 x 0.6	.218	.250	.200	.178	.185	.180
832HR8-10	4007HR8-10	8-32	M4.0 x 0.7	.250	.312	.227	.200	.206	.201
1024HR9-12		10-24		.281	.375	.255	.231	.238	.234
1032HR9-12	5008HR9-12	10-32	M5.0 x 0.8	.281	.375	.255	.231	.238	.234
25020HR12-16	6010HR12-16	1/4-20	M6.0 x 1.0	.375	.500	.341	.320	.328	.323

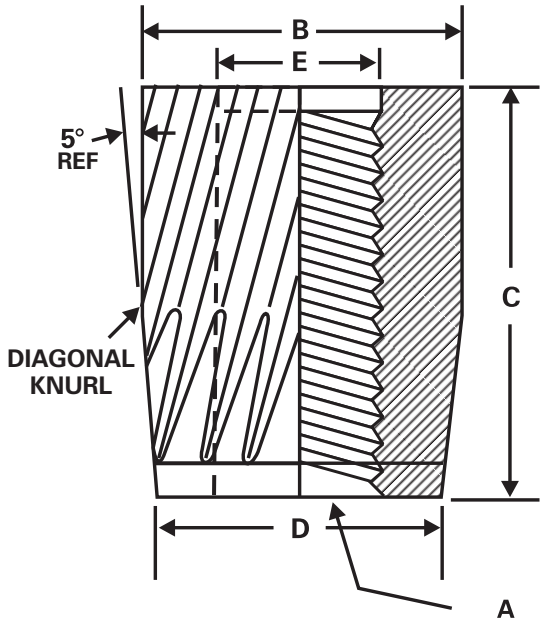
Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

Yardley® Quick-Sert® Inserts

Threaded Inserts Designed for Permanent Threads in Aluminum and Soft Metals

Advantages

- Easy manual press-in installation
- Self-aligning tapered lead simplifies installation
- Counter bore prevents distortion of threads
- Plated to reduce corrosion



Available from stock in plated steel and Stainless Steel

Custom sizes/materials available

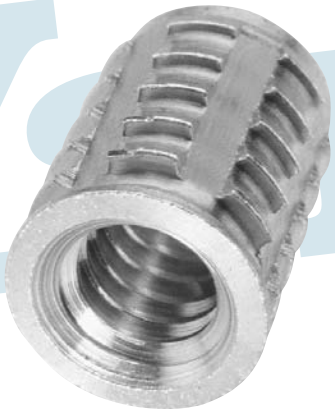
Yardley has designed the QUICK-SERT for fast easy press-in installation. This insert answers many repair type situations, as well as, providing permanent threads in Aluminum and other soft metals. The through threaded steel insert is intended for applications where constant usage causes threads in soft materials to break down. Its smooth tapered lead allows easy positioning for quick starts in the pre-drilled hole and the knurled body locks tightly in the host material. The thick wall design prevents thread distortion during insertion. The QUICK-SERT is zinc plated to prevent oxidation.

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter ±.002	C Length +.010 −.000	D Tapered Lead +.000 −.010	E Counter Bore Size +.005 −.000	Starting Hole Size
256Q6-5	2004Q6-5	2-56	M2.0 x 0.4	.195	.156	.187	.096	.189
440Q7-6	3005Q7-6	4-40	M3.0 x 0.5	.228	.187	.218	.117	.220
632Q8-8	3506Q8-8	6-32	M3.5 x 0.6	.260	.250	.250	.148	.252
832Q9-9	4007Q9-9	8-32	M4.0 x 0.7	.287	.281	.281	.174	.282
1024Q10-10		10-24		.322	.312	.312	.200	.314
1032Q10-10	5008Q10-10	10-32	M5.0 x 0.8	.322	.312	.312	.200	.314
25020Q14-15	6010Q14-15	.250-20	M6.0 x 1.0	.447	.468	.437	.265	.439
31218Q18-20	80125Q18-20	.312-18	M8.0 x 1.25	.578	.625	.562	.327	.564
37516Q22-24	10015Q22-24	.375-16	M10.0 x 1.5	.710	.750	.687	.421	.689

Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

Yardley® Sharp-Sert® Inserts

Threaded Inserts Designed for Installation in Plastics, Particle Board and Wood

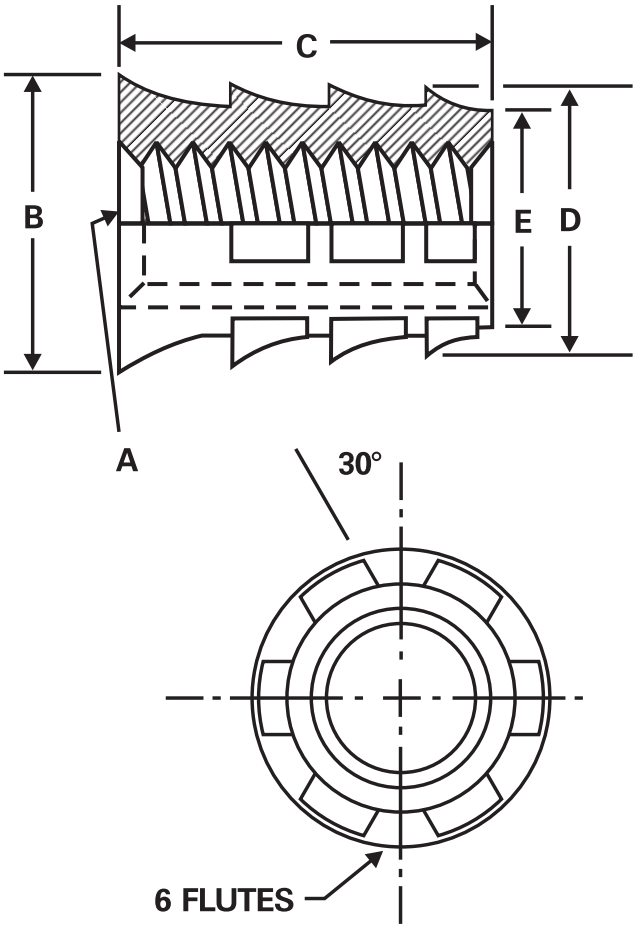


Advantages

- A variety of installation methods
- Through threaded
- Tapped area stays clean
- Economical
- Slightly curved hooks lock into material
- High resistance to rotation and pull-out

Available from stock in Brass

Custom sizes/materials available



Regular & Short Series

A versatile, economical insert, the SHARP-SERT can be used with most soft materials including wood, particle board and plastic. It can be pressed-in as well as installed thermally or ultrasonically. The SHARP-SERT is precision engineered by Yardley for trouble-free installation and reliability. The specially designed curved hooks lock firmly into the base material, providing exceptional resistance to pull-out and torque. Threads stay clean and chip free during installation.

The SHARP-SERT is also available in Short Series for shallow depth applications.

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REGULAR SERIES

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter ±.005	C Length ±.005	D ±.002	E Lead Diameter ±.005	Starting Hole Size
256S5-6	2004S5-6	2-56	M2.0 x 0.4	.156	.156	.145	.113	.118
440S6-7	3005S6-7	4-40	M3.0 x 0.5	.187	.219	.172	.143	.148
632S7-8	3506S7-8	6-32	M3.5 x 0.6	.218	.250	.200	.175	.180
832S8-10	4007S8-10	8-32	M4.0 x 0.7	.250	.312	.227	.200	.205
1024S9-12		10-24		.281	.375	.255	.228	.230
1032S9-12	5008S9-12	10-32	M5.0 x 0.8	.281	.375	.255	.228	.230
25020S12-16	6010S12-16	250-20	M6.0 x 1.0	.375	.500	.341	.307	.312

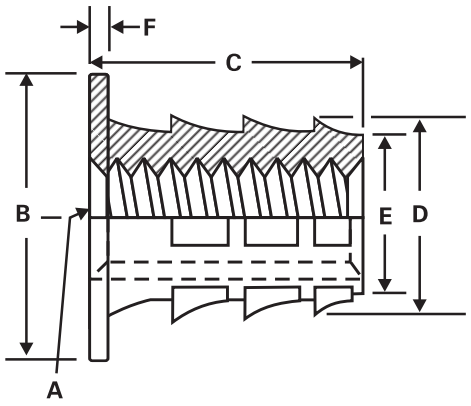
SHORT SERIES

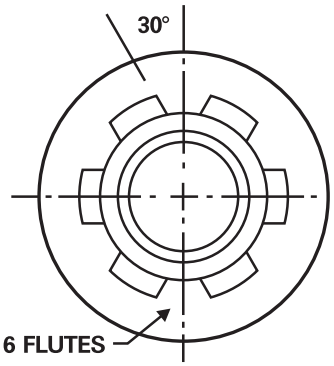
U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter ±.005	C Length ±.005	D ±.002	E Lead Diameter ±.005	Starting Hole Size
256SR5-3	2004SR5-3	2-56	M2.0 x 0.4	.156	.115	.145	.113	.118
440SR6-4	3005SR6-4	4-40	M3.0 x 0.5	.187	.135	.172	.143	.148
632SR7-5	3506SR7-5	6-32	M3.5 x 0.6	.218	.150	.200	.175	.180
832SR8-6	4007SR8-6	8-32	M4.0 x 0.7	.250	.185	.227	.200	.205
1024SR9-7		10-24		.281	.225	.255	.228	.230
1032SR9-7	5008SR9-7	10-32	M5.0 x 0.8	.281	.225	.255	.228	.230
25020SR12-9	6010SR12-9	250-20	M6.0 x 1.0	.375	.300	.341	.307	.312

Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

Flanged Series

All the advantages of the Yardley SHARP-SERT Standard Series in a versatile, flanged design. The Flanged SHARP-SERT is ideal for use in applications where both pull-out and pull-through are a concern. The flanged surface also allows larger headed screws to be used. It also provides an electrical union and can be used as a welding point.



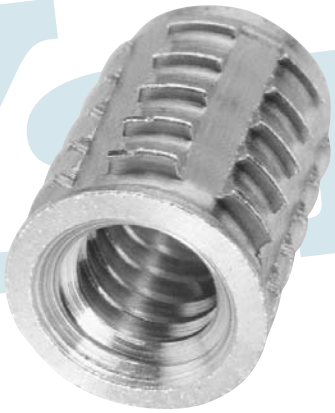


U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Flange Diameter ±.005	C Length ±.005	D ±.002	E Lead Diameter ±.005	F Flange Thickness	Starting Hole Size
440SF8-7	3005SF8-7	4-40	M3.0 x 0.5	.250	.219	.172	.143	.030	.148
632SF9-8	3506SF9-8	6-32	M3.5 x 0.6	.296	.250	.200	.175	.030	.180
832SF10-10	4007SF10-10	8-32	M4.0 x 0.7	.312	.312	.227	.200	.030	.205
1024SF12-12		10-24		.375	.375	.255	.228	.030	.230
1032SF12-12	5008SF12-12	10-32	M5.0 x 0.8	.375	.375	.255	.228	.030	.230
25020SF16-16	6010SF16-16	1/4-20	M6.0 x 1.0	.500	.500	.341	.307	.035	.312

Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

Yardley® Sharp-Sert® Inserts

Threaded Inserts Designed for Installation in Plastics, Particle Board and Wood

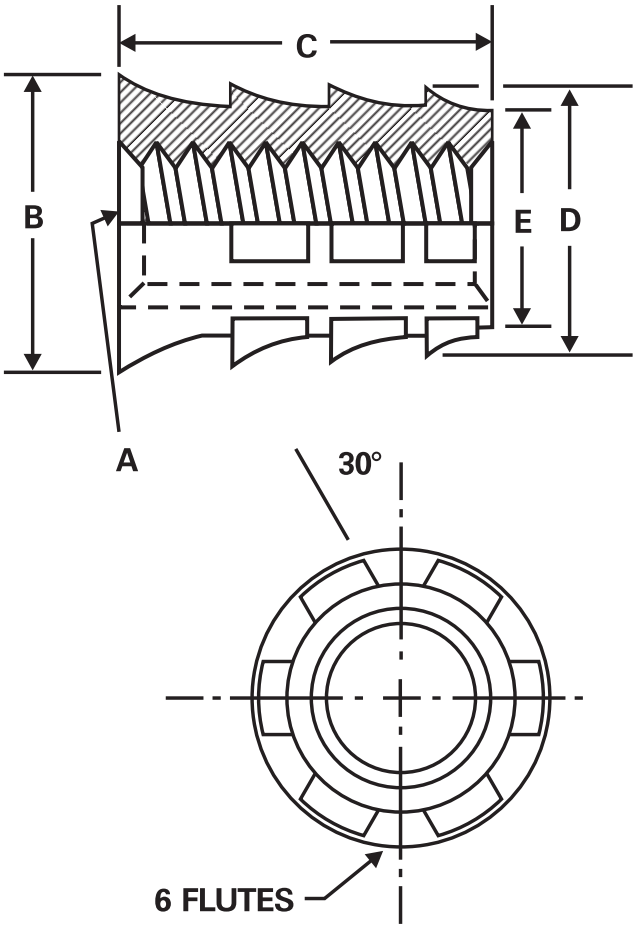


Advantages

- A variety of installation methods
- Through threaded
- Tapped area stays clean
- Economical
- Slightly curved hooks lock into material
- High resistance to rotation and pull-out

Available from stock in Brass

Custom sizes/materials available



Regular & Short Series

A versatile, economical insert, the SHARP-SERT can be used with most soft materials including wood, particle board and plastic. It can be pressed-in as well as installed thermally or ultrasonically. The SHARP-SERT is precision engineered by Yardley for trouble-free installation and reliability. The specially designed curved hooks lock firmly into the base material, providing exceptional resistance to pull-out and torque. Threads stay clean and chip free during installation.

The SHARP-SERT is also available in Short Series for shallow depth applications.

REGULAR SERIES

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter ±.005	C Length ±.005	D ±.002	E Lead Diameter ±.005	Starting Hole Size
256S5-6	2004S5-6	2-56	M2.0 x 0.4	.156	.156	.145	.113	.118
440S6-7	3005S6-7	4-40	M3.0 x 0.5	.187	.219	.172	.143	.148
632S7-8	3506S7-8	6-32	M3.5 x 0.6	.218	.250	.200	.175	.180
832S8-10	4007S8-10	8-32	M4.0 x 0.7	.250	.312	.227	.200	.205
1024S9-12		10-24		.281	.375	.255	.228	.230
1032S9-12	5008S9-12	10-32	M5.0 x 0.8	.281	.375	.255	.228	.230
25020S12-16	6010S12-16	250-20	M6.0 x 1.0	.375	.500	.341	.307	.312

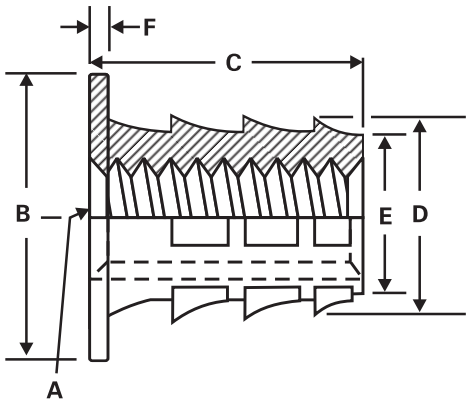
SHORT SERIES

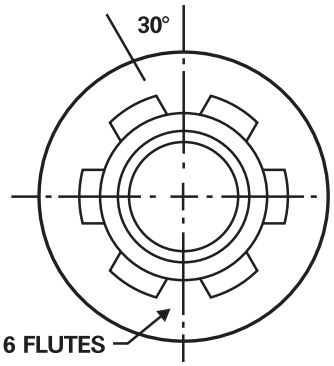
U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter ±.005	C Length ±.005	D ±.002	E Lead Diameter ±.005	Starting Hole Size
256SR5-3	2004SR5-3	2-56	M2.0 x 0.4	.156	.115	.145	.113	.118
440SR6-4	3005SR6-4	4-40	M3.0 x 0.5	.187	.135	.172	.143	.148
632SR7-5	3506SR7-5	6-32	M3.5 x 0.6	.218	.150	.200	.175	.180
832SR8-6	4007SR8-6	8-32	M4.0 x 0.7	.250	.185	.227	.200	.205
1024SR9-7		10-24		.281	.225	.255	.228	.230
1032SR9-7	5008SR9-7	10-32	M5.0 x 0.8	.281	.225	.255	.228	.230
25020SR12-9	6010SR12-9	250-20	M6.0 x 1.0	.375	.300	.341	.307	.312

Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

Flanged Series

All the advantages of the Yardley SHARP-SERT Standard Series in a versatile, flanged design. The Flanged SHARP-SERT is ideal for use in applications where both pull-out and pull-through are a concern. The flanged surface also allows larger headed screws to be used. It also provides an electrical union and can be used as a welding point.



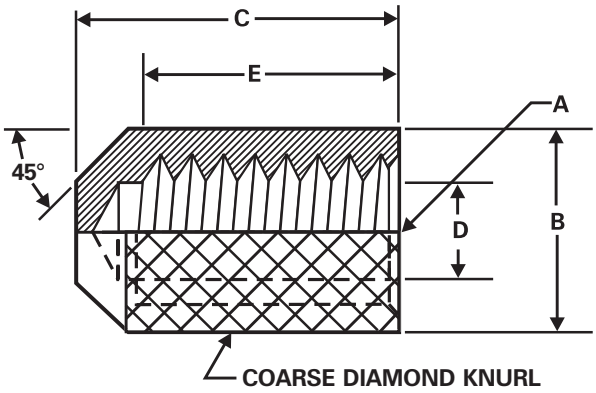


U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Flange Diameter ±.005	C Length ±.005	D ±.002	E Lead Diameter ±.005	F Flange Thickness	Starting Hole Size
440SF8-7	3005SF8-7	4-40	M3.0 x 0.5	.250	.219	.172	.143	.030	.148
632SF9-8	3506SF9-8	6-32	M3.5 x 0.6	.296	.250	.200	.175	.030	.180
832SF10-10	4007SF10-10	8-32	M4.0 x 0.7	.312	.312	.227	.200	.030	.205
1024SF12-12		10-24		.375	.375	.255	.228	.030	.230
1032SF12-12	5008SF12-12	10-32	M5.0 x 0.8	.375	.375	.255	.228	.030	.230
25020SF16-16	6010SF16-16	1/4-20	M6.0 x 1.0	.500	.500	.341	.307	.035	.312

Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

Yardley® Standardized Molded-In Inserts

Threaded Inserts Designed for Molding in Plastics, Rubber and Ceramics



Type A

Advantages

- Class II threads meet A.S.M.E. (U.S.) specifications
- Metric threads meet ISO specifications
- Holes tapped to maximum depth for overall length
- Holes burnished after tapping
- For use with or without locating pins

Available from stock in Brass, Aluminum and Stainless Steel

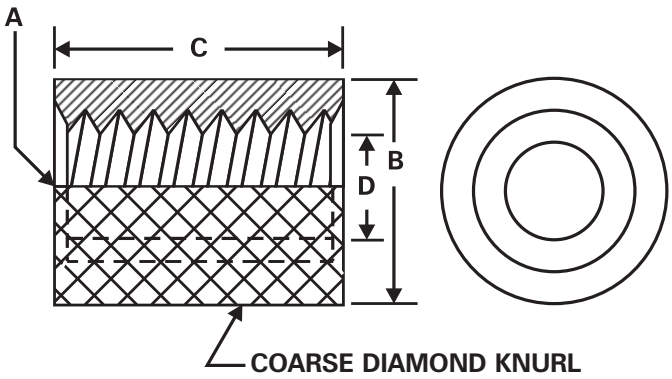
Custom sizes/materials available

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Diameter Over Knurl	C Length +.000 −.010	D U.S. I.D. Tolerance +.0015 −.0000 after tapping	D Metric I.D. (Inches) +.0015 −.0000 after tapping	E U.S. Minimum Number of Full Threads	E Metric Minimum Number of Full Threads
256A4-6[1]	2004A4-6[1]	2-56	M2.0 X 0.4	.133	.187	.070	.064	5	5-1/2
440A5-8	3005A5-8	4-40	M3.0 X 0.5	.169	.250	.089	.100	5	7-1/2
540A6-9[2]		5-40		.200	.281	.104		6	
632A6-10	3506A6-10	6-32	M3.5 X 0.6	.200	.312	.110	.117	5-1/2	7
832A7-11	4007A7-11	8-32	M4.0 X 0.7	.232	.344	.136	.133	6	6-1/2
1024A8-12		10-24		.266	.375	.154		4-1/2	
1032A8-12	5008A8-12	10-32	M5.0 X 0.8	.266	.375	.161	.168	6-3/4	6-1/2
25020A12-18	6010A12-18	1/4-20	M6.0 X 1.0	.391	.562	.204*	.200*	6-1/2	8-1/2
25028A12-18[3]		1/4-28		.391	.562	.215*		10	
31218A16-21[3]	80125A16-21[3]	5/16-18	M8.0 X 1.25	.516	.656	.261**	.267**	6-3/4	7-1/2
37516A18-24[3]	10015A18-24[3]	3/8-16	M10.0 X 1.50	.578	.750	.318**	.337**	7	7
50013A24-30[3]	120175A24-30[3]	1/2-13	M12.0 X 1.75	.766	.937	.430**	.404**	6-1/2	7

Materials: (1) Brass and Stainless Steel only (2) Aluminum and Brass Only (3) Brass Only
Tol erances: * +.002 -.000 after tapping **Check with our engineering department for toleranc

Yardley® Standardized Molded-In Inserts

Threaded Inserts Designed for Molding in Plastics, Rubber and Ceramics



Type B

Advantages

- Class II threads meet A.S.M.E. (U.S.) specifications
- Metric threads meet ISO specifications
- Holes tapped through entire length
- Holes burnished after tapping
- For use with or without locating pins

Available from stock in Brass, Aluminum and Stainless Steel

Custom sizes/materials available

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Diameter Over Knurl	C Length +.000 −.010	D U.S. I.D. Tolerance +.0015 −.0000 after tapping	D Metric I.D. (Inches) +.0015 −.0000 after tapping
256B4-5[1]	2004B4-5[1]	2-56	M2.0 x 0.4	.133	.156	.070	.064
440B5-6	3005B5-6	4-40	M3.0 x 0.5	.169	.187	.089	.100
540B6-7[2]		5-40		.200	.218	.104	
632B6-8	3506B6-8	6-32	M3.5 x 0.6	.200	.250	.110	.117
832B7-8	4007B7-8	8-32	M4.0 x 0.7	.232	.250	.136	.133
832B7-9	4007B7-9	8-32	M4.0 X 0.7	.232	.281	.136	.133
1024B8-10		10-24		.266	.312	.154	
1032B8-10	5008B8-10	10-32	M5.0 X 0.8	.266	.312	.161	.168
25020B12-15	6010B12-15	1/4-20	M6.0 X 1.0	.391	.468	.204*	.200*
25028B12-15[2]		1/4-28		.391	.468	.215*	
31218B16-18[3]	80125B16-18[3]	5/16-18	M8.0 X 1.25	.516	.562	.261**	.267**
37516B18-22[3]	10015B18-22[3]	3/8-16	M10.0 x 1.50	.578	.687	.318**	.337**
50013B24-28[3]	120175B24-28[3]	1/2-13	M12.0 x 1.75	.766	.875	.430**	.404**

Materials: (1) Brass and Stainless Steel only (2) Aluminum and Brass Only (3) Brass Only
Tolerances: * +.002 -.000 after tapping **Check with our engineering department for tolerances

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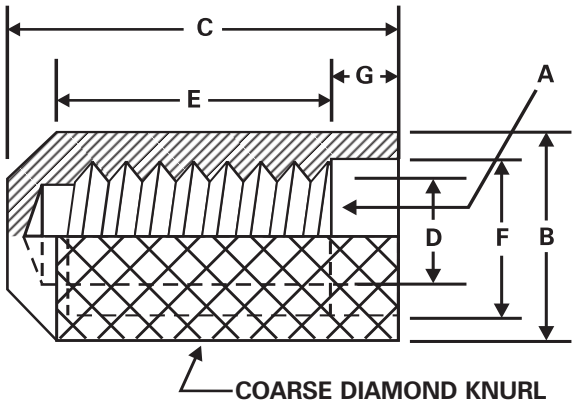
Yardley® Standardized Molded-In Inserts

Threaded Inserts Designed for Molding in Plastics, Rubber and Ceramics



Type C

Advantages

- Class II threads meet A.S.M.E. (U.S.) specifications
- Metric threads meet ISO specifications
- Holes tapped to maximum depth for overall length
- Holes burnished after tapping
- For use with or without locating pins
- Counter bore for mating with Type D Inserts and for shoulder pin locating

Available from stock in Brass, and Aluminum

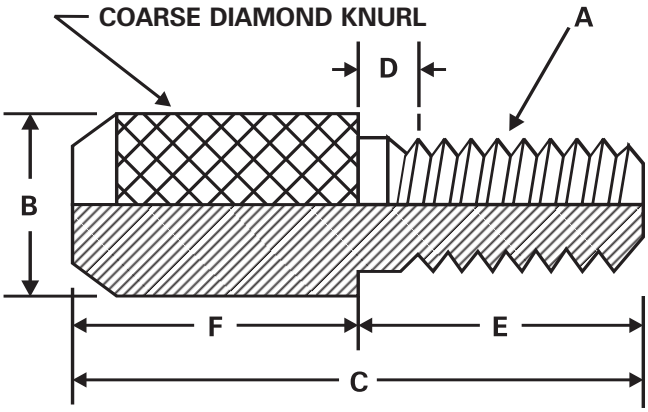
Custom sizes/materials available

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Diameter Over Knurl	C Length +.000 −.010	D U.S. I.D. Tolerance +.0015 −.0000 after tapping	D Metric I.D. (Inches) +.0015 −.0000 after tapping	E U.S. Minimum Number of Full Threads	E Metric Minimum Number of Full Threads	F Counter Bore Size +.005 −.000	G Counter Bore Depth +.010 −.000
440C5-10	3005C5-10	4-40	M3.0 x 0.5	.169	.313	.089	.100	5	7-1/2	.117	.063
540C6-11		5-40		.200	.344	.104		6		.135	.063
632C6-12	3506C6-12	6-32	M3.5 x 0.6	.200	.375	.110	.117	5-1/2	7	.148	.063
832C7-13	4007C7-13	8-32	M4.0 x 0.7	.232	.407	.136	.133	6	6-1/2	.174	.063
1024C8-15		10-24		.266	.469	.154		4-1/2		.200	.094
1032C8-15	5008C8-15	10-32	M5.0 x 0.8	.266	.469	.161	.168	6-3/4	6-1/2	.200	.094
25020C12-22	6010C12-22	1/4-20	M6.0 x 1.0	.391	.687	.204*	.200*	6	8-1/2	.265	.125

Tolerances: *+.002 -.000 after tapping

Yardley® Standardized Molded-In Inserts

Threaded Inserts Designed for Molding in Plastics, Rubber and Ceramics



Type D

Advantages

- Class II threads meet A.S.M.E. (U.S.) specifications
- Metric threads meet ISO specifications
- Proportioned for maximum holding strength
- Can be screwed to butt flush with Type C Insert

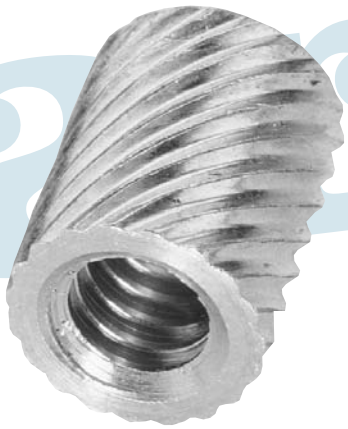
Available from stock in Brass

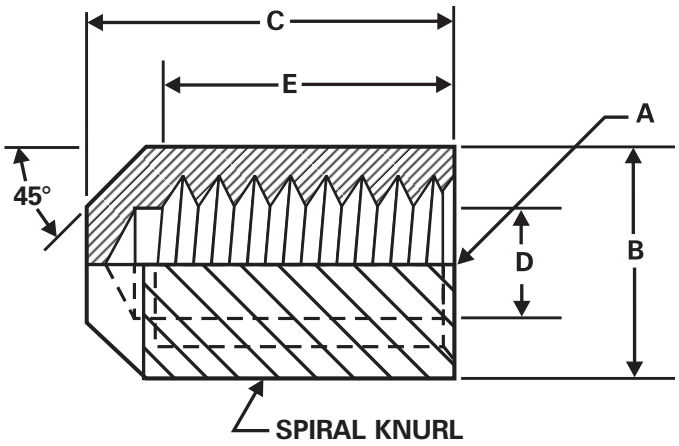
Custom sizes/materials available

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Diameter Over Knurl	C Length +.000 −.010	D Maximum	E +.000 −.010	F +.005 −.005
440D5-14	3005D5-14	4-40	M3.0 x 0.5	.169	.437	.063	.187	.250
540D6-16		5-40		.200	.500	.063	.218	.281
632D6-18	3506D6-18	6-32	M3.5 x 0.6	.200	.562	.063	.250	.312
832D7-19	4007D7-19	8-32	M4.0 x 0.7	.232	.594	.063	.250	.344
1024D8-21		10-24		.266	.656	.094	.281	.375
1032D8-21	5008D8-21	10-32	M5.0 x 0.8	.266	.656	.094	.281	.375
25020D12-32	6010D12-32	1/4-20	M6.0 x 1.0	.391	1.000	.125	.437	.562

Yardley® Standardized Pressed-In Inserts

Threaded Inserts Designed for Driving or Pressing into Plastics and Rubber





Type E

Advantages

- Class II threads meet A.S.M.E. (U.S.) specifications
- Metric threads meet ISO specifications
- Holes tapped to maximum depth for overall length
- Holes burnished after tapping
- For use with or without locating pins

Available from stock in Brass and Aluminum

Custom sizes/materials available

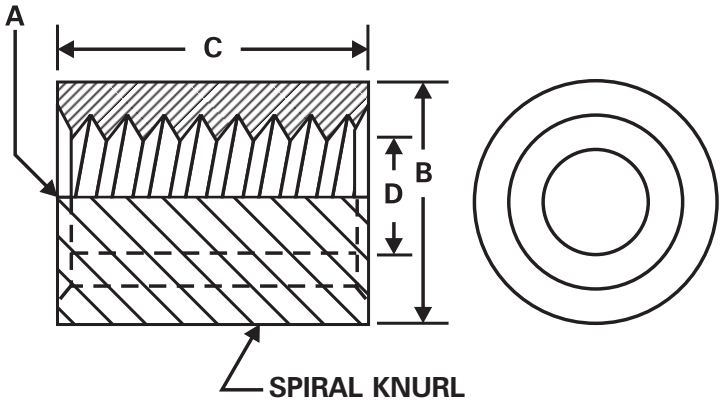
U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Diameter Over Knurl	C Length +.000 −.010	D U.S. I.D. Tolerance +.0015 −.0000 after tapping	D Metric I.D. (Inches) +.0015 −.0000 after tapping	E U.S. Minimum Number of Full Threads	E Metric Minimum Number of Full Threads	Starting Hole Size
440E5-8	3005E5-8	4-40	M3.0 x 0.5	.166	.250	.089	.100	5	7-1/2	5/32
540E6-9		5-40		.197	.281	.104		6		3/16
632E6-10	3506E6-10	6-32	M3.5 x 0.6	.197	.312	.110	.117	5-1/2	7	3/16
832E7-11	4007E7-11	8-32	M4.0 x 0.7	.228	.344	.136	.133	6	6-1/2	7/32
1024E8-12		10-24		.262	.375	.154		4-1/2		1/4
1032E8-12	5008E8-12	10-32	M5.0 x 0.8	.262	.375	.161	.168	6-3/4	6-1/2	1/4
25020E12-18	6010E12-18	1/4-20	M6.0 x 1.0	.391	.562	.204*	.200*	6	8-1/2	3/8

Tolerances: *+.002 -.000 after tapping

Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

Yardley® Standardized Pressed-In Inserts

Threaded Inserts Designed for Driving or Pressing into Plastics and Rubber



Type F

Advantages

- Class II threads meet A.S.M.E. (U.S.) specifications
- Metric threads meet ISO specifications
- Holes tapped through entire length
- Holes burnished after tapping
- For use with or without locating pins

Available from stock in Brass and Aluminum

Custom sizes/materials available

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Diameter Over Knurl	C Length +.000 −.010	D U.S. I.D. Tolerance +.0015 −.0000 after tapping	D Metric I.D. (Inches) +.0015 −.0000 after tapping	Starting Hole Size
440F5-6	3005F5-6	4-40	M3.0 x 0.5	.166	.187	.089	.100	5/32
540F6-7		5-40		.197	.218	.104		3/16
632F6-8	3506F6-8	6-32	M3.5 x 0.6	.197	.250	.110	.117	3/16
832F7-9	4007F7-9	8-32	M4.0 x 0.7	.228	.281	.136	.133	7/32
1024F8-10		10-24		.262	.312	.154		1/4
1032F8-10	5008F8-10	10-32	M5.0 x 0.8	.262	.312	.161	.168	1/4
25020F12-15	6010F12-15	1/4-20	M6.0 x 1.0	.391	.468	.204*	.200*	3/8

Tolerances: *+.002 -.000 after tapping

Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

Yardley® Trisert® Coarse Threaded Inserts

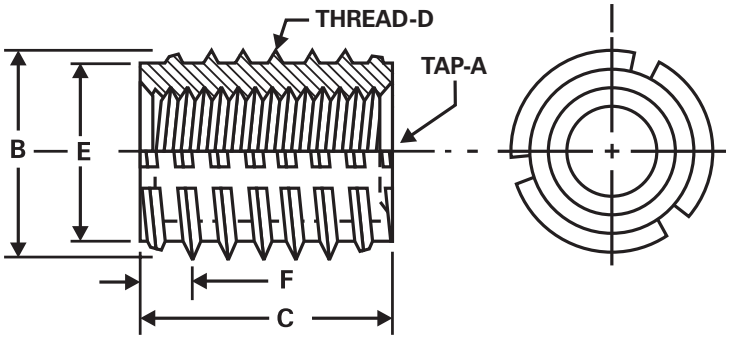
Self-Tapping Inserts Provide Strong Threads for Plastics, Soft Metals and Wood

Advantages

- **Wider spaced external threads reduce installation torque**
- **Especially efficient for brittle or weak plastics**

Available from stock in Brass

Custom sizes/materials available



TRISERT Coarse Threaded Inserts are internally and externally threaded metal inserts designed to meet the increased demand for holding power in thermoplastic and thermosetting plastics. The wider spaced external threads reduce installation torque and provide a stronger hold. Installation is simple, as three external flutes provide full cutting action, while retaining chips to keep inside threads clean.

COARSE THREADED SERIES

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter	C Length +.000 −.010	D Outside Thread	E ±.005	F	Starting Hole Size Thermosets
256JC9-12	2004JC9-12	2-56	M2.0 x 0.4	.141	.188	.141-32	.122	.044	.127-.129
440JC11-15	3005JC11-15	4-40	M3.0 x 0.5	.172	.234	.172-24	.149	.056	.152-.156
632JC14-18	3506JC14-18	6-32	M3.5 x 0.6	.218	.281	.218-20	.189	.069	.194-.198
832JC16-21	4007JC16-21	8-32	M4.0 x 0.7	.250	.328	.250-20	.219	.074	.226-.230
1024JC19-24		10-24		.296	.375	.296-18	.261	.083	.264-.270
1032JC19-24	5008JC19-24	10-32	M5.0 x 0.8	.296	.375	.296-18	.261	.083	.264-.270
25020JC24-31	6010JC24-31	250-20	M6.0 x 1.0	.375	.484	.375-16	.330	.102	.336-.343

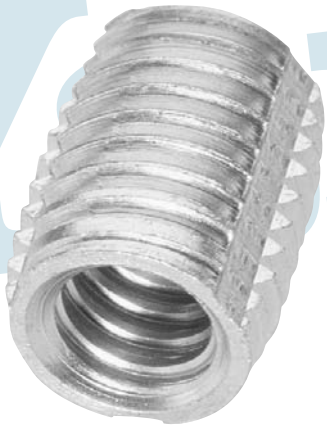
COARSE THREADED SHORT SERIES

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter	C Length +.000 −.010	D Outside Thread	E ±.005	F	Starting Hole Size Thermosets
256JCS9-9	2004JCS9-9	2-56	M2.0 x 0.4	.141	.141	.141-32	.122	.035	.127-.129
440JCS11-11	3005JCS11-11	4-40	M3.0 x 0.5	.172	.172	.172-24	.149	.042	.152-.156
632JCS14-14	3506JCS14-14	6-32	M3.5 x 0.6	.218	.218	.218-20	.189	.054	.194-.198
832JCS16-16	4007JCS16-16	8-32	M4.0 x 0.7	.250	.250	.250-20	.219	.058	.226-.230
1024JCS19-19		10-24		.296	.296	.296-18	.261	.065	.266-.270
1032JCS19-19	5008JCS19-19	10-32	M5.0 x 0.8	.296	.296	.296-18	.261	.065	.266-.270
25020JCS24-24	6010JCS24-24	250-20	M6.0 x 1.0	.375	.375	.375-16	.330	.084	.336-.343

Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

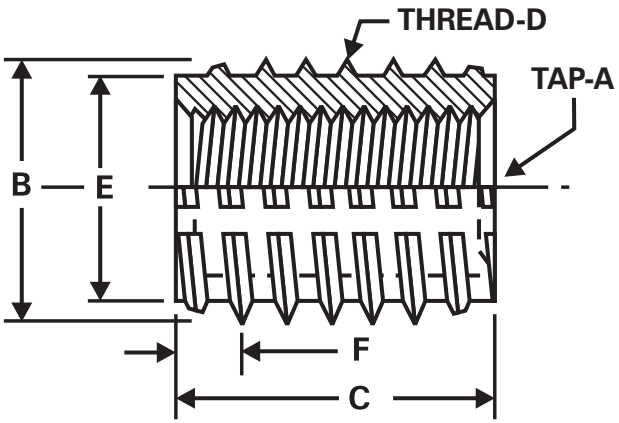
Yardley® Trisert® Inserts

Self-Tapping Inserts Provide Strong Threads for Plastics, Soft Metals and Wood



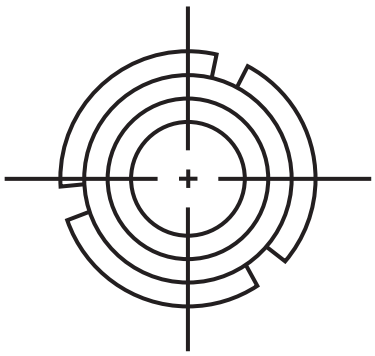
Advantages

- Self-tapping, self-locking
- Provide stronger, more durable permanent threads in soft metals and plastics
- Supply permanent threads in cast iron that will not gall, seize, corrode or strip
- Offer strong resistance to rotation and pull-out
- Lead on both ends simplifies installation
- Ideal for automated production



Available from Stock in Brass, Plated Steel and Stainless Steel

Custom sizes/materials available



TRISERT Inserts are internally and externally threaded metal bushings that are installed in plastics and soft metals to provide stronger threads than the base plastic or metal can offer. They tap their own threads as they are driven (turned) into drilled or cored holes. The three, full-length, external flutes provide a balanced, full cutting action. Chips and dust are retained in these flutes and the inside threads stay clean. This is especially important in electronic or electrical work where contamination can cause serious problems.

To make installation easier, TRISERT Inserts have a lead on both ends permitting manual placement by feel and making hopper feed practical for automated production.

Yardley® Trisert® Inserts

Self-Tapping Inserts Provide Strong Threads for Plastics, Soft Metals and Wood

REGULAR SERIES

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter	C Length +.000 −.010	D Outside Thread	E +.000 −.010	F	Starting Hole Size
256J9-12	2004J9-12	2-56	M2.0 x 0.4	.141	.188	9/64-48	.122	.044	.124-.129
440J11-15	3005J11-15	4-40	M3.0 x 0.5	.172	.234	11/64-40	.149	.074	.149-.156
632J14-18	3506J14-18	6-32	M3.5 x 0.6	.218	.281	7/32-32	.189	.092	.190-.198
832J16-21	4007J16-21	8-32	M4.0 x 0.7	.250	.328	1/4-32	.219	.092	.222-.230
1024J19-24		10-24		.296	.375	19/64-24	.261	.102	.264-.270
1032J19-24	5008J19-24	10-32	M5.0 x 0.8	.296	.375	19/64-24	.261	.102	.264-.270
25020J24-31	6010J24-31	250-20	M6.0 x 1.0	.375	.484	3/8-20	.330	.130	.330-.343

Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

Short Series

TRISERT Short Series Inserts are short on length but long on holding power. They offer all the advantages of the regular TRISERT Inserts–simple and fast installation, clean internal threads, and outstanding resistance to torque and pull-out. They are ideal for applications requiring a shorter length self-tapping insert.

SHORT SERIES

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Outside Diameter	C Length +.000 −.010	D Outside Thread	E +.000 −.010	F	Starting Hole Size
256JS9-9	2004JS9-9	2-56	M2.0 x 0.4	.141	.141	9/64-48	.122	.035	.124-.129
440JS11-11	3005JS11-11	4-40	M3.0 x 0.5	.172	.172	11/64-40	.149	.042	.149-.156
632JS14-14	3506JS14-14	6-32	M3.5 x 0.6	.218	.218	7/32-32	.189	.054	.190-.198
832JS16-16	4007JS16-16	8-32	M4.0 x 0.7	.250	.250	1/4-32	.219	.058	.222-.230
1024JS19-19		10-24		.296	.296	19/64-24	.261	.065	.264-.270
1032JS19-19	5008JS19-19	10-32	M5.0 x 0.8	.296	.296	19/64-24	.261	.065	.264-.270
25020JS24-24	6010JS24-24	1/4-20	M6.0 x 1.0	.375	.375	3/8-20	.330	.084	.330-.343

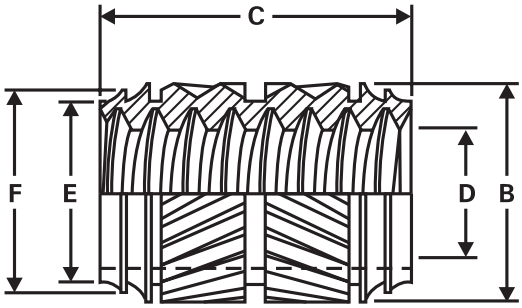
Recommended starting hole sizes: Tests should be conducted to determine the appropriate hole sizes for your specific application and base material.

Yardley® Zap-Sert® Double Ended Inserts

For Ultrasonic, Thermal or Molded-In Installation in Plastics and Thermoplastics

Advantages

- Unique radial barbs provide strong resistance to pull-out
- Offers high resistance to rotation
- Lead on both ends simplifies installation
- Ideal for automated, high volume production



Available from stock in Brass

Custom sizes/materials available

ZAP-SERT Double Ended Inserts offer plastic molders and users impressive benefits in lower cost production and better quality assemblies. These inserts give the strength of molded-in inserts and the economy of inserts that are put in after molding. For ease of installation, ZAP-SERT Inserts have a lead on both ends which also makes them ideal for high volume, automated production.

DOUBLE ENDED INSERTS

U.S. Part Number	Metric Part Number	A U.S. Thread Size	A Metric Thread Size	B Diameter Over Knurl	C Length +.000 −.010	D U.S. I.D. Tolerance +.0015 -.0000 After Tapping	D Metric I.D. (Inches) Tolerance +.0015 -.0000 After Tapping	E Lead Diameter +/- .003	F +/- .003	Starting Hole Size
440Z5-7	3005Z5-7	4-40	M3.0 x 0.5	.172	.226	.089	.100	.131	.152	.136
632Z6-9	3506Z6-9	6-32	M3.5 x 0.6	.205	.281	.110	.117	.166	.184	.171
832Z7-10	4007Z7-10	8-32	M4.0 x 0.7	.232	.323	.136	.133	.210	.219	.216
1024Z8-12		10-24		.269	.375	.154		.222	.248	.228
1032Z8-12	5008Z8-12	10-32	M5.0 x 0.8	.269	.375	.161	.168	.222	.248	.228
25020Z12-16	6010Z12-16	1/4-20	M6.0 x 1.0	.332	.500	.204*	.200*	.291	.311	.296
31218Z13-16	80125Z13-16	5/16-18	M8.0 x 1.25	.394	.500	.261**	.267**	.354	.374	.359

Tolerances: *+.002 -.000 after tapping **Check with our engineering department for tolerances

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