

# CHAMPION

Bridge, Construction  
and Maintenance  
**Reamers**



## Cutting Fluid/ Wax

- Multi-purpose cutting fluid/wax.
- Specially formulated to extend tool life and reduce chip welding.
- BruteLube acts as a shield to friction and heat.
- Extends tool life.
- Gives closer tolerance on finished work.
- Enables reduction in tool costs and enables drilling to closer tolerances.
- Especially effective on stainless, aluminum and exotic steels.
- Compliant with OSHA regulations.

EDP No.	Size
XLUB-4	4oz fluid
XLUB-16	16oz fluid
XLUB-128	1 gallon fluid
XLUB-WAX-2	2oz wax
XLUB-WAX-16	16oz wax



## Rotobruite Magnetic Drill Presses and Annular Cutters

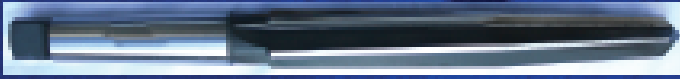
- The Rotobruite drilling system includes a complete line of magnetic drill presses and annular cutters, engineered to drill large diameter holes in structural steel from 7/16" to 4" diameter.

Machine Name		Cutters	Description	
RB32		CT150	Carbide Tipped 1-3/8" Cut Depth	
28lbs / 1-3/8" Dia. cutter capacity		CT200	Carbide Tipped 2" Cut Depth	
RB32-VSR		XL100	High Speed Steel 1" Cut Depth	
RB32 + variable speed and reverse		XL200	High Speed Steel 2" Cut Depth	
RB45		XL300	High Speed Steel 3" Cut Depth	
44lbs / 2" Dia. x 2" depth capacity		XL100T	TIN Coated HSS 1" Cut Depth	
RB65		XL200T	TIN Coated HSS 2" Cut Depth	
61lbs / 4" Dia. x 3" cutter capacity		XLSTK	Cobalt Stack Cutters 2" Cut Depth	
RB65-VSR				
RB65 + variable speed and reverse				
AC35				
23lbs / 1-3/8" Dia. x 2" depth capacity				



## Taper Shank Bridge Reamers

**980** Straight Flute,  
Right Hand Cut, HSS  
Straight flute reamers are easy to hand  
regrind and dislodge when bound in hole



EDP No./ Diameter	Point Diameter	Flute Length	Overall Length	Taper Shank
980-7/16	1/4	4-3/8	8-1/4	2
980-1/2	9/32	5-1/8	9	2
980-9/16	11/32	5-1/8	9	2
980-5/8	3/8	6-1/8	10	2
980-11/16	25/64	7-1/8	11-3/4	3
980-3/4	7/16	7-3/8	12	3
980-13/16	1/2	7-3/8	12	3
980-7/8	9/16	7-3/8	12	3
980-15/16	5/8	7-3/8	12	3
980-1	11/16	7-3/8	12	3
980-1-1/16	3/4	7-3/8	12	3
980-1-1/8	13/16	7-3/8	12	3
980-1-3/16	7/8	7-3/8	12	3
980-1-1/4	15/16	7-3/8	13	4
980-1-5/16	1	7-3/8	13	4

- Designed for aligning and enlarging holes in heavy duty structural steel applications
- Heavy duty reaming of off-size, misshapen and misaligned holes
- Ideal use for the bridge, erection and ship building industries
- Can be used in portable electric motors and the RB65 Champion Magnetic Drill Press

**982** Left Hand Spiral Flute,  
Right Hand Cut, HSS  
Cuts with a shearing action sending  
chips forward



EDP No./ Diameter	Point Diameter	Flute Length	Overall Length	Taper Shank
982-7/16	1/4	4-3/8	8-1/4	2
982-1/2	9/32	5-1/8	9	2
982-9/16	11/32	5-1/8	9	2
982-5/8	3/8	6-1/8	10	2
982-11/16	25/64	7-1/8	11-3/4	3
982-3/4	7/16	7-3/8	12	3
982-13/16	1/2	7-3/8	12	3
982-7/8	9/16	7-3/8	12	3
982-15/16	5/8	7-3/8	12	3
982-1	11/16	7-3/8	12	3
982-1-1/16	3/4	7-3/8	12	3
982-1-1/8	13/16	7-3/8	12	3
982-1-3/16	7/8	7-3/8	12	3
982-1-1/4	15/16	7-3/8	13	4
982-1-5/16	1	7-3/8	13	4
982-1-3/8	1-1/16	7-3/8	13	4
982-1-7/16	1-1/8	7-3/8	13	4
982-1-1/2	1-3/16	7-3/8	13	4
982-1-9/16	1-1/4	7-3/8	13	4
982-1-5/8	1-5-16	7-1/2	14-3/8	4

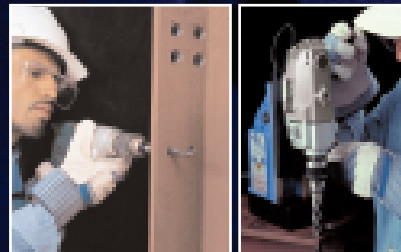
## Straight Shank Car / Maintenance Reamers

**SA80** 1/2" Straight Shank, Left Hand Helix,  
Right Hand Cut, HSS

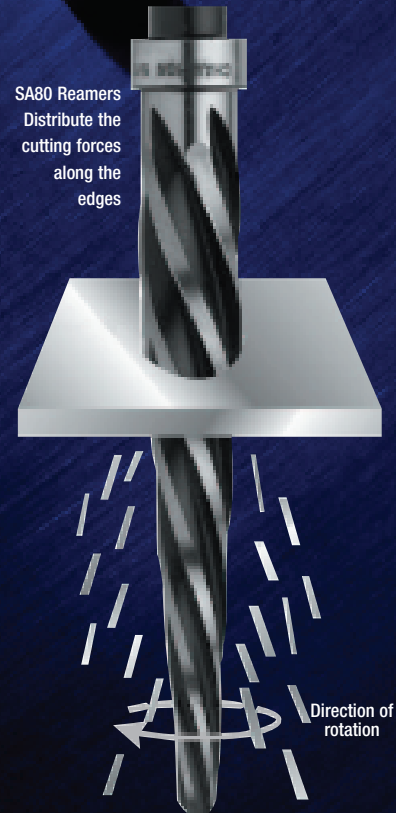
- An ideal maintenance and repair tool
- Cuts Stainless steel and tough alloys
- De-burs welded and punched holes
- Also referred to as chassis reamers
- For light steel erection, automotive frame work, truck and trailer and farm machinery
- Small diameter piont enlarges small holes
- The flatted round shank fits standard 1/2" drill motors

EDP No./ Diameter	Number of Flutes	Point Diameter	Flute Length	Overall Length
SA80-5/16*	4	.176	3	4-3/4
SA80-3/8*	4	.230	3-1/4	4-3/4
SA80-7/16*	4	.245	3-1/4	4-3/4
SA80-1/2	5	.262	3-3/8	5-3/4
SA80-9/16	5	.320	3-3/8	5-3/4
SA80-5/8	5	.350	3-7/8	6-3/16
SA80-11/16	5	.400	3-7/8	6-3/16
SA80-3/4	5	.412	4-1/4	6-3/4
SA80-13/16	5	.490	4-1/4	6-3/4
SA80-7/8	5	.528	4-7/8	7-1/8
SA80-15/16	5	.595	4-7/8	7-1/8
SA80-1	5	.620	4-3/4	7-3/16
SA80-1-1/16	5	.753	5-7/16	7-1/4
SA80-.652	5	.293	4-3/4	6-9/16
SA80-.776	5	.461	5-3/16	7

\*Shank diameter same as Reamer diameter  
.653 and .776 sizes are specifically for shoulder bolts used on truck frames.



SA80 Reamers  
Distribute the  
cutting forces  
along the  
edges



Chips are safely ejected away  
from the operator



## Hex Shank Bridge Reamers

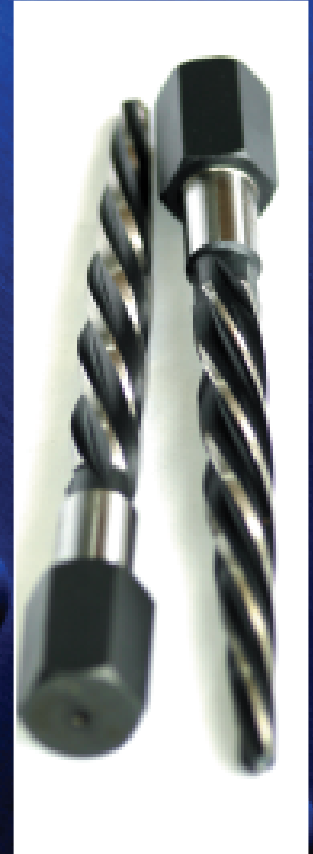
# XL86

Left Hand Spiral Flute,  
Right Hand Cut, HSS

- Designed for aligning and enlarging holes in structural steel, bridge and ship building
- Hex shank is engineered to enable use in impact sockets for pneumatic and electric power tools
- Heavy duty reaming of off-size, misshapen and misaligned holes
- Operator can use same power tool for reaming and driving the structural bolts

EDP No./ Diameter	Point Diameter	Flute Length	Overall Length	Hex Diameter
XL86-11/16	11/32	5-3/4	9-3/16	1-1/16
XL86-13/16	35/64	6-3/8	9-3/4	1-1/4
XL86-15/16	11/16	7	10-13/16	1-7/16
XL86-1-1/16	13/16	7	10-15/16	1-5/8
XL86-1-3/16	57/64	7	10-31/32	1-13/16
XL86-1-5/16	1-1/16	7	11-5/16	2
XL86-1-3/8	1.069	7-3/8	10	2
XL86-1-7/16	1.131	7-3/8	10	2
XL86-1-1/2	1.194	7-3/8	10	2
XL86-1-9/16	1.256	7-3/8	10	2
XL86-1-5/8	1.319	7-1/2	13	2

\* Hex shank sizes are the same size as the required nut size.



## Hex Shank Car Reamers



# HX80

### Straight Flute

- Short length for use in tight areas
- For use in electric and pneumatic impact wrenches

# HX82

### Spiral Flute

- Spiral flute for ejecting chips forward and away from the operator
- Short length for use in tight areas
- For use in electric and pneumatic impact wrenches

EDP No./ Diameter	Point Diameter	Flute Length	Overall Length	Hex Diameter
HX80-11/16	11/32	5-3/16	7	1-1/16
HX80-13/16	35/64	5-3/16	7	1-1/4
HX80-15/16	11/16	5-3/16	7	1-7/16
HX80-1-1/16	13/16	5-3/16	7	1-5/8
HX80-1-3/16	57/64	5-3/16	7	1-13/16

\* Hex shank sizes are the same size as the required nut size.



EDP No./ Diameter	Point Diameter	Flute Length	Overall Length	Hex Diameter
HX82-11/16	11/32	5-3/16	7	1-1/16
HX82-13/16	35/64	5-3/16	7	1-1/4
HX82-15/16	11/16	5-3/16	7	1-7/16
HX82-1-1/16	13/16	5-3/16	7	1-5/8
HX82-1-3/16	57/64	5-3/16	7	1-13/16

\* Hex shank sizes are the same size as the required nut size.

