# CARBIDE DIE COMPONING COMPONING

**Since 1977** 

dura\_corb was founded in April of 1977 and has specialized in manufacturing only carbide punches and dies for the metal stamping industry, including the following sectors: Electronics, Automotive, Appliances and Canning.

### Introduction

#### **History**

Since the founding of the company in 1977, we at Dura-Carb have been dedicated to providing top-quality carbide tooling products to the metal forming industry. Dura-Carb specializes in the manufacturing of carbide die components. For over thirty years, the emphasis has been on the production of precision die components...punches, ejectors, quills, pilots and bushings for a wide range of stamping and forming applications.

You can depend on Dura-Carb technology and expertise. Our solid manufacturing background and years of experience in the grinding of carbide die components enables us to respond to your needs, whether for high-quality parts in stock, custom designed punches or dies, or special purpose shapes.

Dura-Carb actively assists its customers in minimizing downtime by maintaining a large stock of finished and semi-finished blanks, of both inch and metric punches and bushings in many grades, in its inventory. This gives us the ability to ship a wide variety of finished parts on short notice.

#### **Our Goal**

Dura-Carb is dedicated to provide top quality, precision carbide die components, manufactured to meet today's highest standards, priced competitively and delivered on time to meet our customers' requirements

You can rely on Dura-Carb as your quality supplier of Specialized Carbide Die Components.

To find out how Dura-Carb can assist you simply call us toll-free, 1-800-526-1081

## **About Selecting Tungsten Carbide**

We at Dura-Carb do not claim to be engineers or die designers; when we need assistance in that field we call an expert. We hope our customers and potential customers will do the same when they need help in grade selection for various applications.

Since there are numerous grades of carbide manufactured for the metal stamping industry, it is necessary to have someone who is knowledgeable in selecting the proper grade of carbide needed in your particular stamping or forming application. Trained personnel at Dura-Carb can help you select the grade that will give you the longest wear no matter what the application .

## **Quality**

All of us at Dura-Carb are dedicated to quality. Each employee participates in a total quality program that encompasses every operation beginning with the customer's clearly defined specifications. Quality control includes rigid inspection of the raw product...strict adherence to production requirements and gauging and inspection of the finished product before shipment.

Our systems and methods are constantly being reviewed and updated to ensure ourselves and our customers that they can depend on receiving the best quality products possible consistently...on time...competitively priced.

## **Equipment List**

March 2006

- 8 Precision OD Grinders
- 2 Royal Master Centerless grinders
- 6 Surface Grinders
- 6 Precision Automatic & Manual ID Grinders
- 2 Vertical Rotary Grinders
- 2 Brown & Sharp Optical Grinders
- 1 Sodick W.E.D.M.
- 4 Polishing Lathes with optical attachments

- 3 Lapping Machines used for smaller ID work
- 1 Bridgeport Milling Machine used for fixturing
- 1 10 Horsepower Compressor
- 1 14" J&L Optical Comparator
- 1 30" J&L Optical Comparator
- 1 Auto Cad 2004 System
- 2 Mititoyo Inspection Microscopes

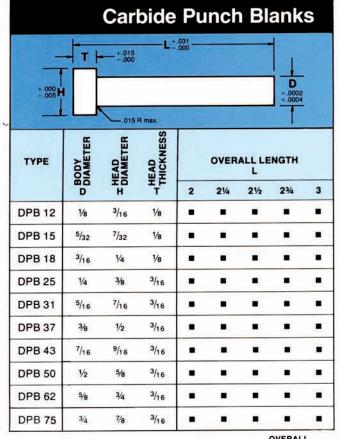
Complete inventory of various diamond wheels and points.

Extensive inventory of standard and special carbide blanks in many grades that are used in the general metal stamping industry.



Contents	Click on any entry to be taken there
Carbide punch blanks - Inches / Metric	4
Carbide ejector blanks - Inches / Metric	4
Carbide quills	5
Carbide 60° quills	5
Solid carbide punches - Inches	6
Solid carbide punches with air-hole - Inches	6
Solid carbide ejectors - Inches	6
Solid carbide punches - Metric	7
Solid carbide punches with air-hole - Metric	7
Solid carbide ejectors - Metric	7
Steel headed carbide punches	8
Steel collared carbide punches	8
Steel headed carbide punches with air-hole	8
Steel collared carbide punches with air-hole	8
Steel headed carbide ejector punches	8
Steel collared carbide ejector punches	8
Carbide ball-lock punches	9
Carbide ball-lock punches with air-hole	9
Carbide ball-lock ejector punches	9
Round carbide ball-lock buttons	9
Carbide small-headed punches	10
Carbide 60° quill punches	10
Carbide pilots	10
Carbide round blanks - centerless ground rod	11
Carbide die inserts	11
Wire EDM blanks	11
Wire EDM blanks with starter hole	11
Taper relief carbide round die bushings - Inches	12
Counterbored carbide round die bushings - Inches	12
Taper relief carbide round die bushings - Metric	13
Counterbored carbide round die bushings - Metric	13
Carbide EDM shaped bushings	14
Carbide split blanks	14
Carbide round stripper guide bushings	15
Carbide draw dies and punches	15
Carbide extrusion pins	15
Special shapes	15





HOW TO ORDER

QUANTITY	TYPE	LENGTH
12	DPB-62	21/2

N	Metric Carbide Punch Blanks							
D	5.0	+ 0.13 + 0.25	_L	+ 0.25			D m	4
+0.00			FILLET				1	
D	TYPE			OVER	ALL LE	NGTH		
		40.0	45.0	50.0	56.0	63.0	71.0	80.0
4.0	MPB 004							
5.0	MPB 005				•			•
6.0	MPB 006	1					-	
8.0	MPB 008							•
10.0	MPB 010			•	•			•
13.0	MPB 013							•
16.0	MPB 016				•	1		
20.0	MPB 020						-	

HOW TO ORDER

QUANTITY	TYPE	OVERALL LENGTH
12	MPB-010	40.0

AL I	J T L	+.015	—L:	.031				
000 +.0002 +.0002 +.0004 +.0002 +.0004								
TYPE	BODY	HEAD	HEAD	OVERALL LENGTH				
	BO D	H C	Ŧ	2	21/4	21/2	2¾	3
DEB 12	1/8	3/16	1/8	i i				
DEB 18	3/16	1/4	1/8					•
DEB 25	1/4	3/8	3/16					
DEB 31	5/16	7/16	3/16				•	•
DEB 37	3/8	1/2	3/16	(6)				
DEB 43	7/16	9/16	3/16			7.		•
DEB 50	1/2	5/8	3/1-6		•			
DEB 62	5/8	3/4	3/16			18	1	•
DEB 75	3/4	7/8	3/16					

HOW TO ORDER

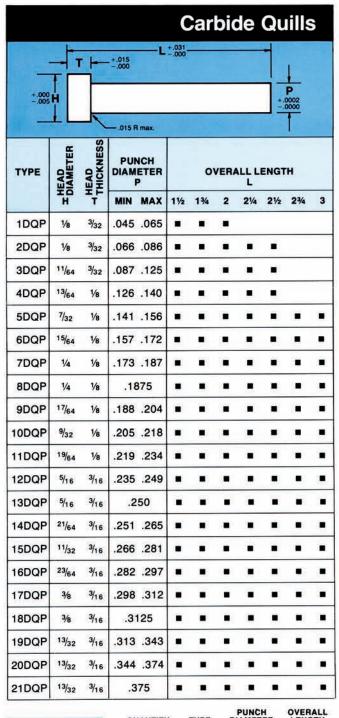
QUANTITY	TYPE	OVERALL LENGTH
24	DEB-43	2¾

M	Metric Carbide Ejector Blanks							
+0.00 -0.25	5.0	+0.13 +0.25	<b>//////</b>	+ 0.25 + 0.50			D ma	
	TYPE	- 0.25 - 0.50	FILLET	OVER	ALL LE	NGTH		
D	TYPE	40.0	45.0	50.0	56.0	63.0	71.0	80.0
5.0	MEB 005							
6.0	MEB 006							
8.0	MEB 008	•	- C-3					
10.0	MEB 010					•		
13.0	MEB 013	1		•				
16.0	MEB 016	•	- F		7.5			
20.0	MEB 020							•
							9900000000	CARDA-1

HOW TO ORDER

QUANTITY	TYPE	OVERALL LENGTH
24	MEB-013	50.0





TYPE	T DIAMETER	HEAD THICKNESS	DIAM	NCH ETER		01	/ER/	ALL L L	ENGT	н
	뀨	Ŧ,	MIN	MAX	11/2	13/4	2	21/4	21/2	2
1DQA	3/32	5/64	.047	.055			•			
2DQA	7/64	5/64	.056	.064						
3DQA	1/8	5/64	.065	.078						
4DQA	9/64	3/32	.079	.087	•	•			•	
5DQA	5/32	3/32	.088	.099					•	
6DQA	11/64	3/32	.100	.120			•			
7DQA	3/16	3/32	.121	.131			•			
8DQA	13/64	3/32	.132	.147	•	•	•		•	
9DQA	7/32	3/32	.148	.163		•				
10DQA	15/64	3/32	.164	.179			<b>S</b>			
11DQA	1/4	3/32	.180	.194		•				
12DQA	17/64	3/32	.195	.210					•	
13DQA	9/32	3/32	.211	.225			•			
14DQA	19/64	3/32	.226	.241						
15DQA	5/16	3/32	.242	.251					•	

Carbide 60° Quills

	QUANTITY			OVERALL LENGTH
HOW TO ORDER	16	4DQP	.135	2

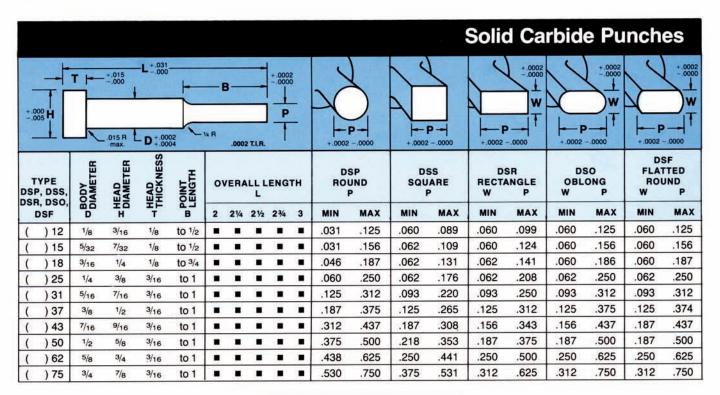
	QUANTITY	TYPE	PUNCH DIAMETER	OVERALL LENGTH
HOW TO ORDER	12	14DQA	.235	21/2

#### STEEL HEADS ALSO AVAILABLE

Dura-Carb...precision carbide tools for precision products.

ALL PRODUCTS ARE ALSO AVAILABLE IN METRICS.





FOR SOLID CARBIDE PUNCHES WITH AIR-HOLE, SEE BOTTOM OF PAGE.

"D" PRESS FIT TOLERANCES				
Type 1	Type 2			
+.00005	Type 2 +.0002			
0000	+.0004			
If unspecified,	Type 2 will be given			

FOR STEEL-HEADED AND STEEL-COLLARED PUNCHES AND EJECTORS, SEE PAGE 8.

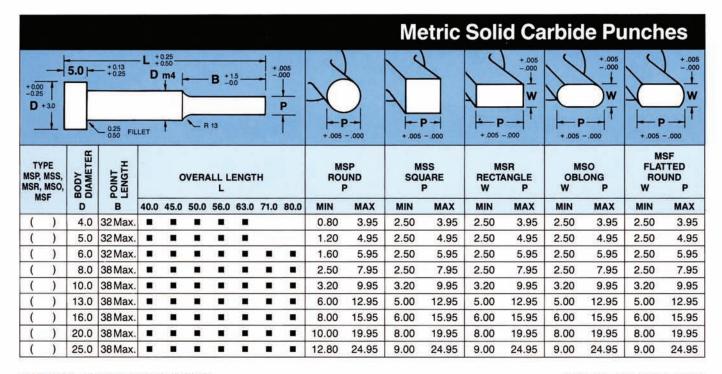
															Soli	d Ca	arbic	le Ej	ecto	rs
+.0	→ 000 H		+.015 000	-L+.031 000		-E		tlr.	+.0002 0000	-		0000	V	P  20000	+.0002	T	- F +.0002	IT		, T
DE	YPE P, DES, R, DEO,	BODY DIAMETER	T HEAD DIAMETER	HEAD THICKNESS	POINT	01	/ER/	ALL L	.ENG	тн	DI ROL	JND	SQL	ES JARE P	to the contract of the	ER ANGLE P	1	EO ONG P	FLA	EF TTED UND P
	DEF	D	H	팎	В	2	21/4	21/2	23/4	3	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
(	) 12	1/8	3/16	1/8	to 1/2						.062	.125	.062	.089	.062	.099	.062	.125	.062	.125
(	) 18	3/16	1/4	1/8	to 3/4	•					.062	.187	.062	.131	.062	.141	.062	.187	.062	.125
(	) 25	1/4	3/8	3/16	to 1	•					.093	.250	.062	.176	.062	.208	.062	.250	.093	.250
(	) 31	5/16	7/16	3/16	to 1	•					.125	.312	.093	.220	.093	.250	.093	.312	.125	.312
(	) 37	3/8	1/2	3/16	to 11/4			•			.187	.375	.125	.265	.125	.312	.125	.375	.156	.375
(	) 43	7/16	9/16	3/16	to 11/4						.312	.437	.187	.308	.156	.343	.156	.437	.187	.437
(	) 50	1/2	5/8	3/16	to 11/4				<b></b>		.375	.500	.218	.353	.187	.375	.187	.500	.312	.500
(	) 62	5/8	3/4	3/16	to 11/4						.500	.625	.281	.441	.281	.500	.282	.625	.312	.750

For air-hole type punch, order Type DAP, DAS, DAR, DAO, or DAF

QUANTITY	TYPE	POINT DIAMETER	POINT LENGTH	OVERALL LENGTH	QUANTITY	TYPE	POINT DIMENSIONS	POINT LENGTH	OVERALL LENGTH	
12	DSP-31	.130	1/2	2	5	DEO-50	W.250 P.437	3/4	3	

HOW TO ORDER

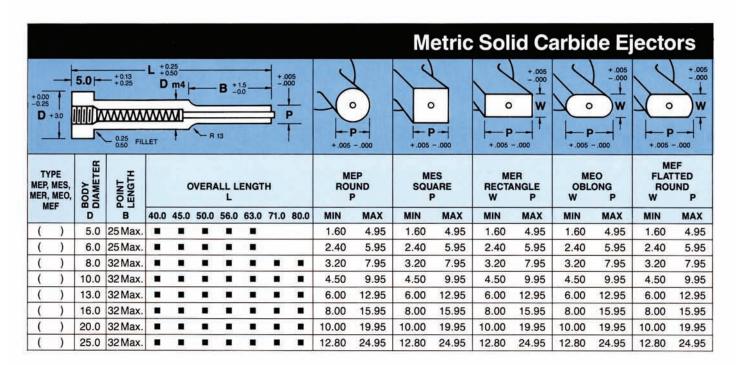




FOR SOLID CARBIDE PUNCHES WITH AIR-HOLE, SEE BOTTOM OF PAGE.

AVAILABLE IN STEEL-HEAD AND STEEL-COLLARS.

P to D 0.008 🔘

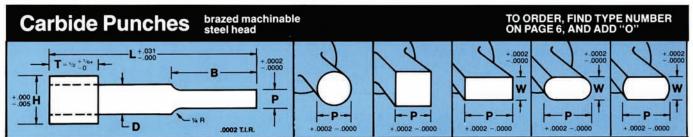


For air-hole type punch, order Type MAP, MAS, MAR, MAO, or MAF

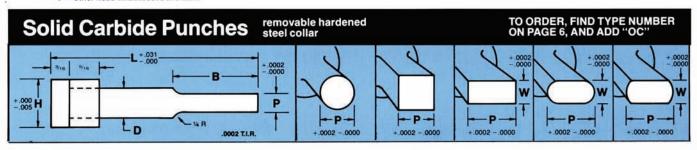
HOW TO ORDER	QUANTITY	TYPE	POINT DIAMETER	POINT LENGTH	OVERALL LENGTH	
HOW TO ORDER	12	MSP-5	3.60	25	50.0	

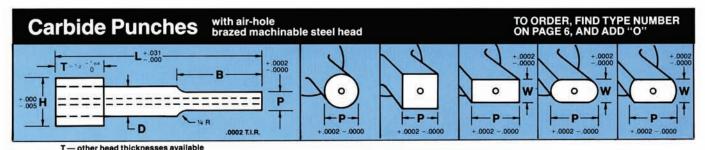
QUANTITY	TYPE	POINT DIMENSIONS	POINT LENGTH	OVERALL LENGTH
5	MEO-8	W - 4.20 P - 7.90	32	63.0

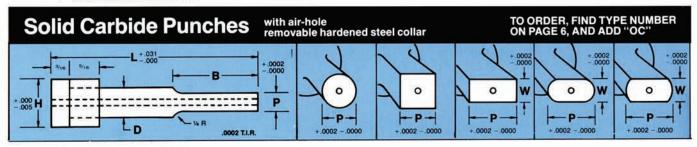


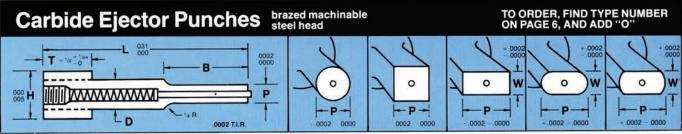


T - other head thicknesses available

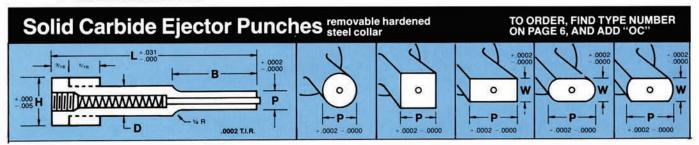




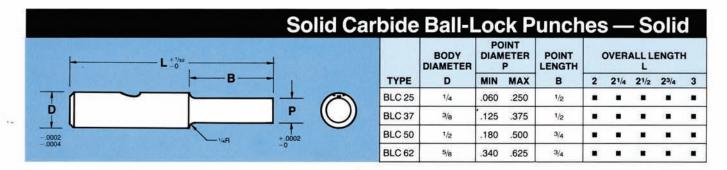




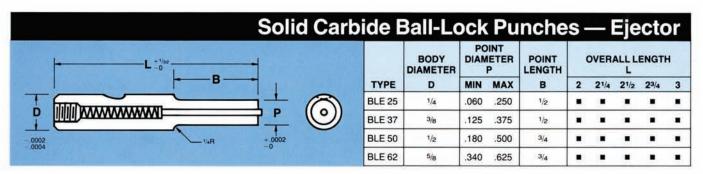
T - other head thicknesses available







Solid Carbide	Ball	-Lock	Pu	nct	nes w	ith	ιA	ir-ł	Hol	е
L +1/az		BODY DIAMETER	DIAN	INT IETER P	POINT LENGTH	,	OVER	ALL L	ENGT	н
- B	TYPE	D	MIN	MAX	В	2	21/4	21/2	23/4	3
T	BLA 25	1/4	.060	.250	1/2		11			
P (0)	BLA 37	3/8	.125	.375	1/2	•				
1/4R +.0002	BLA 50	1/2	.180	.500	3/4	•	1		•	
-0.	BLA 62	5/8	.340	.625	3/4			-		



#### **ALSO AVAILABLE IN SHAPES**

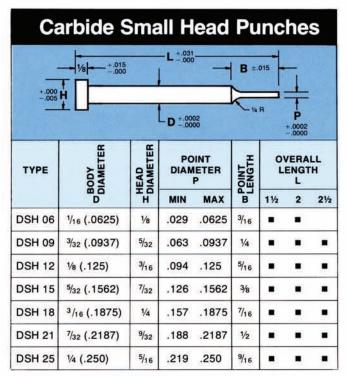


ALSO AVAILABLE IN EDM SHAPES

TYPE BLU		BODY DIAMETER	100000	SIDE IETER P	MIN	OVERALL LENGTH
	BLD	D	MIN	MAX	В	L
(	) 50	1/2	.062	.195	1/8	13/16
(	) 62	5/8	.110	.282	1/4	13/16
(	) 75	3/4	.125	.345	1/4	13/16
(	) 87	7/8	.196	.458	1/4	13/16
(	) 100	1	.346	.645	5/16	13/16

ALL PRODUCTS ARE ALSO AVAILABLE IN METRICS

OTHER LENGTHS AVAILABLE



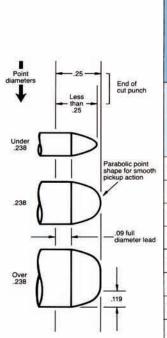
+.000 H	1	015	-L+.03	-	B =	.015		
			D +.00	102 100		ıR	P +.0002 0000	
TYPE	BODY	HEAD DIAMETER	DIAN	INT IETER P	POINT	O	ENGT	-
	8 D	뀨	MIN	MAX	В	11/2	2	21/2
DSA 06	1/16 (.0625)	7/64	.029	.0625	3/16	•	•	
DSA 09	3/32 (.0937)	5/32	.063	.0937	1/4			•
DSA 12	1/8 (.125)	3/16	.094	.125	5/16	•		•
DSA 15	5/32 (.1562)	7/32	.126	.1562	3/8		•	
DSA 18	<sup>3</sup> / <sub>16</sub> (.1875)	1/4	.157	.1875	7/16	•	É	
DSA 21	7/32 (.2187)	9/32	.188	.2187	1/2		) <b>=</b>	
DSA 25	1/4 (.250)	5/16	.219	.250	9/16			

HOW TO ORDER	QUANTITY	TYPE	POINT DIAMETER	OVERALL LENGTH
HOW TO UNDER	20	DSH12	.120	21/2

HOW TO ORDER

QUANTITY TYPE DIAMETER CHARTH

10 DSA18 .165 2

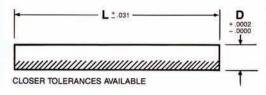


	1	T	<u> </u> ±	.015	- L +.031	-	В-			13	
	+.000 H		.01	15 R max.	D+.00	02 04	4	<b>D</b>	P +,0002 -,0000		
TYPE	DIAMETER	HEAD	HEAD THICKNESS	POINT	DIAM	INT ETER		OVERA	ALL LE	NGTH	1
	D	H	T	В	MIN	MAX	2	21/4	21/2	2¾	3
DPN 12	1/8	3/16	1/8	to ½	.031	.125				•	
DPN 15	5/32	7/32	1/8	to ½	.031	.156	•			•	
DPN 18	3/16	1/4	1/8	to 3/4	.046	.187					٠
DPN 25	1/4	3/8	3/16	to 1	.060	.250			•	•	
DPN 31	5/16	7/16	3/16	to 1	.125	.312	-				
DPN 37	3/8	1/2	3/16	to 1	.187	.375	•				•
DPN 43	7/16	9/16	3/16	to 1	.312	.437					•
DPN 50	1/2	5/8	3/16	to 1	.375	.500	•				
DPN 62	5/8	3/4	3/16	to 1	.438	.625					
DPN 75	3/4	7/8	3/16	to 1	.530	.750					

ALL PRODUCTS ARE ALSO AVAILABLE IN METRICS.

PRICES QUOTED ON REQUEST

	QUANTITY	TYPE	POINT LENGTH	POINT	OVERALL LENGTH	
HOW TO ORDER	10	DPN-25	7/a	.225	21/2	



Dura-Carb can supply centerless ground rod to very close tolerances—with standard or

polished finish. An extensive inventory of extruded rod, in the grades most commonly used in the metal stamping industry, is maintained so that your order can be shipped promptly. When required, we will accept and grind customersupplied material.

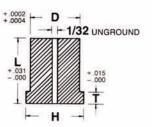
DO	GR SERIES			OVE	RALL LEI	NGTH		
TYPE	D DIAMETER	11/4	13/4	2	21/4	21/2	23/4	3
1DGR	.0450649							
2DGR	.0650879	<b>8</b>						
3DGR	.0881249		-		-		-	
4DGR	.12501409					-		
5DGR	.1411569					•		
6DGR	.1571729							
7DGR	.1731875		•					
8DGR	.18762049							
9DGR	.2052199							
10DGR	.2202359			-				
11DGR	.2362499							
12DGR	.2502669		-					
13DGR	.2672829							
14DGR	.2832979					•		
15DGR	.2983129	1			-			
16DGR	.31253439		•					
17DGR	.3443749					-		

10000 AND ALCOHOLD AND AND AND AND AND AND AND AND AND AN	QUANTITY	TYPE	DIAMETER	LENGTH
HOW TO ORDER	6	8DGR	.196	3

LARGER OR SMALLER "D" DIAMETERS AVAILABLE.

				Carbide \	<b>Vire</b>	EDM	Blai	nks	
TYPE HEADLESS DW ( )		BODY	HEAD	OVERALL LENGTH L					
DWI	ADED ( )	DIAMETER D	DIAMETER H	THICKNESS T	1/2	3/4	1	11/4	
(	) 25	1/4	3/8	3/16					
(	) 31	5/16	7/16	3/16	•			-	
(	) 37	3/8	1/2	3/16					
(	) 43	7/16	9/16	3/16			7		
(	) 50	1/2	5/8	3/16		# P			
(	) 62	5/8	3/4	3/16					
(	) 75	3/4	7/8	3/16					
(	) 87	7/8	1	3/16	•		•		
(	) 100	1	11/8	3/16			-		

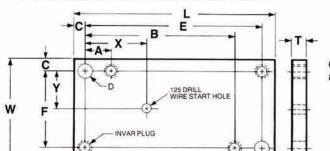
- 1/32 UNGROUND
L
+ .031
- .000
+ .0002
+ .0004



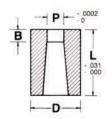
COUNTERBORES AVAILABLE

If more than one start/flush hole is required a drawing is necessary, other size start/flush holes are available.

OTHER LENGTHS AVAILABLE



Carbide Wire EDM Punch & Die Blocks are also available per prints.



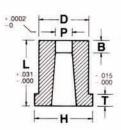
GROUND TAPER RELIEF
1/4° PER SIDE
STANDARD
TAPERED TO TOP
(NO LAND)
ALSO AVAILABLE



GROUND TAPER RELIEF

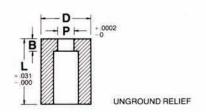
1/4° PER SIDE
STANDARD

TAPERED TO TOP
(NO LAND)
ALSO AVAILABLE



TYPE HEADLESS DD( ) HEADED		BODY DIAMETER	HEAD DIAMETER	HEAD THICKNESS	MINIMUM LAND	OR HE	DLESS EADED	OVERALL LENGTH L	
DHI	CONTRACTOR OF THE PARTY OF THE	D	н	т	В	MIN	MAX	1	11/4
(	) 12	1/8	3/16	1/16	1/16	.031	.062	- F	
(	) 18	3/16	5/16	1/8	1/8	.062	.128		
(	) 25	1/4	3/8	3/16	5/32	.062	.150	•	
(	) 31	5/16	7/16	3/16	5/32	.062	.170		
(	) 37	3/8	1/2	3/16	3/16	.062	.190		
(	) 43	7/16	9/16	3/16	3/16	.156	.300		
(	) 50	1/2	5/8	3/16	3/16	.156	.305	•	
(	) 62	5/8	3/4	3/16	3/16	.250	.425	<b>.</b>	
(	) 75	3/4	7/8	3/16	1/4	.312	.531	100	
(	) 87	7/8	1	3/16	1/4	.375	.656		
(	) 100	1	11/8	3/16	1/4	.437	.781	-	

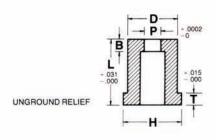
OTHER LENGTHS AVAILABLE



Wire and conventional EDM die button blanks available

Type 1	Type 2
+.00015	+.0002
+.00020	+.0004

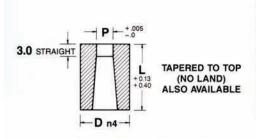
If unspecified, Type 2 will be given



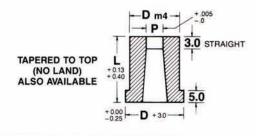
TYPE HEADLESS DU( ) HEADED		BODY DIAMETER	HEAD DIAMETER	HEAD THICKNESS	MINIMUM LAND	OR HE	DLESS EADED	OVERALL LENGTH L	
DH		D	н	Т	В	MIN	MAX	1	11/4
(	) 12	1/8	3/16	1/16	1/16	.031	.062		
(	) 18	3/16	5/16	1/8	1/8	.062	.128		
(	) 25	1/4	3/8	3/16	5/32	.062	.150		
(	) 31	5/16	7/16	3/16	5/32	.062	.170		
(	) 37	3/8	1/2	3/16	3/16	.062	.190		
(	) 43	7/16	9/16	3/16	3/16	.156	.300		
(	) 50	1/2	5/8	3/16	3/16	.156	.305	•	
(	) 62	5/8	3/4	3/16	3/16	.250	.425		
(	) 75	3/4	7/8	3/16	1/4	.312	.531		
(	) 87	7/8	Ĭ	3/16	1/4	.375	.656	•	
(	) 100	1	11/8	3/16	1/4	.437	.781		

OTHER LENGTHS AVAILABLE

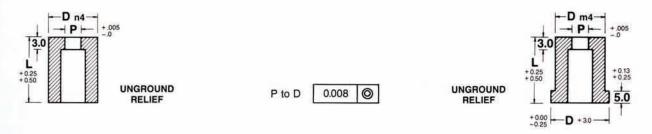






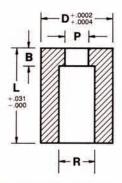


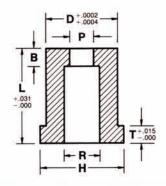
D	TYPE HEADLESS MD( ) HEADED		OLESS OR HEADED			OVERALL LENGTH L							
	МН	STATE STATE	)	MIN.	MAX.	13	16	19	22	25	28	32	35
5.0	(	)	05	1.600	3.200	•							
6.0	(	)	06	1.600	3.900								
8.0	(	)	08	2.400	5.400	•		•					
10.0	(	)	10	3.200	6.800								
13.0	(	)	13	5.400	8.800			•					
16.0	(	)	16	7.400	10.800			•	16		100		
20.0	(	)	20	9.500	13.600								
25.0	(	)	25	12.000	17.000				<b>=</b> }				



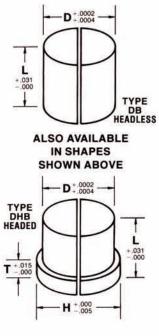
D	TYPE HEADLESS MU ( )		HEADLESS OR HEADED		OVERALL LENGTH L								
		IU (	)	MIN.	MAX.	13	16	19	22	25	28	32	35
5.0	(	)	05	1.600	3.200	•							
6.0	(	)	06	1.600	3.900			•					
8.0	(	)	08	2.400	5.400			•					
10.0	(	)	10	3.200	6.800	•			-				
13.0	(	)	13	5.400	8.800								
16.0	(	)	16	7.400	10.800			•					
20.0	(	)	20	9.500	13.600			( <b>1</b>				Y .	-
25.0	(	)	25	12.000	17.000			(=)					







								(	Carbi	de E[	OM St	naped	Bus	hin	gs
HE	TYPE ADLESS D_( )	ВОDУ DIAMETER	HEAD DIAMETER	MIN. LAND		+ 00033 - 0003 ESS DS ED DHS		W + .0003		w + .0003 ESS DOO ED DHO		w T 2.ESS DF ED DHF	MAX. RELIEF HOLE		RALL IGTH L
	H_( )	D	Ĥ	В	P	MAX. DIAG.	W MIN.	MAX. DIAG.	W MIN.	P MAX.	W MIN.	P MAX.	R	1	11/4
(	) 37	3/8	1/2	3/16	.062	.200	.062	.200	.062	.195	.062	.195	.228		
(	) 50	1/2	5/8	3/16	.093	.285	.093	.285	.062	.270	.062	.270	.312		1
(	) 62	5/8	3/4	3/16	.125	.365	.125	.365	.093	.365	.093	.365	.385		
(	) 75	3/4	7/8	1/4	.187	.437	.187	.437	.156	.437	.156	.437	.468		
(	) 87	7/8	1	1/4	.250	.540	.250	.540	.187	.520	.187	.520	.578		•
(	) 100	1	11/8	1/4	.375	.650	.375	.650	.250	.650	.250	.650	.687		



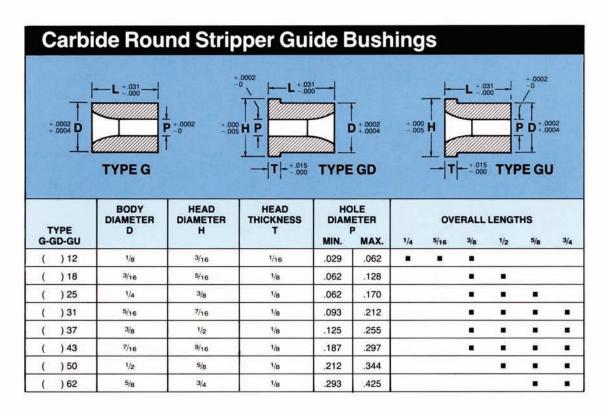
				Carbid	le Sp	lit Die	Bla	nks
TYPE DB() DHB()		BODY DIAMETER	HEAD DIAMETER	HEAD THICKNESS		OVERALI	LENGTH	
		D	Н	T	1/2	3/4	1	11/4
(	) 18	.1875	5/16	1/8				
(	) 25	.250	3/8	3/16		•		
(	) 31	.3125	7/16	3/16				
(	) 3,7	.375	1/2	3/16	•			
(	) 43	.4375	9/16	3/16				
(	) 50	.500	5/8	3/16			•	
(	) 62	.625	3/4	3/16				D
(	) 75	.750	7/8	3/16				
(	) 87	.875	1	3/16				•
(	) 100	1.000	11/s	3/16			{i <b>=</b> 7.	

QUA		
GOA	HOW TO ORDER	
	HOW TO ONDER	

QUANTITY	TYPE	W-P	LENGTH	HEADLESS
6	DF-75	W165 P420	11/4	HEADLESS

QUANTITY	TYPE	OVERALL LENGTH	HEADLESS HEADED
10	DHB-43	3/4	HEADED





## **Carbide Special Shapes**

Fine precision tooling results in improved production and quality. You can depend on Dura-Carb to maintain that superior quality.

Carbide draw dies and punches along with extrusion pins are nothing new to Dura-Carb personnel. Beginning with the proper carbide grade selection, precision grinding and more importantly...finishes, we feel our products will outlast any other on the market today.





Dura-Carb can supply punches and dies in many special shapes. For quotations, send your drawings specifying all dimensions, tolerances, grade and relationship of shape to shank or body. If you require locking devices, specify the relationship of the locking device to the shape.

Wire EDM resources are available with special carbide capabilities to .0001 tolerances. Solid carbide punches and die block blanks are also available, precision ground to customer specifications. See page 11.

