



**13120 Arctic Circle
Santa Fe Springs, CA 90670 USA
Tel: (562) 926-2400 Fax: (562) 926-2441
E-mail: sales@rtmproducts.com
Website: www.RTMProducts.com**



Terms & Conditions of Sale

Condition of Sales

Sales are made in accordance with our standard conditions of sale at the time orders are accepted. Terms & conditions are subject to change without notice.

Quotations

Quotations are valid for Ninety (90) days from the date of the quotation unless otherwise agreed.

Payment Terms

Payment terms are net 30 days, from date of invoice. Terms are based on approved credit. These terms are on stocked, standard and made-to-order products. RTM Products reserves the right to charge a 1.5% per month service charge on all account balances over sixty (60) days. Payments made overseas are to be sent via wire transfer and must include all bank fees and fees charged to the seller. No non-US bank checks will be accepted.

All prices are in U.S. dollars unless otherwise agreed prior in writing. RTM reserves the right to add an handling fee for all shipments or where special conditions apply.

Delivery Point

F.O.B. RTM Products.

Blanket Order Policy

- 1. All blanket orders must specify release quantities and release dates.*
- 2. All items must be released within six (6) months after the first shipment is made unless otherwise agreed. The first release must be scheduled within 3 months of the order date.*
- 3. Blanket orders must exceed a total of \$250.00 per line item.*
- 4. Special HFR or Consignment order conditions are negotiable and depend on the customer's current standing.*

Return Policy

- 1. Returns will only be accepted if they have been given formal authorization. Please contact us with your claim & to receive a formal Return Authorization number.*
- 2. Claims against standard products must be made within 180 days (6 months) after shipping date. No returns will be accepted after the 180 day return period. Order errors made by the customer will be subject to a 15% restocking charge.*
- 3. Claims against special products must be made within 30 days (1 month) after shipping date. No returns will be accepted after the 30 day return period.*

Cancellation Policy

- 1. Standard stock orders may be cancelled if they have not shipped at the time of cancellation.*
- 2. Cancelled made-to-order items will be invoiced according to the amount of work completed at the time of the cancellation. Charges may include accumulated material, labor and tooling charges.*

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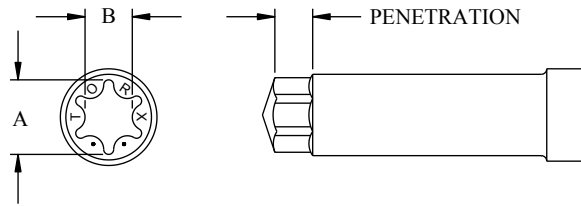
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Torx® Tooling
Torx Plus® Tooling



Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm	Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm
5TXI-251	5	.059/1.49	.043/1.09	.017/.43	15TXI-255	15	.132/3.35	.096/2.43	.033/.84
5TXI-252	5	.059/1.49	.043/1.09	.025/.64	15TXI-253	15	.132/3.35	.096/2.43	.035/.89
5TXI-250	5	.059/1.49	.043/1.09	.031/.79	15TXI-256	15	.132/3.35	.096/2.43	.041/1.04
6TXI-251	6	.070/1.77	.050/1.29	.022/.56	15TXI-251	15	.132/3.35	.096/2.43	.045/1.14
6TXI-252	6	.070/1.77	.050/1.29	.030/.76	15TXI-254	15	.132/3.35	.096/2.43	.050/1.27
6TXI-253	6	.070/1.77	.050/1.29	.033/.84	15TXI-250	15	.132/3.35	.096/2.43	.060/1.52
6TXI-250	6	.070/1.77	.050/1.29	.041/1.04	15TXI-252	15	.132/3.35	.096/2.43	.070/1.78
7TXI-254	7	.082/2.08	.060/1.52	.025/.64	20TXI-257	20	.155/3.93	.112/2.85	.036/.91
7TXI-253	7	.082/2.08	.060/1.52	.030/.76	20TXI-254	20	.155/3.93	.112/2.85	.038/.97
7TXI-250	7	.082/2.08	.060/1.52	.033/.84	20TXI-258	20	.155/3.93	.112/2.85	.045/1.14
7TXI-250	7	.082/2.08	.060/1.52	.035/.89	20TXI-253	20	.155/3.93	.112/2.85	.050/1.27
7TXI-251	7	.082/2.08	.060/1.52	.038/.97	20TXI-256	20	.155/3.93	.112/2.85	.056/1.42
7TXI-252	7	.082/2.08	.060/1.52	.043/1.09	20TXI-255	20	.155/3.93	.112/2.85	.060/1.52
8TXI-255	8	.095/2.41	.069/1.75	.028/.71	20TXI-251	20	.155/3.93	.112/2.85	.065/1.65
8TXI-254	8	.095/2.41	.069/1.75	.030/.76	20TXI-252	20	.155/3.93	.112/2.85	.080/2.03
8TXI-250	8	.095/2.41	.069/1.75	.033/.84	20TXI-250	20	.155/3.93	.112/2.85	.089/2.26
8TXI-257	8	.095/2.41	.069/1.75	.035/.89	25TXI-255	25	.178/4.53	.129/3.27	.044/1.12
8TXI-253	8	.095/2.41	.069/1.75	.038/.97	25TXI-253	25	.178/4.53	.129/3.27	.055/1.40
8TXI-251	8	.095/2.41	.069/1.75	.041/1.04	25TXI-256	25	.178/4.53	.129/3.27	.060/1.52
8TXI-256	8	.095/2.41	.069/1.75	.043/1.09	25TXI-251	25	.178/4.53	.129/3.27	.065/1.65
8TXI-252	8	.095/2.41	.069/1.75	.051/1.30	25TXI-254	25	.178/4.53	.129/3.27	.075/1.90
9TXI-253	9	.102/2.59	.074/1.88	.037/.94	25TXI-252	25	.178/4.53	.129/3.27	.090/2.29
9TXI-250	9	.102/2.59	.074/1.88	.040/1.02	25TXI-250	25	.178/4.53	.129/3.27	.115/2.92
9TXI-252	9	.102/2.59	.074/1.88	.046/1.17	27TXI-255	27	.200/5.09	.144/3.67	.050/1.27
9TXI-251	9	.102/2.59	.074/1.88	.055/1.40	27TXI-258	27	.200/5.09	.144/3.67	.060/1.52
10TXI-255	10	.111/2.81	.081/2.05	.030/.76	27TXI-251	27	.200/5.09	.144/3.67	.065/1.65
10TXI-256	10	.111/2.81	.081/2.05	.033/.84	27TXI-254	27	.200/5.09	.144/3.67	.075/1.90
10TXI-253	10	.111/2.81	.081/2.05	.035/.89	27TXI-253	27	.200/5.09	.144/3.67	.085/2.16
10TXI-251	10	.111/2.81	.081/2.05	.040/1.02	27TXI-259	27	.200/5.09	.144/3.67	.090/2.29
10TXI-254	10	.111/2.81	.081/2.05	.045/1.14	27TXI-252	27	.200/5.09	.144/3.67	.105/2.67
10TXI-250	10	.111/2.81	.081/2.05	.050/1.27	27TXI-250	27	.200/5.09	.144/3.67	.120/3.05
10TXI-252	10	.111/2.81	.081/2.05	.060/1.52					

1. Punch Pin materials:

- M2 at RC 61-64
- M42 at RC 63-65
- Carbide: D60 and D70 available. Specify when ordering

2. Special penetrations available. Specify required penetration when ordering.

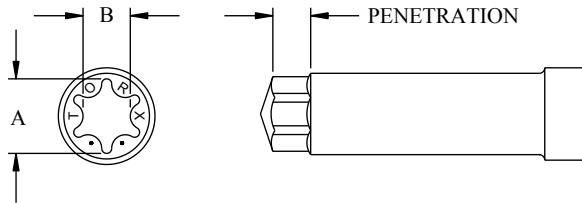
3. Oversize pins available for heavy plating or hot heading applications.

4. PVD Coatings available for cold & hot heading applications.

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Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm	Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm
30TXI-255	30	.221/5.62	.160/4.06	.043/1.09	55TXI-255	55	.447/11.35	.318/8.09	.095/2.41
30TXI-254	30	.221/5.62	.160/4.06	.055/1.40	55TXI-251	55	.447/11.35	.318/8.09	.110/2.79
30TXI-260	30	.221/5.62	.160/4.06	.065/1.65	55TXI-258	55	.447/11.35	.318/8.09	.115/2.92
30TXI-253	30	.221/5.62	.160/4.06	.070/1.78	55TXI-257	55	.447/11.35	.318/8.09	.135/3.43
30TXI-257	30	.221/5.62	.160/4.06	.075/1.90	55TXI-253	55	.447/11.35	.318/8.09	.145/3.68
30TXI-256	30	.221/5.62	.160/4.06	.080/2.03	55TXI-256	55	.447/11.35	.318/8.09	.155/3.94
30TXI-251	30	.221/5.62	.160/4.06	.090/2.29	55TXI-254	55	.447/11.35	.318/8.09	.175/4.45
30TXI-252	30	.221/5.62	.160/4.06	.105/2.67	55TXI-259	55	.447/11.35	.318/8.09	.190/4.83
30TXI-250	30	.221/5.62	.160/4.06	.125/3.18	55TXI-252	55	.447/11.35	.318/8.09	.200/5.08
40TXI-256	40	.267/6.78	.192/4.89	.070/1.78	55TXI-250	55	.447/11.35	.318/8.09	.215/5.46
40TXI-260	40	.267/6.78	.192/4.89	.080/2.03	60TXI-251	60	.529/13.44	.381/9.68	.145/3.68
40TXI-255	40	.267/6.78	.192/4.89	.085/2.16	60TXI-256	60	.529/13.44	.381/9.68	.150/3.81
40TXI-257	40	.267/6.78	.192/4.89	.090/2.27	60TXI-254	60	.529/13.44	.381/9.68	.185/4.70
40TXI-254	40	.267/6.78	.192/4.89	.097/2.46	60TXI-253	60	.529/13.44	.381/9.68	.215/5.46
40TXI-251	40	.267/6.78	.192/4.89	.110/2.79	60TXI-252	60	.529/13.44	.381/9.68	.221/5.61
40TXI-253	40	.267/6.78	.192/4.89	.120/3.05	60TXI-257	60	.529/13.44	.381/9.68	.245/6.22
40TXI-252	40	.267/6.78	.192/4.89	.125/3.18	60TXI-250	60	.529/13.44	.381/9.68	0.280/7.11
40TXI-250	40	.267/6.78	.192/4.89	.135/3.42					
45TXI-254	45	.313/7.95	.224/5.68	.085/2.16					
45TXI-256	45	.313/7.95	.224/5.68	.105/2.67					
45TXI-253	45	.313/7.95	.224/5.68	.110/2.79					
45TXI-251	45	.313/7.95	.224/5.68	.115/2.92					
45TXI-252	45	.313/7.95	.224/5.68	.140/3.56					
45TXI-250	45	.313/7.95	.224/5.68	.155/3.94					
50TXI-253	50	.353/8.96	.256/6.50	.095/2.41					
50TXI-257	50	.353/8.96	.256/6.50	.110/2.79					
50TXI-259	50	.353/8.96	.256/6.50	.120/3.05					
50TXI-256	50	.353/8.96	.256/6.50	.129/3.28					
50TXI-251	50	.353/8.96	.256/6.50	.135/3.43					
50TXI-258	50	.353/8.96	.256/6.50	.143/3.63					
50TXI-250	50	.353/8.96	.256/6.50	.154/3.91					
50TXI-252	50	.353/8.96	.256/6.50	.160/4.06					
50TXI-255	50	.353/8.96	.256/6.50	.176/4.47					

1. Punch Pin materials:

- M2 at RC 61-64
- M42 at RC 63-65
- Carbide: D60 and D70 available. Specify when ordering

2. Special penetrations available. Specify required penetration when ordering.

3. Oversize pins available for heavy or hot heading plating applications.

4. PVD Coatings available for cold & hot heading applications.

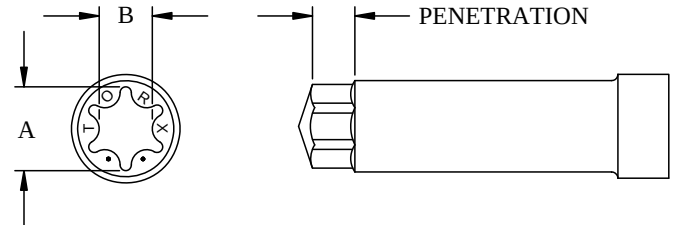
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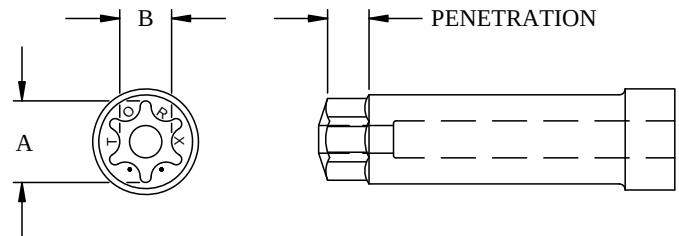
Punch Pin Blanks

Part Number	Drive Size	A inch/mm	B inch/mm	Minimum Pen inch/mm
5TXI-249B	5	.059/1.49	.043/1.09	.035/.89
6TXI-249B	6	.070/1.77	.050/1.29	.045/1.14
7TXI-249B	7	.082/2.09	.059/1.52	.050/1.27
8TXI-249B	8	.095/2.41	.069/1.75	.055/1.40
9TXI-249B	9	.102/2.59	.074/1.88	.060/1.52
10TXI-249B	10	.111/2.81	.081/2.05	.065/1.65
15TXI-249B	15	.132/3.35	.096/2.43	.075/1.91
20TXI-249B	20	.155/3.93	.112/2.85	.095/2.41
25TXI-249B	25	.178/4.53	.129/3.27	.120/3.05
27TXI-249B	27	.200/5.09	.144/3.67	.125/3.18
30TXI-249B	30	.221/5.62	.160/4.06	.130/3.30
40TXI-249B	40	.267/6.78	.192/4.89	.140/3.56
45TXI-249B	45	.313/7.95	.224/5.68	.160/4.06
50TXI-249B	50	.353/8.96	.256/6.50	.180/4.57
55TXI-249B	55	.447/11.35	.318/8.09	.220/5.59
60TXI-249B	60	.529/13.45	.381/9.68	.290/7.37



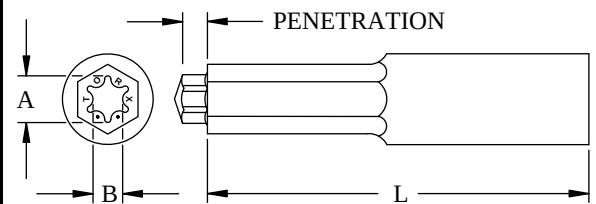
Tamper Resistant Punch Pins

Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm
8TXI-257-HX	8	.095/2.41	.069/1.75	.035/.89
10TXI-251-HX	10	.111/2.81	.081/2.05	.040/1.02
15TXI-251-HX	15	.132/3.35	.096/2.43	.045/1.14
20TXI-253-HX	20	.155/3.93	.112/2.85	.050/1.27
25TXI-253-HX	25	.178/4.53	.129/3.27	.055/1.40
27TXI-251-HX	27	.200/5.09	.144/3.67	.065/1.65
30TXI-253-HX	30	.221/5.62	.160/4.06	.070/1.78
40TXI-254-HX	40	.267/6.78	.192/4.89	.097/2.46
45TXI-253-HX	45	.313/7.95	.224/5.68	.110/2.79
50TXI-251-HX	50	.353/8.96	.256/6.50	.110/2.79
55TXI-253-HX	55	.447/11.35	.318/8.09	.145/3.68
60TXI-254-HX	60	.529/13.44	.381/9.68	.185/4.70



Hexagon Washer Pin (One-Piece)

Part Number	Drive Size	A inch/mm	B inch/mm	Length inch/mm	Penetration inch/mm
8TXI-200	8	.095/2.41	.069/1.75	1.277/32.44	.036/.091
10TXI-200	10	.111/2.81	.081/2.05	1.277/32.44	.045/1.14
15TXI-200	15	.132/3.35	.096/2.43	1.277/32.44	.050/1.27
20TXI-200	20	.155/3.93	.112/2.85	1.277/32.44	.065/1.65
25TXI-200	25	.178/4.53	.129/3.27	1.277/32.44	.070/1.78
27TXI-200	27	.200/5.09	.144/3.67	1.277/32.44	.080/2.03
30TXI-200	30	.221/5.62	.160/4.06	1.559/39.59	.095/2.41
40TXI-200	40	.267/6.78	.192/4.89	1.559/39.59	.115/2.92
45TXI-200	45	.313/7.95	.224/5.68	1.559/39.59	.140/3.56



1. Punch Pin materials:

- M2 at RC 61-64
- M42 at RC 63-65

2. Special penetrations available. Specify required penetration when ordering.

3. Oversize pins available for heavy or hot heading plating applications.

4. PVD Coatings available for cold & hot heading applications.

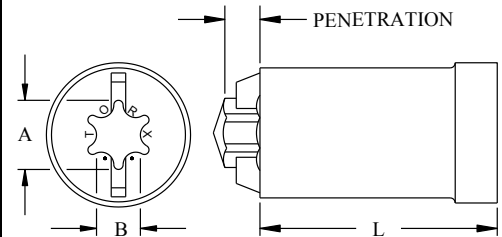
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Combination / Slotted Punch Pin

Part Number	Drive Size	A inch/mm	B inch/mm	Length inch/mm	Penetration inch/mm
7TXI-277	7	.082/2.08	.060/1.52	.629/15.98	.030/.76
8TXI-277	8	.095/2.41	.069/1.75	.629/15.98	.040/1.02
9TXI-277	9	.102/2.59	.074/1.88	.629/15.98	.040/1.02
10TXI-277	10	.111/2.81	.081/2.05	.629/15.98	.045/1.14
15TXI-277	15	.132/3.35	.096/2.43	.629/15.98	.050/1.27
20TXI-277	20	.155/3.93	.112/2.85	.629/15.98	.060/1.52
25TXI-277	25	.178/4.53	.129/3.27	.632/16.05	.075/1.91
27TXI-277	27	.200/5.09	.144/3.67	.632/16.05	.080/2.03
30TXI-277	30	.221/5.62	.160/4.06	.632/16.05	.095/2.41
40TXI-277	40	.267/6.78	.192/4.89	.760/19.30	.110/2.79
45TXI-277	45	.313/7.95	.224/5.68	1.010/25.65	.140/3.56
50TXI-277	50	.353/8.96	.256/6.50	1.010/25.65	.175/4.45



1. Punch Pin materials:

- M2 at RC 61-64
- M42 at RC 63-65

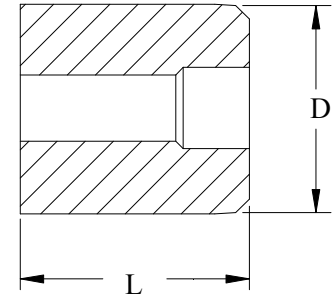
2. Special penetrations available. Specify required penetration when ordering.

3. Oversize pins available for heavy plating applications.

4. PVD Coatings available for cold & hot heading applications.

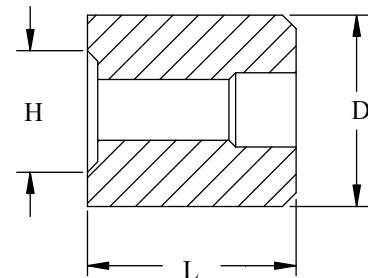
Flat Head

5TXI-201	T5	1	0.562/14.27	0.375/9.53
6TXI-201	T6	2	0.562/14.27	0.375/9.53
7TXI-201	T7	3	0.562/14.27	0.375/9.53
8TXI-201	T8	4	0.562/14.27	0.375/9.53
9TXI-201	T9		0.563/14.30	0.375/9.53
10TXI-201	T10	5 & 6	0.562/14.27	0.625/15.88
15TXI-201	T15	8	0.562/14.27	0.625/15.88
20TXI-201	T20	10	0.562/14.27	0.625/15.88
25TXI-201	T25	12	0.875/22.23	0.625/15.88
27TXI-201	T27	1/4	0.875/22.23	0.625/15.88
30TXI-201	T30	1/4	0.875/22.23	0.625/15.88
40TXI-201	T40	5/16 & 3/8	0.875/22.23	0.750/19.05
45TXI-201	T45	3/8	1.000/25.40	1.000/25.40
50TXI-201	T50	7/16 & 1/2	1.000/25.40	1.000/25.40
55TXI-201	T55	9/16	1.250/31.75	1.000/25.40
60TXI-201	T60	5/8	1.500/38.10	1.000/25.40



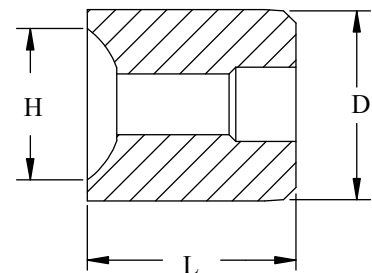
Socket Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
10TXI-300	T10	4 & 5	0.562/14.27	0.634/16.10	0.183/4.65
10TXI-300A	T10		0.562/14.27	0.634/16.10	0.208/5.28
15TXI-300	T15	6	0.562/14.27	0.635/16.13	0.228/5.79
25TXI-300	T25	8	0.562/14.27	0.635/16.13	0.273/6.93
27TXI-300	T27	10	0.562/14.27	0.638/16.21	0.316/8.03
30TXI-300	T30	1/4	0.875/22.23	0.643/16.33	0.379/9.63



Button Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
6TXI-301	T6	2	0.437/11.10	0.410/10.41	0.168/4.27
8TXI-301	T8	4	0.562/14.27	0.410/10.41	0.216/5.49
10TXI-301	T10	6	0.562/14.27	0.673/17.09	0.242/6.15
10TXI-301A	T10		0.562/14.27	0.671/17.04	0.266/6.76
15TXI-301	T15	8	0.562/14.27	0.688/17.48	0.324/8.23
25TXI-301	T25	10	0.562/14.27	0.705/17.91	0.370/9.40
27TXI-301	T27	1/4	0.875/22.23	0.733/18.62	0.449/11.40
40TXI-301	T40	5/16	0.875/22.23	0.872/22.15	0.560/14.22
45TXI-301	T45	3/8	1.000/25.40	1.141/28.99	0.666/16.92
55TXI-301	T55	1/2	1.250/31.75	1.207/30.66	0.892/22.66
60TXI-301	T60		1.500/38.10	1.276/32.41	1.012/25.70



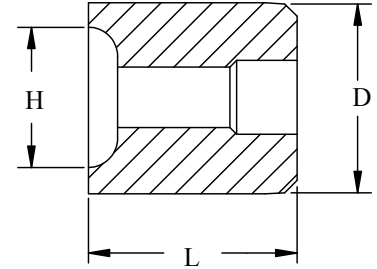
1. M2 material at RC 60-62

2. Special Head Styles, Head Markings, and Materials available upon request.

RTM PRODUCTS, INC.
13120 Arctic Circle, Santa Fe Springs, CA 90670 USA
Phone: 562-926-2400 Fax: 562-926-2441 www.rtmproducts.com

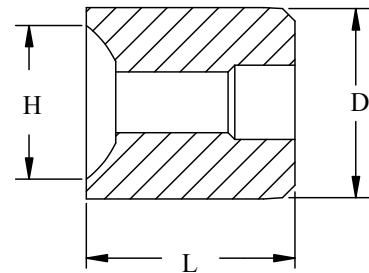
Pan Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
10TXI-303	T10	6	.562/14.27	.648/16.46	.231/5.87
15TXI-303	T15	8	.562/14.27	.652/16.56	.260/6.60
20TXI-303	T20	10	.562/14.27	.657/16.69	.306/7.77
25TXI-303	T25	12	.562/14.27	.663/16.84	.357/9.07
27TXI-303	T27	1/4	.875/22.23	.668/16.97	.407/10.34
30TXI-303	T30	1/4	1.000/25.40	.675/17.15	.473/12.01
40TXI-303	T40	5/16	1.000/25.40	.812/20.62	.594/15.09
45TXI-303	T45	3/8	1.250/31.75	1.074/27.28	.716/18.19
50TXI-303	T50		1.000/25.40	1.084/27.53	.836/21.23
55TXI-303	T55		1.250/31.75	1.099/27.91	.958/24.33



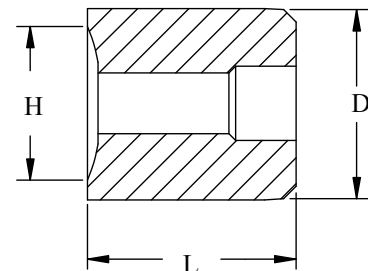
Truss Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
6TXI-360	T6	2	.562/14.27	.411/10.44	.196/4.98
7TXI-360A	T7	3	.562/14.27	.418/10.62	.228/5.79
8TXI-360	T8	4 & 5	.562/14.27	.426/10.82	.259/6.58
10TXI-360	T10	6	.562/14.27	.689/17.50	.321/8.15
15TXI-360	T15	8	.562/14.27	.701/17.81	.384/9.75
20TXI-360	T20	10	.562/14.27	.713/18.11	.448/11.38
25TXI-360	T25	12	.875/22.23	.726/18.44	.511/12.98
27TXI-360	T27	1/4	.875/22.23	.739/18.77	.573/14.55
40TXI-360	T40	5/16	1.000/25.40	.889/22.58	.698/17.73
45TXI-360	T45	3/8	1.250/31.75	1.164/1.198	.823/20.90
45TXI-360A	T45	7/16	1.250/31.75	1.201/30.51	.948/24.08
50TXI-360	T50	1/2	1.500/38.10	1.215/30.86	1.073/27.25
55TXI-360	T55	9/16	1.500/38.10	1.259/31.98	1.198/30.43
55TXI-360A	T55	5/8	1.500/38.10	1.289/32.74	1.269/32.23
60TXI-360	T60	3/4	1.750/44.45	1.348/34.24	1.511/38.38



Oval Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
6TXI-350	T6	2	.562/14.27	.395/10.03	.174/4.42
7TXI-350	T7	3	.562/14.27	.397/10.08	.201/5.11
8TXI-350	T8	4	.562/14.27	.401/10.19	.227/5.77
10TXI-350	T10	5	.562/14.27	.656/16.66	.252/6.40
15TXI-350	T15	6	.562/14.27	.659/16.74	.290/7.37
20TXI-350	T20	8	.562/14.27	.664/16.87	.345/8.76
25TXI-350	T25	10	.562/14.27	.671/17.04	.400/10.16
27TXI-350	T27	12	.875/22.23	.678/17.22	.456/11.58
30TXI-350	T30	1/4	.875/22.23	.687/17.45	.527/13.39
40TXI-350	T40	5/16	.875/22.23	.829/21.06	.660/16.76
45TXI-350	T45	3/8	1.000/1.25	1.094/27.79	.792/20.12
50TXI-350	T50	7/16	1.000/1.25	1.097/27.86	.812/20.62
50TXI-350A	T50	1/2	1.000/1.25	1.104/28.04	.875/22.23
55TXI-350	T55	9/16	1.250/31.75	1.120/1.135	1.000/25.40
55TXI-350A	T55	5/8	1.250/31.75	1.135/28.83	1.125/28.58
60TXI-350	T60	3/4	1.500/38.10	1.162/29.51	1.375/34.93

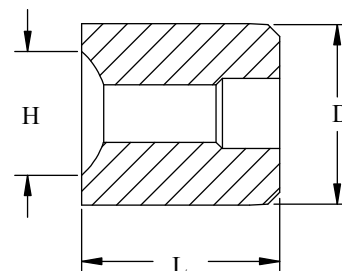


1. M2 material at RC 60-62

2. Special Head Styles, Head markings and Materials available upon request.

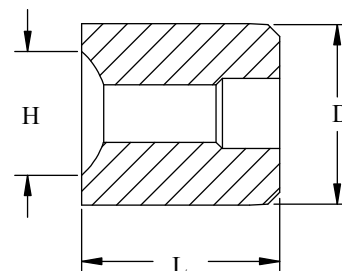
Pan Head - Full Crown (Forming on Top of Die)

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
6TXI-307	T6	1	.562/14.27	.373/9.47	.155/3.94
7TXI-307	T7	2	.562/14.27	.375/9.53	.162/4.11
8TXI-307	T8	3	.562/14.27	.375/9.53	.209/5.31
10TXI-307	T10	4	.563/14.30	.654/16.61	.264/6.71
10TXI-307A	T10	5	.563/14.30	.650/16.51	.241/6.12
15TXI-307	T15	6	.563/14.30	.657/16.69	.280/7.11
20TXI-307	T20	8	.563/14.30	.664/16.87	.346/8.79
25TXI-307	T25	10	.875/22.23	.670/17.02	.409/10.39
27TXI-307	T27	12	.875/22.23	.677/17.20	.459/11.66
30TXI-307	T30	14	.875/22.23	.686/17.42	.519/13.18
40TXI-307	T40	5/16	.875/22.23	.827/21.01	.665/16.90
45TXI-307	T45	3/8	1.000/25.40	1.092/27.74	.788/20.02
50TXI-307	T50	7/16	1.250/31.75	1.107/28.12	.913/23.19
55TXI-307	T55	1/2	1.500/38.10	1.123/28.52	1.038/26.37



Pan Head - Full Crown (Partially in the Die)

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
6TXI-308	T6	1	.562/14.27	.388/9.86	.137/3.48
7TXI-308	T7	2	.562/14.27	.392/9.96	.162/4.11
8TXI-308	T8	2 & 3	.562/14.27	.397/10.08	.189/.207
10TXI-308	T10	4 & 5	.562/14.27	.663/16.84	.236/5.99
10TXI-308A	T10	5	.562/14.27	.650/16.51	.212/5.38
15TXI-308	T15	6	.562/14.27	.668/16.97	.289/7.34
20TXI-308	T20	8	.562/14.27	.678/17.22	.345/8.76
25TXI-308	T25	10	.875/22.23	.686/17.42	.399/10.13
27TXI-308	T27	12	.875/22.23	.694/17.63	.455/11.56
30TXI-308	T30	1/4	1.000/25.40	.851/21.62	.526/13.36
40TXI-308	T40	5/16	1.000/25.40	.889/22.58	.658/16.71
45TXI-308	T45	3/8	1.000/25.40	1.122/28.50	.792/20.12

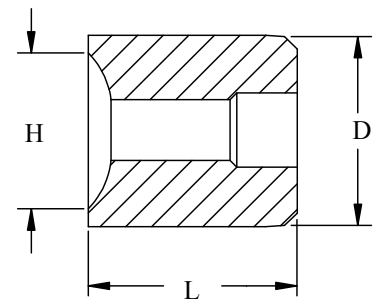


1. M2 material at RC 60-62

2. Special Head Styles, Head markings and Materials available upon request.

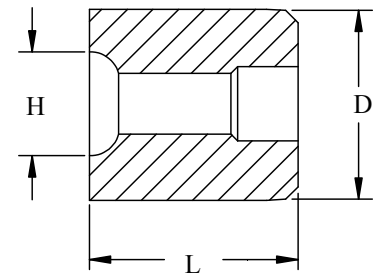
Fillister Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
10TXI-370	T10	4 & 5	.562/14.27	.656/16.66	.196/.219
15TXI-370	T15	6	.562/14.27	.659/16.74	.242/6.15
20TXI-370	T20	8	.562/14.27	.664/16.87	.289/7.34
25TXI-370	T25	10	.562/14.27	.671/17.04	.335/8.51
27TXI-370	T27	12	.875/22.23	.678/17.22	.382/9.70
30TXI-370	T30	1/4	.875/22.23	.687/17.45	.443/11.25
40TXI-370	T40	5/16	.875/22.23	.829/21.06	.554/14.07
45TXI-370	T45	3/8	1.000/25.4	1.094/27.79	.667/16.94
50TXI-370	T50	7/16	1.000/25.4	1.100/27.94	.669/16.99
55TXI-370	T55	1/2	1.250/31.75	1.110/1.130	.803/.872
55TXI-370A	T55	9/16	1.250/31.75	1.127/28.63	.815/20.70
60TXI-370	T60	5/8	1.500/38.10	1.143/29.03	.815/20.70
70TXI-370	T70	3/4	1.500/38.10	1.668/42.37	1.00/25.40



Round Washer Head

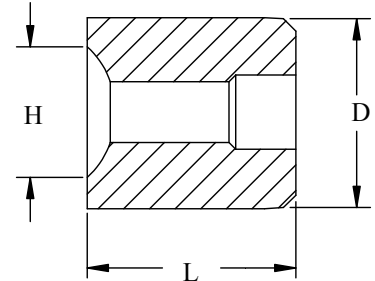
Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
8TXI-280	T8	2	.562/14.27	.375/9.53	.134/3.40
8TXI-281	T8	3	.562/14.27	.375/9.53	.154/3.91
10TXI-281	T10	4	.562/14.27	.685/17.40	.175/4.45
10TXI-280	T10	5	.562/14.27	.695/17.65	.196/4.98
15TXI-280	T15	6	.562/14.27	.716/18.19	.223/5.66
20TXI-280	T20	8	.562/14.27	.718/18.24	.265/6.73
25TXI-280	T25	10	.875/22.23	.732/18.59	.295/7.49
27TXI-280	T27	12	.875/22.23	.781/19.84	.340/8.64
30TXI-280	T30	1/4	1.000/25.40	.774/19.66	.396/10.06



1. M2 material at RC 60-62.
2. Special Head Styles, Head markings and Materials available upon request.

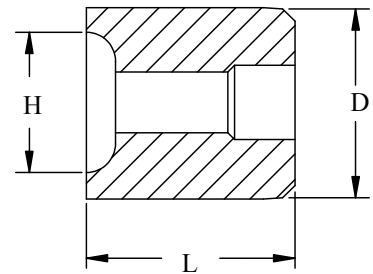
Metric Pan Head - Full Crown

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
6TMI-308	T6	M2	.582/14.78	.394/10.01	.171/4.34
8TMI-308	T8	M2.5	.582/14.78	.649/16.48	.214/5.44
10TMI-308	T10	M3	.562/14.27	.656/16.66	.262/6.65
15TMI-308	T15	M3.5	.562/14.27	.659/16.74	.290/7.37
20TMI-308	T20	M4	.562/14.27	.664/16.87	.345/8.76
25TMI-308	T25	M5	.875/22.23	.671/17.04	.426/10.82
30TMI-308	T30	M6	1.000/25.40	.687/17.45	.517/13.13
45TMI-308	T45	M8	1.000/25.40	1.074/27.28	.680/17.27
50TMI-308	T50	M10	1.000/25.40	1.097/27.86	.850/21.59



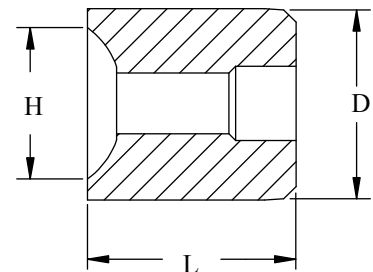
Metric Pan Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
6TMI-307	T6	M2.2	.562/14.27	.408/10.36	.167/4.24
8TMI-307	T8	M2.9	.420/10.67	.420/10.67	.240/6.10
10TMI-307	T10	M3.5	.562/14.27	.675/17.15	.297/7.54
15TMI-307	T15	M3.9	.562/14.27	.675/17.15	.325/8.26
20TMI-307	T20	M4.2	.562/14.27	.680/17.27	.352/8.94
25TMI-307	T25	M4.8	.875/22.23	.690/17.53	.410/10.41
25TMI-307A	T25	M5.5	.875/22.23	.700/17.78	.460/11.68
30TMI-307	T30	M6.3	.875/22.23	.710/18.03	.536/13.61
40TMI-307	T40	M8	.875/22.23	.856/21.74	.663/16.84
50TMI-307	T50	M10	1.000/25.40	1.187/30.15	.829/21.056



Metric Button Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
8TMI-302	T8		.562/14.27	.431/10.95	.226/5.74
10TMI-302A	T10	M3/3.5	.562/14.27	.675/.687	.235/.275
15TMI-302	T15	M4	.562/14.27	.692/17.58	.315/8.00
25TMI-302	T25	M5	.875/22.23	.715/18.16	.390/9.91
27TMI-302	T27	M6	.875/22.23	.735/18.67	.432/10.97
40TMI-320	T40	M8	1.000/25.4	.895/22.73	.575/14.61
45TMI-302	T45	M10	1.250/31.75	1.185/30.10	.720/18.29
50TMI-302	T50	M12	1.500/38.10	1.220/30.99	.862/21.89
55TMI-302	T55	M14	1.500/38.10	1.260/32.00	1.005/25.53
60TMI-302	T60		1.500/38.10	1.319/33.50	1.105/28.07

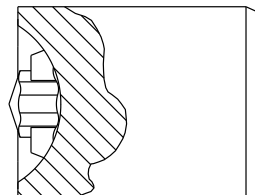
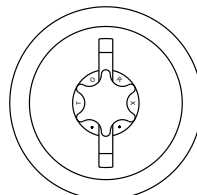


1. M2 material at RC 60-62.

2. Special Head Styles, Head markings and Materials available upon request.

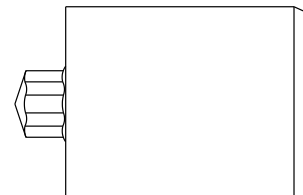
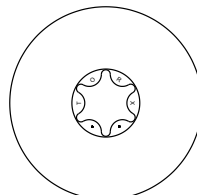
Combination / Slotted

Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm	OD inch/mm	Length inch/mm
7TXI-175	T7	.082/2.08	.060/1.52	.031/.079	0.438/11.13	1.00/25.40
8TXI-175	T8	.095/2.41	.069/1.75	.041/1.04	0.438/11.13	1.00/25.40
8TXI-176	T8	.095/2.41	.069/1.75	.041/1.04	0.438/11.13	1.00/25.40
9TXI-175	T9	.102/2.59	.074/1.88	.040/1.02	0.438/11.13	1.00/25.40
10TXI-175	T10	.111/2.81	.081/2.05	.051/1.30	0.563/14.30	1.00/25.40
10TXI-176	T10	.111/2.81	.081/2.05	.051/1.30	0.563/14.30	1.00/25.40
15TXI-175	T15	.132/3.35	.096/2.43	.045/1.14	0.563/14.30	1.00/25.40
20TXI-175	T20	.155/3.93	.112/2.85	.060/1.52	0.563/14.30	1.00/25.40
25TXI-175	T25	.178/4.53	.129/3.27	.075/1.91	0.875/22.23	1.00/25.40
27TXI-175	T27	.200/5.09	.144/3.67	.075/1.91	0.875/22.23	1.00/25.40
30TXI-175	T30	.221/5.62	.160/4.06	.090/2.29	0.875/22.23	1.00/25.40
40TXI-175	T40	.267/6.78	.192/4.89	.110/2.29	0.875/22.23	1.00/25.40
45TXI-175	T45	.313/7.95	.224/5.68	.140/3.56	1.00/25.4	1.00/25.40
50TXI-175	T50	.353/8.96	.256/6.50	.154/3.91	1.25/31.75	1.00/25.40
55TXI-175	T55	.447/11.35	.318/8.09	.175/4.45	1.25/31.75	1.00/25.40



Flat Head

Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/metric	OD inch/mm	Length inch/mm
1TXI-275	T1	.035/.089	.025/.64	.014/.36	0.438/11.13	1.00/25.40
2TXI-275	T2	.039/.99	.028/.71	.016/.41	0.438/11.13	1.00/25.40
3TXI-275	T3	.047/1.24	.034/.86	.018/.46	0.438/11.13	1.00/25.40
4TXI-275	T4	.054/1.37	.039/.99	.022/.56	0.438/11.13	1.00/25.40
5TXI-009	T5	.059/1.49	.043/1.09	.014/.36	0.438/11.13	1.00/25.40
5TXI-017	T5	.059/1.49	.043/1.09	.022/.56	0.438/11.13	1.00/25.40
5TXI-025	T5	.059/1.49	.043/1.09	.28/.71	0.438/11.13	1.00/25.40
6TXI-015	T6	.070/1.77	.050/1.29	.019/.48	0.438/11.13	1.00/25.40
6TXI-022	T6	.070/1.77	.050/1.29	.027/.69	0.438/11.13	1.00/25.40
6TXI-030	T6	.070/1.77	.050/1.29	.030/.76	0.438/11.13	1.00/25.40
6TXI-035	T6	.070/1.77	.050/1.29	.038/.97	0.438/11.13	1.00/25.40
7TXI-015	T7	.082/2.08	.060/1.52	.022/.56	0.438/11.13	1.00/25.40
7TXI-020	T7	.082/2.08	.060/1.52	.027/.69	0.438/11.13	1.00/25.40
7TXI-025	T7	.082/2.08	.060/1.52	.030/.76	0.438/11.13	1.00/25.40
7TXI-027	T7	.082/2.08	.060/1.52	.037/.94	0.438/11.13	1.00/25.40
7TXI-030	T7	.082/2.08	.060/1.52	.035/.89	0.438/11.13	1.00/25.40
7TXI-035	T7	.082/2.08	.060/1.52	.040/1.02	0.438/11.13	1.00/25.40
8TXI-018	T8	.095/2.41	.069/1.75	.025/.64	0.563/14.30	1.00/25.40
8TXI-020	T8	.095/2.41	.069/1.75	.027/.69	0.563/14.30	1.00/25.40
8TXI-025	T8	.095/2.41	.069/1.75	.030/.76	0.563/14.30	1.00/25.40
8TXI-028	T8	.095/2.41	.069/1.75	.035/.89	0.563/14.30	1.00/25.40
8TXI-030	T8	.095/2.41	.069/1.75	.037/.81	0.563/14.30	1.00/25.40
8TXI-033	T8	.095/2.41	.069/1.75	.038/.97	0.563/14.30	1.00/25.40
8TXI-040	T8	.095/2.41	.069/1.75	.40/1.02	0.563/14.30	1.00/25.40
8TXI-043	T8	.095/2.41	.069/1.75	.481/1.22	0.563/14.30	1.00/25.40
9TXI-029	T9	.102/2.59	.074/1.88	.034/.86	0.563/14.30	1.00/25.40
9TXI-032	T9	.102/2.59	.074/1.88	.037/.94	0.563/14.30	1.00/25.40
9TXI-035	T9	.102/2.59	.074/1.88	.043/1.09	0.563/14.30	1.00/25.40



1. Punch materials:

- M2 at RC 61-64
- M42 at RC 63-65

2. Special penetrations available. Specify required penetration when ordering.

3. Oversize available for heavy plating or hot heading applications.

4. PVD Coatings available for cold & hot heading applications.

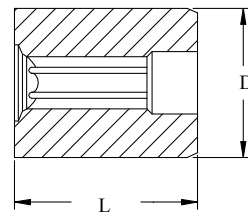
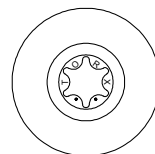
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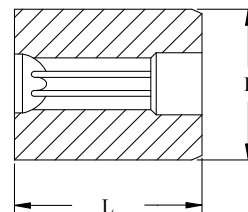
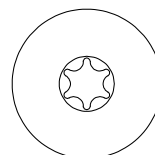
Flange Style

Part Number	Drive Size	A inch/mm	B inch/mm	D inch/mm	L inch/mm
4TXE-200	E4	.146/3.71	.103/2.62	0.500/12.70	0.500/12.70
5TXE-200	E5	.181/4.60	.127/3.23	0.625/15.88	0.500/12.70
6TXE-200	E6	.219/5.56	.151/3.84	0.625/15.88	0.500/12.70
7TXE-200	E7	.237/6.02	.166/4.22	0.750/19.05	0.750/19.05
8TXE-200	E8	.288/7.32	.201/5.11	0.750/19.05	0.750/19.05
10TXE-200	E10	.363/9.22	.260/6.60	1.000/25.40	1.000/25.40
12TXE-200	E12	.432/10.97	.304/7.72	1.000/25.40	1.000/25.40
14TXE-200	E14	.500/12.70	.355/9.02	1.250/31.75	1.000/25.40
16TXE-200	E16	.572/14.53	.405/10.29	1.250/31.75	1.000/25.40
18TXE-200	E18	.645/16.38	.460/11.68	1.250/31.75	1.000/25.40
20TXE-200	E20	.715/18.16	.512/13.00	1.500/38.10	1.500/38.10
24TXE-200	E24	.860/21.84	.612/15.54	1.500/38.10	1.500/38.10

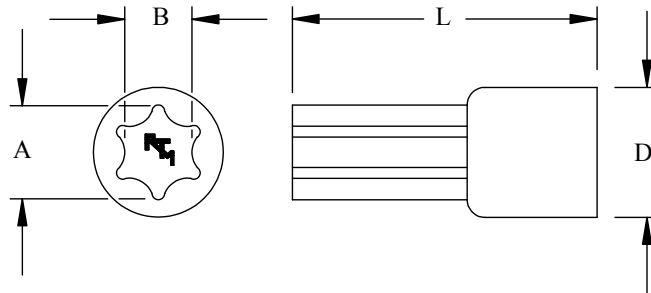


Torxstem

Part Number	Drive Size	A inch/mm	B inch/mm	D inch/mm	L inch/mm
4TXE-230	E4	.146/3.71	.103/2.62	Specify	Specify
4TXE-231	E4	.146/3.71	.103/2.62	Specify	Specify
4TXE-232	E4	.146/3.71	.103/2.62	Specify	Specify
5TXE-230	E5	.181/4.60	.127/3.23	Specify	Specify
5TXE-231	E5	.181/4.60	.127/3.23	Specify	Specify
7TXE-230	E7	.237/6.02	.166/4.22	Specify	Specify
7TXE-231	E7	.237/6.02	.166/4.22	Specify	Specify
8TXE-230	E8	.288/7.32	.201/5.11	Specify	Specify
8TXE-231	E8	.288/7.32	.201/5.11	Specify	Specify
8TXE-232	E8	.288/7.32	.201/5.11	Specify	Specify
10TXE-230	E10	.363/9.22	.260/6.60	Specify	Specify
12TXE-230	E12	.432/10.97	.304/7.72	Specify	Specify
12TXE-231	E12	.432/10.97	.304/7.72	Specify	Specify
12TXE-232	E12	.432/10.97	.304/7.72	Specify	Specify
14TXE-230	E14	.500/12.70	.355/9.02	Specify	Specify
14TXE-231	E14	.500/12.70	.355/9.02	Specify	Specify
16TXE-230	E16	.572/14.53	.405/10.29	Specify	Specify
18TXE-230	E18	.645/16.38	.460/11.68	Specify	Specify
20TXE-230	E20	.715/18.16	.512/13.00	Specify	Specify
20TXE-231	E20	.715/18.16	.512/13.00	Specify	Specify



1. Material: Carbide 25%
2. Special carbide grades available upon request.

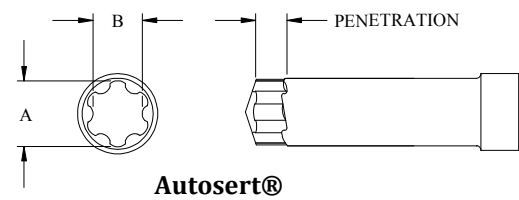
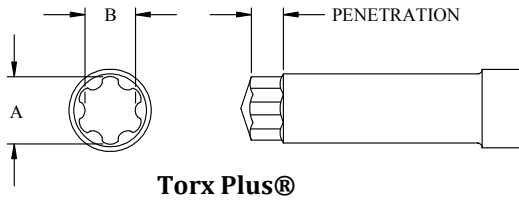


Part Number	Drive Size	A inch/mm	B inch/mm	D inch/mm	L inch/mm
1TXE-100	E1	.087/2.21	.062/1.57	.100/2.54	1.625/41.28
2TXE-100	E2	.115/2.92	.082/2.08	.119/3.02	1.625/41.28
4TXE-100	E4	.142/3.60	.099/2.51	.159/4.04	1.625/41.28
5TXE-100	E5	.177/4.50	.122/3.10	.191/4.85	1.625/41.28
6TXE-100	E6	.215/5.46	.147/3.73	.253/6.43	1.625/41.28
7TXE-100	E7	.233/5.92	.162/4.11	.293/7.44	1.875/47.63
8TXE-100	E8	.284/7.21	.197/5.00	.325/8.26	1.875/47.63
10TXE-100	E10	.359/9.11	.256/6.50	.400/10.16	2.125/53.98
11TXE-100	E11	.385/9.78	.269/6.83	.429/10.90	2.125/53.98
12TXE-100	E12	.427/10.85	.299/7.59	.478/12.14	2.125/53.98
14TXE-100	E14	.496/12.60	.350/8.89	.564/14.33	2.125/53.98
16TXE-100	E16	.566/14.37	.399/10.13	.625/15.88	2.125/53.98
18TXE-100	E18	.639/16.23	.454/11.53	.690/17.53	2.125/53.98
20TXE-100	E20	.709/18.00	.505/12.83	.753/19.13	2.875/73.03
24TXE-100	E24	.851/21.65	.604/15.34	.894/22.71	2.875/73.03
28TXE-100	E28	.991/25.17	.704/17.88	1.063/27.00	2.875/73.03

1. Punch Pin materials:

- S7 at 56 - 58 RC

2. Special raised or indented available markings.



Torx Plus® Part Number	Autosert® Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm
5PLI-534	5PLI-534R	5IP	.058/.147	.043/1.09	.019/.48
5PLI-533	5PLI-533R	5IP	.058/.147	.043/1.09	.022/.56
5PLI-532	5PLI-532R	5IP	.058/.147	.043/1.09	.025/.64
5PLI-531	5PLI-531R	5IP	.058/.147	.043/1.09	.028/.71
6PLI-534	6PLI-534R	6IP	.069/1.75	.053/1.35	.022/.56
6PLI-533	6PLI-533R	6IP	.069/1.75	.053/1.35	.026/.66
6PLI-532	6PLI-532R	6IP	.069/1.75	.053/1.35	.029/.74
6PLI-531	6PLI-531R	6IP	.069/1.75	.053/1.35	.033/.84
7PLI-534	7PLI-534R	7IP	.082/2.08	.063/1.60	.026/.66
7PLI-533	7PLI-533R	7IP	.082/2.08	.063/1.60	.030/.76
7PLI-531	7PLI-531R	7IP	.082/2.08	.063/1.60	.038/.97
7PLI-532	7PLI-532R	7IP	.082/2.08	.063/1.60	.034/.86
8PLI-534	8PLI-534R	8IP	.095/2.41	.073/1.85	.030/.76
8PLI-533	8PLI-533R	8IP	.095/2.41	.073/1.85	.035/.89
8PLI-531	8PLI-531R	8IP	.095/2.41	.073/1.85	.045/1.14
8PLI-532	8PLI-532R	8IP	.095/2.41	.073/1.85	.040/1.02
9PLI-534	9PLI-534R	9IP	.102/2.59	.079/2.00	.033/.84
9PLI-533	9PLI-533R	9IP	.102/2.59	.079/2.00	.038/.97
9PLI-532	9PLI-532R	9IP	.102/2.59	.079/2.00	.043/1.09
9PLI-531	9PLI-531R	9IP	.102/2.59	.079/2.00	.048/1.22
10PLI-534	10PLI-534R	10IP	.111/2.82	.085/2.16	.035/.89
10PLI-533	10PLI-533R	10IP	.111/2.82	.085/2.16	.041/1.04
10PLI-532	10PLI-532R	10IP	.111/2.82	.085/2.16	.046/1.17
10PLI-531	10PLI-531R	10IP	.111/2.82	.085/2.16	.052/1.32
15PLI-534	15PLI-534R	15IP	.132/3.35	.102/2.59	.042/1.07
15PLI-533	15PLI-533R	15IP	.132/3.35	.102/2.59	.049/1.24
15PLI-532	15PLI-532R	15IP	.132/3.35	.102/2.59	.055/1.40
15PLI-531	15PLI-531R	15IP	.132/3.35	.102/2.59	.062/1.57
20PLI-534	20PLI-534R	20IP	.155/3.94	.155/3.94	.049/1.25
20PLI-533	20PLI-533R	20IP	.155/3.94	.155/3.94	.057/1.45
20PLI-532	20PLI-532R	20IP	.155/3.94	.155/3.94	.065/1.65
20PLI-531	20PLI-531R	20IP	.155/3.94	.155/3.94	.073/1.85

1. Punch Pin materials:

- M2 at RC 61-64
- M42 at RC 63-65
- Carbide: D60 and D70 available. Specify when ordering

2. Special penetrations available. Specify required penetration when ordering

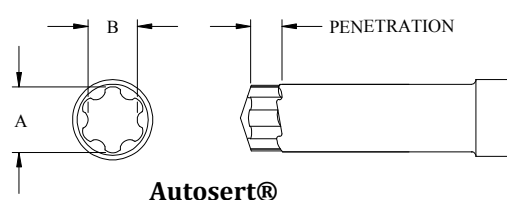
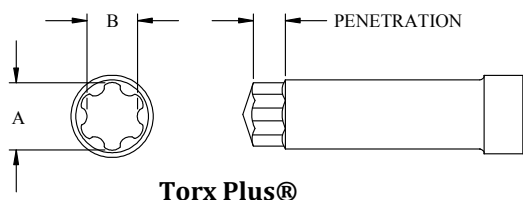
3. Oversize pins available for heavy plating or hot heading applications.

4. PVD Coatings available for cold & hot heading applications.

RTM PRODUCTS, INC.

13120 Arctic Circle, Santa Fe Springs, CA 90670 USA

Phone: 562-926-2400 Fax: 562-926-2441 www.rtmproducts.com



Torx Plus® Part Number	Autosert® Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm
25PLI-534	25PLI-534R	25IP	.179/4.55	.137/3.48	.057/1.45
25PLI-533	25PLI-533R	25IP	.179/4.55	.137/3.48	.067/1.70
25PLI-532	25PLI-532R	25IP	.179/4.55	.137/3.48	.075/1.91
25PLI-531	25PLI-531R	25IP	.179/4.55	.137/3.48	.084/2.13
27PLI-534	27PLI-534R	27IP	.201/5.11	.157/3.99	.064/1.63
27PLI-533	27PLI-533R	27IP	.201/5.11	.157/3.99	.074/1.88
27PLI-532	27PLI-532R	27IP	.201/5.11	.157/3.99	.084/2.13
27PLI-531	27PLI-531R	27IP	.201/5.11	.157/3.99	.094/2.39
30PLI-534	30PLI-534R	30IP	.221/5.61	.172/4.37	.070/1.78
30PLI-533	30PLI-533R	30IP	.221/5.61	.172/4.37	.082/2.08
30PLI-532	30PLI-532R	30IP	.221/5.61	.172/4.37	.093/2.36
30PLI-532	30PLI-532R	30IP	.221/5.61	.172/4.37	.104/2.64
40PLI-534	40PLI-534R	40IP	.267/6.79	.207/5.26	.085/2.16
40PLI-533	40PLI-533R	40IP	.267/6.79	.207/5.26	.098/2.49
40PLI-532	40PLI-532R	40IP	.267/6.79	.207/5.26	.112/2.84
40PLI-531	40PLI-532R	40IP	.267/6.79	.207/5.26	.125/3.18
45PLI-534	45PLI-534R	45IP	.313/7.95	.246/6.25	.100/2.54
45PLI-533	45PLI-533R	45IP	.313/7.95	.246/6.25	.115/2.92
45PLI-533	45PLI-533R	45IP	.313/7.95	.246/6.25	.131/3.33
45PLI-531	45PLI-531R	45IP	.313/7.95	.246/6.25	.146/3.71
50PLI-534	50PLI-534R	50IP	.353/8.97	.274/6.96	.112/2.84
50PLI-533	50PLI-533R	50IP	.353/8.97	.274/6.96	.130/3.30
50PLI-532	50PLI-532R	50IP	.353/8.97	.274/6.96	.148/3.76
50PLI-531	50PLI-531R	50IP	.353/8.97	.274/6.96	.165/4.19
55PLI-534	55PLI-534R	55IP	.448/11.38	.358/9.09	.142/3.61
55PLI-533	55PLI-533R	55IP	.448/11.38	.358/9.09	.164/4.17
55PLI-532	55PLI-532R	55IP	.448/11.38	.358/9.09	.187/4.75
55PLI-531	55PLI-531R	55IP	.448/11.38	.358/9.09	.209/5.31
60PLI-534	60PLI-534R	60IP	.530/13.47	.415/10.54	.175/4.45
60PLI-533	60PLI-533R	60IP	.530/13.47	.415/10.54	.202/5.13
60PLI-532	60PLI-532R	60IP	.530/13.47	.415/10.54	.228/5.79
60PLI-531	60PLI-531R	60IP	.530/13.47	.415/10.54	.255/6.48

1. Punch Pin materials:

- M2 at RC 61-64
- M42 at RC 63-65
- Carbide: D60 and D70 available. Specify when ordering

2. Special penetrations available. Specify required penetration when ordering.

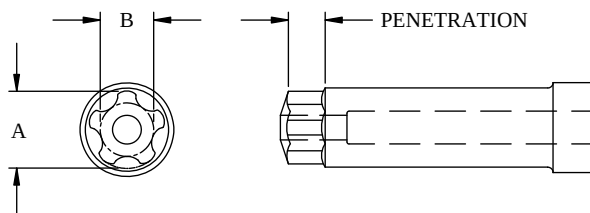
3. Oversize pins available for heavy plating or hot heading applications.

4. PVD Coatings available for cold & hot heading applications.

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Tamper Resistant

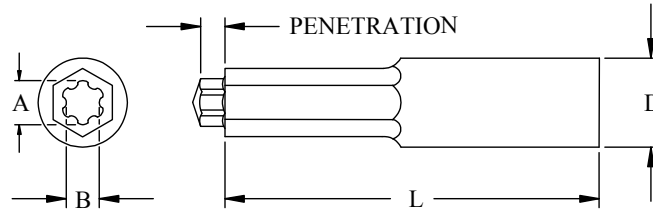
Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm	Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm
8PLI-634	8IP	.094/2.39	.068/1.73	.030/.76	27PLI-634	27IP	.201/5.11	.146/3.71	.064/1.13
8PLI-633	8IP	.094/2.39	.068/1.73	.035/.89	27PLI-633	27IP	.201/5.11	.146/3.71	.074/1.88
8PLI-632	8IP	.094/2.39	.068/1.73	.040/1.02	27PLI-632	27IP	.201/5.11	.146/3.71	.084/2.13
9PLI-634	9IP	.102/2.59	.074/1.88	.033/.84	30PLI-634	30IP	.220/5.59	.161/4.09	.070/1.78
9PLI-633	9IP	.102/2.59	.074/1.88	.038/.97	30PLI-633	30IP	.220/5.59	.161/4.09	.082/2.08
9PLI-632	9IP	.102/2.59	.074/1.88	.043/1.09	30PLI-632	30IP	.220/5.59	.161/4.09	.093/2.36
10PLI-634	10IP	.111/2.82	.081/2.06	.035/.89	40PLI-634	40IP	.267/6.78	.194/4.93	.085/2.16
10PLI-633	10IP	.111/2.82	.081/2.06	.041/1.04	40PLI-633	40IP	.267/6.78	.194/4.93	.098/2.49
10PLI-632	10IP	.111/2.82	.081/2.06	.046/1.17	40PLI-632	40IP	.267/6.78	.194/4.93	.112/2.84
15PLI-634	15IP	.132/3.35	.096/2.44	.042/1.07	45PLI-634	45IP	.313/7.95	.227/5.77	.100/2.54
15PLI-633	15IP	.132/3.35	.096/2.44	.049/1.24	45PLI-633	45IP	.313/7.95	.227/5.77	.115/2.92
15PLI-632	15IP	.132/3.35	.096/2.44	.055/1.40	45PLI-632	45IP	.313/7.95	.227/5.77	.131/3.33
20PLI-634	20IP	.155/3.94	.113/2.87	.049/1.24	50PLI-634	50IP	.353/8.97	.256/6.50	.112/2.85
20PLI-633	20IP	.155/3.94	.113/2.87	.057/1.45	50PLI-633	50IP	.353/8.97	.256/6.50	.130/3.81
20PLI-632	20IP	.155/3.94	.113/2.87	.065/1.65	50PLI-632	50IP	.353/8.97	.256/6.50	.148/3.76
25PLI-634	25IP	.179/4.55	.130/3.30	.057/1.45	55PLI-634	55IP	.448/11.38	.325/8.26	.142/3.61
25PLI-633	25IP	.179/4.55	.130/3.30	.066/1.68	55PLI-633	55IP	.448/11.38	.325/8.26	.164/4.17
25PLI-632	25IP	.179/4.55	.130/3.30	.057/1.45	55PLI-632	55IP	.448/11.38	.325/8.26	.187/4.75

1. Punch Pin materials:

- M2 at 61-64 RC.
- M42 at RC 63-65

2. Special penetrations available. Specify required penetration when ordering.

3. PVD Coatings available for cold & hot heading applications.



Hexagon Washer Pin (One-Piece)

Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm	D inch/mm	L inch/mm
8PLI-200	8IP	.095/2.41	.069/1.75	.036/.914	.307/7.80	1.227/31.17
10PLI-200	10IP	.111/2.81	.081/2.05	.045/1.14	.307/7.80	1.227/31.17
15PLI-200	15IP	.132/3.35	.096/2.43	.050/1.27	.307/7.80	1.227/31.17
20PLI-200	20IP	.155/3.93	.112/2.85	.065/1.65	.307/7.80	1.227/31.17
25PLI-200	25IP	.178/4.53	.129/3.27	.070/1.78	.371/9.42	1.227/31.17
27PLI-200	27IP	.200/5.09	.144/3.67	.080/2.03	.371/9.42	1.227/31.17
30PLI-200	30IP	.221/5.62	.160/4.06	.095/2.41	.494/12.55	1.559/39.60
40PLI-200	40IP	.267/6.78	.192/4.89	.115/2.92	.619/15.72	1.559/39.60
45PLI-200	45IP	.313/7.95	.224/5.68	.140/3.56	.619/15.72	1.559/39.60

1. Punch Pin materials:

- M2 at RC 61-64
- M42 at RC 63-65

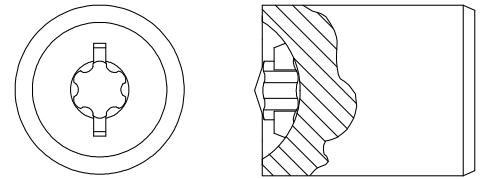
2. Special penetrations available. Specify required penetration when ordering.

3. Oversize pins available for heavy or hot heading plating applications.

4. PVD Coatings available for cold & hot heading applications.

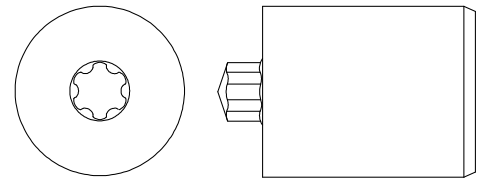
Combination / Slotted Punch

Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm	OD inch/mm	Length inch/mm
6PLI-575	6IP	0.069/1.75	.053/1.35	.030/.76	.437/11.10	1.000/25.40
7PLI-575	7IP	0.820/2.08	.063/1.60	.035/.89	.437/11.10	1.000/25.40
8PLI-575	8IP	0.095/2.41	.073/1.85	.041/1.04	.437/11.10	1.000/25.40
10PLI-575	10IP	0.111/2.82	.085/2.16	.049/1.24	.562/14.27	1.000/25.40
10PLI-576	10IP	0.111/2.82	.085/2.16	.049/1.24	.562/14.27	1.000/25.40
15PLI-575	15IP	0.132/3.35	.102/2.59	.059/1.50	.562/14.27	1.000/25.40
20PLI-575	20IP	0.155/3.94	.155/3.94	.068/1.73	.562/14.27	1.000/25.40
25PLI-575	25IP	0.179/4.55	.137/3.48	.078/1.98	.875/22.23	1.000/25.40
27PLI-575	27IP	0.201/5.11	.157/3.99	.088/2.24	.875/22.23	1.000/25.40
30PLI-575	30IP	0.222/5.64	.172/4.37	.097/2.46	.875/22.23	1.000/25.40
40PLI-575	40IP	0.267/6.79	.207/5.26	.116/2.95	.875/22.23	1.000/25.40
45PLI-575	45IP	0.313/7.95	.246/6.25	.137/3.48	1.000/25.40	1.000/25.40
50PLI-575	50IP	0.353/8.97	.274/6.96	.155/3.94	1.250/31.75	1.000/25.40
55PLI-575	55IP	0.448/11.38	.358/9.09	.198/5.03	1.250/31.75	1.000/25.40



Flat Head Punch

Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm	OD inch/mm	Length inch/mm
1PLI-131	1IP	.035/.889	.025/.635	.017/.432	.437/11.10	1.000/25.40
1PLI-132	1IP	.035/.889	.025/.635	.015/.381	.437/11.10	1.000/25.40
1PLI-133	1IP	.035/.889	.025/.635	.013/.330	.437/11.10	1.000/25.40
1PLI-134	1IP	.035/.889	.025/.635	.012/.305	.437/11.10	1.000/25.40
2PLI-131	2IP	.040/1.02	.028/.711	.019/.483	.437/11.10	1.000/25.40
2PLI-132	2IP	.040/1.02	.028/.711	.017/.432	.437/11.10	1.000/25.40
2PLI-133	2IP	.040/1.02	.028/.711	.015/.381	.437/11.10	1.000/25.40
2PLI-134	2IP	.040/1.02	.028/.711	.013/.330	.437/11.10	1.000/25.40
3PLI-131	3IP	.047/1.19	.033/.838	.023/.584	.437/11.10	1.000/25.40
3PLI-132	3IP	.047/1.19	.033/.838	.021/.533	.437/11.10	1.000/25.40
3PLI-133	3IP	.047/1.19	.033/.838	.018/.457	.437/11.10	1.000/25.40
3PLI-134	3IP	.047/1.19	.033/.838	.016/.406	.437/11.10	1.000/25.40
4PLI-131	4IP	.054/1.37	.039/.991	.026/.660	.437/11.10	1.000/25.40
4PLI-132	4IP	.054/1.37	.039/.991	.024/.610	.437/11.10	1.000/25.40
4PLI-133	4IP	.054/1.37	.039/.991	.021/.533	.437/11.10	1.000/25.40
4PLI-134	4IP	.054/1.37	.039/.991	.018/.457	.437/11.10	1.000/25.40



1. Punch materials:

- M2 at RC 61-64
- M42 at RC 63-65

2. Special penetrations available. Specify required penetration when ordering.

3. Oversize available for heavy plating and hot heading applications.

4. PVD Coatings available for cold & hot heading applications.

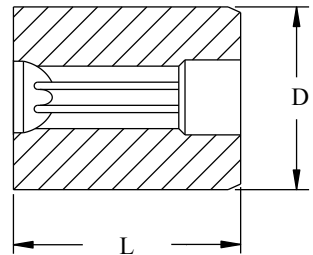
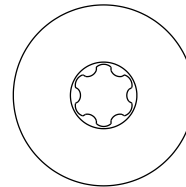
RTM PRODUCTS, INC.

13120 Arctic Circle, Santa Fe Springs, CA 90670 USA

Phone: 562-926-2400 Fax: 562-926-2441 www.rtmproducts.com

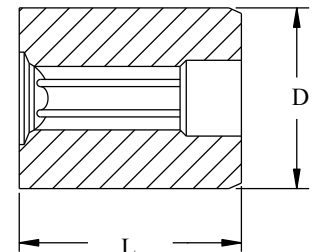
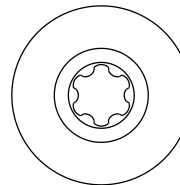
Stem Die Insert

Part Number	Drive Size	A inch/mm	B inch/mm	Diameter	Length
1PLE-530	1EP	.090/2.29	.069/1.75	Specify	Specify
1PLE-531	1EP	.090/2.29	.069/1.75	Specify	Specify
1PLE-532	1EP	.090/2.29	.069/1.75	Specify	Specify
1PLE-533	1EP	.090/2.29	.069/1.75	Specify	Specify
2PLE-530	2EP	.118/3.00	.091/2.31	Specify	Specify
2PLE-531	2EP	.118/3.00	.091/2.31	Specify	Specify
2PLE-532	2EP	.118/3.00	.091/2.31	Specify	Specify
4PLE-530	4EP	.146/3.71	.112/2.84	Specify	Specify
4PLE-530	4EP	.146/3.71	.112/2.84	Specify	Specify
5PLE-530	5EP	.181/4.60	.139/3.53	Specify	Specify
5PLE-531	5EP	.181/4.60	.139/3.53	Specify	Specify
7PLE-530	7EP	.237/6.02	.182/4.62	Specify	Specify
7PLE-531	7EP	.237/6.02	.182/4.62	Specify	Specify
8PLE-530	8EP	.288/7.32	.221/5.61	Specify	Specify
8PLE-531	8EP	.288/7.32	.221/5.61	Specify	Specify
8PLE-532	8EP	.288/7.32	.221/5.61	Specify	Specify
10PLE-530	10EP	.363/9.22	.279/7.09	Specify	Specify
11PLE-530	11EP	.388/9.86	.297/7.54	Specify	Specify
12PLE-530	12EP	.431/10.95	.330/8.38	Specify	Specify
12PLE-530	12EP	.431/10.95	.330/8.38	Specify	Specify
12PLE-531	12EP	.431/10.95	.330/8.38	Specify	Specify
14PLE-530	14EP	.499/12.67	.382/9.70	Specify	Specify
14PLE-531	14EP	.499/12.67	.382/9.70	Specify	Specify
16PLE-530	16EP	.571/14.50	.437/11.10	Specify	Specify
18PLE-530	18EP	.645/16.38	.494/12.55	Specify	Specify
20PLE-530	20EP	.715/18.16	.547/13.89	Specify	Specify
20PLE-531	20EP	.715/18.16	.547/13.89	Specify	Specify
22PLE-530	22EP	.787/19.99	.602/15.29	Specify	Specify
24PLE-530	24EP	.860/21.84	.658/16.71	Specify	Specify

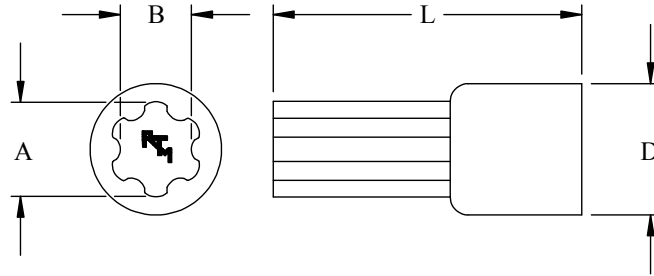


Flange Die Insert

Part Number	Drive Size	A inch/mm	B inch/mm	Diameter inch/mm	Length inch/mm
4PLE-400	4EP	.146/3.71	.112/2.84	.500/12.70	.500/12.70
5PLE-400	5EP	.181/4.60	.139/3.53	.625/15.88	.500/12.70
6PLE-400	6EP	.218/5.54	.166/4.22	.625/15.88	.500/12.70
7PLE-400	7EP	.237/6.02	.182/4.62	.750/19.05	.750/19.05
8PLE-400	8EP	.288/7.32	.221/5.61	.750/19.05	.750/19.05
10PLE-400	10EP	.363/9.22	.279/7.09	1.000/25.40	1.00/25.40
11PLE-400	11EP	.388/9.86	.297/7.54	1.000/25.40	1.00/25.40
12PLE-400	12EP	.431/10.95	.330/8.38	1.250/31.75	1.00/25.40
14PLE-400	14EP	.499/12.67	.382/9.70	1.250/31.75	1.00/25.40
16PLE-400	16EP	.571/14.50	.437/11.10	1.250/31.75	1.00/25.40
18PLE-400	18EP	.645/16.38	.494/12.55	1.250/31.75	1.00/25.40
20PLE-400	20EP	.715/18.16	.547/13.89	1.500/38.10	1.00/25.40



1. Material: Carbide 25%
2. Special carbide grades available upon request.



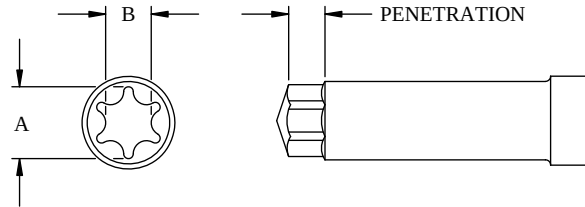
Part Number	Drive Size	A inch/mm	B inch/mm	D inch/mm	L inch/mm
1PLE-300	1	.087/2.21	.066/1.68	.100/2.54	1.625/41.28
2PLE-300	2	.115/2.92	.088/2.24	.119/3.02	1.625/41.28
4PLE-300	4	.142/3.61	.108/2.73	.159/4.04	1.625/41.28
5PLE-300	5	.177/4.50	.135/3.43	.191/4.85	1.625/41.28
6PLE-300	6	.214/5.44	.163/4.14	.253/6.43	1.625/41.28
7PLE-300	7	.233/5.92	.177/4.50	.293/7.44	1.875/47.63
8PLE-300	8	.283/7.19	.215/5.46	.325/8.26	1.875/47.63
10PLE-300	10	.358/9.09	.273/6.93	.400/10.16	21.25/53.98
11PLE-300	11	.384/9.75	.293/7.44	.429/10.90	21.25/53.98
12PLE-300	12	.427/10.85	.326/8.28	.478/12.14	21.25/53.98
14PLE-300	14	.495/12.57	.378/9.60	.564/14.33	21.25/53.98
16PLE-300	16	.566/14.38	.432/10.97	.625/15.88	21.25/53.98
18PLE-300	18	.639/16.23	.488/12.40	.690/17.53	21.25/53.98
20PLE-300	20	.709/18.01	.541/13.74	.753/19.13	2.875/73.03
24PLE-300	24	.854/21.69	.652/16.56	.894/22.71	2.875/73.03

1. Punch Pin materials:

- S7 at 56 - 58 RC.

2. Special raised or indented markings available.

*RL Tooling for
6-lobe Production*



Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm	Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm
RL5-1	T5	.059/1.49	.043/1.09	0.017/.43mm	RL27-1	T27	.200/5.09	.144/3.67	0.065/1.65mm
RL5-2	T5	.059/1.49	.043/1.09	0.025/.64mm	RL27-2	T27	.200/5.09	.144/3.67	0.075/1.90mm
RL5-3	T5	.059/1.49	.043/1.09	0.031/.79mm	RL27-3	T27	.200/5.09	.144/3.67	0.085/2.16mm
RL6-1	T6	.070/1.77	.050/1.29	0.022/.56mm	RL27-4	T27	.200/5.09	.144/3.67	0.090/2.29mm
RL6-2	T6	.070/1.77	.050/1.29	0.033/.84mm	RL27-5	T27	.200/5.09	.144/3.67	0.105/2.67mm
RL6-3	T6	.070/1.77	.050/1.29	0.041/1.04mm	RL27-6	T27	.200/5.09	.144/3.67	0.120/3.05mm
RL8-1	T8	.095/2.41	.069/1.75	0.038/.97mm	RL30-1	T30	.221/5.62	.160/4.06	0.055/1.40mm
RL8-2	T8	.095/2.41	.069/1.75	0.043/1.09mm	RL30-2	T30	.221/5.62	.160/4.06	0.070/1.78mm
RL8-3	T8	.095/2.41	.069/1.75	0.051/1.30mm	RL30-3	T30	.221/5.62	.160/4.06	0.075/1.90mm
RL10-1	T10	.111/2.81	.081/2.05	0.035/.89mm	RL30-4	T30	.221/5.62	.160/4.06	0.080/2.03mm
RL10-2	T10	.111/2.81	.081/2.05	0.040/1.02mm	RL30-5	T30	.221/5.62	.160/4.06	0.090/2.29mm
RL10-3	T10	.111/2.81	.081/2.05	0.045/1.14mm	RL30-6	T30	.221/5.62	.160/4.06	0.105/2.67mm
RL10-4	T10	.111/2.81	.081/2.05	0.050/1.27mm	RL30-7	T30	.221/5.62	.160/4.06	0.125/3.18mm
RL10-5	T10	.111/2.81	.081/2.05	0.060/1.52mm	RL40-1	T40	.267/6.78	.192/4.89	0.080/2.03mm
RL15-1	T15	.132/3.35	.096/2.43	0.033/.84mm	RL40-2	T40	.267/6.78	.192/4.89	0.090/2.27mm
RL15-2	T15	.132/3.35	.096/2.43	0.041/1.04mm	RL40-3	T40	.267/6.78	.192/4.89	0.097/2.46mm
RL15-3	T15	.132/3.35	.096/2.43	0.045/1.14mm	RL40-4	T40	.267/6.78	.192/4.89	0.110/2.79mm
RL15-4	T15	.132/3.35	.096/2.43	0.050/1.27mm	RL40-5	T40	.267/6.78	.192/4.89	0.135/3.42mm
RL15-5	T15	.132/3.35	.096/2.43	0.060/1.52mm	RL45-1	T45	.313/7.95	.224/5.68	0.110/2.79mm
RL15-6	T15	.132/3.35	.096/2.43	0.070/1.78mm	RL45-2	T45	.313/7.95	.224/5.68	0.115/2.92mm
RL20-1	T20	.155/3.93	.112/2.85	0.038/.97mm	RL45-3	T45	.313/7.95	.224/5.68	0.125/3.18mm
RL20-2	T20	.155/3.93	.112/2.85	0.050/1.27mm	RL45-4	T45	.313/7.95	.224/5.68	0.140/3.56mm
RL20-3	T20	.155/3.93	.112/2.85	0.056/1.42mm	RL45-5	T45	.313/7.95	.224/5.68	0.155/3.94mm
RL20-4	T20	.155/3.93	.112/2.85	0.060/1.52mm	RL50-1	T50	.353/8.96	.256/6.50	0.110/2.79mm
RL20-5	T20	.155/3.93	.112/2.85	0.065/1.65mm	RL50-2	T50	.353/8.96	.256/6.50	0.129/3.28mm
RL20-6	T20	.155/3.93	.112/2.85	0.080/2.03mm	RL50-3	T50	.353/8.96	.256/6.50	0.143/3.63mm
RL20-7	T20	.155/3.93	.112/2.85	0.089/2.26mm	RL50-4	T50	.353/8.96	.256/6.50	0.154/3.91mm
RL25-1	T25	.178/4.53	.129/3.27	0.055/1.40mm	RL50-5	T50	.353/8.96	.256/6.50	0.176/4.47mm
RL25-2	T25	.178/4.53	.129/3.27	0.060/1.52mm	RL55-1	T55	.447/11.35	.318/8.09	.115/2.92mm
RL25-3	T25	.178/4.53	.129/3.27	0.065/1.65mm	RL55-2	T55	.447/11.35	.318/8.09	.135/3.43mm
RL25-4	T25	.178/4.53	.129/3.27	0.075/1.90mm	RL55-3	T55	.447/11.35	.318/8.09	.155/3.94mm
RL25-5	T25	.178/4.53	.129/3.27	0.090/2.29mm	RL55-4	T55	.447/11.35	.318/8.09	.175/4.45mm
RL25-6	T25	.178/4.53	.129/3.27	0.115/2.92mm	RL55-5	T55	.447/11.35	.318/8.09	.215/5.46mm

1. Punch Pin materials:

- M2 at RC 61-64
- M42 at RC 63-65
- Carbide: D60 and D70 available. Specify when ordering

2. Special penetrations available. Specify required penetration when ordering.

3. Oversize pins available for heavy plating or hot heading applications.

4. PVD Coatings available for cold & hot heading applications.

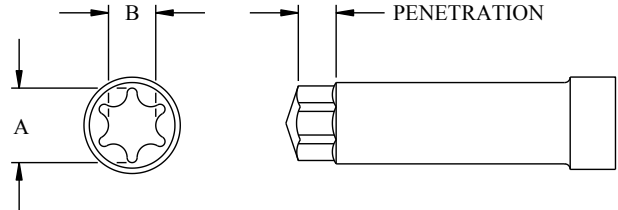
RTM PRODUCTS, INC.

13120 Arctic Circle, Santa Fe Springs, CA 90670 USA

Phone: 562-926-2400 Fax: 562-926-2441 www.rtmproducts.com

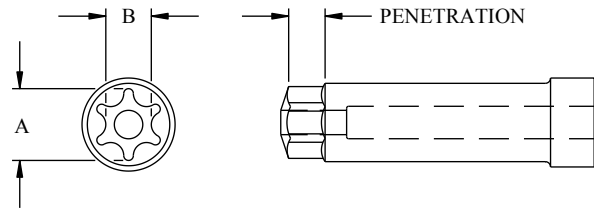
Punch Pin Blanks

Part Number	Drive Size	A inch/mm	B inch/mm	Minimum Pen inch/mm
RL5-B	5	.059/1.49	.043/1.09	.035/.89
RL6-B	6	.070/1.77	.050/1.29	.045/1.14
RL8-B	8	.095/2.41	.069/1.75	.055/1.40
RL10-B	10	.111/2.81	.081/2.05	.065/1.65
RL15-B	15	.132/3.35	.096/2.43	.075/1.91
RL20-B	20	.155/3.93	.112/2.85	.095/2.41
RL25-B	25	.178/4.53	.129/3.27	.120/3.05
RL27-B	27	.200/5.09	.144/3.67	.125/3.18
RL30-B	30	.221/5.62	.160/4.06	.130/3.30
RL40-B	40	.267/6.78	.192/4.89	.140/3.56
RL45-B	45	.313/7.95	.224/5.68	.160/4.06
RL50-B	50	.353/8.96	.256/6.50	.180/4.57
RL55-B	55	.447/11.35	.318/8.09	.220/5.59



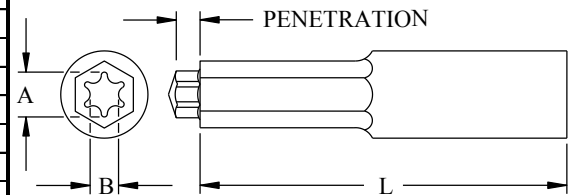
Tamper Resistant Punch Pins

Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm
RL8-1-T	8	.095/2.41	.069/1.75	.035/.89
RL10-1-T	10	.111/2.81	.081/2.05	.040/1.02
RL15-1-T	15	.132/3.35	.096/2.43	.045/1.14
RL20-1-T	20	.155/3.93	.112/2.85	.050/1.27
RL25-1-T	25	.178/4.53	.129/3.27	.055/1.40
RL27-1-T	27	.200/5.09	.144/3.67	.065/1.65
RL30-1-T	30	.221/5.62	.160/4.06	.070/1.78
RL40-1-T	40	.267/6.78	.192/4.89	.097/2.46
RL45-1-T	45	.313/7.95	.224/5.68	.110/2.79
RL50-1-T	50	.353/8.96	.256/6.50	.110/2.79
RL55-1-T	55	.447/11.35	.318/8.09	.145/3.68



Hexagon Washer Pin (One-Piece)

Part Number	Drive Size	A inch/mm	B inch/mm	Length inch/mm	Penetration inch/mm
RL8-HWP	8	.095/2.41	.069/1.75	1.277/32.44	.036/.914
RL10-HWP	10	.111/2.81	.081/2.05	1.277/32.44	.045/1.14
RL15-HWP	15	.132/3.35	.096/2.43	1.277/32.44	.050/1.27
RL20-HWP	20	.155/3.93	.112/2.85	1.277/32.44	.065/1.65
RL25-HWP	25	.178/4.53	.129/3.27	1.277/32.44	.070/1.78
RL27-HWP	27	.200/5.09	.144/3.67	1.277/32.44	.080/2.03
RL30-HWP	30	.221/5.62	.160/4.06	1.559/39.60	.095/2.41
RL40-HWP	40	.267/6.78	.192/4.89	1.559/39.60	.115/2.92
RL45-HWP	45	.313/7.95	.224/5.68	1.559/39.60	.140/3.56



1. Punch Pin materials:

- M2 at RC 61-64
- M42 at RC 63-65
- Carbide: D60 and D70 available. Specify when ordering

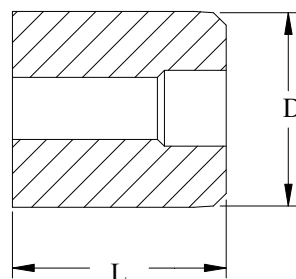
2. Special penetrations available. Specify required penetration when ordering.

3. Oversize pins available for heavy or hot heading plating applications.

4. PVD Coatings available for cold & hot heading applications.

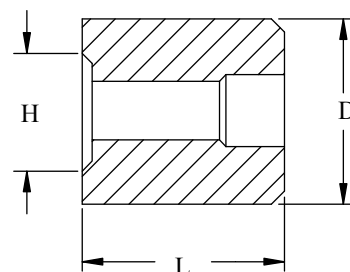
Flat Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm
RLA5-FL	T5	1	.562/14.27	.375/9.53
RLA6-FL	T6	2	.562/14.27	.375/9.53
RLA8-FL	T8	3	.562/14.27	.375/9.53
RLA8-FL	T8	4	.562/14.27	.375/9.53
RLA10-FL	T10	5 & 6	.562/14.27	.625/15.88
RLA15-FL	T15	8	.562/14.27	.625/15.88
RLA20-FL	T20	10	.562/14.27	.625/15.88
RLA25-FL	T25	12	.875/22.23	.625/15.88
RLA27-FL	T27	1/4	.875/22.23	.625/15.88
RLA30-FL	T30	1/4	.875/22.23	.625/15.88
RLA40-FL	T40	5/16 & 3/8	.875/22.23	.750/19.05
RLA45-FL	T45	3/8	1.000/25.40	1.000/25.40
RLA50-FL	T50	7/16 & 1/2	1.000/25.40	1.000/25.40
RLA55-FL	T55	9/16	1.250/31.75	1.000/25.40



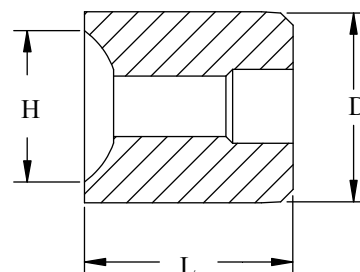
Socket Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
RLA6-SH	T6	2	.562/14.27	.380/9.65	.143/3.63
RLA8-SH	T8	3	.562/14.27	.385/9.78	.161/4.09
RLA10-SH	T10	4 & 5	.562/14.27	.634/16.10	.183/4.63
RLA15-SH	T15	6	.562/14.27	.635/16.13	.230/5.84
RLA25-SH	T25	8	.562/14.27	.635/16.13	.273/6.93
RLA27-SH	T27	10	.562/14.27	.638/16.21	.316/8.03
RLA30-SH	T30	1/4	.562/14.27	.643/16.33	.379/9.63
RLA45-SH	T45	5/16	.875/22.23	1.020/25.91	.474/12.04
RLA50-SH	T50	3/8	1.000/25.40	1.025/26.04	.567/14.40
RLA55-SH	T55	7/16 & 1/2	1.250/31.75	1.030/26.17	.661/16.78



Button Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
RLA6-BH	T6	2	.562/14.27	.408/10.36	0.171/4.34
RLA8-BH	T8	4	.562/14.27	.410/10.41	0.222/5.64
RLA10-BH	T10	6	.562/14.27	.680/17.27	0.272/6.91
RLA15-BH	T15	8	.562/14.27	.692/17.58	0.324/8.23
RLA25-BH	T25	10	.562/14.27	.705/17.91	0.375/9.53
RLA27-BH	T27	1/4	.875/22.23	.733/18.62	0.454/11.53
RLA40-BH	T40	5/16	.875/22.23	.885/22.48	0.569/14.45
RLA45-BH	T45	3/8	1.000/25.40	1.165/29.59	0.682/17.32
RLA55-BH	T55	1/2	1.250/31.75	1.218/30.94	0.910/23.11



1. M2 material at RC 60-62.

2. Special Head Styles, Head markings and Materials available per request.

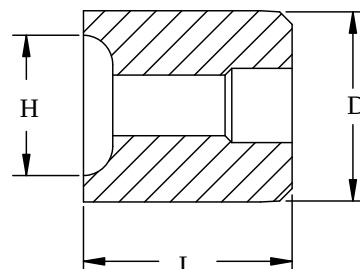
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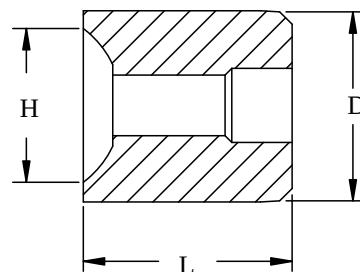
Pan Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
RLA6-PH	T6	1	.562/14.27	.400/10.16	
RLA8-PH	T8	2	.562/14.27	.645/16.38	.161/4.09
RLA8-PH-2	T8	3	.562/14.27	.645/16.38	.186/4.72
RLA10-PH	T10	5	.562/14.27	.648/16.46	.212/5.38
RLA10-PH-2	T10	6	.562/14.27	.650/16.51	.238/6.05
RLA15-PH	T15	8	.562/14.27	.652/16.56	.263/6.68
RLA20-PH	T20	10	.562/14.27	.657/16.69	.314/7.98
RLA25-PH	T25	12	.562/14.27	.663/16.84	.365/9.27
RLA27-PH	T27	1/4	.875/22.23	.668/16.97	.416/10.57
RLA30-PH	T30	1/4	1.000/25.40	.675/17.15	.482/12.24
RLA40-PH	T40	5/16	1.000/25.40	.812/20.62	.604/15.34
RLA45-PH	T45	3/8	1.250/31.75	1.074/27.28	.727/18.47



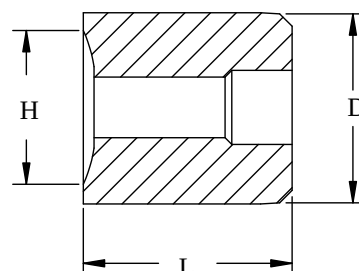
Truss Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
RLA8-TH	T8	4 & 5	.562/14.27	.676/.682	.262/.294
RLA10-TH	T10	6	.562/14.27	.689/17.50	.328/8.33
RLA15-TH	T15	8	.562/14.27	.701/17.81	.391/9.93
RLA20-TH	T20	10	.562/14.27	.713/18.11	.458/11.63
RLA25-TH	T25	12	.875/22.23	.726/18.44	.521/13.23
RLA27-TH	T27	1/4	.875/22.23	.739/18.77	.583/14.81
RLA40-TH	T40	5/16	1.000/25.40	.889/22.58	.710/18.03
RLA45-TH	T45	3/8	1.250/1.500	1.164/1.198	.835/.963
RLA50-TH	T50	1/2	1.500/38.10	1.215/30.86	1.088/27.64



Oval Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
RLA10-OH	T10	5	.562/14.27	.656/16.66	.262/6.65
RLA15-OH	T15	6	.562/14.27	.659/16.74	.290/7.37
RLA20-OH	T20	8	.562/14.27	.664/16.87	.345/8.76
RLA25-OH	T25	10	.562/14.27	.671/17.04	.400/10.16
RLA27-OH	T27	12	.875/22.23	.678/17.22	.456/11.58
RLA30-OH	T30	1/4	.875/22.23	.687/17.45	.527/13.39
RLA40-OH	T40	5/16	.875/22.23	.829/21.06	.660/16.76
RLA45-OH	T45	3/8	1.000/25.40	1.094/27.79	.792/20.12
RLA50-OH	T50	7/16 & 1/2	1.000/1.250	1.097/1.104	.844/.910
RLA55-OH	T55	9/16 & 5/8	1.250/1.500	1.120/1.135	1.000/1.125

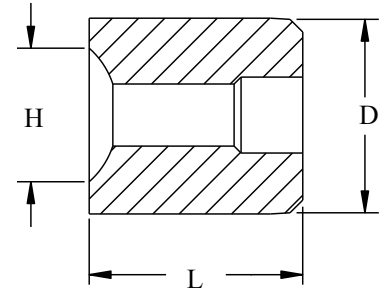


1. M2 material at RC 60-62

2. Special Head Styles, Head markings and Materials available upon request.

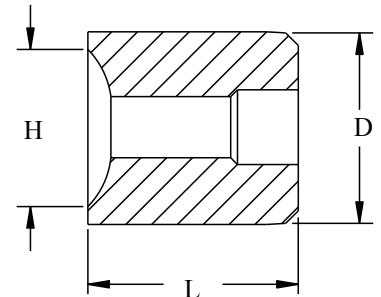
Pan Head - Full Crown

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
RLA8-PHF	T8	2 & 3	.562/14.27	.654/16.61	.179/4.55
RLA10-PHF	T10	4 & 5	.562/14.27	.663/16.84	.234/5.94
RLA15-PHF	T15	6	.562/14.27	.668/16.97	.289/7.34
RLA20-PHF	T20	8	.562/14.27	.678/17.22	.345/8.76
RLA25-PHF	T25	10	.875/22.23	.686/17.42	.399/10.13
RLA27-PHF	T27	12	.875/22.23	.694/17.63	.455/11.56
RLA30-PHF	T30	1/4	1.000/25.40	.851/21.62	.526/13.36
RLA40-PHF	T40	5/16	1.000/25.40	.889/22.58	.658/16.71
RLA45-PHF	T45	3/8	1.000/25.40	1.122/28.50	.792/20.12



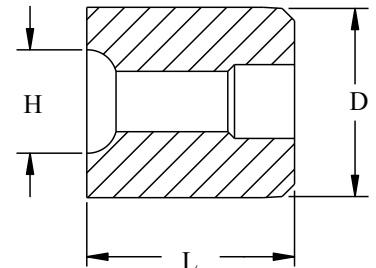
Fillister Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
RLA10-FRH	T10	4 & 5	.562/14.27	.656/16.66	.196/4.98
RLA15-FRH	T15	6	.562/14.27	.659/16.74	.242/6.15
RLA20-FRH	T20	8	.562/14.27	.664/16.87	.289/7.34
RLA25-FRH	T25	10	.562/14.27	.671/17.04	.335/8.51
RLA27-FRH	T27	12	.875/22.23	.678/17.22	.382/9.70
RLA30-FRH	T30	1/4	.875/22.23	.687/17.45	.443/11.25
RLA40-FRH	T40	5/16	.875/22.23	.829/21.06	.554/14.07
RLA45-FRH	T45	3/8	1.000/25.40	1.094/27.79	.667/16.94
RLA50-FRH	T50	7/16	1.000/25.40	1.100/27.94	.669/16.99
RLA55-FRH	T55	1/2 & 9/16	1.250/31.75	1.110/1.130	.803/20.40



Round Washer Head

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
RLA10-RWH	T10	4 & 5	.562/14.27	.689/16.95	.175/4.45
RLA15-RWH	T15	6	.562/14.27	.716/18.19	.223/5.66
RLA20-RWH	T20	8	.562/14.27	.718/18.24	.267/6.78
RLA25-RWH	T25	10	.875/22.23	.732/18.59	.293/7.44
RLA27-RWH	T27	12	.875/22.23	.781/19.84	.340/8.64
RLA30-RWH	T30	1/4	1.000/25.40	.774/19.66	.396/10.06



1. M2 material at RC 60-62.

2. Special Head Styles, Head markings and Materials available upon request.

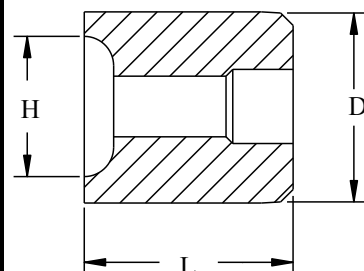
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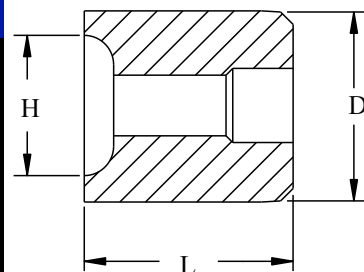
Metric Pan Head (DIN 7985)

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
RLA6-7985-M2	T6	M2	.562/14.27	.394/10.01	.171/4.34
RLA8-7985-M2.5	T8	M2.5	.562/14.27	.649/16.48	.214/5.44
RLA10-7985-M3	T10	M3	.562/14.27	.656/16.66	.262/6.65
RLA15-7985-M3.5	T15	M3.5	.562/14.27	.659/16.74	.290/7.37
RLA20-7985-M4	T20	M4	.562/14.27	.664/16.87	.345/8.76
RLA25-7985-M5	T25	M5	.875/22.23	.671/17.04	.426/10.82
RLA30-7985-M6	T30	M6	1.000/25.40	.687/17.45	.517/13.13
RLA45-7985-M8	T45	M8	1.000/25.40	1.074/27.28	.680/17.27
RLA50-7985-M10	T50	M10	1.000/25.40	1.097/27.86	.850/21.59



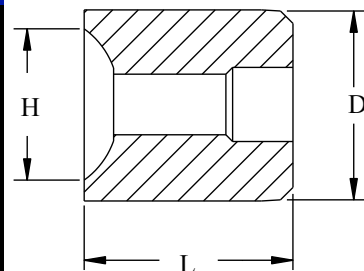
Metric Pan Head (DIN 7981)

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
RLA8-7981-M2.9	T8	M2.9	.562/14.27	.665/16.89	.240/6.10
RLA10-7981-M3.5	T10	M3.5	.562/14.27	.675/17.15	.297/7.54
RLA15-7981-M3.9	T15	M3.9	.562/14.27	.675/17.15	.325/8.26
RLA20-7981-M4.2	T20	M4.2	.562/14.27	.680/17.27	.352/8.94
RLA25-7981-M4.8	T25	M4.8	.875/22.23	.690/17.53	.410/10.41
RLA25-7981-M5.5	T25	M5.5	.875/22.23	.700/17.78	.460/11.68
RLA30-7981-M6.3	T30	M6.3	1.000/25.40	.710/18.03	.536/13.61



Metric Button Head (DIN 7380)

Part Number	Drive Size	Screw Size	D inch/mm	L inch/mm	H inch/mm
RLA10-7380-M3	T10	M3/3.5	.562/14.27	.675/.687	.235/.275
RLA15-7380-M4	T15	M4	.562/14.27	.692/17.58	.315/8.00
RLA25-7380-M5	T25	M5	.875/22.23	.715/18.16	.390/9.91
RLA27-7380-M6	T27	M6	.875/22.23	.735/18.67	.432/10.97
RLA40-7380-M8	T40	M8	1.000/25.40	.895/22.73	.575/14.61
RLA45-7380-M10	T45	M10	1.250/31.75	1.185/30.10	.720/18.29
RLA55-7380-M12	T55	M12	1.500/38.10	1.220/30.99	.862/21.89
RLA55-7380-M14	T55	M14	1.500/38.10	1.260/32.00	1.005/25.53



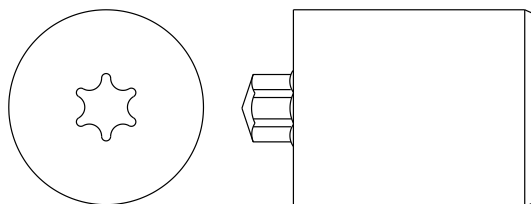
1. M2 material at RC 60-62

2. Special Head Styles, Head markings and Materials available upon request.

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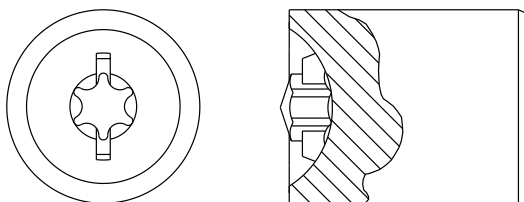
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Flat Head

Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm	OD inch/mm	Length inch/mm
RLP5 thru 9-FLH	5 thru 9			Specify	0.562/14.27	1.000/25.40
RLP10-FLH	10	.111/2.81	.081/2.05	Specify	0.562/14.27	1.000/25.40
RLP15-FLH	15	.132/3.35	.096/2.43	Specify	0.562/14.27	1.000/25.40
RLP20-FLH	20	.155/3.93	.112/2.85	Specify	0.562/14.27	1.000/25.40
RLP25-FLH	25	.178/4.53	.129/3.27	Specify	0.875/22.23	1.000/25.40
RLP27-FLH	27	.200/5.09	.144/3.67	Specify	0.875/22.23	1.000/25.40
RLP30-FLH	30	.221/5.62	.160/4.06	Specify	0.875/22.23	1.000/25.40
RLP40-FLH	40	.267/6.78	.192/4.89	Specify	0.875/22.23	1.000/25.40



Combination/Slotted Pan Head

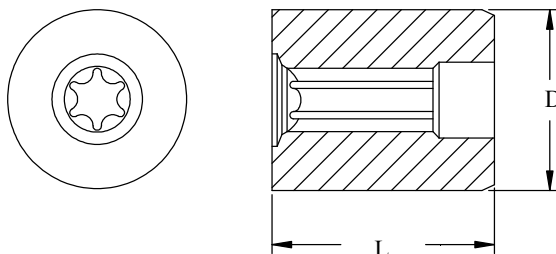
Part Number	Drive Size	A inch/mm	B inch/mm	Penetration inch/mm	OD inch/mm	Length inch/mm
RLP7-SPH	7	.082/2.08	.060/1.52	0.031/.79	0.562/14.27	1.000/25.40
RLP8-SPH	8	.095/2.41	.069/1.75	0.041/1.04	0.562/14.27	1.000/25.40
RLP9-SPH	9	.102/2.59	.074/1.88	0.040/1.02	0.562/14.27	1.000/25.40
RLP10-SPH	10	.111/2.81	.081/2.05	0.051/1.30	0.562/14.27	1.000/25.40
RLP15-SPH	15	.132/3.35	.096/2.43	0.045/1.14	0.562/14.27	1.000/25.40
RLP20-SPH	20	.155/3.93	.112/2.85	0.060/1.52	0.562/14.27	1.000/25.40
RLP25-SPH	25	.178/4.53	.129/3.27	0.075/1.90	0.875/22.23	1.000/25.40
RLP27-SPH	27	.200/5.09	.144/3.67	0.075/1.90	0.875/22.23	1.000/25.40
RLP30-SPH	30	.221/5.62	.160/4.06	0.090/2.29	0.875/22.23	1.000/25.40
RLP40-SPH	40	.267/6.78	.192/4.89	0.110/2.79	0.875/22.23	1.000/25.40

1. Punch Materials M2 at 62-64RC

- M2 at 62-64 RC
- M42 at RC 63-65

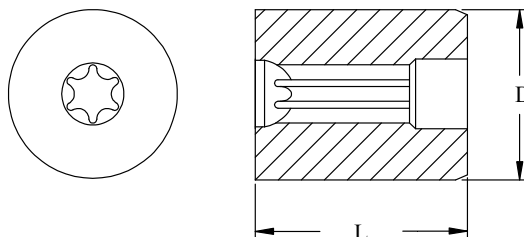
2. Special Head Styles & Head Marking available per request.

3. PVD coating available for cold and hot heading.



Flange Style

Part Number	Drive Size	A inch/mm	B inch/mm	D inch/mm	L inch/mm	Washer OD inch/mm
RLE-4-F	E4	.146/3.71	.103/2.62	.500/12.70	.500/12.70	.218/5.54
RLE-5-F	E5	.181/4.60	.127/3.23	.625/15.88	.500/12.70	.260/6.60
RLE-6-F	E6	.219/5.56	.151/3.84	.625/15.88	.500/12.70	.297/7.54
RLE-7-F	E7	.237/6.02	.166/4.22	.750/19.05	.750/19.05	.437/11.10
RLE-8-F	E8	.288/7.32	.201/5.11	.750/19.05	.750/19.05	.562/14.27
RLE-10-F	E10	.363/9.22	.260/6.60	1.000/25.40	1.000/25.40	.732/18.59
RLE-12-F	E12	.432/10.97	.304/7.72	1.000/25.40	1.000/25.40	.957/24.31
RLE-14-F	E14	.500/12.70	.355/9.02	1.250/31.75	1.000/25.40	1.070/27.18
RLE-16-F	E16	.572/14.53	.405/10.29	1.250/31.75	1.000/25.40	.852/21.64
RLE-18-F	E18	.645/16.38	.460/11.68	1.250/31.75	1.000/25.40	1.150/29.21
RLE-20-F	E20	.715/18.16	.512/13.00	1.500/38.10	1.500/38.10	1.300/33.02



Stem Style

Part Number	Drive Size	A inch/mm	B inch/mm	D inch/mm	L inch/mm	X Choke inch/mm
RLE-4-S	E4	.146/3.71	.103/2.62	.500/12.70	.500/12.70	.167/4.242
RLE-5-S	E5	.181/4.60	.127/3.23	.625/15.88	.500/12.70	.215/5.46
RLE-7-S	E7	.237/6.02	.166/4.22	.750/19.05	.750/19.05	.274/6.96
RLE-8-S	E8	.288/7.32	.201/5.11	.750/19.05	.750/19.05	.332/8.43
RLE-10-S	E10	.363/9.22	.260/6.60	1.000/25.40	1.000/25.40	.403/10.24
RLE-12-S	E12	.432/10.97	.304/7.72	1.000/25.40	1.000/25.40	.465/11.81
RLE-14-S	E14	.500/12.70	.355/9.02	1.250/31.75	1.000/25.40	.563/14.30
RLE-16-S	E16	.572/14.53	.405/10.29	1.250/31.75	1.000/25.40	.680/17.27
RLE-18-S	E18	.645/16.38	.460/11.68	1.250/31.75	1.000/25.40	.705/17.91
RLE-20-S	E20	.715/18.16	.512/13.00	1.500/38.10	1.500/38.10	.798/20.27

1. Material 25% Carbide.
2. Carbide Insert supplied only when ordered.
3. Specify if lapped extruding land is required when ordering. Extra charge applies.

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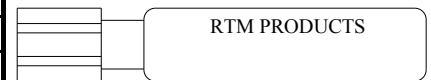
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Production Go Gages

Part Number	Drive Size
RLI-6-PG	T6
RLI-7-PG	T7
RLI-8-PG	T8
RLI-9-PG	T9
RLI-10-PG	T10
RLI-15-PG	T15
RLI-20-PG	T20
RLI-25-PG	T25
RLI-27-PG	T27
RLI-30-PG	T30
RLI-40-PG	T40
RLI-45-PG	T45
RLI-50-PG	T50
RLI-55-PG	T55
RLI-60-PG	T60

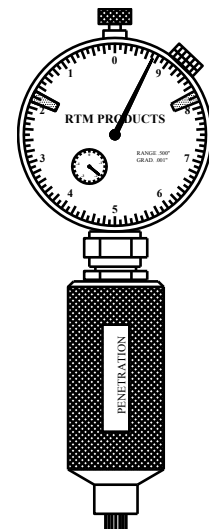
Tamperproof	Drive Size
RLI-6-PG-T	T6
RLI-7-PG-T	T7
RLI-8-PG-T	T8
RLI-9-PG-T	T9
RLI-10-PG-T	T10
RLI-15-PG-T	T15
RLI-20-PG-T	T20
RLI-25-PG-T	T25
RLI-27-PG-T	T27
RLI-30-PG-T	T30
RLI-40-PG-T	T40
RLI-45-PG-T	T45
RLI-50-PG-T	T50
RLI-55-PG-T	T55
RLI-60-PG-T	T60



No-Go Fallaway Gages

Part Number	Drive Size
RLI-6-NGF	T6
RLI-7-NGF	T7
RLI-8-NGF	T8
RLI-9-NGF	T9
RLI-10-NGF	T10
RLI-15-NGF	T15
RLI-20-NGF	T20
RLI-25-NGF	T25
RLI-27-NGF	T27
RLI-30-NGF	T30
RLI-40-NGF	T40
RLI-45-NGF	T45
RLI-50-NGF	T50
RLI-55-NGF	T55
RLI-60-NGF	T60

Tamperproof	Drive Size
RLI-6-NGF-T	T6
RLI-7-NGF-T	T7
RLI-8-NGF-T	T8
RLI-9-NGF-T	T9
RLI-10-NGF-T	T10
RLI-15-NGF-T	T15
RLI-20-NGF-T	T20
RLI-25-NGF-T	T25
RLI-27-NGF-T	T27
RLI-30-NGF-T	T30
RLI-40-NGF-T	T40
RLI-45-NGF-T	T45
RLI-50-NGF-T	T50
RLI-55-NGF-T	T55
RLI-60-NGF-T	T60

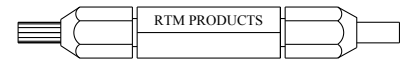


1. Gages can be supplied with either Inch, Metric or Digital dial indicators. Please specify when ordering.
2. Certification available at extra charge.

Go - No Go Plug Gage

Part Number	Drive Size
RLI-6-GN	T6
RLI-7-GN	T7
RLI-8-GN	T8
RLI-9-GN	T9
RLI-10-GN	T10
RLI-15-GN	T15
RLI-20-GN	T20
RLI-25-GN	T25
RLI-27-GN	T27
RLI-30-GN	T30
RLI-40-GN	T40
RLI-45-GN	T45
RLI-50-GN	T50
RLI-55-GN	T55
RLI-60-GN	T60

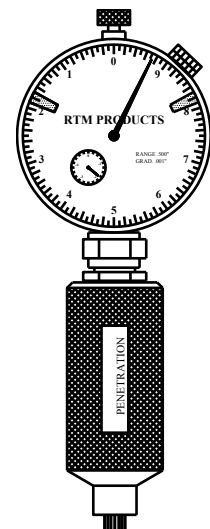
Tamperproof	Drive Size
RLI-6-GN-T	T6
RLI-7-GN-T	T7
RLI-8-GN-T	T8
RLI-9-GN-T	T9
RLI-10-GN-T	T10
RLI-15-GN-T	T15
RLI-20-GN-T	T20
RLI-25-GN-T	T25
RLI-27-GN-T	T27
RLI-30-GN-T	T30
RLI-40-GN-T	T40
RLI-45-GN-T	T45
RLI-50-GN-T	T50
RLI-55-GN-T	T55
RLI-60-GN-T	T60



Penetration Gages

Part Number	Drive Size
RLI-6-PEN	T6
RLI-7-PEN	T7
RLI-8-PEN	T8
RLI-9-PEN	T9
RLI-10-PEN	T10
RLI-15-PEN	T15
RLI-20-PEN	T20
RLI-25-PEN	T25
RLI-27-PEN	T27
RLI-30-PEN	T30
RLI-40-PEN	T40
RLI-45-PEN	T45
RLI-50-PEN	T50
RLI-55-PEN	T55
RLI-60-PEN	T60

Tamperproof	Drive Size
RLI-6-PEN-T	T6
RLI-7-PEN-T	T7
RLI-8-PEN-T	T8
RLI-9-PEN-T	T9
RLI-10-PEN-T	T10
RLI-15-PEN-T	T15
RLI-20-PEN-T	T20
RLI-25-PEN-T	T25
RLI-27-PEN-T	T27
RLI-30-PEN-T	T30
RLI-40-PEN-T	T40
RLI-45-PEN-T	T45
RLI-50-PEN-T	T50
RLI-55-PEN-T	T55
RLI-60-PEN-T	T60

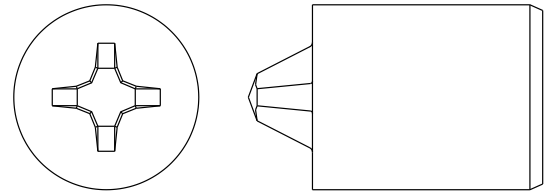


1. Gages can be supplied with either Inch, Metric or Digital dial indicators. Please specify when ordering.
2. Certification available at extra charge.

Recess Punches

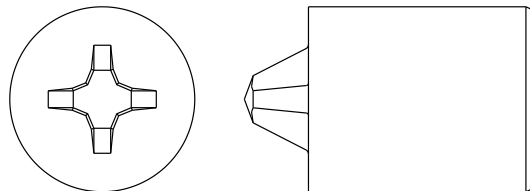
82° Flat Head

Screw Size	Cruciform Wood Cut Thread	Cruciform Machine & Metal Punch Numbers	Cruciform Type A -Wood Rolled Thread	1A Punch Numbers
2	3P10-1	3P10-1	3P10-1	1A10-1
3	3P10-2	3P10-2	3P10-2	1A10-2
4	3P10-3	3P10-3	3P10-3	1A10-3
5	3P20-1	3P20-1	3P20-1	1A20-1
6	3P20-2	3P20-2	3P20-2	1A20-2
7		3P20-6	3P20-6	1A20-6
7	3P20-3			1A20-3
8		3P20-3	3P20-3	1A20-3
8	3P20-4			1A20-4
9	3P20-5			1A20-5
10		3P20-4	3P20-4	1A20-4
10	3P30-1			1A30-1
12		3P30-2	3P30-2	1A30-2
12	3P30-3			1A30-3
14			3P30-3	1A30-3
14	3P30-4			1A30-4
1/4		3P30-3		1A30-3
16			3P30-4	1A30-4
16	3P30-5			1A30-5
18			3P40-4	1A40-4
18	3P40-1			1A40-1
5/16		3P40-4		1A40-4
3/8		3P40-2		1A40-2
20			3P40-1	1A40-1
20	3P40-2			1A40-2
7/16		3P40-5		1A40-5
24			3P40-2	1A40-2
24	3P40-3			1A40-3
1/2		3P40-3		1A40-3



100° Flat Head

Screw Size	Cruciform Punch Number	1A Punch Numbers
2	3P10-80	1A10-80
3	3P10-1	1A10-1
4	3P10-54	1A10-54
5	3P20-123	1A20-123
6	3P20-1	1A20-1
7	3P20-1	1A20-1
8	3P30-135	1A20-135
9	3P20-2	1A20-2
10	3P20-136	1A20-136
12	3P30-46	
14	3P30-93	1A30-93
1/4	3P30-93	1A30-93
16	3P30-2	1A30-2
18	3P30-3	1A30-3
5/16	3P40-79	1A40-79
3/8	3P40-106	1A40-106



1. Punch materials:

- M2 at RC 62-64
- M42 at RC 63-65

2. Punches available with headmarking and company logo. Please specify when ordering.

3. PVD Coatings available for cold & hot heading applications.

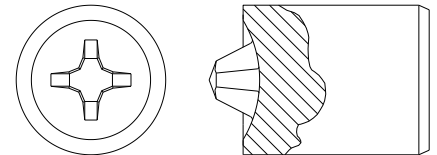
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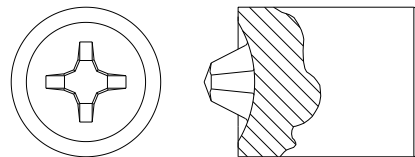
82° Oval Head

Screw Size	Cruciform Wood Cut Thread	Cruciform Machine & Metal Punch Numbers	Cruciform Type A - Wood Rolled Thread	1A Punch Numbers
2	3P10-4	3P10-4	3P10-4	1A10-4
3	3P10-5	3P10-5	3P10-5	1A10-5
4	3P10-6	3P10-6	3P10-6	1A10-6
5	3P20-7	3P20-7	3P20-7	1A20-7
6	3P20-8	3P20-8	3P20-8	1A20-8
7	3P20-9			1A20-9
7		3P20-14	3P20-14	1A20-14
8	3P20-10			1A20-10
8		3P20-12	3P20-12	1A20-12
9	3P20-11			1A20-11
10	3P30-6			1A30-6
10		3P20-13	3P20-13	1A20-13
12	3P30-8			1A30-8
12		3P30-11	3P30-11	1A30-11
14	3P30-9			1A30-9
14			3P30-13	1A30-13
1/4		3P30-12		1A30-12
16	3P30-10		3P30-10	1A30-10
18	3P40-6		3P40-6	1A40-6
5/16		3P40-13		1A40-13



100° Oval Head

Screw Size	Cruciform Punch Number	1A Punch Numbers
2	3P10-82	1A10-82
3	3P10-83	1A10-83
4	3P10-84	1A10-84
5	3P20-7	1A20-7
6	3P20-8	1A20-8
7	3P20-14	1A20-14
8	3P20-12	1A20-12
9	3P20-203	1A20-203
10	3P20-13	1A20-13
12	3P30-11	1A30-11
14	3P30-13	1A30-13
1/4	3P30-12	1A30-12
16	3P30-142	1A30-142
18	3P40-6	1A40-6
5/16	3P40-13	1A40-13
3/8	3P40-10	1A40-10



1. Punch materials:

- M2 at RC 62-64
- M42 at RC 63-65

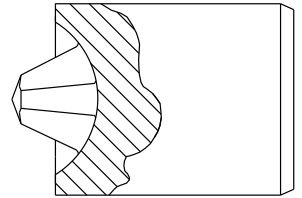
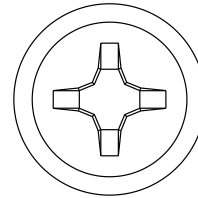
2. Punches available with headmarking and company logo. Please specify when ordering.

3. PVD Coatings available for cold & hot heading applications.

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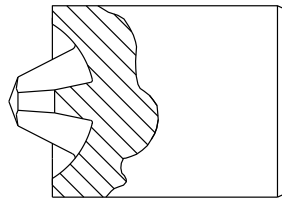
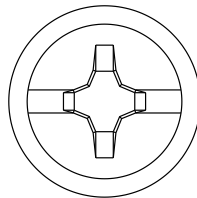
Round Head

Screw Size	Cruciform Machine & Tapping Punch	Cruciform Wood Cut Thread	1A Punch Numbers
2	3P10-46	3P10-9	
3	3P10-45	3P10-10	
4		3P10-11	
4	3P10-44		1A10-44
5	3P20-30		1A20-30
6	3P20-15	3P20-15	1A20-15
7	3P20-16	3P20-16	1A20-16
8	3P20-17	3P20-17	1A20-17
9		3P20-18	
10	3P20-19	3P20-19	1A20-19
12	3P30-16	3P30-16	1A30-16
14	3P30-17	3P30-17	1A30-17
1/4	3P30-19		1A30-19
16	3P30-18	3P30-18	1A30-18
18	3P40-110	3P40-14	
5/16	3P30-20		1A30-20
20	3P40-111	3P40-15	
24	3P40-16	3P40-16	
3/8	3P40-16		
7/16	3P40-17		
1/2	3P40-18		



Combination/Slotted Round Head

Screw Size	Cruciform Punch Number
2	3P10-129
3	3P10-130
4	3P10-131
5	3P20-475
6	3P20-389
7	3P20-476
8	3P20-390
10	3P20-391
12	3P30-207
1/4	3P30-208
5/16	3P30-209



1. Punch materials:

- M2 at RC 62-64
- M42 at RC 63-65

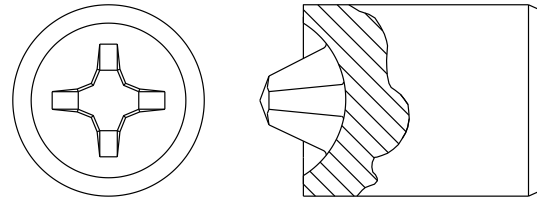
2. Punches available with headmarking and company logo. Please specify when ordering.

3. PVD Coatings available for cold & hot heading applications.

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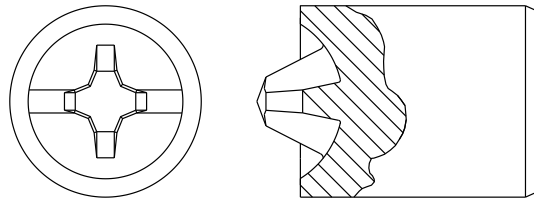
Pan Head

Screw Size	Cruciform Punch Number	1A Punch Numbers
2	3P10-13	1A 10-13
3	3P10-14	1A 10-14
4	3P10-15	1A 10-15
5	3P20-20	1A 20-20
6	3P20-21	1A 20-21
7	3P20-22	1A 20-22
8	3P20-23	1A 20-23
10	3P20-25	1A 20-25
12	3P30-21	1A 30-21
14	3P30-226	3P30-226
1/4	3P30-22	1A 30-22
16	3P30-185	1A 30-185
18	3P40-201	1A 40-201
5/16	3P40-9	1A 40-9
20	3P40-9	1A 40-9
24	3P40-26	1A 40-26
3/8	3P40-26	1A 40-26
7/16	3P40-27	1A 40-27
1/2	3P40-28	1A 40-28



Combination/Slotted Pan Head

Screw Size	Cruciform Punch Number	1A Punch Numbers
2	3P10-154	1A 10-154
3	3P10-155	1A 10-155
4	3P10-156	1A 10-156
5	3P20-551	1A 20-551
6	3P20-552	1A 20-552
7	3P20-553	1A 20-553
8	3P20-554	1A 20-554
10	3P20-555	1A 20-555
12	3P30-236	1A 30-236
1/4	3P30-237	1A 30-237
5/16	3P40-267	1A 40-267



1. Punch materials:

- M2 at RC 62-64
- M42 at RC 63-65

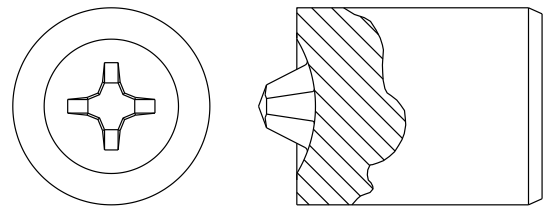
2. Punches available with headmarking and company logo. Please specify when ordering.

3. PVD Coatings available for cold & hot heading applications.

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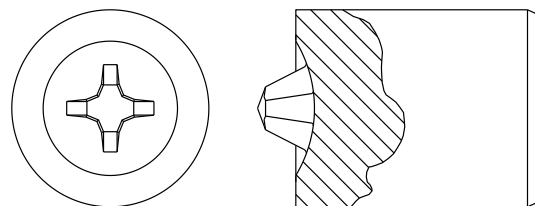
Fillister Head

Screw Size	Machine & Tapping Finished Head	Machine & Tapping Shaved Head	1A Punch Numbers
2	3P10-35		1A10-35
2		3P10-13	1A10-13
3	3P10-37		1A10-37
3		3P10-14	1A10-14
4	3P10-36		1A10-36
4		3P10-15	1A10-15
5	3P20-265		1A20-265
5		3P20-346	1A20-346
6	3P20-257		1A20-257
6		3P20-21	1A20-21
7	3P20-278		1A20-278
7		3P20-22	1A20-22
8	3P20-266		1A20-266
8		3P20-23	1A20-23
10	3P20-258		1A20-258
10		3P20-25	1A20-25
12	3P30-68		1A30-68
12		3P30-21	1A30-21
14	3P30-67		1A30-67
14		3P30-22	1A30-22
1/4	3P30-67		1A30-67
1/4		3P30-22	1A30-22
5/16	3P30-69		1A30-69
5/16		3P30-140	1A30-140
3/8	3P40-162		1A40-162
3/8		3P40-26	1A40-26
7/16	3P40-163		1A40-163
7/16		3P40-27	1A40-27
1/2	3P40-164		1A40-164
1/2		3P40-28	1A40-28



Binding Head

Screw Size	Cruciform Punch Number	1A Punch Numbers
2	3P10-63	1A10-63
3	3P10-64	1A10-64
4	3P10-62	1A10-62
5	3P20-144	1A20-144
6	3P20-133	1A20-133
8	3P20-145	1A20-145
10	3P20-143	1A20-143
12	3P30-96	1A30-96
1/4	3P30-97	1A30-97
5/16	3P40-107	1A40-107
3/8	3P40-108	1A40-108



1. Punch materials:

- M2 at RC 62-64
- M42 at RC 63-65

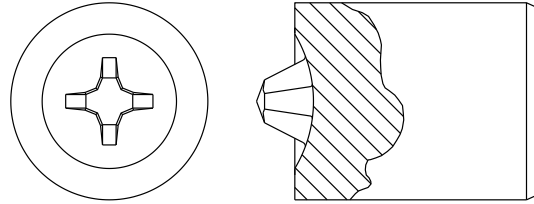
2. Punches available with headmarking and company logo. Please specify when ordering.

3. PVD Coatings available for cold & hot heading applications.

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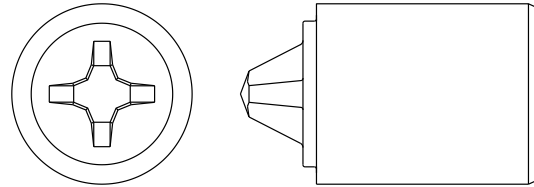
Washer Head

Screw Size	Cruciform Punch Number	1A Punch Numbers
2	3P10-23	
3	3P10-24	
4	3P10-25	1A10-25
5	3P20-45	1A20-45
6	3P20-46	1A20-46
7	3P20-47	1A20-47
8	3P20-48	1A20-48
10	3P20-49	1A20-49
12	3P30-42	1A30-42
1/4	3P30-43	1A30-43
5/16	3P30-44	1A30-44
3/8	3P40-36	1A40-36
7/16	3P40-37	1A40-37
1/2	3P40-38	1A40-38



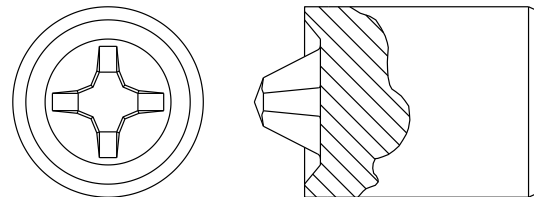
Indented Hexagon Head

Screw Size	Cruciform Punch Number	1A Punch Numbers
2	310P-127	
3	3P10-128	
4	3P10-41	1A10-41
5	3P10-42	1A10-42
6	3P20-100	1A20-100
7	3P20-100	1A20-100
8	3P20-102	1A20-102
10	3P20-103	1A20-103
12	3P30-59	1A30-59
1/4	3P30-71	1A30-71
1/4	3P30-87	1A30-87
5/16	3P40-242	1A40-242
3/8	3P40-243	1A40-243



Trimmed Hexagon Head

Screw Size	Cruciform Punch Number	1A Punch Numbers
4	3P10-157	1A10-157
6	3P20-137	1A20-137
8	3P20-474	1A20-474
10	3P20-147	1A20-147
12	3P30-94	1A30-94
1/4	3P30-58	1A30-58
5/16	3P40-65	1A40-65
3/8	3P40-66	1A40-66
7/16	3P40-67	1A40-67
1/2	3P40-68	1A40-68



1. Punch materials:

- M2 at RC 62-64
- M42 at RC 63-65

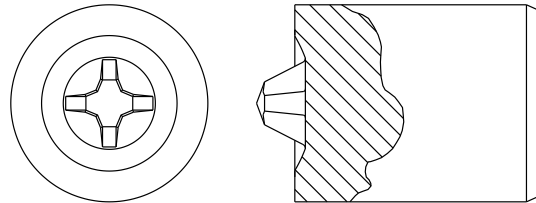
2. Punches available with headmarking and company logo. Please specify when ordering.

3. PVD Coatings available for cold & hot heading applications.

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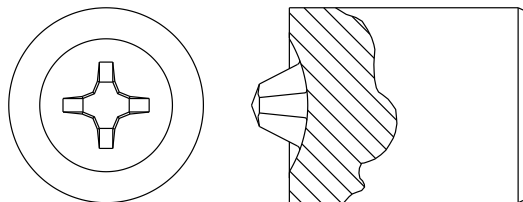
Flat Top Truss Head

Screw Size	Cruciform Punch Number	1A Punch Numbers
2	3P10-100	1A10-100
3	3P10-101	1A10-101
4	3P10-102	1A10-102
5	3P10-103	1A10-103
6 (9/16)	3P20-321	1A20-321
6 (7/16)	3P20-338	1A20-338
7	3P20-322	1A20-322
8	3P20-323	1A20-323
10 (7/8)	3P20-324	1A20-324
10 (3/4)	3P20-339	1A20-339
12	3P30-167	1A30-167
14 (7/8)	3P30-227	1A30-227
14 (1)	3P30-228	1A30-228
1/4 (7/8)	3P30-168	1A30-168
1/4 (1)	3P30-180	1A30-180
16	3P30-184	1A30-184
18	3P40-199	1A40-199
5/16 (1)	3P40-172	1A40-172
5/16 (1-1/4)	3P40-189	1A40-189
20	3P40-200	1A40-200
24	3P40-173	1A40-173
3/8	3P40-173	1A40-173
7/16	3P40-174	1A40-174
1/2	3P40-175	1A40-175



Full Contour Truss Head

Screw Size	Cruciform Punch Number
2	3P10-13
3	3P10-61
4	3P10-17
5	3P10-18
6 (9/16)	3P20-63
6 (7/16)	3P20-142
8	3P20-33
10 (7/8)	3P20-34
10 (3/4)	3P20-153
12	3P30-24
1/4 (7/8)	3P30-25
14 (1)	3P30-115
5/16 (1)	3P40-20
5/16 (1-1/4)	3P40-94
3/8 (1-1/2)	3P40-105
3/8 (1-1/4)	3P40-21
7/16	3P40-22
1/2	3P40-31



1. Punch materials:

- M2 at RC 62-64
- M42 at RC 63-65

2. Punches available with headmarking and company logo. Please specify when ordering.

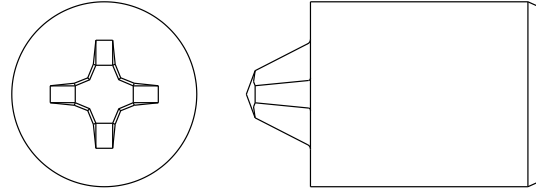
3. PVD Coatings available for cold & hot heading applications.

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*Aerospace Recess
Punches & Tooling*

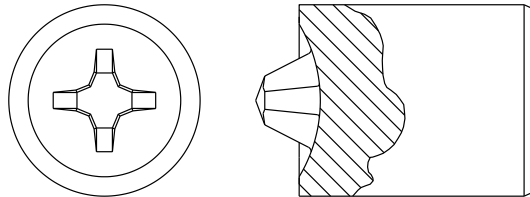
100° Flat Head

Screw Size Tension Head	Screw Size Reduced Head	Cruciform Punch Number
2		3P10-80
3		3P10-1
4		3P10-54
6	8	3P20-1
8	10	3P20-135
10	1/4	3P20-136
1/4	5/16	3P30-93
5/16	3/8	3P40-79
3/8	7/16	3P40-106
7/16	1/2	3P40-24
1/2	9/16	3P40-2
9/16	5/8	3P40-3



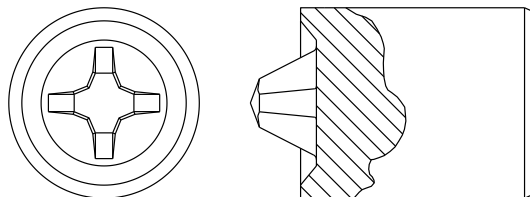
100° Oval Head

Screw Size	Cruciform Punch Number
2	3P10-82
3	3P10-83
4	3P10-84
6	3P20-8
8	3P20-12
10	3P20-13
1/4	3P30-12
3/16	3P40-13
3/8	3P40-10



Trimmed Hexagon Head

Screw Size	Cruciform Punch Number
4	3P10-157
6	3P20-137
8	3P20-474
10	3P20-147
1/4	3P30-58
5/16	3P40-65
3/8	3P40-66
7/16	3P40-67
1/2	3P40-68



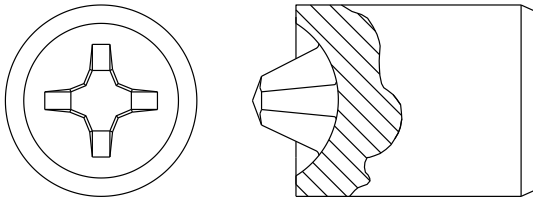
1. Punch materials:

- M2 at RC 62-64
- M42 at RC 63-65

2. Punches available with headmarking and company logo. Please specify when ordering.

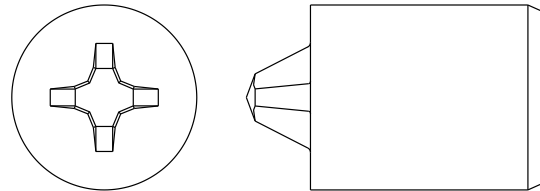
3. PVD Coatings available for cold & hot heading applications.

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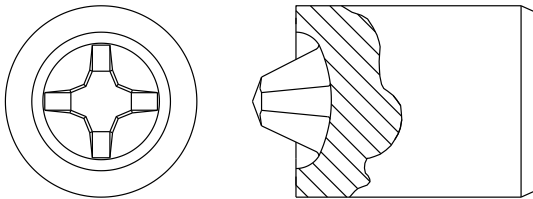
Pan Head

Screw Size	Cruciform Punch Number
2	3P10-13
3	3P10-14
4	3P10-15
6	3P20-21
8	3P20-23
10	3P20-25
1/4	3P30-22
5/16	3P40-9
3/8	3P40-26
7/16	3P40-27
1/2	3P40-28
9/16	3P40-141



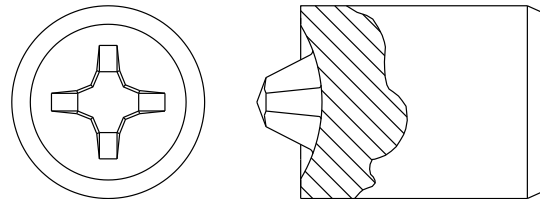
Flat Fillister Head

Screw Size	Cruciform Punch Number
2	3P10-13
3	3P10-14
4	3P10-15
6	3P20-21
8	3P20-23
10	3P20-25
1/4	3P30-22
5/16	3P40-9
3/8	3P40-26
7/16	3P40-27
1/2	3P40-28
9/16	3P40-281



Pan Head Double Radius

Screw Size	Cruciform Punch Number
4	3P10-157
6	3P20-137
8	3P20-474
10	3P20-147
1/4	3P30-58
5/16	3P40-65
3/8	3P40-66
7/16	3P40-67
1/2	3P40-68



Brazier Head

Screw Size	Cruciform Punch Number
6	3P20-125
8	3P20-126
10	3P20-127
1/4	3P30-88
5/16	3P40-134
3/8	3P40-136
7/16	3P40-225
1/2	3P40-227
9/16	3P40-211

1. Punch materials:

- M2 at RC 62-64
- M42 at RC 63-65

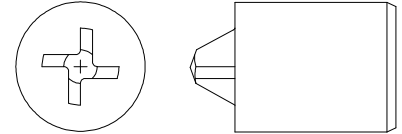
2. Punches available with headmarking and company logo. Please specify when ordering.

3. PVD Coatings available for cold & hot heading applications.

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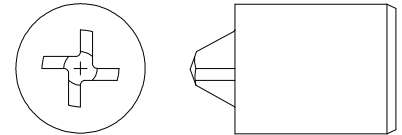
100 ° Flat Head

Screw Size	Offset Cruciform	Ribbed Offset Cruciform	Reference Penetration inch/mm	Diameter inch/mm	Length inch/mm
2	2OCF-1-3-M		.031/.79	.437/11.11	1.000/ 25.40
4	4OCF-1-3-M		.040/1.02	.437/11.11	1.000/ 25.40
6	6OCF-1-3M	6OCFR-2101	.050/1.27	.437/11.11	1.000/ 25.40
8	8OCF-1-3M	8OCFR-2101	.059/1.50	.563/ 14.29	1.000/ 25.40
10	10OCF-1-3M	10OCFR-2101	.068/1.73	.563/ 14.29	1.000/ 25.40
1/4	1/4OCF-1-3M	1/4OCFR-2101	.089/2.26	.875 / 22.23	1.000/ 25.40
5/16	5/16OCF-1-3M	5/16OCFR-2101	.096/2.44	.875 / 22.23	1.000/ 25.40
3/8	3/8OCF-1-3M	3/8OCFR-2101	.103/2.62	1.000 / 25.40	1.000/ 25.40



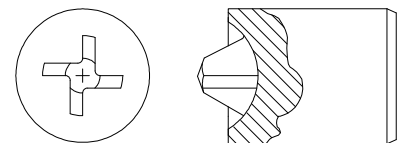
82 ° Flat & Flat Fillister Head

Screw Size	Offset Cruciform	Ribbed Offset Cruciform	Reference Penetration inch/mm	Diameter inch/mm	Length inch/mm
2	2OCF-1-82		.035/.89	.437 / 11.11	1.000/ 25.40
4	4OCF-1-82		.045/1.14	.437 / 11.11	1.000/ 25.40
6	6OCF-1-82	6OCFR-2103	.055/1.40	.437 / 11.11	1.000/ 25.40
8	8OCF-1-82	8OCFR-2103	.065/1.65	.563 / 14.29	1.000/ 25.40
10	10OCF-1-82	10OCFR-2103	.076/1.93	.563 / 14.29	1.000/ 25.40
1/4	1/4OCF-1-82	1/4OCFR-2103	.099/2.51	.875 / 22.23	1.000/ 25.40
5/16	5/16OCF-1-82	5/16OCFR-2103	.098/2.49	.875 / 22.23	1.000/ 25.40
3/8	3/8OCF-1-82	3/8OCFR-2103	.118/3.00	1.000 / 25.40	1.000/ 25.40



Pan Head

Screw Size	Offset Cruciform	Ribbed Offset Cruciform	Reference Penetration inch/mm	Diameter inch/mm	Length inch/mm
2	2OCF-4-4M		.025/.64	.437/ 11.11	1.000/ 25.40
4	4OCF-4-4M		.032/.81	.437 / 11.11	1.000/ 25.40
6	6OCF-4-4M	6OCFR-2107	.039/.99	.437 / 11.11	1.000/ 25.40
8	8OCF-4-4M	8OCFR-2107	.047/1.19	.563/ 14.29	1.000/ 25.40
10	10OCF-4-4M	10OCFR-2107	.054/1.37	.563/ 14.29	1.000/ 25.40
1/4	1/4OCF-4-4M	1/4OCFR-2107	.059/1.50	.875/ 22.23	1.000/ 25.40
5/16	5/16OCF-4-4M	5/16OCFR-2107	.086/2.18	.875/ 22.23	1.000/ 25.40
3/8	3/8OCF-4-4M	3/8OCFR-2107	.103/2.62	1.000 / 25.40	1.000/ 25.40



1. Punch materials:

- M2 at RC 62-64
- M42 at RC 63-65

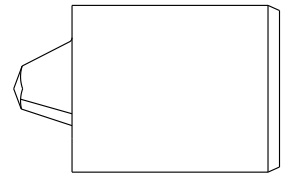
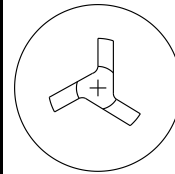
2. Punches available with headmarking and company logo. Please specify when ordering.

3. PVD Coatings available for cold & hot heading applications.

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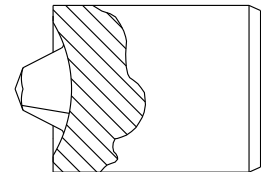
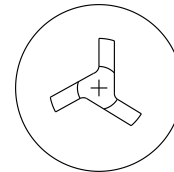
100 ° Flat Head

Screw Size	3-Wing	Ribbed 3-Wing	Reference Penetration inch/mm	Diameter inch/mm	Length inch/mm
2	3W2-1-1	3WR2-3101	.040/1.02	.438/11.12	1.000/25.40
4	3W4-1-1	3WR4-3101	.040/1.02	.438/11.12	1.000/25.40
6	3W6-1-1	3WR6-3101	.049/1.24	.438/11.12	1.000/25.40
8	3W8-1-1	3WR8-3101	.059/1.49	.563/14.30	1.000/25.40
10	3W10-1-1	3WR10-3101	.075/1.91	.563/14.30	1.000/25.40
1/4	3W1/4-1-1	3WR1/4-3101	.082/2.08	.875/22.23	1.000/25.40
5/16	3W5/16-1-1	3WR5/16-3101	.090/2.29	.875/22.23	1.000/25.40
3/8	3W3/8-1-1	3WR3/8-3101	.116/2.95	1.000/25.40	1.000/25.40



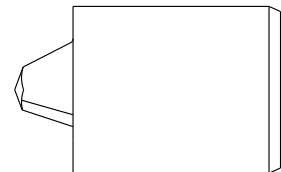
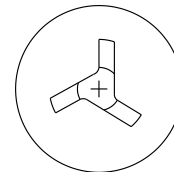
100 ° Oval Head

Screw Size	3-Wing	Ribbed 3-Wing	Reference Penetration inch/mm	Diameter inch/mm	Length inch/mm
2	3W2-3-1	3WR2-3104		.438/11.12	1.000/25.40
4	3W4-3-1	3WR4-3104		.438/11.12	1.000/25.40
6	3W6-3-1	3WR6-3104		.438/11.12	1.000/25.40
8	3W8-3-1	3WR8-3104		.563/14.30	1.000/25.40
10	3W10-3-1	3WR10-3104		.563/14.30	1.000/25.40
1/4	3W1/4-3-1	3WR1/4-3104		.875/22.23	1.000/25.40
5/16	3W5/16-3-1	3WR5/16-3104		.875/22.23	1.000/25.40
3/8	3W3/8-3-1	3WR3/8-3104		1.000/25.40	1.000/25.40



Flat Pan Head

Screw Size	3-Wing	Ribbed 3-Wing	Reference Penetration inch/mm	Diameter inch/mm	Length inch/mm
2	3W2-11-1	3WR2-3106		.438/11.12	1.000/25.40
4	3W4-11-1	3WR4-3106		.438/11.12	1.000/25.40
6	3W6-11-1	3WR6-3106		.438/11.12	1.000/25.40
8	3W8-11-1	3WR8-3106		.563/14.30	1.000/25.40
10	3W10-11-1	3WR10-3106		.563/14.30	1.000/25.40
1/4	3W1/4-11-1	3WR1/4-3106		.875/22.23	1.000/25.40
5/16	3W5/16-11-1	3WR5/16-3106		.875/22.23	1.000/25.40
3/8	3W3/8-11-1	3WR3/8-3106		1.000/25.40	1.000/25.40



1. Punch materials:

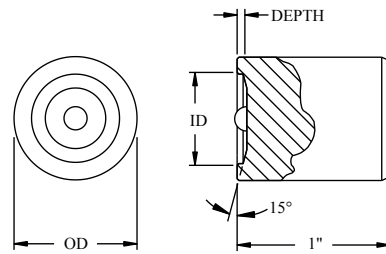
- M2 at RC 62-64
- M42 at RC 63-65

2. Punches available with headmarking and company logo. Please specify when ordering.

3. PVD Coatings available for cold & hot heading applications.

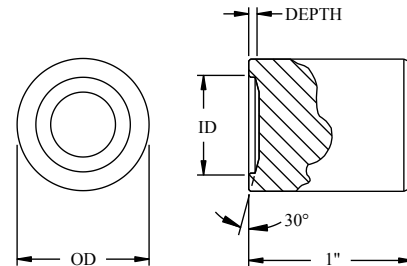
NAS Style

Screw Size	Part Number	OD inch/mm	ID inch/mm	Depth inch/mm
10	NAS1103	.625/15.88	.455/11.56	.025/.64
1/4"	NAS1104	.875/22.22	.530/13.46	.025/.64
5/16"	NAS1105	1.000/25.40	.600/15.24	.030/.76
3/8"	NAS1106	1.000/25.40	.680/17.27	.030/.76
7/16"	NAS1107	1.000/25.40	.815/20.70	.035/.89
1/2"	NAS1108	1.25/31.75	.895/22.73	.040/1.02
5/8"	NAS1110	1.50/38.10	1.110/28.19	.040/1.02

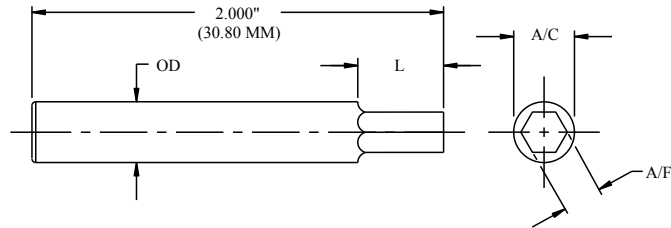


AN Style

Screw Size	Part Number	OD inch/mm	ID inch/mm	Depth inch/mm
10	AN-3	.625/15.88	.455/11.56	.030/.76
1/4"	AN-4	.875/22.22	.530/13.46	.030/.76
5/16"	AN-5	1.000/25.40	.605/15.37	.030/.76
3/8"	AN-6	1.000/25.40	.675/17.15	.030/.76
7/16"	AN-7	1.250/31.75	.745/18.92	.035/.89
1/2"	AN-8	1.250/31.75	.895/22.73	.035/.89



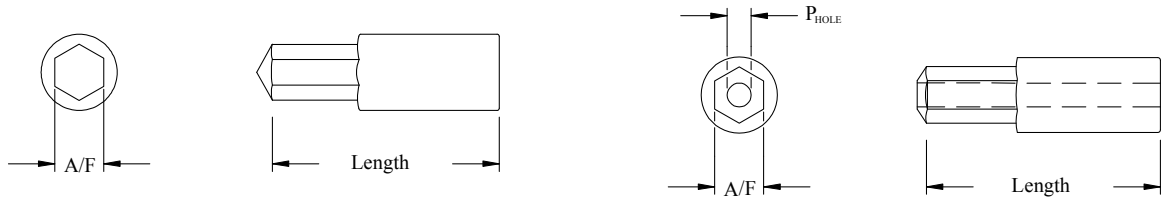
1. M2 Material at RC 59 - 61
2. Special materials available upon quote.
3. Hammers available with raised or depressed headmarking. Specify when ordering.



Part Number	A/F inch/mm	A/C inch/mm	OD inch/mm	L inch/mm
HB-.065	.0648/1.641	.0748/1.899	.1875/4.762	.250/6.35
HB-.0805	.0804/2.042	.0929/2.359	.1875/4.762	.250/6.35
HB-.081	.0809/2.055	.0934/2.372	.1875/4.762	.250/6.35
HB-.097	.0970/2.463	.1120/2.844	.1875/4.762	.250/6.35
HB-.130	.1298/3.296	.1499/3.807	.1875/4.762	.250/6.35
HB-.062	.1617/4.107	.1867/4.742	.2500/6.350	.281/7.13

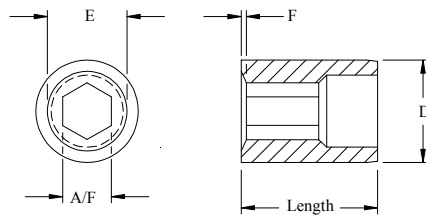
1. **M42 Material at RC 63 - 65.**
2. **Special materials and hardnesses available upon quote.**

Hexagon Socket Tooling



Socket Head

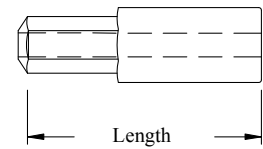
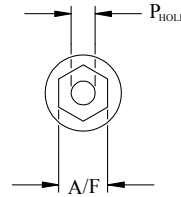
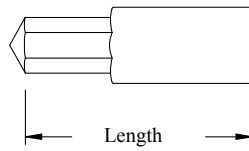
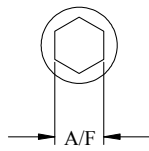
Screw Size	Pin Number	A/F inch/mm	Penetration inch/mm	Pin Length inch/mm	Tamperproof Pin Number	Pin Hole inch/mm
0	0HS-SH	.0508/1.29	.032/.790	.525/13.34	—	—
1	1HS-SH	.063/1.61	.038/.965	.532/13.51	1HS-SH-T	.023/.58
2	2HS-SH	.0789/2.00	.044/1.12	.537/13.64	2HS-SH-T	.029/.74
3	3HS-SH	.0789/2.00	.049/1.24	.542/13.77	3HS-SH-T	.029/.74
4	4HS-SH	.095/2.41	.059/1.49	.549/13.94	4HS-SH-T	.036/.91
5	5HS-SH	.095/2.41	.066/1.68	.556/14.12	5HS-SH-T	.036/.91
6	6HS-SH	.1109/2.82	.071/1.80	.560/14.22	6HS-SH-T	.042/1.07
8	8HS-SH	.1424/3.62	.085/2.16	.573/14.55	8HS-SH-T	.054/1.37
10	10HS-SH	.1585/4.03	.098/2.49	.584/14.83	10HS-SH-T	.060/1.52
1/4	1/4HS-SH	.1898/4.82	.130/3.30	1.112/28.24	1/4HS-SH-T	.073/1.85
5/16	5/16HS-SH	.2528/6.42	.162/4.11	1.140/28.96	5/16HS-SH-T	.098/2.49
3/8	3/8HS-SH	.3158/8.02	.194/4.92	1.168/29.67	3/8HS-SH-T	.123/3.12
7/16	7/16HS-SH	.3775/9.59	.229/5.82	1.180/29.97	—	—
1/2	1/2HS-SH	.3775/9.59	.260/6.60	1.196/30.38	—	—



Screw Size	Adapter Number	A/F inch/mm	E inch/mm	F inch/mm	D inch/mm	Length inch/mm
0	0HSA-SH	.0508/1.29	.094/2.39	.006/.15	0.562/14.27	.500/12.70
1	1HSA-SH	.063/1.61	.116/2.95	.006/.15	0.562/14.27	.500/12.70
2	2HSA-SH	.0789/2.00	.136/3.45	.007/.18	0.562/14.27	.500/12.70
3	3HSA-SH	.0789/2.00	.157/3.99	.007/.18	0.562/14.27	.500/12.70
4	4HSA-SH	.095/2.41	.178/4.52	.008/.20	0.562/14.27	.500/12.70
5	5HSA-SH	.095/2.41	.201/5.11	.010/.25	0.562/14.27	.500/12.70
6	6HSA-SH	.1109/2.82	.221/5.61	.011/.25	0.562/14.27	.500/12.70
8	8HSA-SH	.1424/3.62	.264/6.71	.012/.30	0.562/14.27	.500/12.70
10	10HSA-SH	.1585/4.03	.306/7.77	.014/.36	0.562/14.27	.500/12.70
1/4	1/4HSA-SH	.1898/4.82	.365/9.27	.018/.46	0.750/19.05	1.00/25.40
5/16	5/16HSA-SH	.2528/6.42	.457/11.61	.022/.56	1.00/25.40	1.00/25.40
3/8	3/8HSA-SH	.3158/8.02	.556/14.12	.026/.66	1.00/25.40	1.00/25.40
7/16	7/16HSA-SH	.3775/9.59	.648/16.46	.029/.74	1.00/25.40	1.00/25.40
1/2	1/2HSA-SH	.3775/9.59	.750/19.05	.050/1.27	1.25/31.75	1.00/25.40

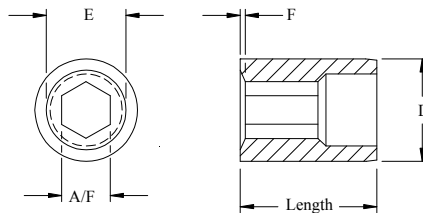
1. M42 Material Standard for Pins (RC 63-65).
2. M2 Material Standard for Adapters (RC 60-62).
3. Tamperproof style pins available (add -T to the end of the part number to specify).
4. PVD Coatings available for cold and hot heading applications.
5. Raised or depressed headmarking on adapters available per request.

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Flat Head

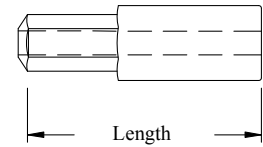
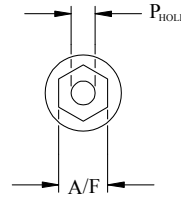
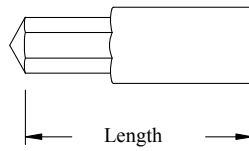
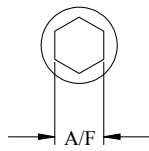
Screw Size	Pin Number	A/F inch/mm	Penetration inch/mm	Pin Length inch/mm	Tamperproof Pin Number	Pin Hole inch/mm
0	0HS-FS	.0353/.90	.030/.762	.280/7.11	—	—
1	1HS-FS	.0508/1.29	.036/.910	.536/13.61	—	—
2	2HS-FS	.0508/1.29	.046/1.17	.546/13.87	—	—
3	3HS-FS	.0633/1.61	.049/1.24	.549/13.94	3HS-FS-T	.023/.58
4	4HS-FS	.0633/1.61	.060/1.52	.560/14.22	4HS-FS-T	.023/.58
5	5HS-FS	.0789/2.00	.066/1.68	.566/14.38	5HS-FS-T	.029/.74
6	6HS-FS	.0789/2.00	.071/1.80	.571/14.50	6HS-FS-T	.029/.74
8	8HS-FS	.095/2.41	.081/2.05	.581/14.76	8HS-FS-T	.036/.91
10	10HS-FS	.1268/3.22	.092/2.34	.592/15.04	10HS-FS-T	.048/1.22
1/4	1/4HS-FS	.1585/4.03	.116/2.95	1.116/28.35	1/4HS-FS-T	.060/1.52
5/16	5/16HS-FS	.1898/4.82	.140/3.56	1.140/28.96	5/16HS-FS-T	.073/1.85
3/8	3/8HS-FS	.2215/5.63	.164/4.17	1.164/29.57	3/8HS-FS-T	.086/2.18
1/2	1/2HS-FS	.315/8.00	.192/4.88	1.192/30.28	1/2HS-FS-T	.098/2.49



Screw Size	Adapter Number	A/F inch/mm	D inch/mm	Length inch/mm
0	0HSA-FS	.0353/.90	.0562/14.27	.500/12.70
1	1HSA-FS	.0508/1.29	.0562/14.27	.500/12.70
2	2HSA-FS	.0508/1.29	.0562/14.27	.500/12.70
3	3HSA-FS	.0633/1.61	.0562/14.27	.500/12.70
4	4HSA-FS	.0633/1.61	.0562/14.27	.500/12.70
5	5HSA-FS	.0789/2.00	.0562/14.27	.500/12.70
6	6HSA-FS	.0789/2.00	.0562/14.27	.500/12.70
8	8HSA-FS	.095/2.41	.0562/14.27	.500/12.70
10	10HSA-FS	.1268/3.22	.0562/14.27	.500/12.70
1/4	1/4HSA-FS	.1585/4.03	.750/19.05	1.00/25.40
5/16	5/16HSA-FS	.1898/4.82	1.00/25.40	1.00/25.40
3/8	3/8HSA-FS	.2215/5.63	1.00/25.40	1.00/25.40
1/2	1/2HSA-FS	.315/8.00	1.00/25.40	1.00/25.40

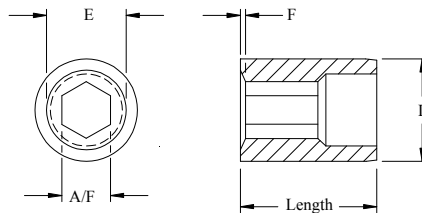
1. M42 Material Standard for Pins (RC 63-65).
2. M2 Material Standard for Adapters (RC 60-62).
3. Tamperproof style pins available (add -T to the end of the part number to specify).
4. PVD Coatings available for cold and hot heading applications.
5. Raised or depressed headmarking on adapters available per request.

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Button Head

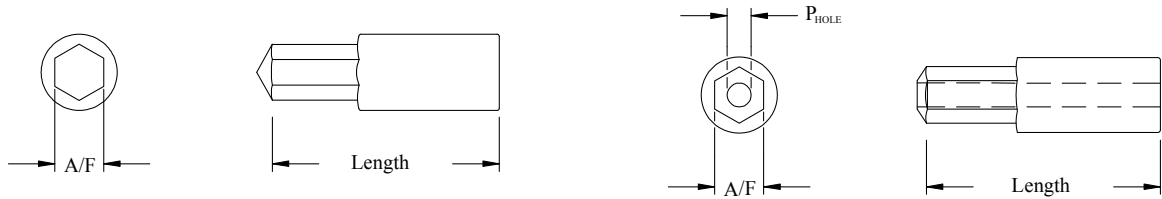
Screw Size	Pin Number	A/F inch/mm	Penetration inch/mm	Pin Length inch/mm	Tamperproof Pin Number	Pin Hole inch/mm
0	0HS-BH	.0353/.90	.026/.660	.502/12.75	—	—
1	1HS-BH	.0508/1.29	.034/.860	.504/12.80	—	—
2	2HS-BH	.0508/1.29	.035/.890	.500/12.70	—	—
3	3HS-BH	.0633/1.61	.041/1.04	.500/12.70	3HS-BH-T	.023/.58
4	4HS-BH	.0633/1.61	.042/1.07	.495/12.57	4HS-BH-T	.023/.58
5	5HS-BH	.0789/2.00	.049/1.24	.495/12.57	5HS-B-T	.029/.74
6	6HS-BH	.0789/2.00	.051/1.30	.493/12.52	6HS-BH-T	.029/.74
8	8HS-BH	.095/2.41	.060/1.52	.489/12.42	8HS-BH-T	.036/.91
10	10HS-BH	.1268/3.22	.077/1.95	.489/12.42	10HS-BH-T	.048/1.22
1/4	1/4HS-BH	.1585/4.03	.095/2.41	.980/24.89	1/4HS-BH-T	.060/1.52
5/16	5/16HS-BH	.1898/4.82	.113/2.87	.968/24.59	5/16HS-BH-T	.073/1.85
3/8	3/8HS-BH	.2215/5.63	.137/3.48	.955/24.26	3/8HS-BH-T	.086/2.18
1/2	1/2 HS-BH	.315/8.00	.190/4.83	1.192/30.28	1/2HS-BH-T	.098/2.49



Screw Size	Adapter Number	A/F inch/mm	E inch/mm	F inch/mm	D inch/mm	Length inch/mm
0	0HSA-BH	.0353/.90	.119/3.02	.023/.58	.0562/14.27	.500/12.70
1	1HSA-BH	.0508/1.29	.144/3.66	.030/.76	.0562/14.27	.500/12.70
2	2HSA-BH	.0508/1.29	.169/4.29	.035/.89	.0562/14.27	.500/12.70
3	3HSA-BH	.0633/1.61	.191/4.85	.041/1.04	.0562/14.27	.500/12.70
4	4HSA-BH	.0633/1.61	.216/5.49	.047/1.19	.0562/14.27	.500/12.70
5	5HSA-BH	.0789/2.00	.241/6.12	.054/1.37	.0562/14.27	.500/12.70
6	6HSA-BH	.0789/2.00	.266/6.76	.058/1.47	.0562/14.27	.500/12.70
8	8HSA-BH	.095/2.41	.315/8.00	.071/1.80	.0562/14.27	.500/12.70
10	10HSA-BH	.1268/3.22	.369/9.37	.084/2.13	.0562/14.27	.500/12.70
1/4	1/4HSA-BH	.1585/4.03	.447/11.35	.115/2.92	.750/19.05	1.00/25.40
5/16	5/16HSA-BH	.1898/4.82	.557/14.15	.145/3.68	1.00/25.40	1.00/25.40
3/8	3/8HSA-BH	.2215/5.63	.666/16.92	.177/4.50	1.00/25.40	1.00/25.40
1/2	1/2HSA-BH	.315/8.00	.885/22.48	.230/5.84	1.00/25.40	1.00/25.40

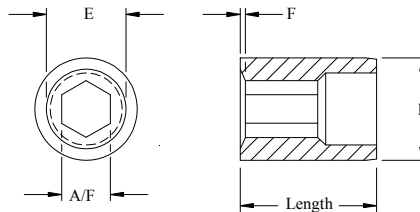
1. M42 Material Standard for Pins (RC 63-65).
2. M2 Material Standard for Adapters (RC 60-62).
3. Tamperproof style pins available (add -T to the end of the part number to specify).
4. PVD Coatings available for cold and hot heading applications.
5. Raised or depressed headmarking on adapters available per request.

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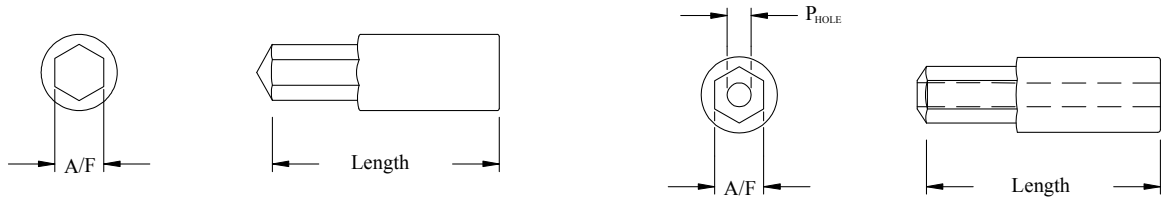
Socket Head (DIN 912)

Screw Size	Pin Number	A/F inch/mm	Penetration inch/mm	Pin Length inch/mm	Tamperproof Pin Number	Pin Hole inch/mm
M1.6	1.6MHS-SH	.0606/1.54	.036/.91	.535/13.59	1.6MHS-SH-T	.023/.58
M2	2MHS-SH	.0606/1.54	.050/1.27	.542/13.77	2MHS-SH-T	.023/.58
M2.5	2.5MHS-SH	.0803/2.04	.058/1.47	.530/13.46	2.5MHS-SH-T	.030/.76
M3	3MHS-SH	.1006/2.56	.060/1.52	.557/14.15	3MHS-SH-T	.038/.97
M4	4MHS-SH	.1207/3.07	.071/1.80	.575/14.61	4MHS-SH-T	.045/1.14
M5	5MHS-SH	.1606/4.08	.102/2.59	.589/14.96	5MHS-SH-T	.060/1.52
M6	6MHS-SH	.2000/5.08	.111/2.82	1.105/28.07	6MHS-SH-T	.076/1.93
M8	8MHS-SH	.239/6.09	.151/3.84	1.136/28.85	8MHS-SH-T	.090/2.29
M10	10MHS-SH	.3193/8.11	.194/4.93	1.168/29.67	10MHS-SH-T	.121/3.07
M12	12MHS-SH	.3985/10.12	.244/6.20	1.199/30.45	12MHS-SH-T	.151/3.84



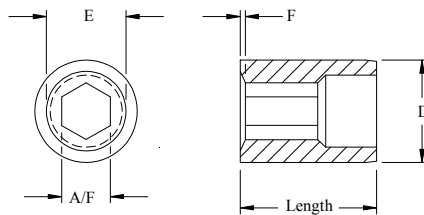
Screw Size	Adapter Number	A/F inch/mm	E inch/mm	F inch/mm	D inch/mm	Length inch/mm
M1.6	1.6MHSA-SH	.060/1.52	.116/2.95	.006/.15	.562/14.27	.500/12.70
M2	2MHSA-SH	.060/1.52	.147/3.73	.008/.20	.562/14.27	.500/12.70
M2.5	2.5MHSA-SH	.080/2.03	.175/4.45	.010/.25	.562/14.27	.500/12.70
M3	3MHSA-SH	.100/2.54	.214/5.44	.012/.30	.562/14.27	.500/12.70
M4	4MHSA-SH	.120/3.05	.273/6.93	.015/.38	.562/14.27	.500/12.70
M5	5MHSA-SH	.160/4.06	.332/8.43	.020/.51	.562/14.27	.500/12.70
M6	6MHSA-SH	.199/5.05	.391/9.93	.023/.58	.750/19.50	1.00/25.40
M8	8MHSA-SH	.239/6.07	.508/12.90	.031/.79	1.00/25.40	1.00/25.40
M10	10MHSA-SH	.319/8.10	.625/15.88	.039/.99	1.00/25.40	1.00/25.40
M12	12MHSA-SH	.398/10.11	.705/17.91	.047/1.19	1.00/25.40	1.00/25.40

1. M42 Material for Pins (63-65RC).
2. M2 Material for Adapters (RC 60-62)
3. Tamperproof style pins available (add -T to the end of the part number to specify).
4. PVD Coatings available for cold and hot heading applications.
5. Raised or depressed head marking on adapters available per request.



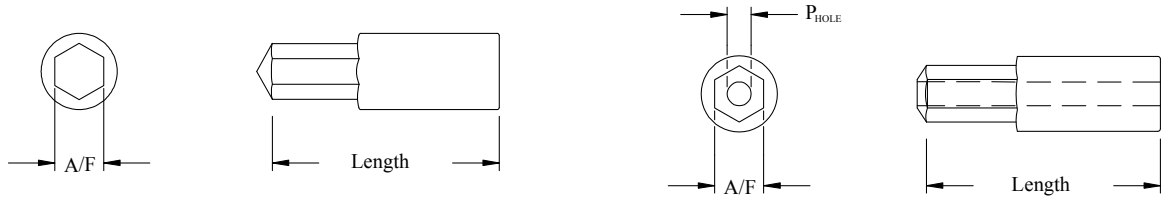
Flat Head (DIN 7991)

Screw Size	Pin Number	A/F inch/mm	Penetration inch/mm	Pin Length inch/mm	Tamperproof Pin Number	Pin Hole inch/mm
M3	3MHS-FS	.0803/2.04	.051/1.29	.551/14.00	3MHS-FS-T	.030/.76
M4	4MHS-FS	.1006/2.56	.069/1.73	.569/14.45	4MHS-FS-T	.038/.97
M5	5MHS-FS	.1207/3.07	.083/2.11	.583/14.81	5MHS-FS-T	.046/1.17
M6	6MHS-FS	.1606/4.08	.095/2.41	.595/15.11	6MHS-FS-T	.060/1.52
M8	8MHS-FS	.2000/5.08	.122/3.10	1.122/28.50	8MHS-FS-T	.076/1.93
M10	10MHS-FS	.2398/6.09	.152/3.86	1.152/29.26	10MHS-FS-T	.090/2.29
M12	12MHS-FS	.03193/8.11	.181/4.60	1.181/30.00	12MHS-FS-T	.121/3.07



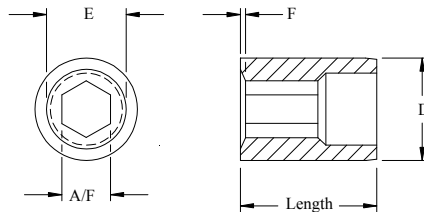
Screw Size	Adapter Number	A/F inch/mm	D inch/mm	Length inch/mm
M3	3MHSA-FS	.0803/2.04	.562/14.27	.500/12.70
M4	4MHSA-FS	.1006/2.56	.562/14.27	.500/12.70
M5	5MHSA-FS	.1207/3.07	.562/14.27	.500/12.70
M6	6MHSA-FS	.1606/4.08	.562/14.27	.500/12.70
M8	8MHSA-FS	.2000/5.08	1.00/25.40	1.00/25.40
M10	10MHSA-FS	.2398/6.09	1.00/25.40	1.00/25.40
M12	12MHSA-FS	.03193/8.11	1.25/31.75	1.00/25.40

1. M42 Material for Pins (63-65RC).
2. M2 Material for Adapters (RC 60-62)
3. Tamperproof style pins available (add -T to the end of the part number to specify).
4. PVD Coatings available for cold and hot heading applications.
5. Raised or depressed head marking on adapters available per request.



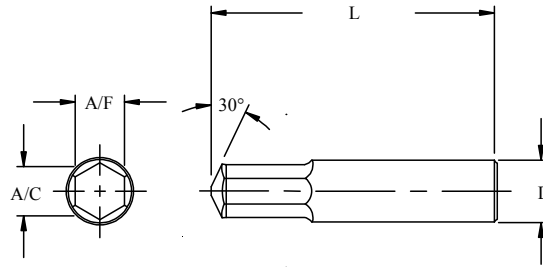
Button Head (DIN 7380)

Screw Size	Pin Number	A/F inch/mm	Penetration inch/mm	Pin Length inch/mm	Tamperproof Pin Number	Pin Hole inch/mm
M3	3MHS-BH	.0803/2.04	.056/1.42	.507/12.88	3MHS-BH-T	.030/.76
M4	4MHS-BH	.1006/2.56	.066/1.68	.495/12.57	4MHS-BH-T	.038/.97
M5	5MHS-BH	.1207/3.07	.075/1.91	.488/12.40	5MHS-BH-T	.046/1.17
M6	6MHS-BH	.1606/4.08	.097/2.46	.500/12.70	6MHS-BH-T	.060/1.52
M8	8MHS-BH	.2000/5.08	.117/2.97	.977/24.82	8MHS-BH-T	.076/1.93
M10	10MHS-BH	.2398/6.09	.136/3.45	1.079/27.41	10MHS-BH-T	.090/2.29
M12	12MHS-BH	.3193/8.11	.179/4.55	1.077/27.36	12MHS-BH-T	.121/3.07



Screw Size	Adapter Number	A/F inch/mm	E inch/mm	F inch/mm	D inch/mm	Length inch/mm
M3	3MHSA-BH	.0803/2.04	.225/5.72	.049/1.24	0.562/14.27	0.500/12.70
M4	4MHSA-BH	.1006/2.56	.299/7.59	.071/1.80	0.562/14.27	0.500/12.70
M5	5MHSA-BH	.1207/3.07	.374/9.50	.087/2.21	0.562/14.27	0.500/12.70
M6	6MHSA-BH	.1606/4.08	.413/10.49	.097/2.46	0.562/14.27	0.500/12.70
M8	8MHSA-BH	.2000/5.08	.551/14.00	.140/3.56	1.00/25.40	1.00/25.40
M10	10MHSA-BH	.2398/6.09	.689/17.50	.184/4.67	1.00/25.40	1.00/25.40
M12	12MHSA-BH	.3193/8.11	.827/21.01	.227/5.77	1.25/31.75	1.00/25.40

1. M42 Material for Pins (63-65RC).
2. M2 Material for Adapters (RC 60-62)
3. Tamperproof style pins available (add -T to the end of the part number to specify).
4. PVD Coatings available for cold and hot heading applications.
5. Raised or depressed head marking on adapters available per request.



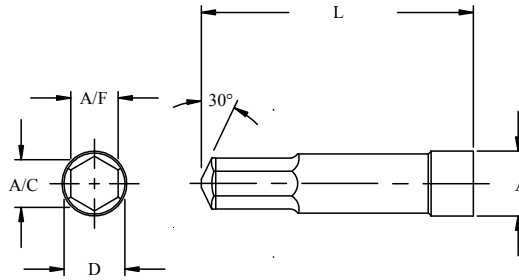
Straight Shank (Inch)

Screw Size	Pin Number	A/F inch/mm	A/C inch/mm	D inch/mm	L inch/mm
2	HSP-1-2	.079/2.01	.091/2.32	.126/3.19	1.020/25.91
3	HSP-1-3	.079/2.01	.091/2.32	.126/3.19	1.020/25.91
4	HSP-1-4	.095/2.42	.110/2.79	.126/3.19	1.020/25.91
5	HSP-1-5	.095/2.42	.110/2.79	.126/3.19	1.020/25.91
6	HSP-1-6	.111/2.82	.128/3.26	.141/3.57	1.020/25.91
8	HSP-1-8	.143/3.62	.165/4.18	.176/4.47	1.020/25.91
10	HSP-1-10	.159/4.03	.184/4.65	.194/4.93	1.020/25.91
1/4	HSP-1-25	.190/4.83	.219/5.58	.229/5.82	1.375/34.92
1/3	HSP-1-31	.253/6.43	.292/7.42	.302/7.67	1.375/34.92
3/8	HSP-1-37	.316/8.03	.365/9.27	.378/9.59	1.375/34.92
4/9	HSP-1-23	.379/9.63	.438/11.12	.450/11.43	1.500/38.10
1/2	HSP-1-50	.379/9.63	.438/11.12	.450/11.43	1.500/38.10
5/8	HSP-1-62	.505/12.83	.583/14.81	.600/15.24	2.500/63.50
3/4	HSP-1-75	.631/16.03	.729/18.51	.750/19.05	3.000/76.20

Straight Shank (DIN 912)

Screw Size	Pin Number	A/F inch/mm	A/C inch/mm	D inch/mm	L inch/mm
M3	HSP-1-M3	.102/2.58	.118/2.98	.197/4.99	1.417/36.00
M4	HSP-1-M4	.121/3.08	.140/3.56	.197/4.99	1.417/36.00
M5	HSP-1-M5	.161/4.10	.186/4.73	.236/5.99	1.417/36.00
M6	HSP-1-M6	.202/5.14	.233/5.94	.275/6.99	1.417/36.00
M8	HSP-1-M8	.242/6.14	.279/7.01	.295/7.49	1.417/36.00
M10	HSP-1-M10	.322/8.18	.372/9.45	.394/10.00	1.417/36.00
M12	HSP-1-M12	.401/10.18	.463/11.75	.472/11.99	1.417/36.00
M14	HSP-1-M14	.481/12.21	.555/14.10	.570/14.48	1.850/47.00
M16	HSP-1-M16	.560/14.21	.647/16.41	.669/16.98	1.850/47.00
M20	HSP-1-M20	.678/17.23	.783/19.90	.787/20.00	1.850/47.00
M24	HSP-1-M24	.758/19.23	.875/22.20	.945/24.00	1.850/47.00

1. Available in M2 at 62-64 RC, and M42 materials at 63-65 RC.
2. Special materials and designs also available per quote.
3. PVD Coatings available.



Button Shank (Inch)

Screw Size	Pin Number	A/F inch/mm	A inch/mm	D inch/mm	L inch/mm
2	HSP-2-2	.079/2.01	.187/4.75	.126/3.19	1.020/25.91
3	HSP-2-3	.079/2.01	.187/4.75	.126/3.19	1.020/25.91
4	HSP-2-4	.095/2.42	.187/4.75	.126/3.19	1.020/25.91
5	HSP-2-5	.952/2.42	.187/4.75	.126/3.19	1.020/25.91
6	HSP-2-6	.111/2.82	.218/5.54	.141/3.57	1.020/25.91
8	HSP-2-8	.143/3.62	.218/5.54	.176/4.47	1.020/25.91
10	HSP-2-10	.159/4.03	.250/6.35	.194/4.93	1.020/25.91
1/4	HSP-2-25	.190/4.83	.281/7.14	.229/5.82	1.375/34.92
1/3	HSP-2-31	.253/6.43	.343/8.71	.302/7.67	1.375/34.92
3/8	HSP-2-37	.316/8.03	.437/11.10	.378/9.59	1.375/34.92
4/9	HSP-2-23	.379/9.63	.500/12.70	.450/11.43	1.500/38.10
1/2	HSP-2-50	.379/9.63	.500/12.70	.450/11.43	1.500/38.10
5/8	HSP-2-62	.505/12.83	.656/16.66	.600/15.24	2.500/63.50
3/4	HSP-2-75	.631/16.03	.812/20.62	.750/19.05	3.000/76.20

Button Shank (DIN 912)

Screw Size	Pin Number	A/F inch/mm	A inch/mm	D inch/mm	L inch/mm
M3	HSP-2-M3	.102/2.58	.197/5.00	.138/3.50	1.024/26.00
M4	HSP-2-M4	.121/3.08	.217/5.51	.158/4.00	1.024/26.00
M5	HSP-2-M5	.161/4.10	.260/6.60	.203/5.15	1.810/30.00
M6	HSP-2-M6	.202/5.14	.312/7.93	.250/6.35	1.417/36.00
M8	HSP-2-M8	.242/6.14	.354/8.98	.294/7.50	1.417/36.00
M10	HSP-2-M10	.322/8.18	.445/11.30	.388/9.85	1.417/36.00
M12	HSP-2-M12	.401/10.18	.539/13.69	.478/12.15	1.575/40.00
M14	HSP-2-M14	.481/12.21	.630/16.00	.571/14.50	1.969/50.00
M16	HSP-2-M16	.560/14.21	.728/18.49	.661/16.80	2.362/60.00
M20	HSP-2-M20	.678/17.23	.945/24.00	.787/20.00	2.362/60.00
M24	HSP-2-M24	.758/19.23	1.102/28.00	.945/24.00	2.756/70.00

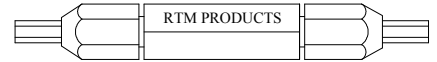
1. Available in M2 at 62-64 RC, and M42 materials at 63-65 RC.
2. Special materials and designs also available per quote.
3. PVD Coatings available.

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Go - No Go Plug Gage

Part Number	Hex Size
HSG-1/16-GN	1/16
HSG-5/64-GN	5/64
HSG-3/32-GN	3/32
HSG-7/64-GN	7/64
HSG-1/8-GN	1/8
HSG-9/64-GN	9/64
HSG-5/32-GN	5/32
HSG-3/16-GN	3/16
HSG-7/32-GN	7/32
HSG-1/4-GN	1/4
HSG-5/16-GN	5/16
HSG-5/8-GN	5/8
HSG-1/2-GN	1/2

Tamperproof	Hex Size
HSG-0.7-GN	0.7 mm
HSG-0.9-GN	0.9 mm
HSG-1.3-GN	1.3 mm
HSG-1.5-GN	1.5 mm
HSG-2-GN	2 mm
HSG-2.5-GN	2.5 mm
HSG-3-GN	3 mm
HSG-4-GN	4 mm
HSG-5-GN	5 mm
HSG-6-GN	6 mm
HSG-8-GN	8 mm
HSG-10-GN	10 mm
HSG-12-GN	12 mm



Penetration Gages

Part Number	Hex Size
HSG-1/16-PEN	1/16
HSG-5/64-PEN	5/64
HSG-3/32-PEN	3/32
HSG-7/64-PEN	7/64
HSG-1/8-PEN	1/8
HSG-9/64-PEN	9/64
HSG-5/32-PEN	5/32
HSG-3/16-PEN	3/16
HSG-7/32-PEN	7/32
HSG-1/4-PEN	1/4
HSG-5/16-PEN	5/16
HSG-5/8-PEN	5/8
HSG-1/2-PEN	1/2

Tamperproof	Hex Size
HSG-0.7-PEN	0.7 mm
HSG-0.9-PEN	0.9 mm
HSG-1.3-PEN	1.3 mm
HSG-1.5-PEN	1.5 mm
HSG-2-PEN	2 mm
HSG-2.5-PEN	2.5 mm
HSG-3-PEN	3 mm
HSG-4-PEN	4 mm
HSG-5-PEN	5 mm
HSG-6-PEN	6 mm
HSG-8-PEN	8 mm
HSG-10-PEN	10 mm
HSG-12-PEN	12 mm

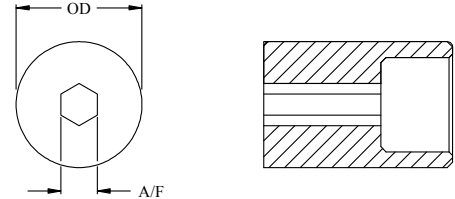


1. Gages can be supplied with either Inch, Metric or Digital dial indicators. Please specify when ordering.
2. Certification available at extra charge.

Hexagon Washer Tooling

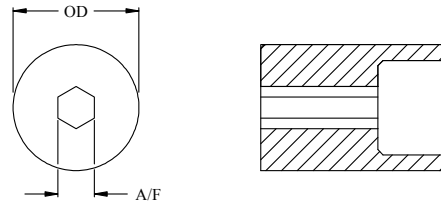
Inch

Screw Size	Part Number	Hex A/F	A/F inch/mm	OD inch/mm	Length inch/mm
2, 3	HI-1/8	1/8	.121/3.07	.552/14.02	.750/19.05
4, 5	HI-3/16	3/16	.182/4.62	.552/14.02	.750/19.05
4, 5	HI-3/16-1	3/16	.182/4.62	.740/18.80	.750/19.05
6, 8	HI-1/4	1/4	.245/6.22	.552/14.02	.750/19.05
6, 8	HI-1/4-1	1/4	.245/6.22	.740/18.80	.750/19.05
10, 12	HI-5/16	5/16	.306/7.77	.740/18.80	.750/19.05
10, 12	HI-5/16-1	5/16	.306/7.77	.552/14.02	.750/19.05
1/4	HI-3/8	3/8	.368/9.35	.990/25.15	1.000/25.40
1/4	HI-3/8-1	3/8	.368/9.35	.740/18.80	.750/19.05
1/4	HI-7/16	7/16	.429/10.90	.990/25.15	1.000/25.40
5/16	HI-1/2	1/2	.492/12.50	.990/25.15	1.000/25.40
5/16	HI-1/2-1	1/2	.492/12.50	1.240/31.50	1.000/25.40
3/8	HI-9/16	9/16	.553/14.05	1.240/31.50	1.000/25.40



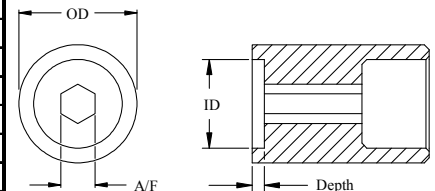
Metric

Screw Size	Part Number	A/F inch/mm	OD inch/mm	Length inch/mm
4	MHI-4	.153/3.89	.552/14.02	.750/19.05
5	MHI-5	.191/4.85	.552/14.02	.750/19.05
5.5	MHI-5.5	.211/5.36	.552/14.02	.750/19.05
6	MHI-6	.213/5.87	.552/14.02	.750/19.05
7	MHI-7	.269/6.83	.740/18.80	.750/19.05
7	MHI-7-1	.269/6.83	.552/14.02	.750/19.05
8	MHI-8	.309/7.85	.740/18.80	.750/19.05
10	MHI-10	.387/9.83	.740/18.80	.750/19.05
10	MHI-10-1	.387/9.83	.990/25.15	1.000/25.40
12	MHI-12	.465/11.81	.990/25.15	1.000/25.40
13	MHI-13	.504/12.80	.990/25.15	1.000/25.40
13	MHI-13-1	.504/12.80	1.240/31.50	1.000/25.40
15	MHI-15	.583/14.80	1.240/31.50	1.000/25.40



Confined Head

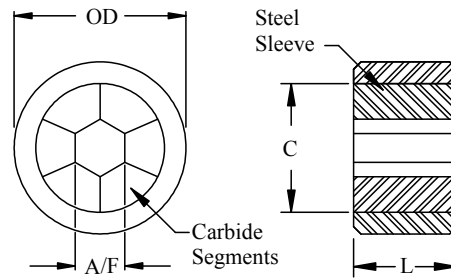
Screw Size	Part Number	Hex A/F	A/F inch/mm	OD inch/mm	Length inch/mm	ID inch/mm	Depth inch/mm
4	CHI-3/16	3/16	.182/4.62	.552/14.02	.750/19.05	.234/5.94	.009/.229
5	CHI-3/16-1	3/16	.182/4.62	.740/18.80	.750/19.05	.250/6.35	.013/.330
6	CHI-1/4	1/4	.245/6.22	.552/14.02	.750/19.05	.315/8.00	.016/.406
6	CHI-1/4-1	1/4	.245/6.22	.740/18.80	.750/19.05	.315/8.00	.013/.330
8	CHI-1/4-2	1/4	.245/6.22	.552/14.02	.750/19.05	.315/8.00	.017/.432
8	CHI-1/4-3	1/4	.245/6.22	.740/18.80	.750/19.05	.315/8.00	.017/.432
10	CHI-5/16	5/16	.306/7.77	.740/18.80	.750/19.05	.400/10.16	.017/.432
10	CHI-5/16-1	5/16	.306/7.77	.552/14.02	.750/19.05	.400/10.16	.017/.432
12	CHI-5/16-2	5/16	.306/7.77	.740/18.80	.750/19.05	.415/10.54	.020/.508
1/4	CHI-3/8	3/8	.368/9.35	.990/25.15	1.00/25.40	.500/12.70	.028/.711
1/3	CHI-1/2	1/2	.492/12.50	.990/25.15	1.00/25.40	.650/16.51	.030/.762
1/3	CHI-1/2-1	1/2	.492/12.50	1.240/31.50	1.00/25.40	.650/16.51	.030/.762
3/8	CHI-9/16	5/16	.554/14.07	1.240/31.50	1.00/25.40	.750/19.05	.032/.813



1. M2 Material at 59-61RC

2. Special materials available upon request

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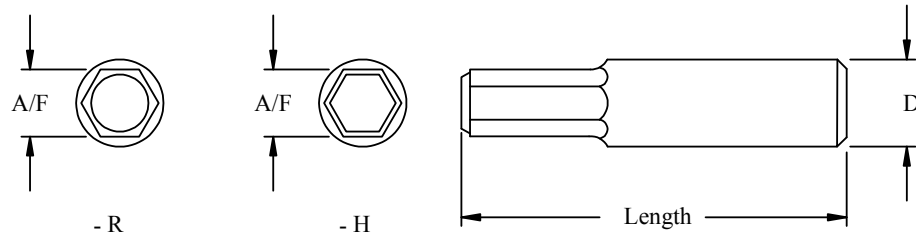
Inch

Screw Size	Part Number	Hex A/F	A / F inch/mm	OD inch/mm	C inch/mm	L inch/mm
4, 5	SCHI-3/16	3/16	.183/4.65	.625/15.88	.500/12.70	.313/7.95
6, 8	SCHI-1/4	1/4	.246/.247	.742/18.85	.500/12.70	.438/11.13
10, 12	SCHI-5/16	5/16	.307/7.80	.742/18.85	.500/12.70	.438/11.13
1/4	SCHI-3/8	3/8	.369/9.37	.993/25.22	.750/19.05	.438/11.13
1/4	SCHI-7/16	7/16	.431/10.95	.993/25.22	.750/19.05	.500/12.70
5/16	SCHI-1/2	1/2	.494/12.55	1.244/31.60	1.000/25.40	.500/12.70
3/8	SCHI-9/16	9/16	.555/14.10	1.244/31.60	1.000/25.40	.500/12.70
7/16	SCHI-5/8	5/8	.613/15.57	1.244/31.60	1.000/25.40	.500/12.70
1/2	SCHI-3/4	3/4	.738/18.75	1.495/37.97	1.250/31.75	.750/19.05

Metric

Screw Size	Part Number	A / F inch/mm	OD inch/mm	C inch/mm	L inch/mm
5	SCMHI-5	.193/4.85	.625/15.88	.500/12.70	.313/7.95
5.5	SCMHI-5.5	.213/5.36	.742/18.85	.500/12.70	.438/11.13
6	SCMHI-6	.232/5.87	.742/18.85	.500/12.70	.438/11.13
7	SCMHI-7	.270/6.83	.742/18.85	.500/12.70	.438/11.13
8	SCMHI-8	.310/7.85	.742/18.85	.500/12.70	.438/11.13
10	SCMHI-10	.388/9.83	.993/25.22	.750/19.05	.438/11.13
12	SCMHI-12	.467/11.81	.993/25.22	.750/19.05	.500/12.70
13	SCMHI-13	.505/12.80	1.244/31.60	1.000/25.40	.500/12.70
15	SCMHI-15	.584/14.83	1.244/31.60	1.000/25.40	.500/12.70
17	SCMHI-17	.663/16.84	1.495/37.97	1.125/28.58	.625/15.88

1. D70 Carbide for segments.
2. Specials available for quote.



Inch

Screw Size	"R" Style	"H" Style	Hex A/F	A/F inch/mm	D inch/mm	Length inch/mm
2, 3	HP-1/8-R	HP-1/8-H	1/8	.119/3.02	.313/7.94	1.250/31.75
4, 5	HP-3/16-R	HP-3/16-H	3/16	.179/4.55	.375/9.53	1.250/31.75
4, 5	HP-3/16-1-R	HP-3/16-1-H	3/16	.179/4.55	.313/7.94	1.250/31.75
6, 8	HP-1/4-R	HP-1/4-H	1/4	.242/6.15	.375/9.53	1.250/31.75
6, 8	HP-1/4-1-R	HP-1/4-1-H	1/4	.242/6.15	.313/7.94	1.250/31.75
10, 12	HP-5/16-R	HP-5/16-H	5/16	.302/7.67	.375/9.53	1.250/31.75
1/4	HP-3/8-R	HP-3/8-H	3/8	.364/9.25	.500/12.70	2.000/50.80
5/16	HP-7/16-R	HP-7/16-H	1/2	.425/10.80	.500/12.70	2.250/57.15
5/16	HP-1/2-R	HP-1/2-H	1/2	.487/12.37	.625/15.88	2.250/57.15
3/8	HP-9/16-R	HP-9/16-H	9/16	.548/13.92	.625/15.88	2.250/57.15

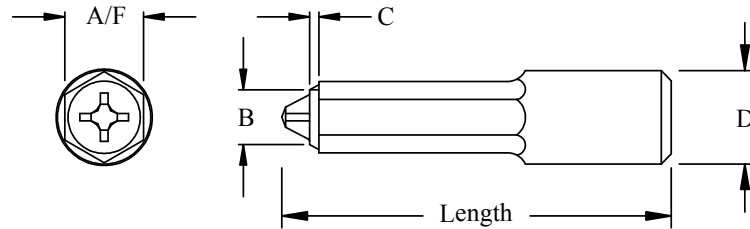
Metric

Screw Size	"R" Style	"H" Style	Hex A/F	A/F inch/mm	D inch/mm	Length inch/mm
3mm	MHP-4-R	MHP-4-H	4mm	.150/3.81	.312/7.92	1.250/31.75
3.5mm	MHP-5-R	MHP-5-H	5mm	.189/4.80	.312/7.92	1.250/31.75
4mm	MHP-5.5-R	MHP-5.5-H	5.5mm	.209/5.31	.312/7.92	1.250/31.75
	MHP-6-R	MHP-6-H	6mm	.226/5.74	.312/7.92	1.250/31.75
5mm	MHP-7-R	MHP-7-H	7mm	.265/6.73	.375/9.53	1.250/31.75
	MHP-7-1-R	MHP-7-1-H	7mm	.265/6.73	.312/7.92	1.250/31.75
6mm	MHP-8-R	MHP-8-H	8mm	.305/7.75	.375/9.53	2.000/50.80
8mm	MHP-10-R	MHP-10-H	10mm	.383/9.73	.500/12.70	2.000/50.80
10mm	MHP-12-R	MHP-12-H	12mm	.461/11.71	.625/15.88	2.250/57.15
10mm	MHP-13-R	MHP-13-H	13mm	.499/12.67	.625/15.88	2.250/57.15
12mm	MHP-15-R	MHP-15-H	15mm	.578/14.68	.750/19.05	2.250/57.15

1. M2 Material at RC 59-61

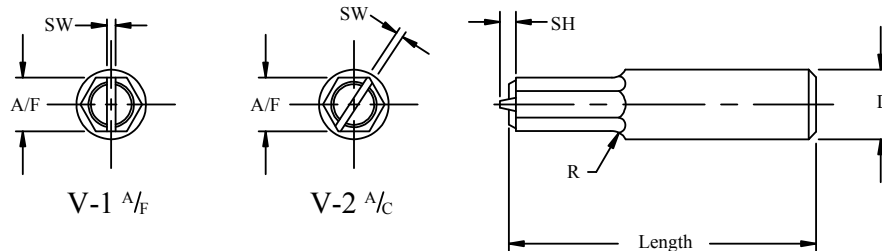
2. Pins available with Raised or Depressed headmarking per request.

3. PVD coating coatings available.



Phillips Indented Hexagon Pins

Screw Size	Part Number	Recess Type	A	B	C	D	Length	Recess Penetration
6	PHP-1/4-3P20-1	3P20-1	.242/6.15	.210/5.33	.012/.30	.313/7.94	1.250/31.75	.077/.089
8	PHP-1/4-3P20-2	3P20-2	.242/6.15	.210/5.33	.018/.46	.375/9.53	1.250/31.75	.103/.115
10	PHP-5/16-3P20-6	3P20-6	.302/7.67	.270/6.86	.020/.51	.375/9.53	1.250/31.75	.115/.127
1/4	PHP-3/8-3P30-3	3P30-3	.364/9.25	.320/8.13	.030/.76	.500/12.70	1.250/31.75	.174/.186
1/4	PHP-7/16-3P30-3	3P30-3	.425/10.80	.381/9.68	.030/.76	.500/12.70	1.250/31.75	.174/.186



Combination/Slotted

Screw Size	Part Number	Hex A/F	A/F	D	Length	SW	SH
4	HP-3/16-SS	3/16	.179/4.55	.375/9.53	1.25/31.75	.019/.48	.034/.086
6	HP-1/4-SS	1/4	.242/6.15	.375/9.53	1.25/31.75	.025/.64	.043/1.09
8	HP-1/4-1-SS	1/4	.242/6.15	.313/7.94	1.25/31.75	.045/1.14	.049/1.24
10	HP-5/16-SS	5/16	.302/7.67	.375/9.53	1.25/31.75	.036/.91	.054/1.37
1/4	HP-3/8-SS	3/8	.364/9.25	.500/12.70	2.00/50.80	.053/1.35	.068/1.73
1/4	HP-7/16-SS	7/16	.425/10.80	.500/12.70	2.25/57.15	.053/1.35	.068/1.73
5/16	HP-1/2-SS	1/2	.487/12.37	.625/15.88	2.25/57.15	.051/1.30	.077/1.96
3/8	HP-9/16-SS	9/16	.548/13.92	.625/15.88	2.25/57.15	.084/2.13	.077/1.96

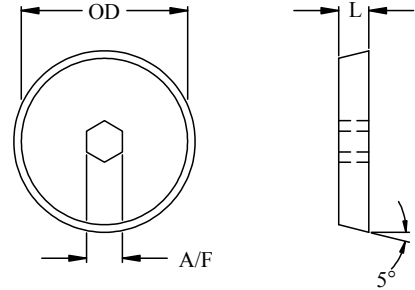
1. M2 Material at RC 60-62.
2. Pins available with Raised or Depressed headmarking per request.
3. PVD coating coatings available.

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Wafer Tooling

Inch

Screw Size	Part Number	A/F inch/mm	L inch/mm	OD inch/mm
2	HWI-2	.120/3.05	.040/1.02	.445/11.30
3	HWI-3	.182/4.62	.044/1.12	.445/11.30
4	HWI-4	.182/4.62	.049/1.24	.445/11.30
5	HWI-5	.182/4.62	.058/1.47	.445/11.30
6	HWI-6	.245/6.22	.067/1.70	.445/11.30
6	HWI-6-1	.245/6.22	.080/2.03	.445/11.30
6	HWI-6-2	.245/6.22	.067/1.70	.671/17.04
6	HWI-6-3	.245/6.22	.080/2.03	.671/17.04
7	HWI-7	.245/6.22	.080/2.03	.671/17.04
8	HWI-8	.245/6.22	.096/2.44	.671/17.04
10	HWI-10	.306/7.77	.106/2.69	.671/17.04
12	HWI-12	.306/7.77	.139/3.53	.671/17.04
14 & 1/4	HWI-14	.368/9.35	.172/4.37	.671/17.04
14 & 1/4	HWI-14-1	.430/10.92	.172/4.37	.671/17.04
14 & 1/4	HWI-14-2	.430/10.92	.172/4.37	.875/22.23
14 & 1/4	HWI-14-3	.368/9.35	.172/4.37	.875/22.23
5/16	HWI-31	.490/12.45	.207/5.26	.875/22.23
3/8	HWI-37	.554/14.07	.270/6.86	.875/22.23



Metric (IFI 502 & 513)

Screw Size	Part Number	A/F inch/mm	L inch/mm	OD inch/mm
3.2	HWM-3.2	.120/3.05	.040/1.02	.445/11.30
4	HWM-4	.151/3.84	.044/1.12	.445/11.30
5	HWM-5	.191/4.85	.050/1.27	.445/11.30
5.5	HWM-5.5	.211/5.36	.080/2.03	.445/11.30
7	HWM-7	.270/6.86	.096/2.44	.671/17.04
8	HWM-8	.308/7.82	.105/2.67	.671/17.04
8	HWM-8-1	.308/7.82	.139/3.53	.671/17.04
10	HWM-10	.387/9.83	.172/4.37	.875/22.23
13	HWM-13	.503/12.78	.208/5.28	.875/22.23

Metric (DIN 558)

Screw Size	Part Number	A/F inch/mm	L inch/mm	OD inch/mm
4	HWM-4-558	.267/6.78	.100/2.54	.671/17.04
5	HWM-5-558	.303/7.70	.128/3.25	.671/17.04
6	HWM-6-558	.383/9.73	.147/3.73	.671/17.04
8	HWM-8-558	.502/12.75	.206/5.23	.875/22.23
10	HWM-10-558	.658/16.71	.265/6.73	1.125/28.58
12	HWM-12-558	.749/19.02	.305/7.75	1.250/31.75

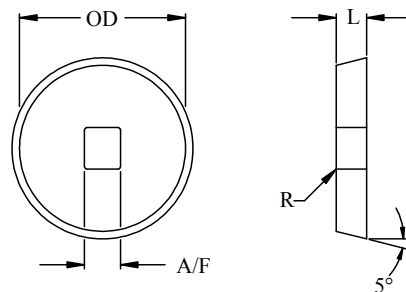
1. M-2 Material at 58-60RC.
2. Special materials available upon request.
3. PVD coatings available.

Square Wafers (Inch)

Screw Size	Part Number	A/F inch/mm	L inch/mm	OD inch/mm
10	SQWI-10	.190/4.83	.115/2.92	.671/17.04
1/4	SQWI-14	.249/6.32	.146/3.71	.671/17.04
5/16	SQWI-31	.310/7.87	.177/4.50	.875/22.23
3/8	SQWI-37	.380/9.65	.290/7.37	.875/22.23

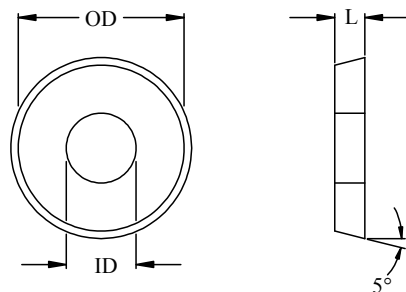
Square Wafers Metric (DIN 603)

Screw Size	Part Number	A/F inch/mm	L inch/mm	OD inch/mm
M5	SQWM-M5	.193/4.90	.138/3.51	.875/22.23
M6	SQWM-M6	.232/5.89	.158/4.01	.875/22.23
M8	SQWM-M8	.310/7.87	.197/5.00	.875/22.23
M10	SQWM-M10	.380/9.65	.236/5.99	1.125/28.58
M12	SQWM-M12	.457/11.61	.315/8.00	1.250/31.75



Fillister Wafers

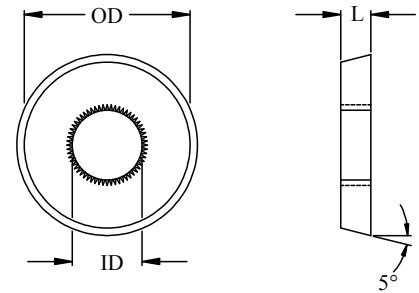
Screw Size	Part Number	ID inch/mm	L inch/mm	OD inch/mm
1	FWI-1	.111/2.82	.042/1.07	.445/11.30
2	FWI-2	.132/3.35	.048/1.22	.445/11.30
3	FWI-3	.153/3.89	.057/1.45	.445/11.30
4	FWI-4	.174/4.42	.065/1.65	.445/11.30
4	FWI-4-1	.174/4.42	.065/1.65	.671/17.04
5	FWI-5	.196/4.98	.074/1.88	.671/17.04
5	FWI-5-1	.196/4.98	.074/1.88	.671/17.04
6	FWI-6	.217/5.51	.082/2.08	.445/11.30
6	FWI-6-1	.217/5.51	.082/2.08	.671/17.04
7	FWI-7	.238/6.05	.090/2.29	.671/17.04
8	FWI-8	.260/6.60	.098/2.49	.671/17.04
10	FWI-10	.302/7.67	.114/2.90	.671/17.04
10	FWI-10-1	.302/7.67	.114/2.90	.875/22.23
12	FWI-12	.345/8.76	.128/3.25	.671/17.04
1/4	FWI-14	.400/10.16	.149/3.78	.671/17.04
1/4	FWI-14-1	.400/10.16	.149/3.78	.875/22.23
5/16	FWI-31	.504/12.80	.186/4.72	.875/22.23
3/8	FWI-37	.606/15.39	.227/5.77	.875/22.23



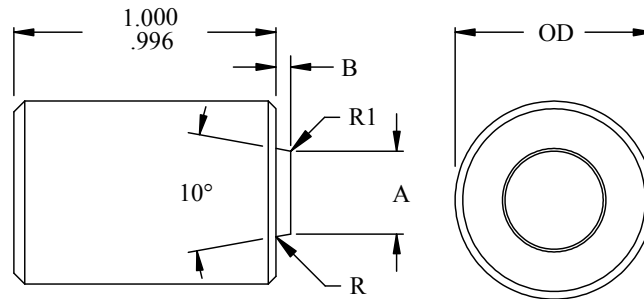
1. M-2 Material at 58-60 RC.
2. Special materials available upon request.
3. PVD Coatings available.

Inch

Screw Size	Part Number	TPI	ID inch/mm	L inch/mm	OD inch/mm
4	SW-4	42	.183/4.65	.102/2.59	.562/14.27
5	SW-5	48	.205/5.21	.113/2.87	.562/14.27
6	SW-6	54	.226/5.74	.125/3.18	.562/14.27
8	SW-8	58	.270/6.86	.147/3.73	.562/14.27
10	SW-10	64	.312/7.92	.170/4.32	.562/14.27
10	SW-10-1	64	.312/7.92	.170/4.32	.875/22.23
1/4	SW-14	70	.375/9.53	.225/5.72	.875/22.23
1/4	SW-14-1	70	.375/9.53	.225/5.72	1.000/25.40
5/16	SW-31	78	.469/11.91	.282/7.16	1.000/25.40
3/8	SW-37	84	.562/14.27	.340/8.64	1.000/25.40
7/16	SW-43	88	.656/16.66	.393/9.98	1.252/31.80
1/2	SW-50	94	.750/19.05	.450/11.43	1.252/31.80



1. M-2 Material at 58-60RC.
2. Special materials available upon request.
3. PVD Coatings available.

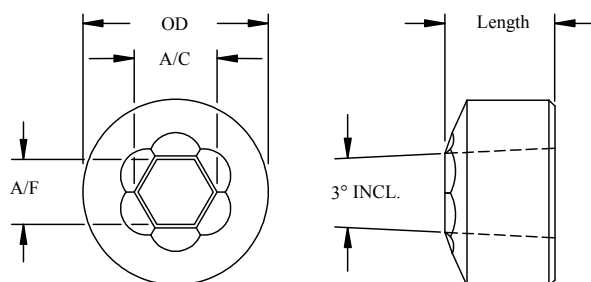


Indented Hexagon Punch

Screw Size	Part Number	A inch/mm	B inch/mm	OD inch/mm	R inch/mm	R 1 inch/mm
4 & 5	IHP-4	.150/3.81	.025/.64	.563/14.29	.004/.10	.010/.25
6	IHP-6	.220/5.59	.035/.89	.563/14.29	.006/.15	.010/.25
7 & 8	IHP-8	.220/5.59	.045/1.14	.563/14.29	.008/.20	.015/.38
10	IHP-10	.280/7.11	.045/1.14	.563/14.29	.010/.25	.015/.38
12	IHP-12	.280/7.11	.060/1.52	.563/14.29	.012/.30	.020/.51
14 & 1/4	IHP-14	.338/8.59	.070/1.78	.875/22.23	.014/.36	.025/.64
1/4	IHP-1/4	.800/20.32	.070/1.78	.875/22.23	.014/.36	.025/.64
5/16	IHP-5/16	.452/11.48	.085/2.16	.875/22.23	.017/.43	.035/.89
3/8	IHP-3/8	.505/12.83	.105/2.67	1.000/25.40	.021/.53	.045/1.14

1. M2 Material at RC 59-61.
2. Pins available with Raised or Depressed headmarking per request.
3. PVD coating coatings available.

Trimming Dies



Part Number	Hex A/F inch	Hex A/F mm	Hex A/C Min inch/mm	OD inch/mm	Length inch/mm
TDH-3-12	.181/.183	4.597/4.648	.206/5.23	1.250/31.75	.750/19.05
TDH-4-12	.244/.246	6.20/6.25	.278/7.06	1.250/31.75	.750/19.05
TDH-5-12	.305/.307	7.745/7.80	.347/8.81	1.250/31.75	.750/19.05
TDH-6-12	.367/.369	9.32/9.37	.416/10.57	1.250/31.75	.750/19.05
TDH-7-12	.428/.430	10.88/10.92	.488/12.40	1.250/31.75	.750/19.05
TDH-8-12	.489/.491	12.42/12.47	.557/14.15	1.250/31.75	.750/19.05
TDH-9-12	.551/.553	14.00/14.05	.628/15.95	1.250/31.75	.750/19.05
TDH-10-12	.612/.614	15.54/15.60	.698/17.73	1.250/31.75	.750/19.05

Part Number	Hex A/F inch	Hex A/F mm	Hex A/C Min inch/mm	OD inch/mm	Length inch/mm
TDH-3-14	.181/.183	4.60/4.65	.206/5.23	1.437/36.50	.940/23.88
TDH-4-14	.244/.246	6.20/6.25	.278/7.06	1.437/36.50	.940/23.88
TDH-5-14	.305/.307	7.75/7.80	.347/8.81	1.437/36.50	.940/23.88
TDH-6-14	.367/.369	9.32/9.37	.416/10.57	1.437/36.50	.940/23.88
TDH-7-14	.428/.430	10.88/10.92	.488/12.40	1.437/36.50	.940/23.88
TDH-8-14	.489/.491	12.42/12.47	.557/14.15	1.437/36.50	.940/23.88
TDH-9-14	.551/.553	14.00/14.05	.628/15.95	1.437/36.50	.940/23.88
TDH-10-14	.612/.614	15.54/15.60	.698/17.73	1.437/36.50	.940/23.88
TDH-11-14	.674/.676	17.12/17.17	.768/19.51	1.437/36.50	.940/23.88
TDH-12-14	.736/.738	18.69/18.75	.840/21.34	1.437/36.50	.940/23.88

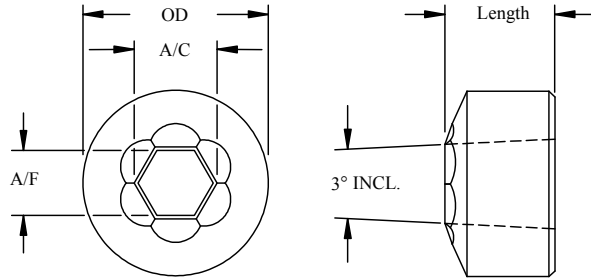
Part Number	Hex A/F inch	Hex A/F mm	Hex A/C Min inch/mm	OD inch/mm	Length inch/mm
TDH-10-17	.612/.614	15.55/15.60	.698/17.73	1.750/44.45	.940/23.88
TDH-11-17	.674/.676	17.12/17.17	.768/19.51	1.750/44.45	.940/23.88
TDH-12-17	.736/.738	18.69/18.75	.840/21.34	1.750/44.45	.940/23.88
TDH-13-17	.798/.800	20.27/20.32	.910/23.11	1.750/44.45	.940/23.88
TDH-14-17	.860/.862	21.84/21.89	.969/24.61	1.750/44.45	.940/23.88

1. Trim die material:

- M2 at RC 62-64
- M4 at RC 62-64

2. Special shapes (Round, Square, 12 Point, etc.) also available per quote.

3. PVD and CVD coatings available.



Part Number	Hex A/F inch	Hex A/F mm	Hex A/C Min inch/mm	OD inch/mm	Length inch/mm
TDH-7MM-12	.268/.270	6.81/6.86	.300/7.62	1.250/31.75	.750/19.05
TDH-8MM-12	.307/.309	7.80/7.85	.346/8.79	1.250/31.75	.750/19.05
TDH-10MM-12	.386/.388	9.80/9.85	.435/11.05	1.250/31.75	.750/19.05
TDH-11MM-12	.426/.428	10.82/10.87	.478/12.14	1.250/31.75	.750/19.05
TDH-12MM-12	.465/.467	11.81/11.86	.521/13.23	1.250/31.75	.750/19.05
TDH-13MM-12	.502/.504	12.75/12.80	.566/14.38	1.250/31.75	.750/19.05

Part Number	Hex A/F inch	Hex A/F mm	Hex A/C Min inch/mm	OD inch/mm	Length inch/mm
TDH-5MM-14	.190/.192	4.83/4.88	.210/5.33	1.437/36.50	.940/23.88
TDH-6MM-14	.230/.232	5.84/5.89	.256/6.50	1.437/36.50	.940/23.88
TDH-7MM-14	.268/.270	6.81/6.86	.300/7.62	1.437/36.50	.940/23.88
TDH-8MM-14	.307/.309	7.80/7.85	.346/8.79	1.437/36.50	.940/23.88
TDH-10MM-14	.386/.388	9.80/9.85	.435/11.05	1.437/36.50	.940/23.88
TDH-11MM-14	.426/.428	10.82/10.87	.478/12.14	1.437/36.50	.940/23.88
TDH-12MM-14	.465/.467	11.81/11.86	.521/13.23	1.437/36.50	.940/23.88
TDH-13MM-14	.502/.504	12.75/12.80	.566/14.38	1.437/36.50	.940/23.88
TDH-15MM-14	.583/.585	14.81/14.86	.659/16.74	1.437/36.50	.940/23.88
TDH-17MM-14	.661/.663	16.79/16.84	.749/19.02	1.437/36.50	.940/23.88
TDH-19MM-14	.735/.737	18.67/18.72	.835/21.21	1.437/36.50	.940/23.88

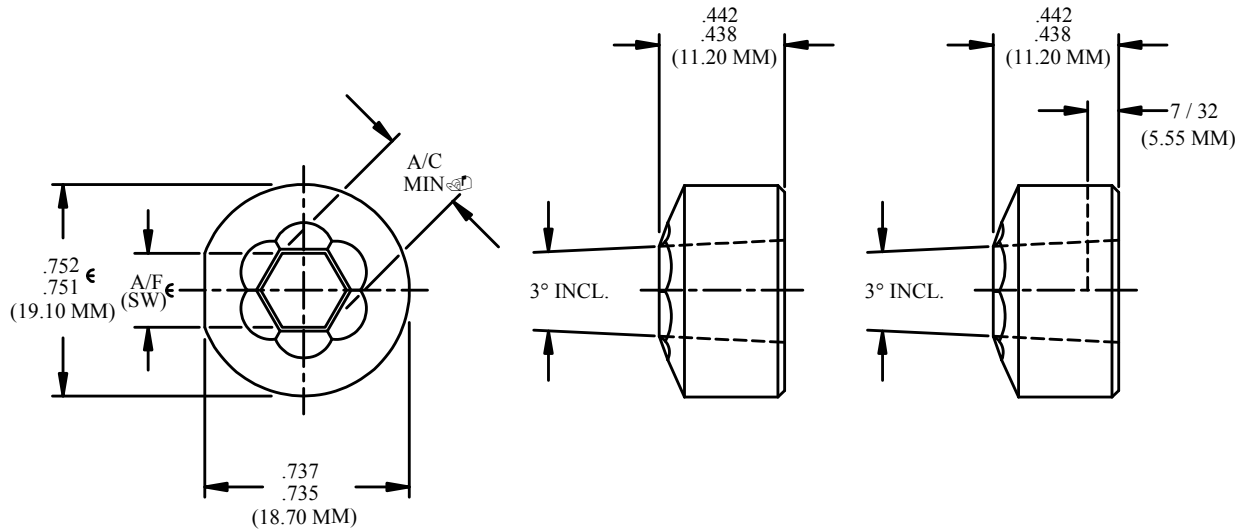
Part Number	Hex A/F inch	Hex A/F mm	Hex A/C Min inch/mm	OD inch/mm	Length inch/mm
TDH-15MM-17	.583/.585	14.81/14.86	.659/16.74	1.750/44.45	.940/23.88
TDH-17MM-17	.661/.663	16.79/16.84	.749/19.02	1.750/44.45	.940/23.88
TDH-19MM-17	.735/.737	18.67/18.72	.835/21.21	1.750/44.45	.940/23.88

1. Trim die material:

- M2 at RC 62-64
- M4 at RC 62-64

2. Special shapes (Round, Square, 12 Point, etc.) also available per quote.

3. PVD and CVD coatings available.



3/16 Boltmaker - Inch

Part Number	Nominal Hex A/F	Hex A/F (inch)	Hex A/F (mm)	Hex A/C (inch)	Hex A/C (mm)	Short Bolts
BM-3-4	1/4	.244/.246	6.20/6.25	.279	7.08	BM-3-4-N
BM-3-5	5/16	.305/.307	7.75/7.80	.348	8.85	BM-3-5-N
BM-3-6	3/8	.366/.368	9.30/9.35	.417	10.61	BM-3-6-N
BM-3-7	7/16	.428/.430	10.87/10.92	.488	12.40	BM-3-7-N
BM-3-8	1/2	.489/.491	12.42/12.47	.557	14.17	BM-3-8-N

3/16 Boltmaker - Metric

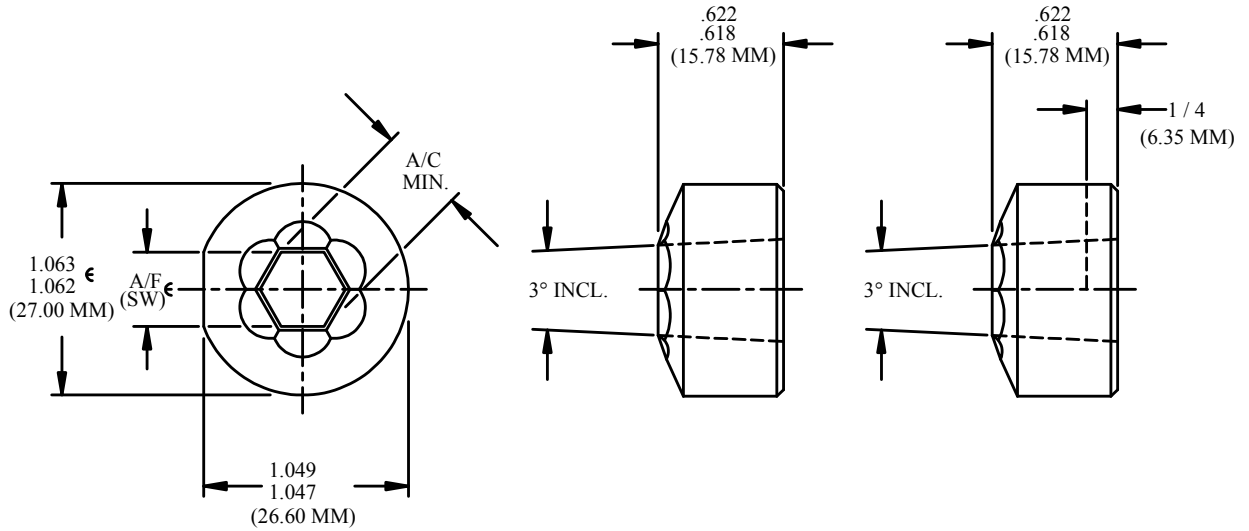
Part Number	Nominal Hex A/F	Hex A/F (inch)	Hex A/F (mm)	Hex A/C (inch)	Hex A/C (mm)	Short Bolts
BM-3-5MM	5MM	.190/.192	4.82/4.87	.217	5.52	BM-3-5-MM-N
BM-3-5.5MM	5.5MM	.210/.212	5.33/5.38	.240	6.10	BM-3-5.5MM-N
BM-3-6MM	6MM	.230/.232	5.84/5.89	.263	6.68	BM-3-6MM-N
BM-3-7MM	7MM	.268/.270	6.81/6.86	.306	7.77	BM-3-7MM-N
BM-3-8MM	8MM	.307/.309	7.80/7.85	.350	8.90	BM-3-8MM-N
BM-3-9-MM	9MM	.347/.349	8.81/8.86	.396	10.06	BM-3-9MM-N
BM-3-10MM	10MM	.386/.388	9.80/9.85	.440	11.19	BM-3-10MM-N

1. Trim die material:

- M2 at RC 62-64
- M4 at RC 62-64

2. Special shapes (Round, Square, 12 Point, etc.) also available per quote.

3. PVD and CVD coatings available.



1/4 Boltmaker - Inch

Part Number	Nominal A/F	Hex A/F (inch)	Hex A/F (mm)	Hex A/C (inch)	Hex A/C (mm)	Short Bolts
BM-4-4	1/4	.244/.246	6.20/6.25	.279	7.08	BM-4-4-N
BM-4-5	5/16	.305/.307	7.75/7.80	.348	8.85	BM-4-5-N
BM-4-6	3/8	.366/.368	9.30/9.35	.417	10.61	BM-4-6-N
BM-4-7	7/16	.428/.430	10.87/10.92	.488	12.40	BM-4-7-N
BM-4-8	1/2	.489/.491	12.42/12.47	.557	14.17	BM-4-8-N

1/4 Boltmaker - Metric

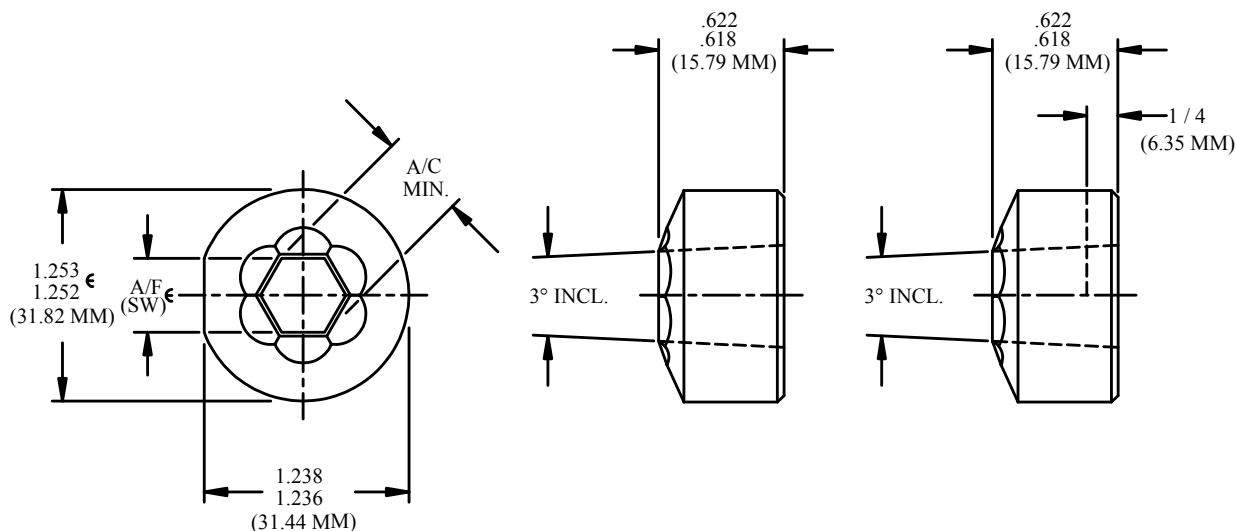
Part Number	Nominal A/F	Hex A/F (inch)	Hex A/F (mm)	Hex A/C (inch)	Hex A/C (mm)	Short Bolts
BM-4-7MM	7MM	.268/.270	6.80/6.85	.306	7.77	BM-4-7MM-N
BM-4-8MM	8MM	.307/.309	7.80/7.85	.350	8.90	BM-4-8MM-N
BM-4-10MM	10MM	.386/.388	9.80/9.85	.440	11.19	BM-4-10MM-N
BM-4-11MM	11MM	.424/.426	10.78/10.82	.483	12.29	BM-4-11MM-N
BM-4-12MM	12MM	.463/.465	11.76/11.81	.528	13.41	BM-4-12MM-N
BM-4-13MM	13MM	.502/.504	12.75/12.80	.572	14.54	BM-4-13MM-N

1. Trim die material:

- M2 at RC 62-64
- M4 at RC 62-64

2. Special shapes (Round, Square, 12 Point, etc.) also available per quote.

3. PVD and CVD coatings available.



5/16 Boltmaker - Inch

Part Number	Nominal H A/F	Hex A/F (inch)	Hex A/F (mm)	Hex A/C (inch)	Hex A/C (mm)	Short Bolts
BM-5-7	7/16	.428/.430	10.87/10.92	.488	12.40	BM-5-7-N
BM-5-8	1/2	.489/.491	12.42/12.47	.557	14.17	BM-5-8-N
BM-5-9	9/16	.551/.553	13.99/14.05	.628	15.96	BM-5-9-N

5/16 Boltmaker - Metric

Part Number	Nominal H A/F	Hex A/F (inch)	Hex A/F (mm)	Hex A/C (inch)	Hex A/C (mm)	Short Bolts
BM-5-7MM	7MM	.268/.270	6.80/6.85	.306	7.77	BM-5-7MM-N
BM-5-8MM	8MM	.307/.309	7.80/7.85	.350	8.90	BM-5-8MM-N
BM-5-10MM	10MM	.386/.388	9.80/9.85	.440	11.19	BM-5-10MM-N
BM-5-11MM	11MM	.424/.426	10.78/10.82	.483	12.29	BM-5-11MM-N
BM-5-12MM	12MM	.463/.465	11.76/11.81	.528	13.41	BM-5-12MM-N
BM-5-13MM	13MM	.502/.504	12.75/12.80	.572	14.54	BM-5-13MM-N
BM-5-14MM	14MM	.543/.545	13.79/13.84	.619	15.73	BM-5-14MM-N

1. Trim die material:

- M2 at RC 62-64
- M4 at RC 62-64

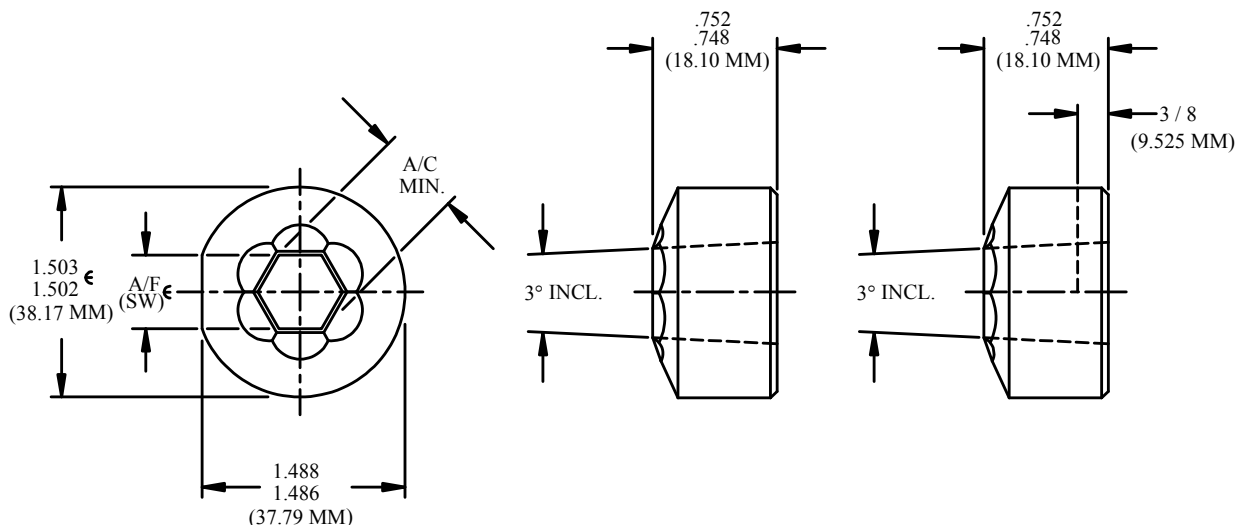
2. Special shapes (Round, Square, 12 Point, etc.) also available per quote.

3. PVD and CVD coatings available.

RTM PRODUCTS, INC.

13120 Arctic Circle, Santa Fe Springs, CA 90670 USA

Phone: 562-926-2400 Fax: 562-926-2441 www.rtmproducts.com



3/8 Boltmaker - Inch

Part Number	Nominal A/F	Hex A/F (inch)	Hex A/F (mm)	Hex A/C (inch)	Hex A/C (mm)	Short Bolts
BM-6-8	1/2	.489/.491	12.42/12.47	.557	14.17	BM-6-8-N
BM-6-9	9/16	.551/.553	13.99/14.05	.628	15.96	BM-6-9-N

3/8 Boltmaker - Metric

Part Number	Nominal A/F	Hex A/F (inch)	Hex A/F (mm)	Hex A/C (inch)	Hex A/C (mm)	Short Bolts
BM-6-10MM	5/8	.612/.614	15.54/15.59	.698	17.72	BM-6-10-N
BM-6-13MM	13MM	.502/.504	12.75/12.80	.572	14.54	BM-6-13MM-N
BM-6-14MM	14MM	.543/.545	13.79/13.84	.619	15.73	BM-6-14MM-N
BM-6-15MM	15MM	.583/.585	14.80/14.85	.664	16.88	BM-6-15MM-N
BM-6-16MM	16MM	.620/.622	15.75/15.80	.707	17.95	BM-6-16MM-N
BM-6-17MM	17MM	.661/.663	16.79/16.84	.753	19.14	BM-6-17MM-N

1. Trim die material:

- M2 at RC 62-64
- M4 at RC 62-64

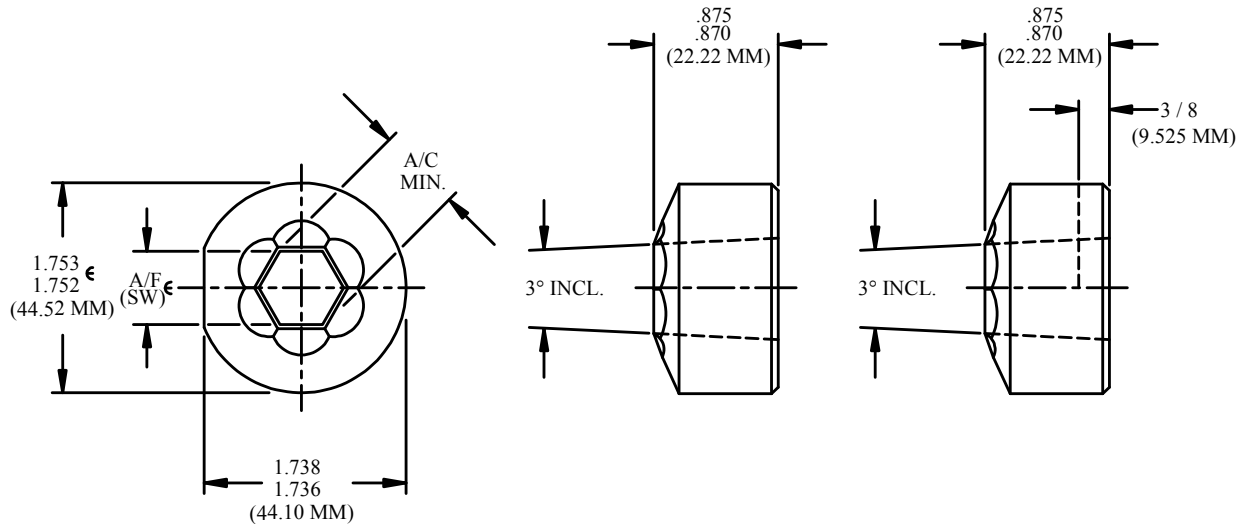
2. Special shapes (Round, Square, 12 Point, etc.) also available per quote.

3. PVD and CVD coatings available.

RTM PRODUCTS, INC.

13120 Arctic Circle, Santa Fe Springs, CA 90670 USA

Phone: 562-926-2400 Fax: 562-926-2441 www.rtmproducts.com



1/2 Boltmaker - Inch

Part Number	Nominal A/F	Hex A/F (inch)	Hex A/F (mm)	Hex A/C (inch)	Hex A/C (mm)	Short Bolts
BM-8-11	11/16	.674/.676	17.12/17.17	.768	19.52	BM-8-11-N
BM-8-12	3/4	.736/.738	18.69/18.74	.839	21.31	BM-8-12-N
BM-8-13	13/16	.798/.800	20.27/20.32	.909	23.08	BM-8-13-N
BM-8-14	7/8	.860/.862	21.84/21.89	.980	24.90	BM-8-14-N
BM-8-15	15/16	.922/.924	23.42/23.47	1.051	26.71	BM-8-15-N

1/2 Boltmaker - Metric

Part Number	Nominal A/F	Hex A/F (inch)	Hex A/F (mm)	Hex A/C (inch)	Hex A/C (mm)	Short Bolts
BM-8-17MM	17MM	.661/.663	16.79/16.84	.753	19.14	BM-8-17MM-N
BM-8-18MM	18MM	.699/.701	17.75/17.80	.797	20.24	BM-8-18MM-N
BM-8-19MM	19MM	.735/.737	18.67/18.72	.838	21.28	BM-8-19MM-N
BM-8-21MM	21MM	.815/.817	20.70/20.75	.929	23.59	BM-8-21MM-N
BM-8-22MM	22MM	.853/.855	21.67/21.72	.972	24.69	BM-8-22MM-N
BM-8-23MM	23MM	.895/.897	22.73/22.78	1.020	25.92	BM-8-23MM-N
BM-8-24MM	24MM	.933/.935	23.70/23.75	1.063	27.00	BM-8-24MM-N

1. Trim die material:

- M2 at RC 62-64
- M4 at RC 62-64

2. Special shapes (Round, Square, 12 Point, etc.) also available per quote.

3. PVD and CVD coatings available.