

# APEX<sup>®</sup>

ASSEMBLY & FABRICATION TOOLS



Enero 2024



TOLEDO<sup>®</sup>



## PUNTAS 1/4" PLANAS



Clave	Tamaño del Tornillo	Longitud Total		Espesor de la hoja		Ancho de la hoja		Empaque	Precio Unitario
		in	mm	in	mm	in	mm		
HPX4451X	4F-5R	1	25	0.034	0.86	3/16	4.8	1	\$65.00
HPX4452X	6F-8R	1	25	.040	1.02	7/32	5.6	1	\$63.00

## TAMAÑOS DE TORNILLOS RANURADOS

Tamaño del Tornillo	Cabeza plana / ovalada		Cabeza redonda		Cabeza Ranurada	Cabeza Fijadora	Fillister		Cabeza de Pan	Ancho de la ranura
	Madera	Mach.	Madera	Mach.			Cap	Mach.		
1	.146	.146	.138	.138	—	—	—	.118	—	.026
	.130	.130	.122	.122	—	—	—	.104	—	.019
2	.172	.172	.162	.162	.194	.181	—	.140	.167	.031
	.156	.156	.146	.146	.180	.171	—	.124	.155	.023
3	.199	.199	.187	.187	.226	.208	—	.161	.193	.035
	.181	.181	.169	.169	.211	.197	—	.145	.180	.027
4	.225	.225	.211	.211	.257	.235	—	.183	.219	.039
	.207	.207	.193	.193	.241	.223	—	.166	.205	.031
5	.232	.252	.236	.236	.289	.263	—	.187	.245	.035
	.279	.232	.217	.217	.272	.249	—	.226	.231	.048
6	.257	.279	.260	.260	.321	.290	—	.208	.270	.048
	.305	.257	.240	.240	.303	.275	—	.205	.256	.039
7	.283	—	.285	—	.352	—	—	—	.296	.054
	.332	—	.264	—	.333	—	—	—	.281	.045
8	.308	.332	.309	.309	.384	.344	—	.270	.322	.054
	.358	.308	.287	.287	.364	.326	—	.250	.306	.045
9	.334	—	.334	—	—	—	—	—	—	.060
	.385	—	.311	—	—	—	—	—	—	.050
10	—	.385	.359	.359	.448	.339	—	.313	.373	.067
	.438	.359	.334	.334	.425	.378	—	.292	.357	.056
12	.410	.438	.408	.408	.511	.454	—	.357	.425	.075
	.491	.410	.382	.382	.487	.430	—	.334	.407	.064
14	.461	—	.457	—	—	—	—	—	—	.075
	—	—	.424	—	—	—	—	—	—	.064
1/4"	—	.507	—	.472	.573	.513	.375	.414	.492	.075
	.544	.477	—	.443	.546	.488	.363	.389	.473	.064
16	.512	—	.506	—	—	—	—	—	—	.084
	.597	—	.476	—	—	—	—	—	—	.072
18	.563	—	.555	—	—	—	—	—	—	.084
	—	—	.523	—	—	—	—	—	—	.072
5/16"	—	.635	—	.590	.698	.641	.437	.518	.615	.084
	.650	.600	—	.557	.666	.609	.424	.490	.594	.072
20	.614	—	.604	—	—	—	—	—	—	.094
	.756	—	.570	—	—	—	—	—	—	.081
24	.716	—	.702	—	—	—	—	—	—	.094
	—	—	.664	—	—	—	—	—	—	.081
3/8"	—	.762	—	.708	.823	.769	.562	.622	.740	.039
	.722	—	.670	—	.787	.731	.547	.590	.716	.043

## PUNTAS 1/4" CUADRADAS



Clave	Tamaño de la punta	Medida Nominal	Longitud Total		Empaque	Precio Unitario
			in	mm		
HPX9502X	2	1/8	1	25	1	\$37.90

## PUNTAS 1/4" TORX®



Clave	Medida	A <sup>+</sup>	Longitud Total		Empaque	Precio Unitario
			in	mm		
HPX440T10X	T-10	.107	1	25	1	\$99.00
HPX440T15X	T-15	.128	1	25	1	\$99.00
HPX440T20X	T-20	.151	1	25	1	\$100.00
HPX440T25X	T-25	.173	1	25	1	\$100.00
HPX440T30X	T-30	.216	1	25	1	\$100.00
HPX440T40X	T-40	.260	1	25	1	\$100.00

## PUNTAS 1/4" HEXAGONALES PHILLIPS



Clave	Tamaño de la punta	Longitud Total		Empaque	Precio Unitario
		in	mm		
HPX4401X	1	1	25	1	\$27.20
HPX4462X	2	1	25	1	\$28.50
HPX4402X	2	1	25	1	\$27.20
HPX4403X	3	1	25	1	\$27.20

## PUNTAS 1/4" TORX® DE SEGURIDAD



Clave	Medida	A <sup>+</sup>	Longitud Total		Empaque	Precio Unitario
			in	mm		
HPX440T15H	T-15-H	.128	1	25	1	\$211.00
HPX440T20H	T-20-H	.151	1	25	1	\$211.00
HPX440T25H	T-25-H	.173	1	25	1	\$211.00
HPX440T40H	T-40-H	.260	1	25	1	\$211.00

## PUNTA DE PODER 1/4" CUADRADA












Clave	Tamaño de la punta	Medida Nominal	Longitud Total		Empaque	Precio Unitario
			in	mm		
HPX9542X	2	1/8	1-15/16	49	1	\$55.00









## PUNTAS 1/4" HEXAGONAL



Clave	Hex Tamaño in	Longitud Total		Empaque	Precio Unitario
		in	mm		
HPX1856X	1/4	1-5/16	33	1	\$121.00
HPX1852X	1/8	1	25	1	\$96.00
HPX18510X	9/64	1	25	1	\$97.00
HPX1853X	5/32	1-5/16	33	1	\$102.00
HPX1854X	3/16	1-5/16	33	1	\$118.00

### GUÍA DE MEDIDAS TORNILLOS DE HEXÁGONO INTERIOR

SAE									
Hexágono Normal Tamaño, IN.	Hexágono Interior Serie 1960	Tornillos de Capuchón Serie 1936	Cabeza Plana	Cabeza Botón	Tornillos de Fijación	Pernos de Hombro	Tapones de Presión	Todas las Tuercas	Cabeza Baja
.050	0	0, 1	1, 2	3, 4	—	—	—	4	.050
1/16	1	2	3, 4	3, 4	5, 6	—	—	—	5, 6
5/64	2, 3	3, 4	5, 6	5, 6	8	—	—	—	8
3/32	4, 5	5, 6	8	8	10	—	—	—	10
7/64	6	—	—	—	—	—	—	—	—
1/8	—	8	10	10	1/4	1/4	—	4, 5	1/4
9/64	8	10	—	—	—	—	—	—	—
5/32	10	1/4	1/4	1/4	5/16	5/16	—	6	5/16
3/16	1/4	—	5/16	5/16	3/8	3/8	—	8, 10	3/8
7/32	—	5/16	3/8	3/8	7/16	—	1/16	—	7/16
1/4	5/16	—	7/16	—	1/2	1/2	1/8	1/4	1/2
5/16	3/8	3/8, 7/16	1/2	—	5/8	5/8	—	5/16	5/8
3/8	7/16, 1/2	1/2	5/8	—	3/4	3/4	1/4	3/8	—
7/16	—	—	—	—	—	—	3/8	7/16	—
1/2	5/8	5/8	3/4	—	7/8	1	1/2	1/2	—
9/16	—	3/4, 7/8	7/8	—	1, 1 1/8	—	—	—	—
5/8	3/4	1	1	—	1 1/4, 1 3/8	1 1/4	—	5/8	—
3/4	7/8, 1	1 1/8, 1 1/4, 1 3/8	1 1/8	—	1 1/2	—	3/4	3/4	—
7/8	1 1/8, 1 1/4	—	1 1/4, 1 3/8	—	—	1 1/2	1	7/8	—
1	1 3/8, 1 1/2	1 1/2	1 1/2	—	1 3/4, 2	1 3/4	1 1/4	1	—
1 1/4	1 3/4	—	—	—	—	2	—	1 1/4	—
1 1/2	2	—	—	—	—	—	1 1/2, 2	1 1/2	—
1 3/4	2 1/4, 2 1/2	—	—	—	—	—	—	—	1 3/4
2	2 3/4	—	—	—	—	—	—	—	—

MÉTRICOS								
Hexágono Normal Tamaño, IN.	Hexágono Interior Tornillos de Capuchón	Cabeza Plana	Cabeza Botón	Tornillos de Fijación	Pernos de Hombro	Todas las Tuercas	Cabeza Baja	
1.5	M1.6, M1.7, M2	—	—	M3	—	—	—	
22	M2.3, M2.5, M2.6	M3	M3	M4	—	—	—	
.5	M3	M4	M4	M5	—	—	—	
3	M4	M5	M5	M6	6mm	M3	M4	
4	M5	M6	M6	M8	8mm	M4	M5	
5	M6	M8	M8	M10	10mm	M5	M6	
6	M8	M10	M10	M12, M14	12mm	M6	M8	
8	M10	M12	M12	M16	16mm	M8	M10	
10	M12	M14, M16	—	M20	20mm	M10	M12	
12	M14	M20	—	M24	—	M12	M14	
14	M16	—	—	—	—	—	M16	
17	M20	—	—	—	—	M16	M20, M22	
19	M24	—	—	—	—	—	M24	

### PUNTAS 1/4" HEXAGONAL MÉTRICAS



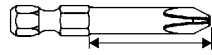
Clave	Hex Tamaño mm	Longitud Total		Empaque	Precio Unitario
		in	mm		
HPX1852M	2	1	25	1	\$121.00
HPX1853M	3	1	25	1	\$121.00
HPX1854M	4	1-5/16	33	1	\$121.00
HPX1855M	5	1-5/16	33	1	\$116.00
HPX1856M	6	1-5/16	33	1	\$116.00

### PUNTAS DE PODER 1/4" TORX®



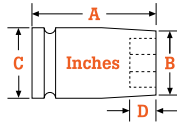
Clave	Medida	A	Diámetro		Longitud Total		Empaque	Precio Unitario
			in	mm	in	mm		
HPX49T15	T-15	.128	.150	3.8	1-15/16	49	1	\$174.00
HPX49T20	T-20	.151	.171	4.3	1-15/16	49	1	\$174.00
HPX49AT20	T-20	.151	.171	4.3	2-3/4	70	1	\$191.00
HPX49AT25	T-25	.173	.193	4.9	2-3/4	70	1	\$191.00
HPX49BT25	T-25	.173	.193	4.9	3-1/2	89	1	\$240.00
HPX49T30	T-30	.216	.236	6	1-15/16	49	1	\$174.00
HPX49T40	T-40	.260	.309	7.8	1-15/16	49	1	\$174.00

### PUNTAS DE PODER 1/4" HEXAGONALES PHILLIPS



Clave	Tamaño de la punta	Longitud Total		Diámetro		Longitud Torneada		Empaque	Precio Unitario
		in	mm	in	mm	in	mm		
HPX491BX	1	3-1/2	89	3/16	4.8	2-3/4	70	1	\$92.00
HPX491CX	1	6	152	3/16	4.8	5-1/4	133	1	\$321.00
HPX49227X	2	1-15/16	49	1/4	6.4	1-1/4	32	1	\$61.00
HPX492AX	2	2-3/4	70	1/4	6.4	2	51	1	\$63.00
HPX492CX	2	6	152	1/4	6.4	2	51	1	\$143.00

### DADO LARGO 1/4" 6 PUNTAS



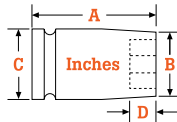
Clave	Hex Apertura in	Longitud Total (A) in	Diámetro del extremo de la nariz (B) in	Diámetro de Salida (C) in	Profundidad de apertura (D) in	E	Precio Unitario
HPX1208	1/4	1-3/4	3/8	1/2	5/32	1	\$383.00

### DADOS MAGNÉTICOS 1/4" METAL 6 PUNTAS



Clave	Hex Apertura in	Longitud Total in	Diámetro del extremo de la nariz in	Empaque	Precio Unitario
HPXMA08	1/4	1-3/4	7/16	1	\$357.00
HPXMA10	5/16	1-3/4	1/2	1	\$387.00
HPXMB10	5/16	2-9/16	1/2	1	\$405.00
HPXMA12	3/8	1-3/4	9/16	1	\$417.00
HPXMB12	3/8	2-9/16	9/16	1	\$435.00
HPXMA14	7/16	2	11/16	1	\$465.00

### DADOS CORTOS 3/8" 6 PUNTAS



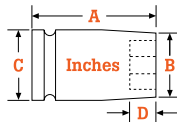
Clave	Hex Apertura in	Longitud Total (A) in	Diámetro del extremo de la nariz (B) in	Diámetro de Salida (C) in	Profundidad de apertura (D) in	E	Precio Unitario
HPX3114	7/16	1-1/2	11/16	3/4	9/32	1	\$377.00
HPX3116	1/2	1-1/2	13/16	13/16	11/32	1	\$392.00
HPX3118	9/16	1-1/2	7/8	7/8	7/16	1	\$423.00

### EXTENSOR



Clave	Medida in	Hex Adapta a in	Tipo	Longitud Total		E	Precio Unitario
				in	mm		
HPX2503	1/4 DR	1/4	Pin	3	76	1	\$294.00
HPX5003	1/2 DR	1/4	Pin	3	76	1	\$1,026.00

### DADOS CORTOS 1/2" 6 PUNTAS



Clave	Hex Apertura in	Longitud Total (A) in	Diámetro del extremo de la nariz (B) in	Diámetro de Salida (C) in	Profundidad de apertura (D) in	E	Precio Unitario
HPX5122	11/16	1-1/2	1-1/8	1-1/8	7/16	1	\$786.00
HPX5120	5/8	1-1/2	1	1	7/16	1	\$609.00

### HOLDER MAGNÉTICO 1/4"



Clave	OAL		Empaque	Precio Unitario
	in	mm		
HPXM490	2-31/32	75	1	\$428.00
HPXM497	3-3/32	79	1	\$664.00
HPXM4906	6	152	1	\$889.00
HPXM49010	10	254	1	\$1,166.00
HPXM49012	12	304	1	\$1,602.00