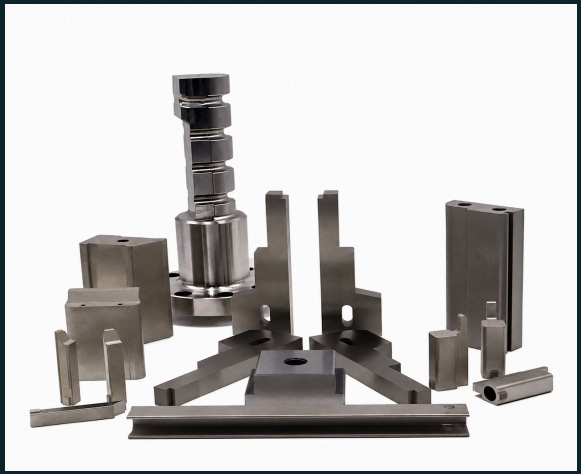
SIMIDA PARTS

PRECISION
MOLD & DIE PARTS



PRODUCT CATALOGUE

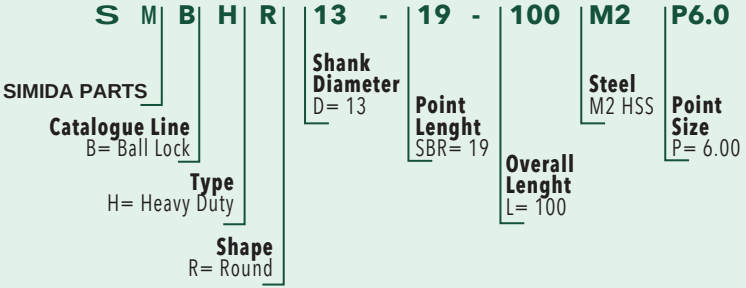
Punches / Die Components / Die Sets

Dongguan · China

LOGICAL NUMBERING SYSTEM

The nomenclature of each piece is created to facilitate selection. Each code describes the product features using the initial letters of its characteristics.

Example



Product		Type		Shape	
P	Punch	**L**	Light duty	**R**	Round
E	Ejector punch	**H**	Heavy duty	**O**	Oblong
B	Button die	**E**	Extra heavy duty	**M**	Square7rect.
R	Retainer	**M**	Shoulder	**H**	High production
Q	Quill punch	**P**	Press-fit	**P**	Parabolic pilot
G	Guide bushing	**N**	Numerical	**A**	Angular pilot
I	Inverted punch	**B**	Bevel head	**B**	Blank
N	Nose-over ejector	**U**	Up-head	**C**	Classified shape
H	Holder	**D**	Down-head	**D**	Draw/extrusion
D	Die Section	**R**	Reduced "D"	**S**	Multi-hole
		W	Wire-cut	**T**	Tru-lock
				E	End

CONTENT GUIDE

SM-B-EH_ 3



SM-B-H_ 4



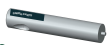
SM-B-HA 5



SM-B-HP 6



SM-B-EHB 7



SM-B-HB 8



SM-B-IEH_ 9



SM-B-IH_ 10



SM-B-EL_ 11



SM-B-L_ 12



SM-B-LA 13



SM-B-LP 14



SM-B-ELB 15



SM-B-LB 16



SM-B-IEL_ 17



SM-B-IL_ 18



SM-D-BL 19



SM-D-GP_ 20



SM-D-PP_ 21



SM-D-SG_ 22



SM-D-BLB 23



SM-D-GPB 24



SM-D-PPB 25



SM-D-SGB 26



SM-A-GE_ 27



SM-A-GP_ 28



SM-A-GPRB 29



SM-A-GPB 30



SM-A-EN_ 31



SM-A-PN_ 32



SM-A-PNA 33



SM-A-PNP 34



SM-A-ENB 35



SM-A-PNB 36



SM-A-GQB 37



SM-A-GSB 38



Jektole 39



Flats 40



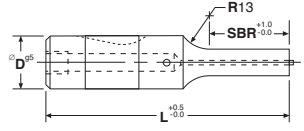
Dowel Slots 41

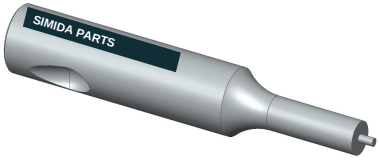


Double Flats 42



Ball-Lock Ejector Heavy-Duty

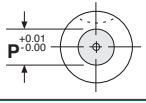




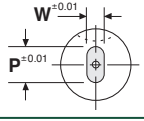
Ordering Example:
(12) SM-B-EHR 13-13-71 M2 P10.1
(12) SM-B-EHO 20-19-80 M2 P18.2 W9.5 BS-90ß
M2, R/c 61-63 triple tempered

Round P T O D	0.01 ◎
Shape P & W T O D	0.02 ◎

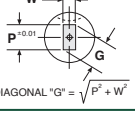
SM-B-EHR Round



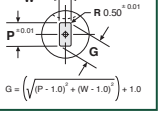
SM-B-EHO Oblong



SM-B-EHS Square/Rect.



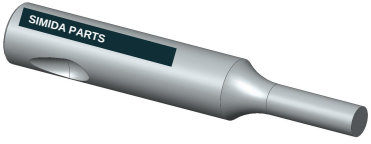
SM-B-EHH High Production

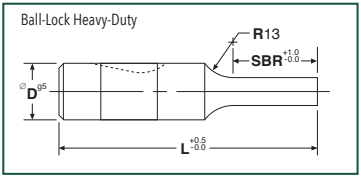


TYPE	"D"	POINT LENGTH "SBR"					LENGTH "L"							MIN. "P"	EJECT TYPE
		10	13	19	25	32	63	71	80	90	100	110	125		
SM-B-EH_	10	10	13	19			63	71	80	90	100	110		2.9	E4M
SM-B-EH_	13		13	19				71	80	90	100	110	125	4.0	E6M
SM-B-EH_	16		13	19	25			71	80	90	100	110	125	6.0	E9M
SM-B-EH_	20		13	19	25			71	80	90	100	110	125	6.0	E9M
SM-B-EH_	25		13	19	25				80	90	100	110	125	8.0	E9M
SM-B-EH_	32		13	19	25				80	90	100	110	125	10.0	E12M
SM-B-EH_	40			19	25	32			80	90	100	110	125	12.0	E12M

Punch Heavy-duty

R = ● O = ⬬ S = ▬■ H = ⬬



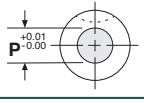


Ordering Example:
(12) SM-B-HR 13-13-71 M2 P10.1
(15) SM-B-PHO 25-19-80 M2 P21.6 W12.2 BS-90ß

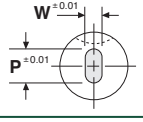
M2, R/c 61-63 triple tempered

Round	P T O D	0.01
Shape	P & W T O D	0.02

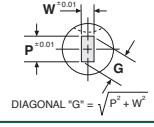
SM-B-HR Round



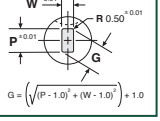
SM-B-HO Oblong



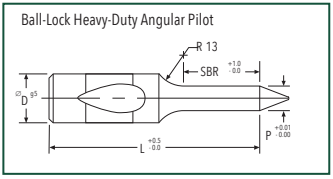
SM-B-HS Square/Rect.

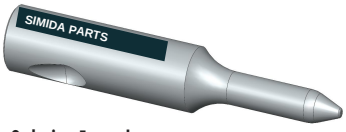


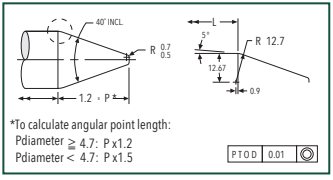
SM-B-HH High Production



TYPE	"D"	POINT LENGTH "SBR"				OVERALL LENGTH "L"								MIN. "P"
		10	13	19	25	32	63	71	80	90	100	110	125	
SM-B-H_	10	10	13	19			63	71	80	90	100			1.4
SM-B-H_	13		13	19			63	71	80	90	100	110	125	2.1
SM-B-H_	16		13	19	25		63	71	80	90	100	110	125	5.0
SM-B-H_	20		13	19	25		63	71	80	90	100	110	125	6.0
SM-B-H_	25		13	19	25			71	80	90	100	110	125	8.0
SM-B-H_	32		13	19	25			71	80	90	100	110	125	10.0
SM-B-H_	40			19	25	32			80	90	100	110	125	12.0







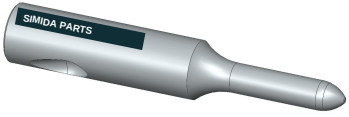
Ordering Example:
(12) SM-B-HA 10-19-71 M2 P5.2

M2, R/c 61-63 triple tempered

TYPE	"D"	POINT LENGTH "SBR"					LENGTH "L"									MIN. "P"
		10	13	19	25	32	63	71	80	90	100	110	125	140	150	
SM-B-HA	10	10	13	19			63	71	80	90	100	110				1.3
SM-B-HA	13		13	19				71	80	90	100	110	125	140		2.0
SM-B-HA	16		13	19	25			71	80	90	100	110	125	140	150	4.9
SM-B-HA	20		13	19	25			71	80	90	100	110	125	140	150	5.9
SM-B-HA	25		13	19	25				80	90	100	110	125	140	150	7.9
SM-B-HA	32		13	19	25				80	90	100	110	125	140	150	9.9
SM-B-HA	40			19	25	32			80	90	100	110	125	140	150	11.9

Heavy-duty Parabolic pilot

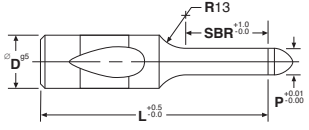
SIMIDA Ball-Lock

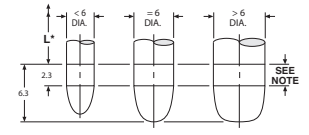


Ordering Example:
(15) SM-B-HP 16-19-63 M2 P8.8

M2, R/c 61-63 triple tempered

Ball-Lock Heavy-Duty Parabolic Pilot





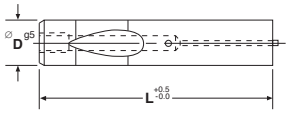
* "L" length of pilot does not include 6.3mm lead.

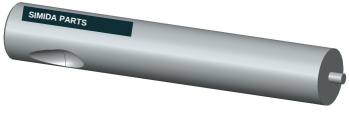
NOTE: This 2.3mm length allows full diameter registration before punches make contact with material.

PTOD | 0.01

TYPE	"D"	POINT LENGTH "SBR"					LENGTH "L"							MIN. "P"
		10	13	19	25	32	63	71	80	90	100	110	125	
SM-B-HP	10	10	13	19			63	71	80	90	100			1.3
SM-B-HP	13		13	19			63	71	80	90	100	110	125	2.0
SM-B-HP	16		13	19	25		63	71	80	90	100	110	125	4.9
SM-B-HP	20		13	19	25		63	71	80	90	100	110	125	5.9
SM-B-HP	25		13	19	25		63	71	80	90	100	110	125	7.9
SM-B-HP	32		13	19	25			71	80	90	100	110	125	9.9
SM-B-HP	40			19	25	32			80	90	100	110	125	11.9

Ball-Lock Ejector Heavy-Duty Blank

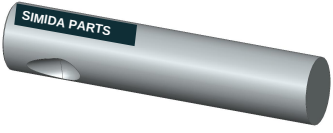


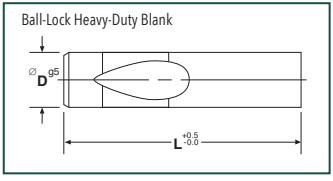


Ordering Example:
(15) SM-B-EHB 32-90 M2

M2, R/c 61-63 triple tempered

TYPE	"D"	OVERALL LENGTH "L"							EJECT TYPE
		63	71	80	90	100	110	125	
SM-B-EHB	10	63	71	80	90	100			E4M
SM-B-EHB	13	63	71	80	90	100	110	125	E6M
SM-B-EHB	16	63	71	80	90	100	110	125	E9M
SM-B-EHB	20	63	71	80	90	100	110	125	E9M
SM-B-EHB	25		71	80	90	100	110	125	E9M
SM-B-EHB	32		71	80	90	100	110	125	E12M
SM-B-EHB	40			80	90	100	110	125	E12M





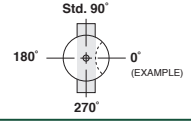
Ordering Example:
(12) SM-B-HB 32-125 M2

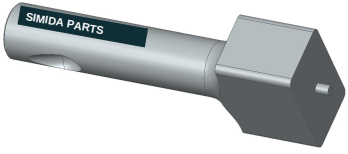
M2, R/c 61-63 triple tempered

TYPE	"D"	OVERALL LENGTH "L"										
		63	71	80	90	100	110	125	140	150	175	200
SM-B-HB	10	63	71	80	90	100	110	125				
SM-B-HB	13	63	71	80	90	100	110	125	140	150	175	
SM-B-HB	16	63	71	80	90	100	110	125	140	150	175	
SM-B-HB	20	63	71	80	90	100	110	125	140	150	175	
SM-B-HB	25		71	80	90	100	110	125	140	150	175	200
SM-B-HB	32		71	80	90	100	110	125	140	150	175	200
SM-B-HB	40			80	90	100	110	125	140	150	175	200

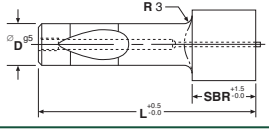
Ball Seat Location shown in Die Position

Angle From 0°
Must Be Specified.
90° IS FURNISHED
IF NOT SPECIFIED.





Ball-Lock IE Heavy-Duty



Ordering Example:
(8) SM-B-IEHR 25-25-90 M2 P32.4

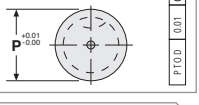
M2, R/c 61-63 triple tempered

SM-B-IEHS "G" = $\sqrt{P^2 + W^2}$

SM-B-IEHH "G" = $\left(\sqrt{(P - 1.0)^2 + (W - 1.0)^2}\right) + 1.0$

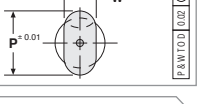
TYPE	"D"	POINT LENGTH "SBR"	OVERALL LENGTH "L" 71	80	90	100	MIN. "P"	MAX "P"	EJECT. TYPE
SM-B-IEHR	13	20	71	80	90	100	13.1	32.0	E6M
SM-B-IEHR	16	25	71	80	90	100	16.1	38.0	E9M
SM-B-IEHR	20	25	71	80	90	100	20.1	38.0	E9M
SM-B-IEHR	25	25	71	80	90	100	25.1	45.0	E9M
SM-B-IEHR	32	32		80	90	100	32.1	50.0	E12M
SM-B-IEHR	40	32		80	90	100	40.1	63.5	E12M

SM-B-IEHR Round



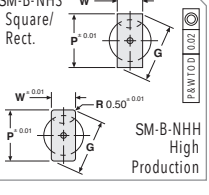
TYPE	"D"	"SBR"	71	80	90	100	MIN. "W"	MAX "P"	EJECT. TYPE
SM-B-IEHO	13	20	71	80	90	100	5.0	32.0	E6M
SM-B-IEHO	16	25	71	80	90	100	6.5	38.0	E9M
SM-B-IEHO	20	25	71	80	90	100	8.0	38.0	E9M
SM-B-IEHO	25	25	71	80	90	100	11.0	45.0	E9M
SM-B-IEHO	32	32		80	90	100	12.5	50.0	E12M
SM-B-IEHO	40	32		80	90	100	14.0	63.5	E12M

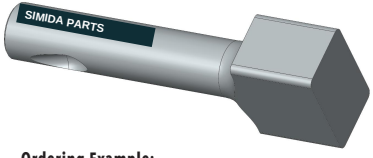
SM-B-IEHO Oblong



TYPE	"D"	"SBR"	71	80	90	100	MIN. "W"	MAX "G"	EJECT. TYPE
SM-B-IEHS/B-IEHH	13	20	71	80	90	100	5.0	32.0	E6M
SM-B-IEHS/B-IEHH	16	25	71	80	90	100	6.5	38.0	E9M
SM-B-IEHS/B-IEHH	20	25	71	80	90	100	8.0	38.0	E9M
SM-B-IEHS/B-IEHH	25	25	71	80	90	100	11.0	45.0	E9M
SM-B-IEHS/B-IEHH	32	32		80	90	100	12.5	50.0	E12M
SM-B-IEHS/B-IEHH	40	32		80	90	100	14.0	63.5	E12M

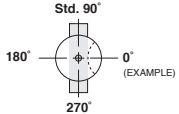
SM-B-NHS Square/ Rect.





Ball Seat Location shown in Die Position

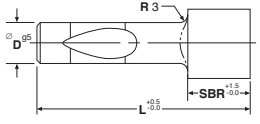
Angle From 0° Must Be Specified. 90° IS FURNISHED IF NOT SPECIFIED.



Ordering Example:
(9) SM-B-IHR 25-25-90 M2 P32.

4 M2, R/c 61-63 triple tempered

Ball-Lock Inverted Heavy-Duty

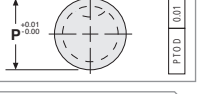


SM-B-IHS "G" = $\sqrt{P^2 + W^2}$

SM-B-IHH "G" = $\left(\sqrt{(P - 1.0)^2 + (W - 1.0)^2}\right) + 1.0$

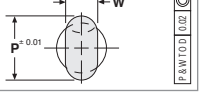
TYPE	"D"	POINT LENGTH "SBR"	OVERALL LENGTH "L" 71	80	90	100	MIN. "P"	MAX "P"
SM-B-IHR	13	20	71	80	90	100	13.1	32.0
SM-B-IHR	16	25	71	80	90	100	16.1	38.0
SM-B-IHR	20	25	71	80	90	100	20.1	38.0
SM-B-IHR	25	25	71	80	90	100	25.1	45.0
SM-B-IHR	32	32		80	90	100	32.1	50.0
SM-B-IHR	40	32		80	90	100	40.1	63.5

SM-B-IHR Round



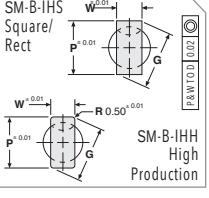
TYPE	"D"	"SBR"	71	80	90	100	MIN. "W"	MAX "P"
SM-B-IHO	13	20	71	80	90	100	5.0	32.0
SM-B-IHO	16	25	71	80	90	100	6.5	38.0
SM-B-IHO	20	25	71	80	90	100	8.0	38.0
SM-B-IHO	25	25	71	80	90	100	11.0	45.0
SM-B-IHO	32	32		80	90	100	12.5	50.0
SM-B-IHO	40	32		80	90	100	14.0	63.5

SM-B-IHO Oblong



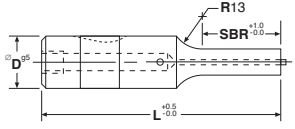
TYPE	"D"	"SBR"	71	80	90	100	MIN. "W"	MAX "G"
SM-B-IHS/B-IHH	13	20	71	80	90	100	5.0	32.0
SM-B-IHS/B-IHH	16	25	71	80	90	100	6.5	38.0
SM-B-IHS/B-IHH	20	25	71	80	90	100	8.0	38.0
SM-B-IHS/B-IHH	25	25	71	80	90	100	11.0	45.0
SM-B-IHS/B-IHH	32	32		80	90	100	12.5	50.0
SM-B-IHS/B-IHH	40	32		80	90	100	14.0	63.5

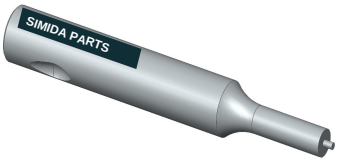
SM-B-IHS Square/ Rect



SM-B-IHH High Production

Ball-Lock Ejector Light-Duty





Ball Seat Location shown in Die Position



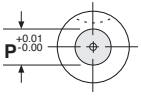
Angle From 0° Must Be Specified.
90° IS FURNISHED IF NOT SPECIFIED.

Ordering Example:
(12) SM-B-ELR 13-13-71 M2 P10.1
(12) SM-B-ELO 20-19-80 M2 P18.2 W9.5 BS-90ß

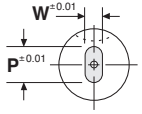
A2, R/c 59-61 double tempered
M2, R/c 61-63 triple tempered

Round P T O D	0.01
Shape P & W T O D	0.02

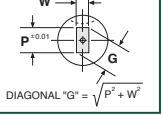
SM-B-ELR Round



SM-B-ELO Oblong

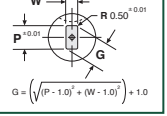


SM-B-ELS Square/rect



DIAGONAL "G" = $\sqrt{P^2 + W^2}$

SM-B-ELH High production

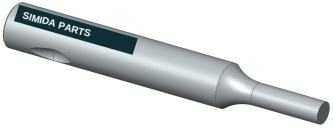


G = $\left(\sqrt{(P - 1.0)^2 + (W - 1.0)^2}\right) + 1.0$

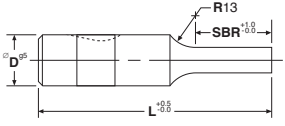
TYPE	"D"	POINT LENGTH "SBR"				OVERALL LENGTH "L"							MIN. "P"	EJECT TYPE
		8	13	19	25	50	56	63	71	80	90	100		
SM-B-EL_	6	8	13			50	56	63	71	80			1.9	E2AM
SM-B-EL_	10		13	19		50	56	63	71	80	90	100	2.9	E4M
SM-B-EL_	13		13	19		50	56	63	71	80	90	100	4.0	E6M
SM-B-EL_	16		13	19	25		56	63	71	80	90	100	6.0	E9M
SM-B-EL_	20		13	19	25		56	63	71	80	90	100	6.0	E9M
SM-B-EL_	25		13	19	25		56	63	71	80	90	100	8.0	E9M
SM-B-EL_	32		13	19	25				71	80	90	100	10.0	E12M
SM-B-EL_	38			19	25					80	90	100	12.0	E12M

L = 50, max. SBR = 13 L = 56, max. SBR = 19

R = ● O = ⬬ S = ▬■ H = ⬬



Ball-Lock Punch Light-Duty



Ordering Example:
(12) SM-B-LR 6-13-63 M2 P4.2
(15) SM-B-LO 25-19-80 M2 P21.6 W12.2 BS-90ß

A2, R/c 59-61 double tempered
M2, R/c 61-63 triple tempered

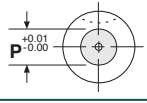
Round P T O D	0.01	◎
Shape P & W T O D	0.02	◎

Ball Seat Location shown in Die Position

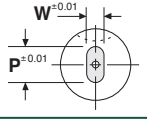


Angle From 0° Must Be Specified.
90° IS FURNISHED IF NOT SPECIFIED.

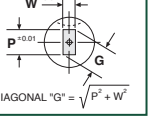
SM-B-LR Round



SM-B-LO Oblong

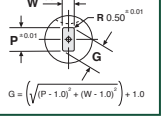


SM-B-LS Square/rec



DIAGONAL "G" = $\sqrt{P^2 + W^2}$

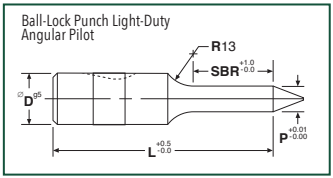
SM-B-LH High production

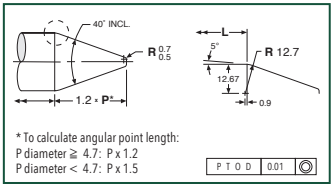


$G = \left(\sqrt{(P - 1.0)^2 + (W - 1.0)^2}\right) + 1.0$

TYPE	"D"	POINT LENGTH "SBR"				OVERALL LENGTH "L"							MIN. "P"
		8	13	19	25	50	56	63	71	80	90	100	
SM-B-L_	6	8	13			50	56	63	71	80			1.9
SM-B-L_	10		13	19		50	56	63	71	80	90	100	2.9
SM-B-L_	13		13	19		50	56	63	71	80	90	100	4.0
SM-B-L_	16		13	19	25		56	63	71	80	90	100	6.0
SM-B-L_	20		13	19	25		56	63	71	80	90	100	6.0
SM-B-L_	25		13	19	25		56	63	71	80	90	100	8.0
SM-B-L_	32		13	19	25				71	80	90	100	10.0
SM-B-L_	38			19	25					80	90	100	12.0

L = 50, max. SBR = 13 L = 56, max. SBR = 19





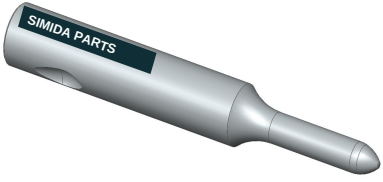


Ordering Example:
(12) SM-B-LA 10-19-71 M2 P5.2

M2, R/c 61-63 triple tempered

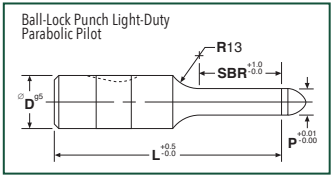
TYPE	"D"	POINT LENGTH "SBR"				LENGTH "L"									MIN.
		8	13	19	25	63	71	80	90	100	110	125	140	150	"P"
SM-B-LA	6	8	13			63	71	80	90						1.3
SM-B-LA	10		13	19		63	71	80	90	100	110				1.3
SM-B-LA	13		13	19		63	71	80	90	100	110	125	140		3.9
SM-B-LA	16		13	19	25	63	71	80	90	100	110	125	140	150	5.9
SM-B-LA	20		13	19	25		71	80	90	100	110	125	140	150	5.9
SM-B-LA	25		13	19	25		71	80	90	100	110	125	140	150	7.9
SM-B-LA	32		13	19	25			80	90	100	110	125	140	150	9.9
SM-B-LA	38			19	25			80	90	100	110	125	140	150	11.9

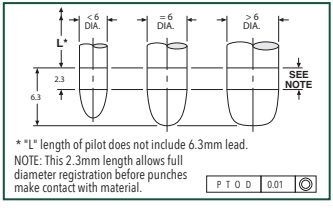
Light-duty Parabolic pilot



Ordering Example:
(15)SM-B-LP 16-19-63 M2 P8.8

M2, R/c 61-63 triple tempered





TYPE	"D"	POINT LENGTH "SBR"				LENGTH "L"							MIN. "P"
		8	13	19	25	50	56	63	71	80	90	100	
SM-B-LP	6	8	13			50	56	63	71	80			1.3
SM-B-LP	10		13	19		50	56	63	71	80	90	100	1.3
SM-B-LP	13		13	19		50	56	63	71	80	90	100	3.9
SM-B-LP	16		13	19	25		56	63	71	80	90	100	5.9
SM-B-LP	20		13	19	25		56	63	71	80	90	100	5.9
SM-B-LP	25		13	19	25		56	63	71	80	90	100	7.9
SM-B-LP	32		13	19	25				71	80	90	100	9.9
SM-B-LP	38			19	25					80	90	100	11.9

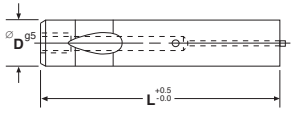
L = 50, max. SBR = 13 / L = 56, max. SBR = 19

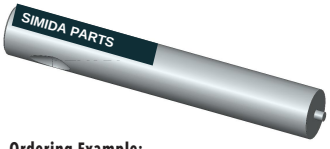
SM-B-ELB

SIMIDA Ball-Lock

Ejector Light-duty Blank

Ball-Lock Ejector Light-Duty Blank



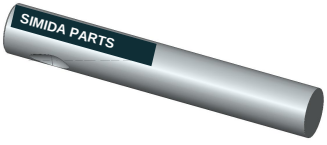


Ordering Example:
(15) SM-B-ELB 32-90 M2

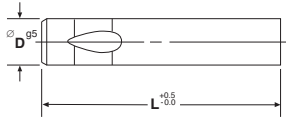
A2, R/c 59-61 double tempered
M2, R/c 61-63 triple tempered

TYPE	"D"	OVERALL LENGTH "L"							EJECT TYPE
		50	56	63	71	80	90	100	
SM-B-ELB	6	50	56	63	71	80			E2AM
SM-B-ELB	10	50	56	63	71	80	90	100	E4M
SM-B-ELB	13	50	56	63	71	80	90	100	E6M
SM-B-ELB	16		56	63	71	80	90	100	E9M
SM-B-ELB	20		56	63	71	80	90	100	E9M
SM-B-ELB	25		56	63	71	80	90	100	E9M
SM-B-ELB	32				71	80	90	100	E12M
SM-B-ELB	38					80	90	100	E12M

Light-duty Blank



Ball-Lock Punch Light-Duty Blank



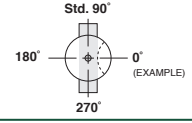
Ordering Example:
(12) SM-B-LB 32-125 M2

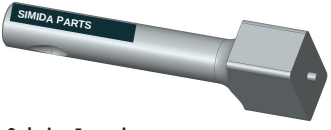
A2, R/c 59-61 double tempered
M2, R/c 61-63 triple tempered

TYPE	"D"	OVERALL LENGTH "L"												
		50	56	63	71	80	90	100	110	125	140	150	175	200
SM-B-LB	6	50	56	63	71	80	90	100						
SM-B-LB	10	50	56	63	71	80	90	100	110	125	140			
SM-B-LB	13	50	56	63	71	80	90	100	110	125	140	150	175	
SM-B-LB	16		56	63	71	80	90	100	110	125	140	150	175	
SM-B-LB	20		56	63	71	80	90	100	110	125	140	150	175	
SM-B-LB	25		56	63	71	80	90	100	110	125	140	150	175	
SM-B-LB	32				71	80	90	100	110	125	140	150	175	200
SM-B-LB	38					80	90	100	110	125	140	150	175	200

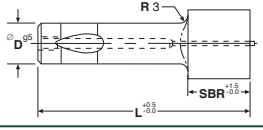
Ball Seat Location shown in Die Position

Angle From 0°
Must Be Specified.
90° IS FURNISHED
IF NOT SPECIFIED.





Ball-Lock Nose-Over-Ejector Light-Duty



Ordering Example:
(8) SM-B-IELR 25-25-90 M2 P32.4

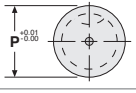
M2, R/c 61-63 triple tempered

SM-B-IEL "G" = $\sqrt{P^2 + W^2}$

BNLH "G" = $\left(\sqrt{(P - 1.0)^2 + (W - 1.0)^2}\right) + 1.0$

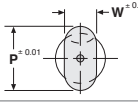
TYPE	"D"	POINT LENGTH "SBR"	OVERALL LENGTH "L" 71	80	90	100	MIN. "P"	MAX "P"	EJECT. TYPE
SM-B-IELR	10	16	71	80	90	100	10.1	22.0	E4M
SM-B-IELR	13	20	71	80	90	100	13.1	32.0	E6M
SM-B-IELR	16	25	71	80	90	100	16.1	38.0	E9M
SM-B-IELR	20	25	71	80	90	100	20.1	38.0	E9M
SM-B-IELR	25	25	71	80	90	100	25.1	45.0	E9M
SM-B-IELR	32	32		80	90	100	32.1	50.0	E12M

SM-B-IELR ROUND



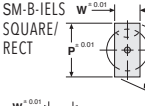
TYPE	"D"	"SBR"	71	80	90	100	MIN. "W"	MAX "P"	EJECT. TYPE
SM-B-IELO	10	16	71	80	90	100	4.5	22.0	E4M
SM-B-IELO	13	20	71	80	90	100	5.0	32.0	E6M
SM-B-IELO	16	25	71	80	90	100	6.5	38.0	E9M
SM-B-IELO	20	25	71	80	90	100	8.0	38.0	E9M
SM-B-IELO	25	25	71	80	90	100	11.0	45.0	E9M
SM-B-IELO	32	32		80	90	100	12.5	50.0	E12M

SM-B-IELO OBLONG

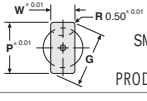


TYPE	"D"	"SBR"	71	80	90	100	MIN. "W"	MAX "G"	EJECT. TYPE
SM-B-IELS/IELH	10	16	71	80	90	100	4.5	22.0	E4M
SM-B-IELS/IELH	13	20	71	80	90	100	5.0	32.0	E6M
SM-B-IELS/IELH	16	25	71	80	90	100	6.5	38.0	E9M
SM-B-IELS/IELH	20	25	71	80	90	100	8.0	38.0	E9M
SM-B-IELS/IELH	25	25	71	80	90	100	11.0	45.0	E9M
SM-B-IELS/IELH	32	32		80	90	100	12.5	50.0	E12M

SM-B-IELS SQUARE/ RECT



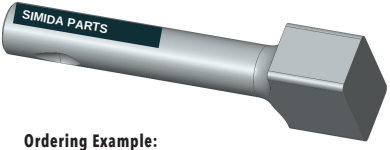
SM-B-IELH HIGH PRODUCTION



Inverted Light-duty

SIMIDA Ball-Lock

R = ● O = ▬ S = ▬■ H = ▬



Ordering Example:
(9) SM-B-ILR 25-25-90 M2 P32.4

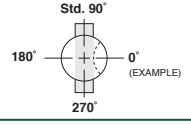
M2, R/c 61-63 triple tempered

SM-B-ILS "G" = $\sqrt{P^2 + W^2}$

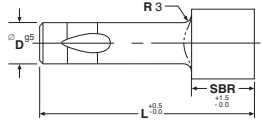
BILH "G" = $\left(\sqrt{(P - 1.0)^2 + (W - 1.0)^2}\right) + 1.0$

Ball Seat Location shown in Die Position

Angle From 0° Must Be Specified. 90° IS FURNISHED IF NOT SPECIFIED.

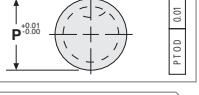


Ball-Lock Inverted Light-Duty



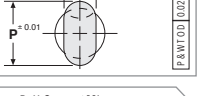
TYPE	"D"	POINT LENGTH "SBR"	OVERALL LENGTH "L"				MIN. "P"	MAX "P"
			71	80	90	100		
SM-B-ILR	10	16	71	80	90	100	10.1	22.0
SM-B-ILR	13	20	71	80	90	100	13.1	32.0
SM-B-ILR	16	25	71	80	90	100	16.1	38.0
SM-B-ILR	20	25	71	80	90	100	20.1	38.0
SM-B-ILR	25	25	71	80	90	100	25.1	45.0
SM-B-ILR	32	32		80	90	100	32.1	50.0

SM-B-ILR ROUND



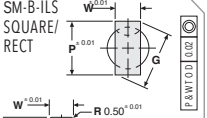
TYPE	"D"	"SBR"	71	80	90	100	MIN. "W"	MAX "P"
SM-B-ILO	10	16	71	80	90	100	4.5	22.0
SM-B-ILO	13	20	71	80	90	100	5.0	32.0
SM-B-ILO	16	25	71	80	90	100	6.5	38.0
SM-B-ILO	20	25	71	80	90	100	8.0	38.0
SM-B-ILO	25	25	71	80	90	100	11.0	45.0
SM-B-ILO	32	32		80	90	100	12.5	50.0

SM-B-ILO OBLONG



TYPE	"D"	"SBR"	71	80	90	100	MIN. "W"	MAX "G"
SM-B-ILS/SM-B-ILH	10	16	71	80	90	100	4.5	22.0
SM-B-ILS/SM-B-ILH	13	20	71	80	90	100	5.0	32.0
SM-B-ILS/SM-B-ILH	16	25	71	80	90	100	6.5	38.0
SM-B-ILS/SM-B-ILH	20	25	71	80	90	100	8.0	38.0
SM-B-ILS/SM-B-ILH	25	25	71	80	90	100	11.0	45.0
SM-B-ILS/SM-B-ILH	32	32		80	90	100	12.5	50.0

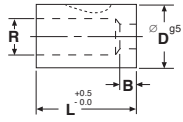
SM-B-ILS SQUARE/ RECT

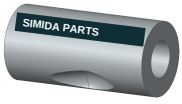


SM-B-ILH HIGH PRODUCTION

SM-D-BLR

Round





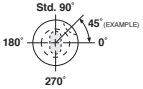
TYPE	"D"	LAND "B"	OVERALL LENGTH "L"	MIN. "W"	MAX. "P"/"G"	MAX. "R"
SM-D-BL_	13	4.0	32	1.2	5.0	5.8
SM-D-BL_	16	5.0	32	2.0	7.2	8.0
SM-D-BL_	20	5.0	32	2.4	11.0	11.9
SM-D-BL_	25	6.0	32	4.0	15.0	16.0
SM-D-BL_	32	6.0	32	4.8	19.0	20.0
SM-D-BL_	38	8.0	32	6.4	26.0	27.0

Ordering Example:
(10) SM-D-BLR 20-32 A2 P9.8
(10) SM-D-BLO 13-32 A2 P4.4 W1.3 BS-90
A2, R/c 59-61 double tempered

Round P T O D	0.01 Ⓜ
Shape P & W T O D	0.02 Ⓜ

TYPE	"D"	LAND "B"	LENGTH "L"	MIN. "P"	MAX. "P"	MAX. "R"
SM-D-BLR	13	4.0	32	1.5	5.0	5.8
SM-D-BLR	16	5.0	32	3.2	7.2	8.0
SM-D-BLR	20	5.0	32	4.0	11.0	11.9
SM-D-BLR	25	6.0	32	8.0	15.0	16.0
SM-D-BLR	32	6.0	32	11.0	19.0	20.0
SM-D-BLR	38	8.0	32	16.5	26.0	27.0

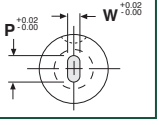
Ball Seat Location shown in Die Position



Angle From 0° Must Be Specified.
90° IS FURNISHED IF NOT SPECIFIED.

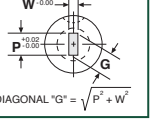
SM-D-BLO

Oblong



SM-D-BLS

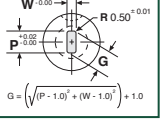
Square/rect



DIAGONAL "G" = $\sqrt{P^2 + W^2}$

SM-D-BLH

High production



$G = \left(\sqrt{(P - 1.0)^2 + (W - 1.0)^2}\right) + 1.0$

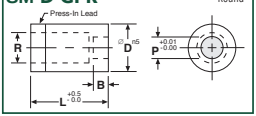
R = ● O = ▬ S = ▬■ H = ▬



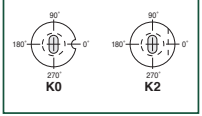
Ordering Example:
(12) SM-D-GPR 25-12-30 A2 P13.7
(9) SM-D-GPO 38-12-32 A2 P27.1 W21.1 K0
A2, R/c 59-61 double tempered

Round P T O D	0.01	◎
Shape P & W T O D	0.02	◎

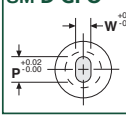
SM-D-GPR Round



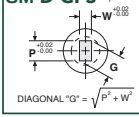
Key-Flats in Die Position.



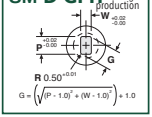
SM-D-GPO Oblong



SM-D-GPS Square/rect



SM-D-GPH High production



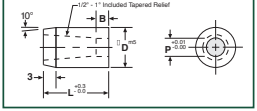
TYPE	"D"	LAND "B"		OVERALL LENGTH "L"								MIN. "W"	MAX. "P"/"G"	MAX. "R"
				20	22	25	28	30	32	35	40			
SM-D-GP_	10	4	8	20	22	25	28	30	32	35		1.2	5.0	5.8
SM-D-GP_	13	5	8	20	22	25	28	30	32	35		2.0	7.2	8.0
SM-D-GP_	16	5	8	20	22	25	28	30	32	35		2.4	8.8	9.5
SM-D-GP_	20	5	12	20	22	25	28	30	32	35		3.2	11.0	11.9
SM-D-GP_	22	6	12	20	22	25	28	30	32	35		4.0	13.8	14.7
SM-D-GP_	25	6	12	20	22	25	28	30	32	35		4.8	16.5	17.4
SM-D-GP_	32	6	12	20	22	25	28	30	32	35		5.5	19.8	20.6
SM-D-GP_	38	8	12	20	22	25	28	30	32	35		6.4	26.0	27.0
SM-D-GP_	40	8	12	20		25	28	30	32	35		6.4	26.0	27.0
SM-D-GP_	45	8	12	20		25	28	30	32	35	40	8.0	35.0	36.0
SM-D-GP_	50	8	12	20		25	28	30	32	35	40	9.0	40.0	41.0
SM-D-GP_	56	8	12	20		25	28	30	32	35	40	10.0	45.0	46.0
SM-D-GP_	63	8	12	20		25	28	30	32	35	40	11.0	50.0	51.0
SM-D-GP_	71	8	12	20		25	28	30	32	35	40	12.0	56.0	57.0
SM-D-GP_	76	8	12	20		25	28	30	32	35	40	15.0	60.0	61.0
SM-D-GP_	85	8	12	20		25	28	30	32	35	40	21.0	66.0	67.0
SM-D-GP_	90	8	12	20		25	28	30	32	35	40	25.0	70.0	71.0
SM-D-GP_	100	8	12	20		25	28	30	32	35	40	33.0	78.0	79.0

TYPE	"D"	STAGE "B"		OVERALL LENGTH "L"								POINT RANGE "P"	MAX. "R"
				20	22	25	28	30	32	35	40		
SM-D-GPR	8	4	8	20	22	25	28	30	32	35		1.5 - 3.2	4.0
SM-D-GPR	10	4	8	20	22	25	28	30	32	35		1.5 - 5.0	5.8
SM-D-GPR	13	5	8	20	22	25	28	30	32	35		3.0 - 7.2	8.0
SM-D-GPR	16	5	8	20	22	25	28	30	32	35		5.0 - 8.8	9.5
SM-D-GPR	20	5	12	20	22	25	28	30	32	35		7.0 - 11.0	11.9
SM-D-GPR	22	6	12	20	22	25	28	30	32	35		9.0 - 13.8	14.7
SM-D-GPR	25	6	12	20	22	25	28	30	32	35		11.0 - 16.5	17.4
SM-D-GPR	32	6	12	20	22	25	28	30	32	35		13.0 - 19.8	20.6
SM-D-GPR	38	8	12	20	22	25	28	30	32	35		16.0 - 26.0	27.0
SM-D-GPR	40	8	12	20		25	28	30	32	35		16.0 - 26.0	27.0
SM-D-GPR	45	8	12	20		25	28	30	32	35	40	19.0 - 35.0	36.0
SM-D-GPR	50	8	12	20		25	28	30	32	35	40	22.0 - 40.0	41.0
SM-D-GPR	56	8	12	20		25	28	30	32	35	40	25.0 - 45.0	46.0
SM-D-GPR	63	8	12	20		25	28	30	32	35	40	28.0 - 50.0	51.0
SM-D-GPR	71	8	12	20		25	28	30	32	35	40	31.0 - 56.0	57.0
SM-D-GPR	76	8	12	20		25	28	30	32	35	40	39.0 - 60.0	61.0
SM-D-GPR	85	8	12	20		25	28	30	32	35	40	43.0 - 66.0	67.0
SM-D-GPR	90	8	12	20		25	28	30	32	35	40	45.0 - 70.0	71.0
SM-D-GPR	100	8	12	20		25	28	30	32	35	40	50.0 - 78.0	79.0

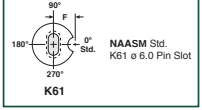
R = ● O = ⬬ S = ▬■ H = ⬬

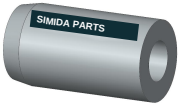
SM-D-PPR

Round



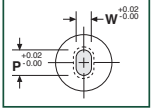
Key-Flats in Die Position.





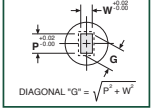
SM-D-PPO

Oblong



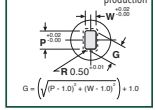
SM-D-PPS

Square/rect



SM-D-PPH

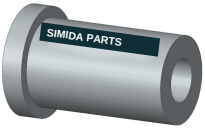
High production



Ordering Example:
(12) SM-D-PPR 25-3-30 A2 P13.7
(9) SM-D-PPO 38-8-32 A2 P26.4 W17.1 K61

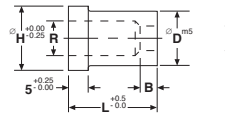
TYPE	"D"	LAND "B"			OVERALL LENGTH "L"										MIN. "W"	MAX. "P"/"G"
					13	16	20	22	25	28	30	32	35	40		
SM-D-GP	10	3	4	5	13	16	20	22	25	28	30	32	35		1.3	6.8
SM-D-GP	13	3	5	8	13	16	20	22	25	28	30	32	35		1.9	8.8
SM-D-GP	16	3	5	8			20	22	25	28	30	32	35		1.9	10.8
SM-D-GP	20	3	5	10			20	22	25	28	30	32	35		1.9	13.6
SM-D-GP	22	3	6	10			20	22	25	28	30	32	35		1.9	15.0
SM-D-GP	25	3	6	10			20	22	25	28	30	32	35		1.9	17.0
SM-D-GP	32	3	6	12			20	22	25	28	30	32	35		1.9	22.0
SM-D-GP	38	3	8	12			20	22	25	28	30	32	35		1.9	27.0
SM-D-GP	40	3	8	12			20	22	25	28	30	32	35		1.9	27.0
SM-D-GP	45	3	8	12				22	25	28	30	32	35	40	2.4	35.0
SM-D-GP	50	3	8	12				22	25	28	30	32	35	40	4.0	40.0
SM-D-GP	56	3	8	12				22	25	28	30	32	35	40	4.0	45.0
SM-D-GP	63	3	8	12				22	25	28	30	32	35	40	4.0	50.0
SM-D-GP	71	3	8	12				22	25	28	30	32	35	40	4.0	56.0
SM-D-GP	76	3	8	12					25	28	30	32	35	40	5.6	60.0
SM-D-GP	85	3	8	12					25	28	30	32	35	40	5.6	66.0
SM-D-GP	90	3	8	12					25	28	30	32	35	40	5.6	70.0
SM-D-GP	100	3	8	12					25	28	30	32	35	40	5.6	0

TYPE	"D"	LAND "B"			OVERALL LENGTH "L"										POINT RANGE "P"
					13	16	20	22	25	28	30	32	35	40	
SM-D-GPR	10	3	4	5	13	16	20	22	25	28	30	32	35		1.6 - 6.8
SM-D-GPR	13	3	5	8	13	16	20	22	25	28	30	32	35		3.0 - 8.8
SM-D-GPR	16	3	5	8			20	22	25	28	30	32	35		7.4 - 10.8
SM-D-GPR	20	3	5	10			20	22	25	28	30	32	35		9.5 - 13.6
SM-D-GPR	22	3	6	10			20	22	25	28	30	32	35		10.5 - 15.0
SM-D-GPR	25	3	6	10			20	22	25	28	30	32	35		12.0 - 17.0
SM-D-GPR	32	3	6	12			20	22	25	28	30	32	35		16.0 - 22.0
SM-D-GPR	38	3	8	12			20	22	25	28	30	32	35		18.0 - 27.0
SM-D-GPR	40	3	8	12			20	22	25	28	30	32	35		18.0 - 27.0
SM-D-GPR	45	3	8	12				22	25	28	30	32	35	40	18.0 - 35.0
SM-D-GPR	50	3	8	12				22	25	28	30	32	35	40	18.0 - 40.0
SM-D-GPR	56	3	8	12				22	25	28	30	32	35	40	18.0 - 45.0
SM-D-GPR	63	3	8	12				22	25	28	30	32	35	40	18.0 - 50.0
SM-D-GPR	71	3	8	12				22	25	28	30	32	35	40	18.0 - 56.0
SM-D-GPR	76	3	8	12					25	28	30	32	35	40	25.0 - 60.0
SM-D-GPR	85	3	8	12					25	28	30	32	35	40	25.0 - 66.0
SM-D-GPR	90	3	8	12					25	28	30	32	35	40	32.0 - 70.0
SM-D-GPR	100	3	8	12					25	28	30	32	35	40	32.0 - 78.0



SM-D-SGR

Round

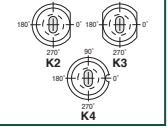


Ordering Example:
(15) SM-D-SGR 13-28 A2 P4.5
A2, R/c 59-61 double tempered

TYPE	"D"	LAND "B"	OVERALL LENGTH "L"							MIN. "W"	MAX. "P"/"G"	MAX. "R"	HEAD DIA "H"
			20	22	25	28	30	32	35				
SM-D-SG_	10	4	20	22	25	28	30	32	35	1.2	5.0	5.8	13
SM-D-SG_	13	5	20	22	25	28	30	32	35	2.0	7.2	8.0	16
SM-D-SG_	16	5	20	22	25	28	30	32	35	2.4	8.8	9.5	19
SM-D-SG_	20	5	20	22	25	28	30	32	35	3.2	11.0	11.9	24
SM-D-SG_	22	6	20	22	25	28	30	32	35	4.0	13.8	14.7	26
SM-D-SG_	25	6	20	22	25	28	30	32	35	4.8	16.5	17.4	29
SM-D-SG_	32	6	20	22	25	28	30	32	35	5.5	19.8	20.6	36
SM-D-SG_	38	8	20	22	25	28	30	32	35	6.4	26.0	27.0	42

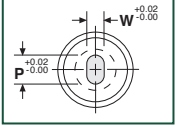
TYPE	"D"	LAND "B"	OVERALL LENGTH "L"							POINT RANGE "P"	MAX. "R"	HEAD DIA "H"
			20	22	25	28	30	32	35			
SM-D-SGR	10	4	20	22	25	28	30	32	35	1.5 - 5.0	5.8	13
SM-D-SGR	13	5	20	22	25	28	30	32	35	3.0 - 7.2	8.0	16
SM-D-SGR	16	5	20	22	25	28	30	32	35	5.0 - 8.8	9.5	19
SM-D-SGR	20	5	20	22	25	28	30	32	35	7.0 - 11.0	11.9	24
SM-D-SGR	22	6	20	22	25	28	30	32	35	9.0 - 13.8	14.7	26
SM-D-SGR	25	6	20	22	25	28	30	32	35	11.0 - 16.5	17.4	29
SM-D-SGR	32	6	20	22	25	28	30	32	35	13.0 - 19.8	20.6	36
SM-D-SGR	38	8	20	22	25	28	30	32	35	16.0 - 26.0	27.0	42

Key Flat in Die Position



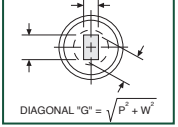
SM-D-SGO

Oblong



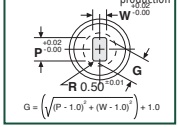
SM-D-SGS

Square/rect

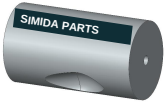


SM-D-SGH

High production

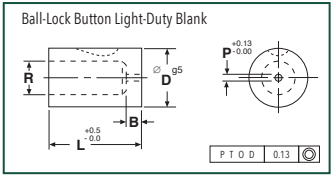


Bal-lock Light-duty Blank



Ordering Example:
(10) SM-D-BLB 20-32 A2

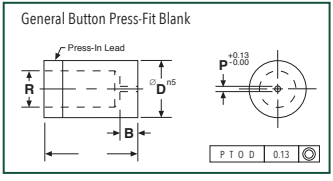
A2, R/c 59-61 double tempered



TYPE	"D"	LAND "B"	LENGTH "L"	DRILL "P"	MAX "R"
SM-D-BLB	13	4.0	32	0.8	5.8
SM-D-BLB	16	5.0	32	1.2	8.0
SM-D-BLB	20	5.0	32	1.5	1.9
SM-D-BLB	25	6.0	32	3.2	16.0
SM-D-BLB	32	6.0	32	3.2	20.0
SM-D-BLB	38	8.0	32	3.2	27.0

General Press-fit Blank



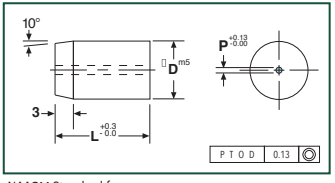


Ordering Examples:
STANDARD:
(15) SM-D-GPB 40-8-30 A2
WITH OPTIONAL THRU HOLE:
(12) SM-D-GPB 32-35 A2
P3.0 DRILL-THRU

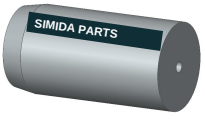
A2, R/c 59-61 double tempered

TYPE	"D"	LAND "B"			OVERALL LENGTH "L"								DRILL "P"	MAX. "R"
					20	22	25	28	30	32	35	40		
SM-D-GPB	8	4	8		20	22	25	28	30	32	35		0.8	4.0
SM-D-GPB	10	4	8		20	22	25	28	30	32	35		0.8	5.8
SM-D-GPB	13	5	8		20	22	25	28	30	32	35		0.8	8.0
SM-D-GPB	16	5	8		20	22	25	28	30	32	35		1.5	9.5
SM-D-GPB	20	5	12		20	22	25	28	30	32	35		2.4	11.9
SM-D-GPB	22	6	12		20	22	25	28	30	32	35		3.0	14.7
SM-D-GPB	25	6	12		20	22	25	28	30	32	35		3.0	17.4
SM-D-GPB	32	6	12		20	22	25	28	30	32	35		3.0	20.6
SM-D-GPB	38	8	12		20	22	25	28	30	32	35		3.0	27.0
SM-D-GPB	40	8	12	20			25	28	30	32	35		3.0	27.0
SM-D-GPB	45	8	12	20			25	28	30	32	35	40	3.0	36.0
SM-D-GPB	50	8	12	20			25	28	30	32	35	40	3.0	41.0
SM-D-GPB	56	8	12	20			25	28	30	32	35	40	3.0	46.0
SM-D-GPB	63	8	12	20			25	28	30	32	35	40	3.0	51.0
SM-D-GPB	71	8	12	20			25	28	30	32	35	40	3.0	57.0
SM-D-GPB	76	8	12	20			25	28	30	32	35	40	3.0	61.0
SM-D-GPB	85	8	12	20			25	28	30	32	35	40	3.0	67.0
SM-D-GPB	90	8	12	20			25	28	30	32	35	40	3.0	71.0
SM-D-GPB	100	8	12	20			25	28	30	32	35	40	3.0	79.0

Press-fit Posotion Blank



NAASM Standard for
CNC build Applications

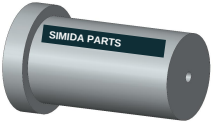


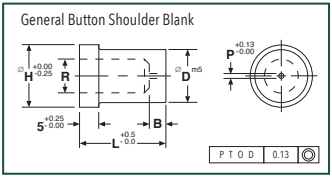
Ordering Example
(15) SM-D-PPB 16-22 A2

A2, R/c 60-63 double tempered

TYPE	"D"	OVERALL LENGTH "L"										DRILL "P"
		13	16	20	22	25	28	30	32	35	40	
SM-D-PPB	10	13	16	20	22	25	28	30	32	35		0.8
SM-D-PPB	13	13	16	20	22	25	28	30	32	35		0.8
SM-D-PPB	16			20	22	25	28	30	32	35		1.5
SM-D-PPB	20			20	22	25	28	30	32	35		2.4
SM-D-PPB	22			20	22	25	28	30	32	35		3.0
SM-D-PPB	25			20	22	25	28	30	32	35		3.0
SM-D-PPB	32			20	22	25	28	30	32	35		3.0
SM-D-PPB	38			20	22	25	28	30	32	35		3.0
SM-D-PPB	40			20	22	25	28	30	32	35		3.0
SM-D-PPB	45				22	25	28	30	32	35	40	3.0
SM-D-PPB	50				22	25	28	30	32	35	40	3.0
SM-D-PPB	56				22	25	28	30	32	35	40	3.0
SM-D-PPB	63				22	25	28	30	32	35	40	3.0
SM-D-PPB	71				22	25	28	30	32	35	40	3.0
SM-D-PPB	76					25	28	30	32	35	40	3.0
SM-D-PPB	85					25	28	30	32	35	40	3.0
SM-D-PPB	90					25	28	30	32	35	40	3.0
SM-D-PPB	100					25	28	30	32	35	40	3.0

Sholder General Blank





Ordering Examples:

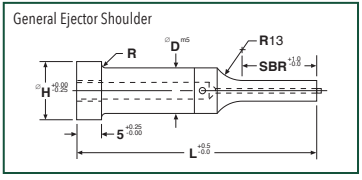
STANDARD:
(15) SM-D-SGB 16-22 A2
WITH OPT AL THRU HOLE:
(12) SM-D-SGB 25-32 A2
3.0 DRILL-THRU

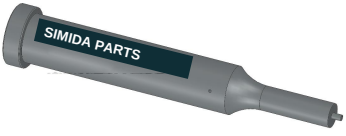
A2, R/c 59-61 double tempered

TYPE	"D"	LAND "B"	OVERALL LENGTH "L"							DRILL "P"	MAX. "R"	HEAD DIA. "H"
			20	22	25	28	30	32	35			
SM-D-SGB	10	4	20	22	25	28	30	32	35	0.8	5.8	13
SM-D-SGB	13	5	20	22	25	28	30	32	35	0.8	8.0	16
SM-D-SGB	16	5	20	22	25	28	30	32	35	1.5	9.5	19
SM-D-SGB	20	5	20	22	25	28	30	32	35	2.4	11.9	24
SM-D-SGB	22	6	20	22	25	28	30	32	35	3.0	14.7	26
SM-D-SGB	25	6	20	22	25	28	30	32	35	3.0	17.4	29
SM-D-SGB	32	6	20	22	25	28	30	32	35	3.0	20.6	36
SM-D-SGB	32	8	20	22	25	28	30	32	35	3.0	27.0	42

SIMIDA Altem-head

R = ● O = ⬬ S = ▬■ H = ⬬

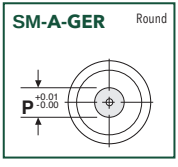


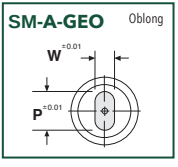


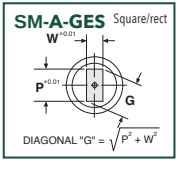
Ordering Example:
(12) SM-A-GER 13-13-71 M2 P10.1
(12) SM-A-GEO 20-19-80 M2 P18.2 W9.5 K4

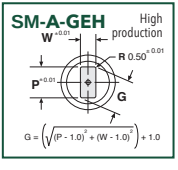
A2, R/c 59-61 double tempered
M2, R/c 61-63 triple tempered
Heads drawn to Rc 40-55.

Round P T O D	0.01	◎
Shape P & W T O D	0.02	◎

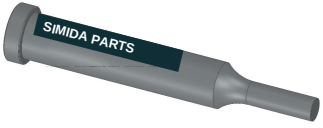




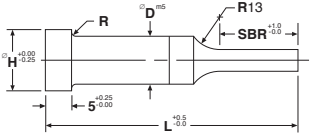




TYPE	"D"	POINT LENGTH "SBR"						LENGTH "L"							ROUND "P" MIN.	SHAPE "W" MIN.	HEAD DIA. "H"	EJECT TYPE
		8	10	13	19	25	32	50	56	63	71	80	90	100				
SM-A-GE_	5	8	10	13				50	56	63	71				1.9	1.9	8	E2AM
SM-A-GE_	6	8	10	13				50	56	63	71	80			2.0	2.0	9	E3M
SM-A-GE_	8	8	10	13				50	56	63	71	80			2.9	2.9	11	E4M
SM-A-GE_	10		10	13	19			50	56	63	71	80	90	100	4.0	4.0	13	E6M
SM-A-GE_	13		10	13	19			50	56	63	71	80	90	100	4.0	4.0	16	E6M
SM-A-GE_	16			13	19	25		50	56	63	71	80	90	100	5.7	5.7	19	E9M
SM-A-GE_	20			13	19	25			56	63	71	80	90	100	5.7	5.7	24	E9M
SM-A-GE_	25			13	19	25			56	63	71	80	90	100	5.7	5.7	29	E9M
SM-A-GE_	32				19	25	32				71	80	90	100	9.9	9.9	36	E12M
SM-A-GE_	40				19	25	32					80	90	100	12.0	12.0	45	E12M
SM-A-GE_	45					25	32					80	90	100	14.0	14.0	50	E12M
SM-A-GE_	50					25	32					80	90	100	16.0	16.0	55	E12M
SM-A-GE_	56					25	32					80	90	100	18.0	18.0	61	E12M
SM-A-GE_	63					25	32					80	90	100	20.0	20.0	68	E12M



General Punch Shoulder



Ordering Example:

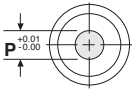
(12) SM-A-GPR 6-13-63 M2 P4.2

(12) SM-A-GPO 25-19-80 M2 P21.6 W12.2 K2

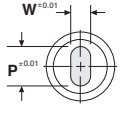
A2, R/c 59-61 double tempered
M2, R/c 61-63 triple tempered
Heads drawn to Rc 40-55.

Round P T O D	0.01
Shape P & W T O D	0.02

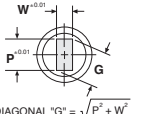
SM-A-GPR Round



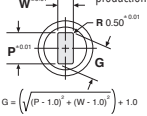
SM-A-GPO Oblong



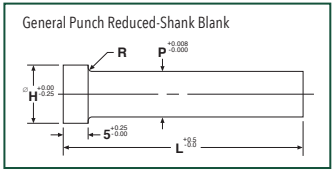
SM-A-GPS Square/rect

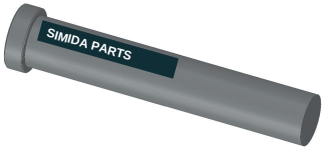


SM-A-GPH High production



TYPE	"D"	POINT LENGTH "SBR"						LENGTH "L"							ROUND "P" MIN.	SHAPE "W" MIN.	HEAD DIA. "H"
		8	10	13	19	25	32	50	56	63	71	80	90	100			
SM-A-GP_	4	8	10					50	56	63	71				0.8	0.8	7
SM-A-GP_	5	8	10	13				50	56	63	71				1.3	1.3	8
SM-A-GP_	6	8	10	13				50	56	63	71	80			1.4	1.4	9
SM-A-GP_	8	8	10	13				50	56	63	71	80			1.5	1.5	11
SM-A-GP_	10		10	13	19			50	56	63	71	80	90	100	1.9	1.9	13
SM-A-GP_	13		10	13	19			50	56	63	71	80	90	100	3.1	3.1	16
SM-A-GP_	16			13	19	25		50	56	63	71	80	90	100	5.7	5.7	19
SM-A-GP_	20			13	19	25			56	63	71	80	90	100	5.7	5.7	24
SM-A-GP_	25			13	19	25			56	63	71	80	90	100	5.7	5.7	29
SM-A-GP_	32				19	25	32				71	80	90	100	9.9	9.9	36
SM-A-GP_	40				19	25	32					80	90	100	12.0	12.0	45
SM-A-GP_	45					25	32					80	90	100	14.0	14.0	50
SM-A-GP_	50					25	32					80	90	100	16.0	16.0	55
SM-A-GP_	56					25	32					80	90	100	18.0	18.0	61
SM-A-GP_	63					25	32					80	90	100	20.0	20.0	68





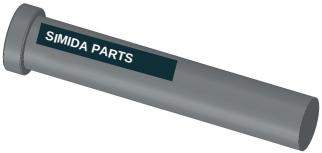
Ordering Example:
(10) SM-A-GPRB 10-63 M2 P8.2

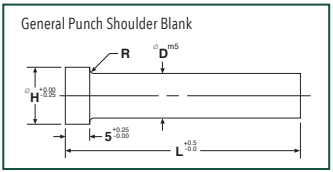
A2, R/c 59-61double tempered
M2, R/c 61-63 triple tempered
Heads drawn to Rc 40-55

TYPE	"D"	OVERALL LENGTH "L"							POINT RANGE "P"	HEAD DIA. "H"
		50	56	63	71	80	90	100		
SM-A-GPRB	5	50	56	63	71				3.2- 4.9	8
SM-A-GPRB	6	50	56	63	71	80			4.7- 5.9	9
SM-A-GPRB	8	50	56	63	71	80			6.0- 7.9	11
SM-A-GPRB	10	50	56	63	71	80	90	100	8.0- 9.9	13

General Punch Blank

SIMIDA Altem-head





Ordering Example:
(15)SM-A-GPB 40-125 M2

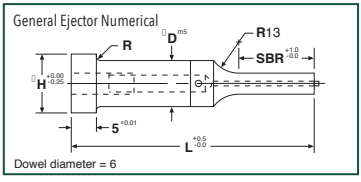
A2, R/c 59-61double tempered
M2, R/c 61-63 triple tempered
Heads drawn to Rc 40-55

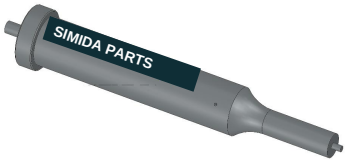
TYPE	"D"	OVERALL LENGTH "L"													HEAD DIA. "H"
		50	56	63	71	80	90	100	110	125	140	150	175	200	
SM-A-GPB	4	50	56	63											7
SM-A-GPB	5	50	56	63	71										8
SM-A-GPB	6	50	56	63	71	80	90								9
SM-A-GPB	8	50	56	63	71	80	90								11
SM-A-GPB	10	50	56	63	71	80	90	100	110	125					13
SM-A-GPB	13	50	56	63	71	80	90	100	110	125	140	150			16
SM-A-GPB	16	50	56	63	71	80	90	100	110	125	140	150	175		19
SM-A-GPB	20		56	63	71	80	90	100	110	125	140	150	175		24
SM-A-GPB	25		56	63	71	80	90	100	110	125	140	150	175		29
SM-A-GPB	32				71	80	90	100	110	125	140	150	175	200	36
SM-A-GPB	40					80	90	100	110	125	140	150	175	200	45
SM-A-GPB	45					80	90	100	110	125	140	150	175	200	50
SM-A-GPB	50					80	90	100	110	125	140	150	175	200	55
SM-A-GPB	56					80	90	100	110	125	140	150	175	200	61
SM-A-GPB	63					80	90	100	110	125	140	150	175	200	68

SIMIDA Altem-head

Ejector Numerical

R = ● O = ▬ S = ▬■ H = ▬



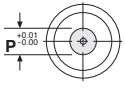


Ordering Example:
(12) SM-A-ENR 13-13-71 A2 P10.1
(12) SM-A-ENO 20-19-80 A2 P18.2 W9.5 K2

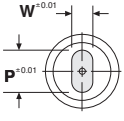
A2, R/c 59-61 double tempered
Heads drawn to Rc 40-55.

Round P T O D	0.01 ◎
Shape P & W T O D	0.02 ◎

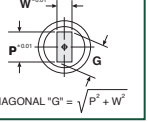
SM-A-ENR Round



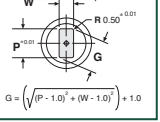
SM-A-ENO Oblong



SM-A-ENS Square/rect



SM-A-ENH High production

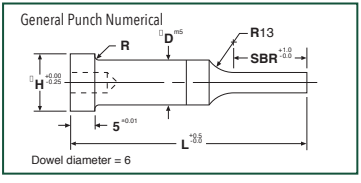


TYPE	"D"	POINT LENGTH "SBR"					OVERALL LENGTH "L"				MIN. "P"	HEAD DIA. "H"	EJECT TYPE
		10	13	19	25	32	71	80	90	100			
SM-A-EN_	10	10	13	19			71	80	90	100	4.0	13	E6M
SM-A-EN_	13	10	13	19			71	80	90	100	4.0	16	E6M
SM-A-EN_	16		13	19	25		71	80	90	100	5.7	19	E9M
SM-A-EN_	20		13	19	25		71	80	90	100	5.7	24	E9M
SM-A-EN_	25		13	19	25		71	80	90	100	5.7	29	E9M
SM-A-EN_	32			19	25	32	71	80	90	100	9.9	36	E9M

R = ● O = ▬ S = ▬■ H = ▬

SIMIDA Altem-head



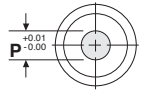


Ordering Example:
(12) SM-A-PNR 13-13-71 M2 P10.1
(12) SM-A-PNO 25-19-80 A2 P23.1 W12.2 K2

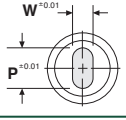
A2, R/c 59-61 double tempered
Heads drawn to Rc 40-55.

Round P T O D	0.01
Shape P & W T O D	0.02

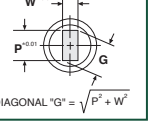
SM-A-PNR Round



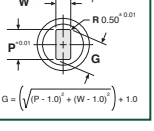
SM-A-PNO Oblong



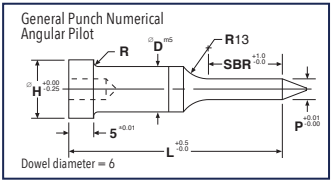
SM-A-PNS Square/rect

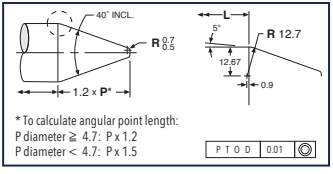


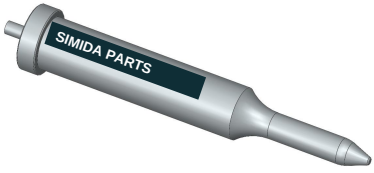
SM-A-PNH High production



TYPE	"D"	POINT LENGTH "SBR"					OVERALL LENGTH "L"				MIN. "P"	HEAD DIA. "H"
		10	13	19	25	32	71	80	90	100		
SM-A-PN_	10	10	13	19			71	80	90	100	4.0	13
SM-A-PN_	13	10	13	19			71	80	90	100	4.0	16
SM-A-PN_	16		13	19	25		71	80	90	100	5.7	19
SM-A-PN_	20		13	19	25		71	80	90	100	5.7	24
SM-A-PN_	25		13	19	25		71	80	90	100	5.7	29
SM-A-PN_	32			19	25	32	71	80	90	100	9.9	36







Ordering Example:
(12) SM-A-PNA 20-19-125 A2 P19.3

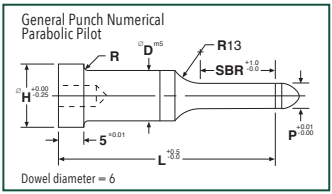
A2, R/c 59-61 double tempered
Heads drawn to Rc 40-55.

TYPE	"D"	POINT LENGTH "SBR"					LENGTH "L"								MIN. "P"	HEAD DIA. "H"
		10	13	19	25	32	63	71	80	90	100	110	125	140		
SM-A-PNA	10	10	13	19			63	71	80	90	100	110			1.8	13
SM-A-PNA	13	10	13	19			63	71	80	90	100	110	125		3.0	16
SM-A-PNA	16		13	19	25			71	80	90	100	110	125	140	5.6	19
SM-A-PNA	20		13	19	25			71	80	90	100	110	125	140	5.6	24
SM-A-PNA	25		13	19	25				80	90	100	110	125	140	5.6	29
SM-A-PNA	32			19	25	32			80	90	100	110	125	140	9.8	36

Punch Numerical Parabolic pilot

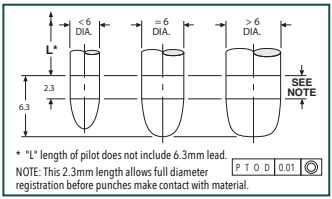
SIMIDA Altem-head



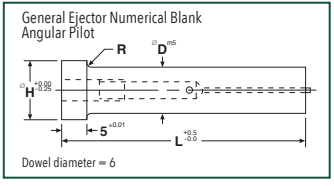


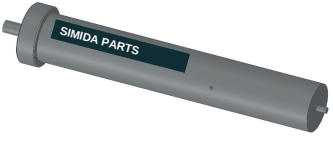
Ordering Example:
(18) SM-A-PNP 16-19-56 A2 P15.1

A2, R/c 59-61 double tempered
Heads drawn to Rc 40-55.



TYPE	"D"	POINT LENGTH "SBR"					OVERALL LENGTH "L"				MIN. "P"	HEAD DIA. "H"
		10	13	19	25	32	71	80	90	100		
SM-A-PNP	10	10	13	19			71	80	90	100	1.8	13
SM-A-PNP	13	10	13	19			71	80	90	100	3.0	16
SM-A-PNP	16		13	19	25		71	80	90	100	5.6	19
SM-A-PNP	20		13	19	25		71	80	90	100	5.6	24
SM-A-PNP	25		13	19	25		71	80	90	100	5.6	29
SM-A-PNP	32			19	25	32	71	80	90	100	9.8	36

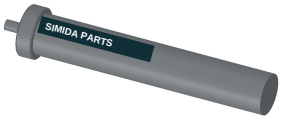


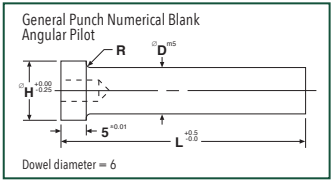


Ordering Example:(9)
SM-A-ENB 32-71 A2

A2, R/c 59-61 double tempered
Heads drawn to Rc 40-55.

TYPE	"D"	OVERALL LENGTH "L"				HEAD DIA. "H"	EJECT. TYPE
		71	80	90	100		
SM-A-ENB	10	71	80	90	100	13	E6M
SM-A-ENB	13	71	80	90	100	16	E6M
SM-A-ENB	16	71	80	90	100	19	E9M
SM-A-ENB	20	71	80	90	100	24	E9M
SM-A-ENB	25	71	80	90	100	29	E9M
SM-A-ENB	32	71	80	90	100	36	E9M



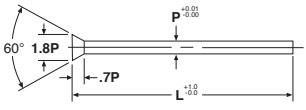


Ordering Example:
(18)SM-A-PNB 16-80 A2

A2, R/c 59-61 double tempered
Heads drawn to Rc 40-55.

TYPE	"D"	OVERALL LENGTH "L"											HEAD DIA. "H"
		63	71	80	90	100	110	125	140	150	175	200	
SM-A-PNB	10	63	71	80	90	100	110	125					13
SM-A-PNB	13	63	71	80	90	100	110	125	140	150			16
SM-A-PNB	16	63	71	80	90	100	110	125	140	150	175		19
SM-A-PNB	20		71	80	90	100	110	125	140	150	175		24
SM-A-PNB	25		71	80	90	100	110	125	140	150	175		29
SM-A-PNB	32			80	90	100	110	125	140	150	175	200	36

General Quill Punches Bevel Blanks





Ordering Example:
(9) SM-A-GQB 4-50 M2 P3.44

M2, R/c 61-63 triple tempered

TYPE	"D"	OVERALL LENGTH "L"					POINT RANGE "P"
		40	45	50	56	63	
SM-A-GQB	2	40	45	50	56	63	0.81 – 2.00
SM-A-GQB	3	40	45	50	56	63	2.01 – 3.00
SM-A-GQB	4	40	45	50	56	63	3.01 – 4.00
SM-A-GQB	5	40	45	50	56	63	4.01 – 5.00
SM-A-GQB	6	40	45	50	56	63	5.01 – 6.00
SM-A-GQB	7	40	45	50	56	63	6.01 – 7.00

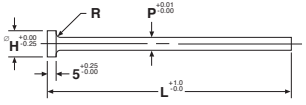
General Shoulder-Quill Blank

SM-A-GSB

SIMIDA Altem-head



General Quill Punches Shoulder Blanks

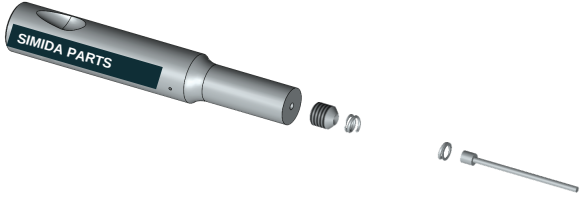


Ordering Example:
(18) SM-A-GSB 5-56 M2 P4.66

M2, R/c 61-63 triple tempered

TYPE	"D"	OVERALL LENGTH "L"					POINT RANGE "P"	HEAD DIA. "H"
		40	45	50	56	63		
SM-A-GSB	2	40	45	50	56	63	0.81 – 2.00	4
SM-A-GSB	3	40	45	50	56	63	2.01 – 3.00	5
SM-A-GSB	4	40	45	50	56	63	3.01 – 4.00	6
SM-A-GSB	5	40	45	50	56	63	4.01 – 5.00	7
SM-A-GSB	6	40	45	50	56	63	5.01 – 6.00	8
SM-A-GSB	7	40	45	50	56	63	6.01 – 7.00	9

Jektole



STANDARD JAKETOLE DATA

DIMENSION		J2*	J3	J4	J6	J9	J12
Std. Shank Dia.	D	.250	.250	.375	.500 .625	.750 .875 1.000	1.250
Point Hole Dia.	C	.020	.032	.046	.063	.094	.125
Shank Hole Dia	E	.086	.109	.141	.172	.221	.275
Pin Extension		.030	.030	.060	.060	.060	.060
Keeper Key No.		920045			920053		**

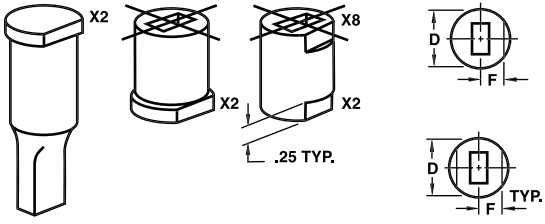
Point Diameter < .080 **Keeper Key not available

JEKTOLE DESIGN LIMITS

DIMENSION		J2	J3	J4	J6	J9	J12
Min. Shank Dia. (Light Duty)	D	.250	.250	.375	.500	.750	.875
Min. Shank Dia. (Heavy Duty)	D	.375	.375	.375	.500	.750	.875
Min Point Dia.	P	.040	.064	.092	.126	.188	.250
Max Point Lgth	B	1.25	1.50	1.62	1.62	1.62	1.62

UNIVERSAL JAKETOLE COMPONENTS

EJECTOR PINS		J2	J3	J4	J6	J9	J12
Overall Length	L	1.11	1.38	1.94	1.94	2.22	2.22
Pin Diameter	D	.017	.027	.041	.058	.089	.120
Head Diameter	H	.048	.073	.094	.120	.156	.188
Hd. Thickness	T	.031	.047	.062	.062	.094	.094
SPRINGS							
Outside Dia.	D	.081	.104	.136	.167	.216	.270
Free Length	L	2.38	2.38	3.19	3.00	3.03	2.56
Head Pressure (.12 Preload)	lbs.	.5	.75	1	1.5	2	2.5
SCREWS							
Screw Size	D	#3-48	#5-40	#8-32	#10-32	1/4-28	5/16-24
Screw Length	L	.19	.19	.19	.19	.19	.25



BODY DIA.	05	06	08	10	13	16
F	2.2	2.6	3.5	4.3	5.6	6.9
BODY DIA.	20	22	25	32	38	40
F	8.7	9.5	10.8	13.8	16.5	17.4
BODY DIA.	45	50	56	63	71	
F	19.5	21.7	24.2	27.3	30.7	

STANDARD AND ALTERNATE LOCATION

Single Flats: X2 & X8

LOCKING DEVICES	Punches	Buttons
X2	Top	Bottom
X8	N/A	Top

Order Example: X2 – 90°

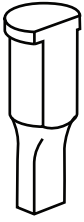
CUSTOM LOCATION

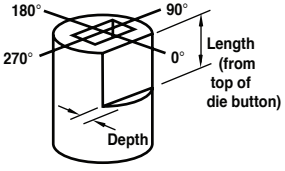
Single Flats: X5 & X9X8

LOCKING DEVICES	Punches	Buttons
X5	Top	Bottom
X9	N/A	Top

Order Example: X5 – 135°

Double Flats





The depth of the flat is taken from the shank, not the head, on punches.

CODE	DEPTH	LENGTH
X81	.060	.500
X82	.060	.625
X83	.060	.750
X84	.060	Full Length
X85	.093	.500
X86	.093	.625
X87	.093	.750
X88	.093	Full Length
X89	Specify Dimensions	

CODE	DEPTH	LENGTH
X91	.060	.500
X92	.060	.625
X93	.060	.750
X94	.060	Full Length
X95	.093	.500
X96	.093	.625
X97	.093	.750
X98	.093	Full Length
X99	Specify Dimensions	

STANDARD AND ALTERNATE LOCATION

Double Flats: X3

LOCKING DEVICES	Punches	Die Buttons
X3	Top	Bottom

Order Example: X3 – 90°

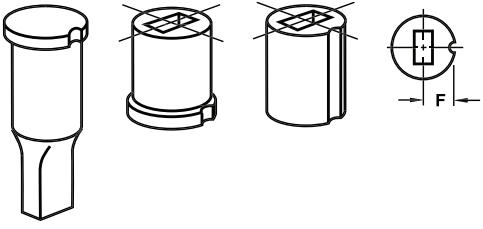
CUSTOM LOCATION

Double Flats: X6

LOCKING DEVICES	Punches	Buttons
X6	Top	Bottom

Order Example: X6 – 135°

Dowel Slots



F Dimension for Headed Punches and Die Buttons
F Dimension for Headless Die Buttons Only

F = .5D + .5 Dowel Dia.

BODY DIAMETER		25	31	37	43	50	62	75	87	100	125-275
X0, X1											
X4, X7	**F**	.1250	.1562	.1875	.2188	.2500	.5D	.5D	.5D	.5D	.5D
X41, X71		.1938	.2188	.2438	.2688	.2938	.5D	.5D	.5D	.5D	.5D
X43, X73		.2250	.2500	.2750	.3000	.3250	.3438	.4063	.4688	.5313	.5D

STANDARD AND ALTERNATE LOCATION
Dowel Slots: X0, X4, X41 & X43**

LOCKING DEVICES	Dowel Diameter
X0**	.1250
X4	.1250
X41	.1875
X43	.2500

Order Example: X0 – 180°
**available on headless die buttons only

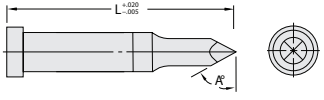
CUSTOM LOCATION
Dowel Slots: X1, X7, X71 & X73**

LOCKING DEVICES	Dowel Diameter
X1**	.1250
X7	.1250
X71	.1875
X73	.2500

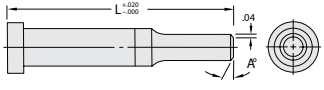
Order Example: X71– 135°

For Round Punches Only

D19 Nail Point

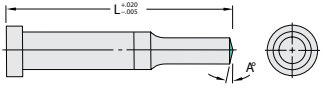


D20 Chamfer

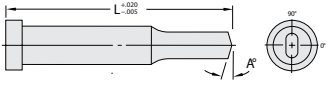


For Round & Shape Punches

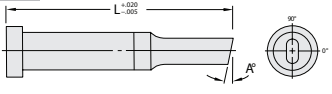
D21 Conical



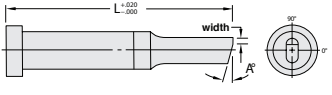
D22 Double Shear



D23 Single Shear



D24 Single Shear Angle with Flat

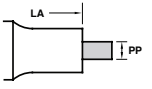


Shown as reflected view.

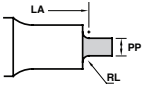
HOW TO ORDER

Type	Code	L	P (or P&W)	Steel	Alteration
KPL	100	E350	P.872, W.401	A2	XS23 A3°

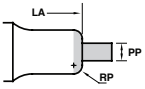
D201



D202

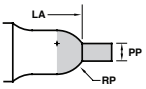


D203

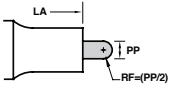


RP must be ≤ (P - PP) /2

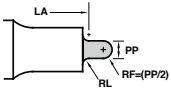
D204



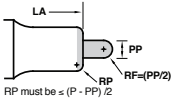
D211



D212

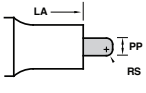


D213

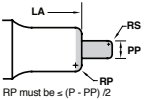


RP must be ≤ (P - PP) /2

D221

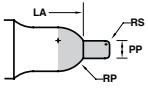


D223

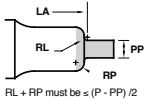


RP must be ≤ (P - PP) /2

D224

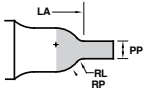


D233

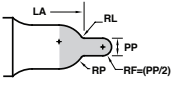


RL + RP must be ≤ (P - PP) /2

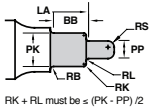
D234



D244

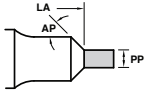


D264

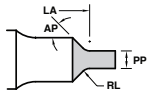


RK + RL must be ≤ (PK - PP) /2

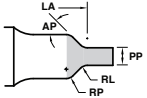
D401



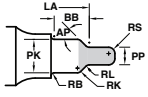
D402



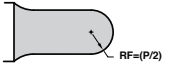
D404



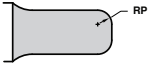
D444



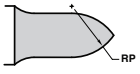
D601



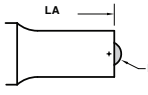
D602



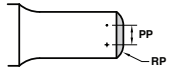
D603



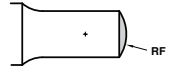
D611



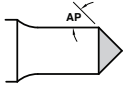
D612



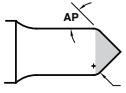
D621



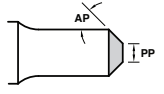
D701



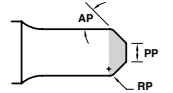
D702



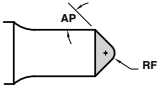
D703



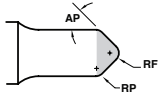
D704



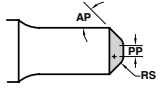
D711



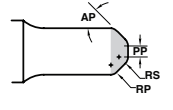
D712



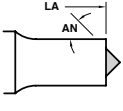
D713



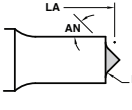
D714



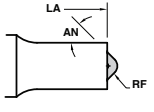
D801



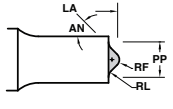
D802



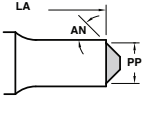
D811



D812



D821

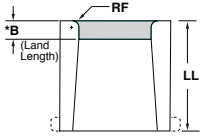


HOW TO ORDER

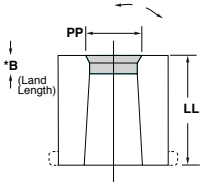
Type	Code	L	Steel	W Shape	P	PP	LA	Alteration
KPL	100	E250	M2	W201	P.1875	PP.1250	LA2.235	XNT

"P" is the point dimension of the product. The "P" dimensions are not shown below. When "P" = "D," shank tolerance applies.

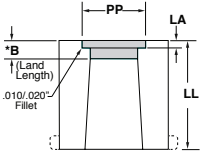
D910



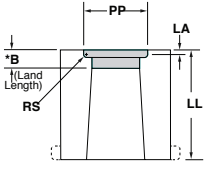
D920



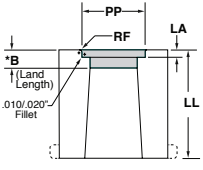
D930



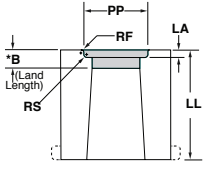
D931



D933



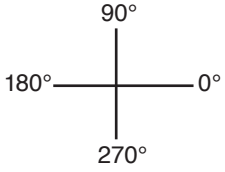
D935



HOW TO ORDER

Type	Code	LL	Steel	W Shape	P	PP	LA	RS	RF	AN°	Alteration
KPL	100	100	M2	W935	.50	.625	.15	.05	.03		XNT

Classified shapes (83 common shapes, no detailing required) are available on all punches and die buttons, as indicated in this catalog.



Ordering Information

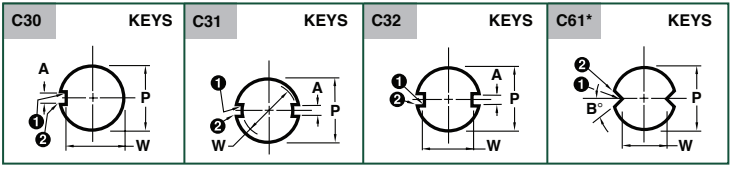
*Corner Dimensions

Dimension should be the theoretical sharp corners for shapes C22, C24, C34, C61, and C88.

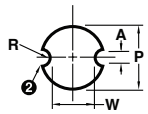
However, some reduction of these dimensions will result from fitting the punch and die buttons under conditions where the clearance is .0025 or less per side.

+Shape Center

Shapes are centered on the punch shanks as shown. Shapes in guide bushings and die buttons are also centered as shown with the exception of shapes C22 and C34. Due to clearance, the P dimension on these shapes will not be centered.



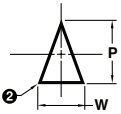
C62 KEYS



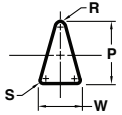
C36 TRIANGLES



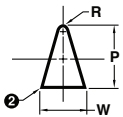
C22* TRIANGLES



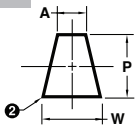
C23 TRIANGLES



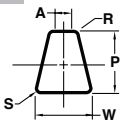
C24* TRIANGLES



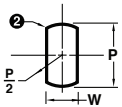
C25* TRIAPEZOIDS



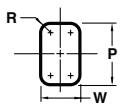
C26 TRIAPEZOIDS



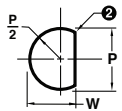
C10 FLATED ROUNDS**



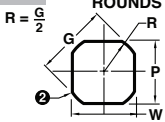
C11 FLATED ROUNDS**



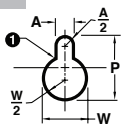
C33 FLATED ROUNDS**



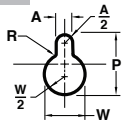
C52 FLATED ROUNDS**



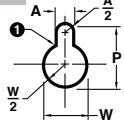
C13 MONO LOBES



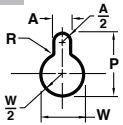
C53 MONO LOBES



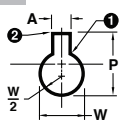
C54 MONO LOBES



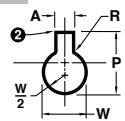
C55 MONO LOBES



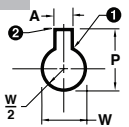
C14 MONO LOBES



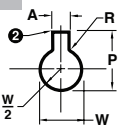
C56 MONO LOBES



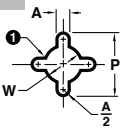
C57 MONO LOBES



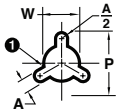
C58 MONO LOBES



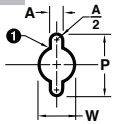
C17 MULTI LOBES



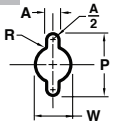
C18 MULTI LOBES



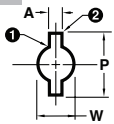
C19 MULTI LOBES



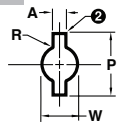
C59 MULTI LOBES



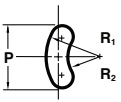
C20 MULTI LOBES



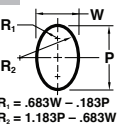
C60 MULTI LOBES



C40 MISCELLANEOUS

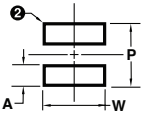


C41 MISCELLANEOUS

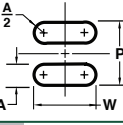


$R_1 = .683W - .183P$
$R_2 = 1.183P - .683W$

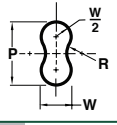
C42* MISCELLANEOUS



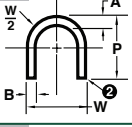
C43 MISCELLANEOUS



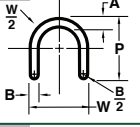
C93 MISCELLANEOUS



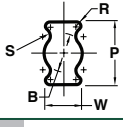
C64 MISCELLANEOUS



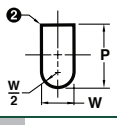
C65 MISCELLANEOUS



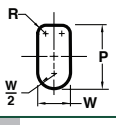
C27 MISCELLANEOUS



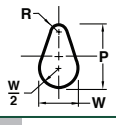
C28 MISCELLANEOUS**



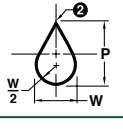
C29 MISCELLANEOUS



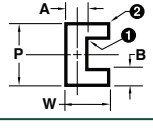
C16 MISCELLANEOUS



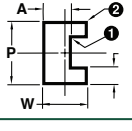
C34 MISCELLANEOUS



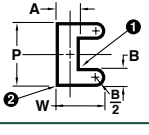
C50 US



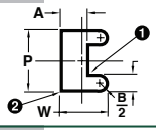
C68 US



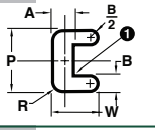
C69 US



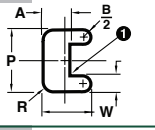
C70 US



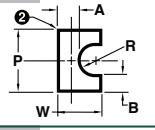
C71 US



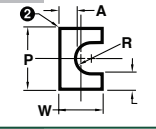
C72 US



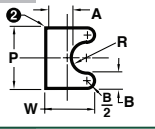
C51 US



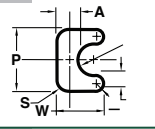
C73 US



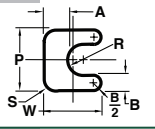
C74 US



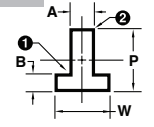
C75 US



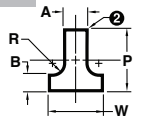
C76 US



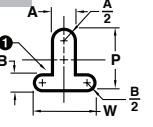
C44 TS



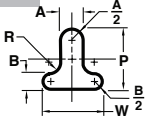
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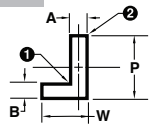
C66 TS



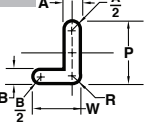
C67 TS



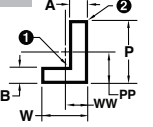
C46 LS



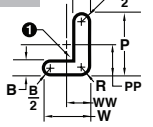
C77 LS



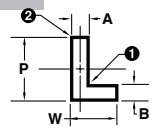
C78 LS



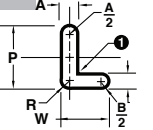
C79 LS



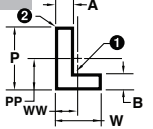
C48 US



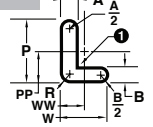
C80 US



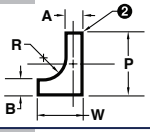
C81 US



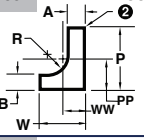
C82 US



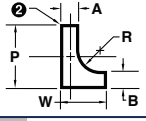
C47 US



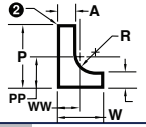
C83 US



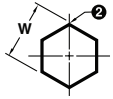
C49 US



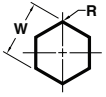
C82 US



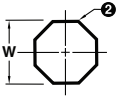
C12 POLYGONS**



C85 POLYGONS**

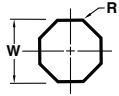


C35 POLYGONS



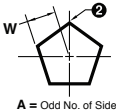
A = Even No. of Sides

C86 POLYGONS



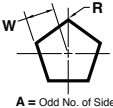
A = Even No. of Sides

C36 POLYGONS



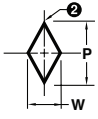
A = Odd No. of Sides

C87 POLYGONS

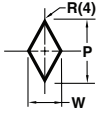


A = Odd No. of Sides

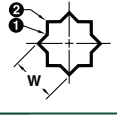
C88* POLYGONS



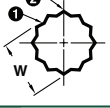
C89 POLYGONS



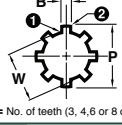
C37 POLYGONS



C38 POLYGONS

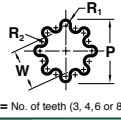


C39 POLYGONS



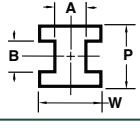
A = No. of teeth (3, 4,6 or 8 only)

C90 POLYGONS

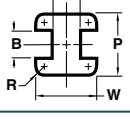


A = No. of teeth (3, 4,6 or 8 only)

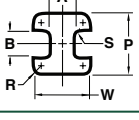
C21 DUO TEES



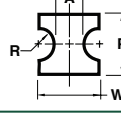
C91 DUO TEES



C92 DUO TEES

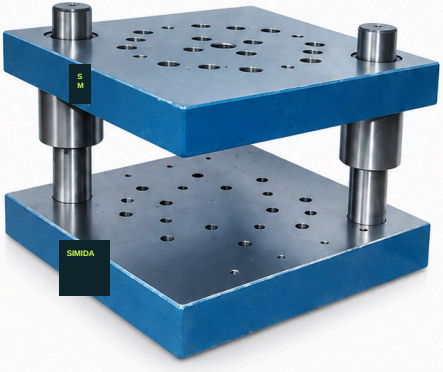


C15 DUO TEES



SIMIDA PARTS / PRECISION TOOLING

DIE SETS & MOLD BASES
Standard & Custom Precision Die Sets



PRODUCT RANGE

- Standard Die Sets
- Custom Die Sets
- Upper & Lower Die Plates
- Guide Posts & Guide Bushings
- Precision Machined Plates
- Custom Hole Patterns
- Special Sizes According to Drawings

MANUFACTURING CAPABILITIES

- Precision CNC Machining
- Surface Grinding
- Drilling & Boring
- Tight Tolerance Control
- Custom Manufacturing

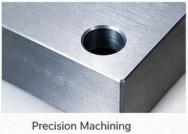
CUSTOMIZED TO YOUR DRAWINGS
Send us your drawings or specifications for quotation.


Standard Die Set


Upper & Lower Die Plates


Custom Die Set


Precision Machined Plates


Precision Machining


Custom Hole Patterns


Guide Posts


Guide Bushings

MANUFACTURE OF COMPONENTS AND MACHININGIN

We manufacture components for molding, machining, reverse engineering, and other services. For more than 20 years, we have represented company manufacturers of punches and wire dies as well as high-consumption components and accessories, in addition to technical support in the manufacture of special materials, thanks to the experience and confidence that our customers have given us.





PRODUCTS

PUNCHES AND LINE DIESEA

Punches and line dies established on existing brands on the market and for use in other applications such as carbides in formers, bushing and cutters.

+ Standard line punches and dies
+ Blankes
+ Aceros Carbide, M2, CPM-10V, CPM/M4
+ Special fabrications on design

NITROGAS

We are authorized Nitrogas Distributor, we offer you the highest technology, thus guaranteeing the longest life of a gas cylinder.

+Micro Cylinders
+ Mayortons Cylinders
+ Panel Control
+ Accessories

ACCESSORIES & COMPONENTS

Extensive inventory of components and accessories of greater consumption.

+ Stamps Reteiners and Emblems
+Packed poles, bushings and cages
+ Compression springs
+ Cylinders and Retainers



MACHINING CNC

+ Manufacture of moulds and dies
+ Wire EDM cutting
+ Penetration erosion cutting
+ Machining high precision parts
+ Grinding on surfaces

OUR TEAM











SERVICES

SIMIDA PARTS

+ Electric Gun Maintenance
+ Training & Courses
+ Scanning and Lighthouse
+ Maquila of High Volume Parts
+ Reverse engineering
+ Tool Design

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SIMIDA PARTS

SIMIDA PARTS
GLOBAL BUSINESS DISTRIBUTION

North America 15%

South America 10%

Eastern Europe 10%

Southeast Asia 8%

Africa 5%
Oceania 5%
Mid East 5%
Eastern Asia 5%
Western Europe 6%
Central America 5%
Northern Europe 5%
Southern Europe 6%
South Asia 5%

Domestic Market 10%









YOUR NEXT PART.
BUILT AROUND YOUR DRAWING.

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