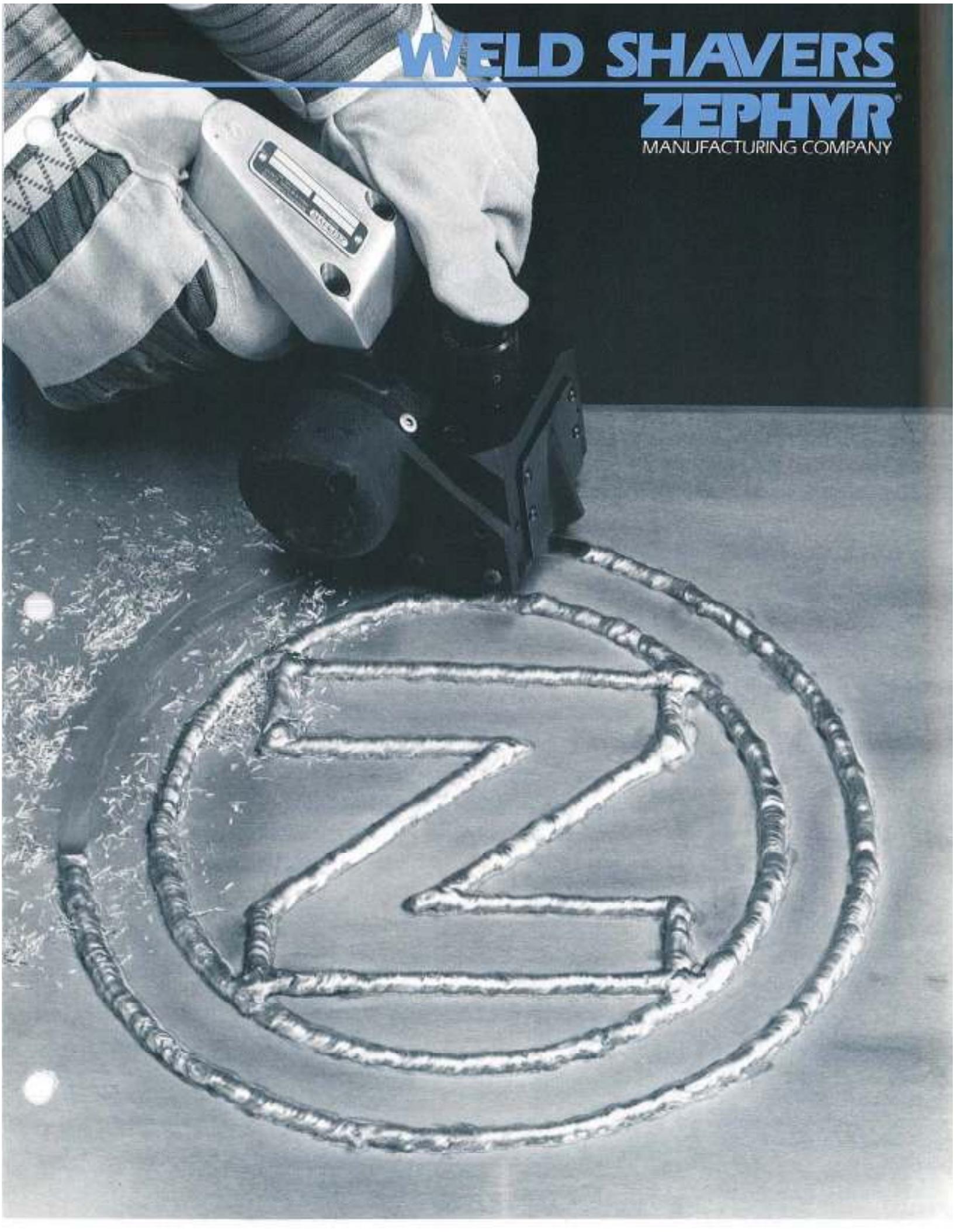


WELD SHAVERS

ZEPHYR®

MANUFACTURING COMPANY



R

emove welds in one step instead of three.

The old method was a grind. And with chipping and sanding, it was also a costly, time consuming, three-stage process. But now, with Zephyr Z-Mill™ Pneumatic Weld Shavers, you can remove a weld bead in just one pass.

A Zephyr Weld Shaver will remove a weld bead up to ten times faster than a hand held grinder. Because we've combined three steps into one, you save more than time. You save money.

Aluminum, titanium, exotic metals, and more.

Born in the aerospace industry, we understand specialized materials. That's why we've designed our Weld Shavers to be precision milling tools. You can set them for the depth of shaving you need—something that would be unthinkable with a hand held grinder.

Zephyr Weld Shavers have already proven themselves in application after application: in naval shipyards, in trailer manufacturing plants, even in the facilities of specialized tank manufacturers.

Satisfied customers in your industry.

Builders of electrical and computer cabinetry, refrigeration equipment, and truck and trailer bodies are just a few of the types of companies enjoying the advantages of Zephyr Weld Shavers.

We have complete case studies of Weld Shaver applications by firms like yours. Ask your Zephyr representative for an example in your area of interest.

Then see for yourself how Zephyr Z-Mill™ Weld Shavers will improve your weld finish as well as your bottom line.



ZT708 & ZT709

STANDARD DUTY WELD SHAVERS

Remove stainless steel or titanium weld beads with the ZT708. Remove aluminum, copper, magnesium, or other non-ferrous metal weld beads with the ZT709.

Both are portable air-powered tools designed to shave weld beads to a pre-determined height—above, below, or flush to the surface. Each can solve special requirements such as burr removal, beveling, and working at angles or in close quarters. Grooving is accomplished with the ZT709 aluminum shaver only. No matter what your application, these Weld Shavers will perform with precision, giving you a smooth finished surface in less time than ever before.

Here's how they work: two adjustable ball bearing rollers straddle the weld bead, centering the cutter over the weld. The ball bearings keep the cutter at a constant height on any surface, whether flat, convex, or concave.

You have absolute control over the cutter height and can make adjustments in increments of 0.001 inch. You also can select a variety of cutter widths. The different cutter widths require a different roller bracket shaft assembly, each one of which can be rapidly removed when changing or sharpening the cutters. This ensures rapid turn-around time on the job. Both Weld Shavers are designed to have the exhaust air blow chips from the work area and cool the cutter.

The ZT708 will shave a maximum weld bead of .030" high by $\frac{1}{8}$ " wide in one pass. Cutters are slab type, and available in widths of $\frac{3}{8}$ " to 1" with a chip breaker, or $\frac{3}{8}$ " to $\frac{1}{2}$ " without chip breaker.

The ZT709 will shave a maximum bead of 0.125" high by $\frac{1}{8}$ " wide. Cutters are slab type, and are available in widths of $\frac{3}{8}$ " to $\frac{3}{4}$ " in high speed steel; $\frac{3}{8}$ " to 1" in carbide; and grooving cutters of $\frac{1}{2}$ " in 60°, 75°, and 88° angles. Grooving aluminum is now a faster process. The grooving cutter can be used to remove a poor weldment that does not have deep roots, which saves the work piece for a re-weld.

Please see our Specification Sheet for complete details.

OUTRIGGER & BEVEL ATTACHMENTS

Right hand and left hand outrigger attachments enable you to remove corner fillets or radius welds which are adjacent to 90° plates, walls, or structures. You can shave a 90° weld to $\frac{1}{16}$ " with a standard slab cutter $\frac{3}{4}$ " wide. Perform flush cutting with a side recessed 1" cutter. A radius fillet weld finish can be achieved with a side recessed edge radius cutter.

The standard attachment is manually adjusted for depth control without requiring any basic modification of the Weld Shaver. Optional mechanically controlled outriggers are also available to micro-adjust depth and distance from a side plate or wall surface.

The bevel attachment is designed for two jobs: to bevel or chamfer plates prior to welding, and to bevel or chamfer edges of aluminum and stainless steel. A right hand and left hand bevel attachment is available with a standard 60° slide.



ZT550 & ZT553

LIGHT DUTY WELD SHAVERS



Both of these Weld Shavers are designed for light duty close-quarters work. The ZT550 shaves aluminum weld beads and grooves aluminum plates. The ZT553 shaves stainless steel weld beads and is therefore slightly larger and heavier.

Adjustable ball bearing rollers straddle the weld bead with the cutter rotating in between. You can shave a weld bead parallel to a flat, concave, or convex work surface. In precise applications, the positive micro-stop adjustment controls cutting depth in 0.0005 inch increments.

Slab cutters for shaving weld beads are available in $\frac{3}{8}$ " to $\frac{1}{2}$ " wide in high speed steel and $\frac{1}{4}$ " to $\frac{1}{2}$ " wide in carbide. Grooving cutters are available in high speed steel, $\frac{3}{8}$ " wide, in 40° and 60° angles.

Each cutter width requires a different roller bracket shaft assembly which is easily removed to change or re-sharpen the cutters. The exhaust air serves a dual purpose: blowing chips away from the work area and cooling the cutter.

Please refer to our Specification Sheet for more detailed information.



ZT501

HEAVY DUTY WELD SHAVER

Here is a portable milling machine designed for heavy duty use with aluminum, magnesium, and copper. This tool may be used in three ways: to shave weld beads, as a slab mill, and to groove non-ferrous metals.

As in all our Weld Shavers, the ball bearing roller bracket straddles the weld bead with the cutter rotating in between. This design ensures that the weld bead is shaved tangent to the work surface, whether flat, concave, or convex. Positive micro-stop adjustment of the cutter is calibrated in 0.001 inch increments, permitting a shave of a pre-determined height or flush with the work surface.

Slab cutter widths are $\frac{3}{4}$ " to 2", while the grooving cutters are $1\frac{1}{2}$ " wide for 60° or $1\frac{1}{8}$ " wide for 70° to a depth of $1\frac{1}{16}$ ".

The motor is governor controlled to assure a constant speed. Air exhaust blows away chips and controls the temperature of the cutter. The roller bracket assembly is easily removed, enabling you to rapidly replace the cutter.

Please consult our Specification Sheet for complete details.

SAFETY

Zephyr products are designed to be safe under proper working conditions. Be sure that you know the proper way to use a tool before working with it. We recommend the wearing of eye protection when using any hand tool or machine shop tool.

Keep your tools clean, lubricated, inspect them from time to time, and replace worn or damaged tools. The nominal cost will be more than offset by the reduction in mistakes and the savings on rework.

ZEPHYR[®]

TOOL

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http://www.zephyrtool.com



CUTTERS FOR ZT 708

For use on Titanium, Stainless Steel, Monel and similar high strength materials.

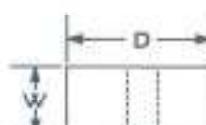
CUTTER PART NUMBER	CUTTER MATERIAL	D DIAMETER	W WIDTH	CUTTER STYLE	CUTTER TYPE	ROLLER SHAFT ASSEMBLY	CUTTER ADJUSTMENT IN	CUTTER ADJUSTMENT OUT	NUMBER OF TEETH
ZT508-208	Carbide	1 1/2"	1/2"	Slab	I	ZT709041	.230"	.206"	49
ZT508-218	Carbide	1 1/2"	3/4"	Slab	I	ZT709042	.230"	.206"	49
ZT508-228	Carbide	1 1/2"	5/8"	Slab	I	ZT709040	.230"	.206"	49
ZT508-268	Carbide	1 1/2"	1/2"	Slab	II	ZT709041	.230"	.206"	49
ZT508-278	Carbide	1 1/2"	3/4"	Slab	II	ZT709042	.230"	.206"	49
ZT508-288	Carbide	1 1/2"	5/8"	Slab	II	ZT709040	.230"	.206"	49
ZT508-298	Carbide	1 1/2"	5/8"	Slab	II	ZT709098	.230"	.206"	49
ZT508-358	Carbide	1 1/2"	7/8"	Slab	II	ZT709040	.230"	.206"	36
ZT508-368	Carbide	1 1/2"	1/2"	Slab	II	ZT709041	.230"	.206"	36
ZT508-378	Carbide	1 1/2"	5/8"	Slab	II	ZT709042	.230"	.206"	36
ZT508-388	Carbide	1 1/2"	1 5/8"	Slab	II	ZT708031	.230"	.206"	36
ZT708-208	Carbide	1 1/2"	1"	Slab	II	ZT709043	.230"	.206"	49



TYPE I slab cutter w/o chipbreaker



TYPE II slab cutter w/ chipbreaker



SLAB TYPE

CUTTER FOR ZT 709

For use on Aluminum, Magnesium, Copper and softer alloys.

CUTTER NUMBER	CUTTER MATERIAL	D DIAMETER	W WIDTH	A ANGLE	CUTTER STYLE	R RADIUS	ROLLER SHAFT ASSEMBLY	CUTTER ADJUSTMENT IN	CUTTER ADJUSTMENT OUT	NUMBER OF TEETH
ZT509-20	H.S.S.	1 1/2"	1/2"	—	Slab	—	ZT709041	.230"	.206"	15
ZT509-21	H.S.S.	1 1/2"	3/4"	—	Slab	—	ZT709042	.230"	.206"	15
ZT509-228	Carbide	1 1/2"	1/2"	—	Slab	—	ZT709041	.230"	.206"	15
ZT509-238	Carbide	1 1/2"	3/4"	—	Slab	—	ZT709042	.230"	.206"	15
ZT509-24	H.S.S.	1 1/2"	5/8"	—	Slab	—	ZT709040	.230"	.206"	15
ZT509-258	Carbide	1 1/2"	5/8"	—	Slab	—	ZT709040	.230"	.206"	15
ZT509-328	Carbide	1 1/2"	5/8"	—	Slab	—	ZT709098	.230"	.206"	15
ZT509-378	Carbide	1 1/2"	1/2"	—	Slab	—	ZT709041	.230"	.206"	10
ZT509-388	Carbide	1 1/2"	1"	—	Slab	—	ZT709043	.230"	.206"	15
ZT509-398	Carbide	1 1/2"	5/8"	—	Slab	—	ZT709042	.230"	.206"	10
ZT509-33	H.S.S.	1 15/16"	1/2"	75°	Groove	.046	ZT709041	.046"	.420"	10
ZT509-368	Carbide tip	1.906"	1/2"	60°	Groove	.062	ZT709041	.015"	.409"	6
ZT509-458	Carbide tip	1.687"	1/2"	88°	Groove	.062	ZT709041	.137"	.299"	6



SLAB TYPE



GROOVING TYPE

Form cutters upon request only.

OUTRIGGER ATTACHMENT FOR ZT708/ZT709

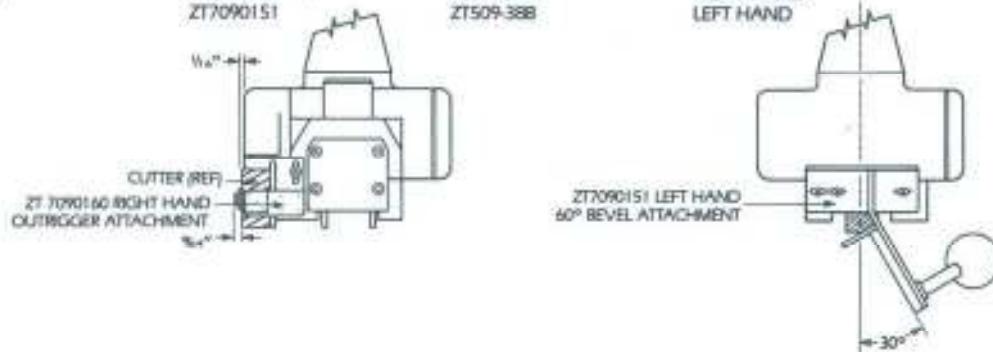
Specify ZT7090160 for right hand cutting. Specify ZT7090170 for left hand cutting.

WELD SHAVER NUMBER	OUTRIGGER ATTACHMENT NUMBER	STANDARD CUTTER NUMBER	RECESSED FLUSH CUTTER FLUSH	RECESSED RADIUS FLUSH CUTTER	CUTTER RADIUS	ROLLER BRACKET NEEDED*
ZT708	ZT7090160	ZT508-21B	ZT708-21B	ZT708-23B	.250	ZT709046
		ZT508-27B				ZT709046
		ZT508-37B				ZT709046
ZT708	ZT7090170	ZT508-21B	ZT708-22B	ZT708-24B	.250	ZT709046
		ZT508-27B				ZT709046
		ZT508-37B				ZT709046
ZT709	ZT7090160	ZT509-21	ZT709-20B	ZT709-21B	.250	ZT709046
		ZT509-23B				ZT709046
		ZT509-39B				ZT709046
ZT709	ZT7090170	ZT509-21	ZT709-22B	ZT709-23B	.250	ZT709046
		ZT509-23B				ZT709046
		ZT509-39B				ZT709046

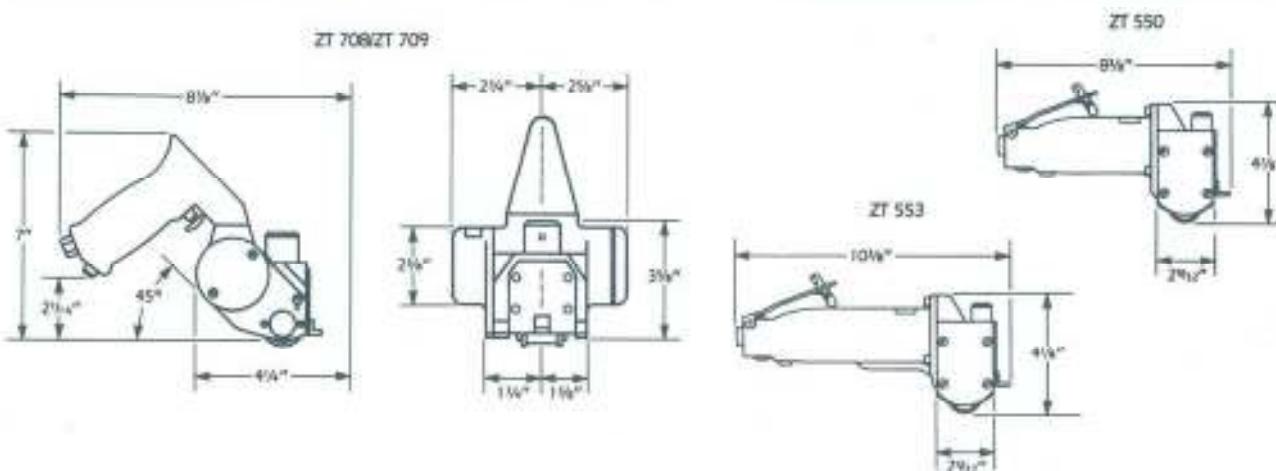
*Recommended for stability if your ZT708 or ZT709 does not have $\frac{1}{2}$ " wide roller bracket.

BEVEL ATTACHMENTS FOR ZT708/ZT709

WELD SHAVER NUMBER	BEVEL ATTACHMENT NUMBER 60°	CUTTER NUMBER	STYLE
ZT708	ZT7090150	ZT708-20B	RIGHT HAND
	ZT7090151	ZT708-20B	LEFT HAND
ZT709	ZT7090150	ZT509-38B	RIGHT HAND
	ZT7090151	ZT509-38B	LEFT HAND



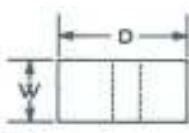
DIMENSIONS AND SPECIFICATIONS OF WELD SHAVERS



CUTTERS FOR ZT550

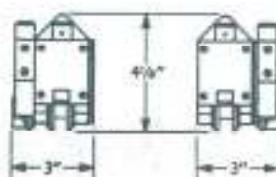
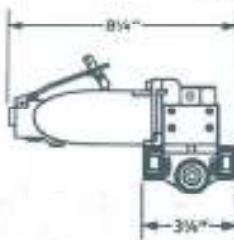
For use on Aluminum, Magnesium, Copper and softer alloys.

CUTTER NUMBER	CUTTER MATERIAL	D DIAMETER	W WIDTH	A ANGLE	CUTTER STYLE	R RADIUS	ROLLER SHAFT ASSEMBLY	CUTTER ADJUSTMENT IN	CUTTER ADJUSTMENT OUT	NUMBER OF TEETH
ZT550-21	H.S.S.	1 1/8"	3/8"	—	Slab	—	ZT550069	.125"	.187"	10
ZT550-23	H.S.S.	1 1/8"	1/2"	—	Slab	—	ZT550070	.125"	.187"	10
ZT550-30	Carbide	1 1/8"	1/4"	—	Slab	—	ZT550069	.125"	.187"	10
ZT550-31	Carbide	1 1/8"	3/8"	—	Slab	—	ZT550069	.125"	.187"	10
ZT550-32	Carbide	1 1/8"	1/2"	—	Slab	—	ZT550070	.125"	.187"	10
ZT550-29	H.S.S.	1 5/8"	3/8"	60°	Groove	.062	ZT550069	.000"	.234"	6
ZT550-40	H.S.S.	1 7/8"	3/8"	40°	Groove	.062	ZT550069	.066"	.320"	8
ZT550-41	H.S.S.	1 5/8"	3/8"	40°	Groove	.062	ZT550069	.000"	.234"	6

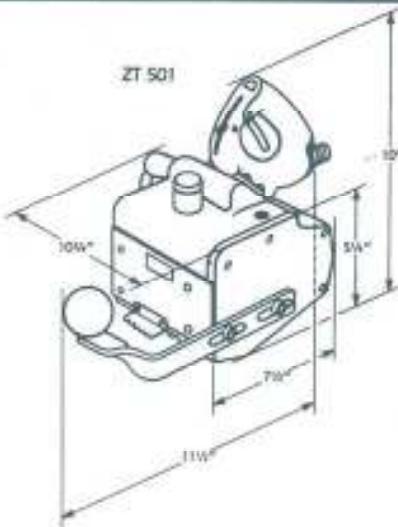

SLAB TYPE

GROOVING TYPE
CUTTERS FOR ZT553

For use on Titanium, Stainless Steel, Monel and similar high strength materials.

CUTTER NUMBER	CUTTER MATERIAL	D DIAMETER	W WIDTH	CUTTER STYLE	ROLLER SHAFT ASSEMBLY	CUTTER ADJUSTMENT IN	CUTTER ADJUSTMENT OUT	NUMBER OF TEETH
ZT553-26	Carbide	1 1/8"	1/2"	Slab	ZT550070	.125"	.182"	34
ZT553-28	Carbide	1 1/8"	1/2"	Slab	ZT550069	.125"	.187"	34


SLAB TYPE
ZT 551/ZT 552 ZT 554/ZT 555

ZT708 ZT709 ZT550 ZT553 ZT501

CUTTER ROTATION (RPM)	2,700	13,500	15,000	3,500	4,600
WEIGHT	6 lbs.	6 lbs.	3 1/4 lbs.	5 lbs.	25 lbs.
REQUIRED CPM (MIN.)	35	35	29	29	44
REQUIRED PSI (MIN.)	90	90	90	90	90



CUTTERS FOR ZT551/ZT552

For use on Aluminum, Magnesium, Copper and softer alloys.

CUTTER NUMBER	CUTTER MATERIAL	D DIAMETER	W WIDTH	A ANGLE	CUTTER STYLE	R RADIUS	CUTTER ADJUSTMENT IN OUT	NUMBER OF TEETH
ZT551-30	Carbide	1 1/4"	1/2"	70°	Groove	.156	.078" .218"	6
ZT551-31	H.S.S.	1 1/4"	1/2"	70°	Groove	.156	.078" .218"	6
ZT551-32	Carbide	1 5/8"	1/2"	—	Slab	—	.125" .187"	10
ZT552-32	Carbide	1 1/4"	1/2"	—	Slab	—	.125" .187"	10
ZT552-30	Carbide	1 1/4"	1/2"	70°	Groove	.156	.078" .187"	6



SLAB TYPE



GROOVING TYPE

CUTTERS FOR ZT554/ZT555

For use on Titanium, Stainless Steel, Monel and similar high strength materials.

CUTTER NUMBER	RADIUS CUTTER NUMBER	CUTTER MATERIAL	CUTTER RADIUS	D DIAMETER	W WIDTH	CUTTER STYLE	CUTTER ADJUSTMENT IN OUT	NUMBER OF TEETH
ZT554-31B		Carbide	—	1 1/4"	1/2"	Slab	.125" .187"	34
	ZT554-30	Carbide	.250	1 1/4"	1/2"	Slab	.250" .062"	24
ZT555-31B		Carbide	—	1 5/8"	1/2"	Slab	.125" .187"	34
	ZT555-30	Carbide	.250	1 1/4"	1/2"	Slab	.250" .062"	—



SLAB TYPE

CUTTERS FOR ZT 501

For use on Aluminum, Magnesium, Copper and softer alloys.

CUTTER NUMBER	CUTTER MATERIAL	D DIAMETER	W WIDTH	A ANGLE	CUTTER STYLE	R RADIUS	ROLLER SHAFT ASSEMBLY	CUTTER ADJUSTMENT IN OUT	NUMBER OF TEETH
ZT501-19	Carbide	2"	3/4"	—	Slab	—	ZT5010124	-.240" +.240"	10
ZT501-20	Carbide	2"	1"	—	Slab	—	ZT5010121	-.240" +.240"	10
ZT501-21	Carbide	2"	1 1/2"	—	Slab	—	ZT5010122	-.240" +.240"	10
ZT501-22	Carbide	2"	2"	—	Slab	—	ZT5010123	-.240" +.240"	10
ZT501-30	Carbide	3 1/8"	1 1/2"	60°	Groove	.156"	ZT5010126	.000" 1.06"	8
ZT501-31	Carbide	3 3/8"	1 1/2"	70°	Groove	.156"	ZT5010128	.000" 1.06"	8



SLAB TYPE



GROOVING TYPE

REPRESENTED BY

ZEPHYR
MANUFACTURING COMPANY

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