

PIPE COLD CUTTING AND BEVELLING MACHINES







SPLIT FRAME CLAMSHELL COLD CUTTING AND BEVELLING MACHINES 1" to 48"







SPLIT FRAME CLAMSHELL COLD CUTTING AND BEVELLING MACHINES 1" to 48"

Portable O/D Locking Cold Pipe Cutting and Bevelling Machines

RANGE: 1" to 48" o/d (25 - 1,220mm)

Larger sizes and customised machines available upon request

Functions: External bevelling / internal bevelling /

counter-boring / compound bevels /

J-prep bevelling

• Materials: Any kind of steel and exotic alloy

Power: Pneumatic, electric (110v or 220v), hydraulic or

servo electric motor



		TSFC6	TSCF8	TSCF12	TSCF16	TSCF18	TSCF20	TSCF24
Locking Range	inch o/d	1" - 6"	2" - 8"	6" - 12"	10" - 16"	12" - 18"	14" - 20"	18" - 24"
Locking Range	mm o/d	33.7 - 184	60.3 - 235	168.3 - 350	273 - 425	323.8 - 477	355.6 - 528	457.2 - 640



		TSFC30	TSFC36	TSFC42	TSFC48
Locking Range	inch o/d	24" - 30"	30" - 36"	36" - 42"	42" - 48"
Locking Range	mm o/d	609.6 - 800	762 - 956	914.4 - 1108	1066.8 - 1280



The basics

TAG's new range of split frame clamshells are essentially portable lathes.

Offering the versatility to cut and bevel (simultaneously if required), face, counterbore and o/d machine pipes (and vessels) of almost any diameter.

A light weight aluminium body, encases a steel inner ring gear running on solid bearings, ensuring manageability, yet extreme strength and durability.

Coupled with wide, hardened clamping feet, with easy read rule marks, enable rapid, repeatable concentric setup, even on out of round pipes and joints.

A range of tooling, power units and accessories allow you to tailor your machine to your particular job.

Features and advantages

- 11 models cover a range from 1" (25.4 mm) to 48" (1,220 mm) o/d
- Pneumatic, hydraulic, standard electric and NC servo electric drive options provide increased versatility
- Adjustable heavy duty bearings, combined with easy access maintenance points allow inspection and adjustment
- Clamping feet are quickly and easily adjusted via a flush hex head through the outer ring. Feet feature easy read measure marks for rapid setup and adjustment
- TAG split frame clamshells accept a wide range of accessories to increase performance and expand machine capabilities
- Unique 'TAG transmission' tool slides with changeable gears for adjustable radial tool feed

Quick split frame design













FEATURES:



TAG advanced cam roller bearing system enables fine adjustment of bearings for optimal performance and maintenance delivering smooth precise rotation.



Using the latest high grade aluminium along with treated steel crown the TAG split frames are designed for heavy duty industrial on-site use.

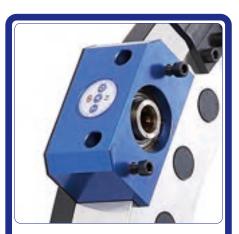




Custom made metal box with foam insert to insure protection of the machine.



TAG advanced feeding system delivers feed through worm and crown to evenly distribute pressure through the feeding screw, resulting in reduced vibration and wear on cutting tools.



Two bolt motor mount enables fast mounting of motors. All power drives utilise the same drive block.



MODULAR BLOCK JAWS

Modular locking system with TAG advanced external metal plate to take pressure away from aluminium ring, clamping foot size 40 x 60mm.



TELESCOPIC JAWS

Telescopic locking system externally mounted to keep aluminium ring solid for extra strength, increased clamping foot size 55 x 115mm for fast accurate setup.



Double striker enables feeding of 0.2mm per revolution, also utilising TAG extended engaging handle meaning hands free operation.

DRIVE UNITS

To meet the varying needs of job-sites worldwide, TAG's clamshell motors and drives are available in a range of configurations.

Drive motors are available in servo electric, hydraulic, pneumatic and electric configurations. Motor mounting flanges are available in straight back (in-line), right angle and front drive reversible options.

TSFC6 - TSFC24









TSFC30 - TSFC120







TAG'S ELECTRIC NC SERVO DRIVE MOTOR

TAG's single phase electric NC (Numerically Controlled) servo motor offers a new level of performance and capacity for electric drive power of TAG's split frame range.

A 1.5 kilowatt servo motor, which, like a 3 phase motor, or hydraulic drive, does not slow and strain under load.

The single servo motor is controlled by a wired remote.

The double servo motor, is controlled by a wireless remote or Delta touch screen NC control unit, enabling accurate, infinite RPM control.

If you carry out the same job regularly with the machine, once you find the optimum performance setting and values, these can be set into the NC control unit and recalled in the future.

Available in single for up to 30mm thickness or double for 30mm+.







filed for

Double Servo Control



TOOL BOXES AND ACCESSORIES

The tool slides are available in various configurations to accept the full range of TAG tooling.



Standard Tool Box

Low profile, light weight, for tight access situations. Utilising standard TAG HSS Co blade tooling.

For cutting and bevelling all materials up to 120mm / 4.7" wall thickness.



Spring Loaded o/d Tracking

A bearing wheel housed in the tool slide, is compressed to the o/d of the pipe by 2 x 150lb springs, ensuring an even, accurate weld prep and root face, by tracking the o/d contour of the pipe especially advantageous for large diameters and out of round pipe.

For cutting and bevelling all materials of up to 20mm / 0.8" wall thickness.



Counter Bore Tool Slide

The counter bore slide module accessory bolts directly to the standard tool slide and can be installed immediately upon completion of the cut and external bevel, to remove any internal inconsistencies prior to welding. The counter bore tool slide can be adjusted from 0 to 45 degree and has 150mm / 6" feed.

TOOLING

TAG's HSS Co range of tooling includes sever/cut, bevel, double-bevel, compound bevel, J-prepping and counter bore tools. TAG tooling is available in a range of different lengths and sizes, to match tooling with application precisely.

TAG holder and insert tooling enables sever/cut, bevel, compound bevel and counter bore tools many holders utilise the same interchangeable inserts reducing the quantity of consumable parts.

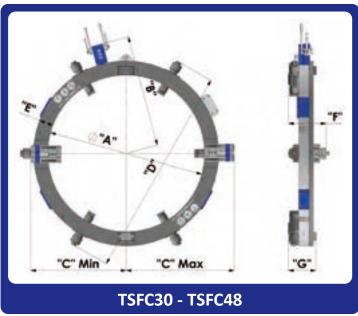
We also offer custom designed tooling, special tool steel for applications not covered by our standard range.

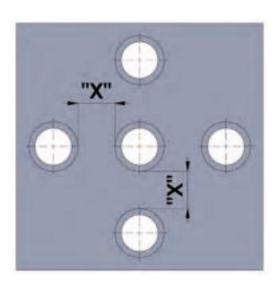
COMPOUND BEVEL J PREP

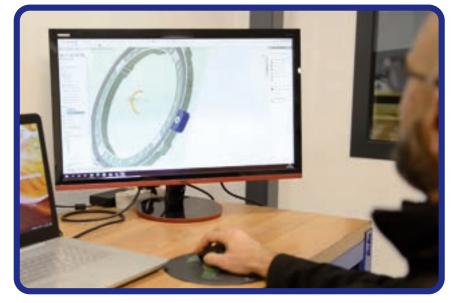
RING DIMENSIONS

		TSFC6	TSCF8	TSCF12	TSCF16	TSCF18	TSCF20	TSCF24	TSFC30	TSFC36	TSFC42	TSFC48
O/D RANGE	inch	1 - 6"	2 - 8"	6 - 12"	10 - 16"	12 - 18"	14 - 20"	18 - 24"	24"-30"	30"-36"	36"-42"	42"-48"
А	mm	184.00	235.00	350.00	425.00	477.00	528.00	640.00	800.00	956.00	1108.00	1280.00
В	mm	283.00	308.50	396.00	433.50	459.50	485.00	541.00	635.00	713.00	789.00	895.00
C MIN	mm	187.00	212.50	270.00	307.50	333.50	359.00	415.00	523.50	601.50	677.50	783.50
C MAX	mm	197.00	222.50	356.00	393.50	419.50	445.00	501.00	615.00	693.00	769.00	875.00
D	mm	340.00	391.00	506.00	581.00	633.00	684.00	796.00	1180.00	1336.00	1488.00	1800.00
Е	mm	78.00	78.00	78.00	78.00	78.00	78.00	78.00	100.00	100.00	100.00	120.00
F	mm	195.50	195.50	195.50	195.50	195.50	195.50	195.50	267.50	267.50	267.50	277.50
G	mm	124.00	124.00	124.00	124.00	124.00	124.00	124.00	196.00	196.00	196.00	206.00
Х	mm	130.00	130.00	210.00	210.00	210.00	210.00	210.00	255.00	255.00	255.00	265.00
		Low c	learance opt	ions or custo	m machines	available on	request sho	uld you have	access restri	ctions		
F Ring	gonly	195.50	195.50	195.50	195.50	195.50	195.50	195.50	267.50	267.50	267.50	267.50
F Pneuma	tic Motor	535.50	535.50	535.50	535.50	535.50	535.50	535.50	727.60	727.60	727.60	727.60
F Servo	Motor	525.50	525.50	525.50	525.50	525.50	525.50	525.50	642.50	642.50	642.50	642.50
F Hydraul	lic Motor	425.00	425.00	425.00	425.00	425.00	425.00	425.00	425.00	425.00	425.00	425.00
	Right angle drive motors are available on request (extra at cost)											









SPLIT FRAME TECHNICAL FEATURES

		TSFC6	TSCF8	TSCF12	TSCF16	TSCF18	TSCF20	TSCF24	TSFC30	TSFC36	TSFC42	TSFC48
Locking Range	inch o/d	1" - 6"	2" - 8"	6" - 12"	10" - 16"	12" - 18"	14" - 20"	18" - 24"	24" - 30"	30" - 36"	36" - 42"	42" - 48"
Locking Range	mm o/d	33.7 - 184	60.3 - 235	168.3 - 350	273 - 425	323.8 - 477	355.6 - 528	457.2 - 640	609.6 - 800	762 - 956	914.4 - 1108	1066.8 - 1280
Ring Only Weight	kg	23	32	46	53	58	62	76	183	204	242	323
Toolbox Stroke	mm	60	60	90	90	90	90	90	90	90	90	90
Motor Mount Positions	qty	1	1	1	2	2	2	2	2	2	4	4
Striker Mount Positions	qty	1	1	2	3	3	3	3	3	4	4	5
Bearing size	S/L	S	S	S	S	S	S	S	L	L	L	L
Spline Drive Size	mm	16	16	16	16	16	16	16	25	25	25	25
Pneumatic Idle Speed	rpm	5 - 36	5 - 28	5 - 21	5 - 18	5 - 17	5 - 16	5 - 15	1 -8	1 - 8	1 - 7	1 - 6
Electric Idle Speed	rpm	5 - 20	5 - 16	5 - 12	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Servo Electric Idle Speed	rpm	1 - 45	1 - 36	1 - 27	1 - 23	1 - 21	1 - 19	1 - 18	1 - 9	1 - 9	1 - 8	1 - 7
Hydraulic Idle Speed	rpm	5 - 30	5 - 28	5 - 25	5 - 20	5 - 19	5 - 17	5 - 16	1 - 8	1 - 8	1 - 8	1 - 8
Pneumatic Motor Power	hp	1.85	1.85	1.85	1.85	1.85	1.85	1.85	3.5	3.5	3.5	3.5
Double Pneumatic Motor(s) Power	hp	n/a	n/a	n/a	3.7	3.7	3.7	3.7	7.0	7.0	7.0	7.0
Electric Motor Power	watt	1900	1900	1900	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Single Servo Electric Motor Power	Kw	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Double Servo Electric Motor(s) Power	Kw	n/a	n/a	n/a	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Hydraulic Motor Power	hp	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40
Electric / Servo Electric Voltage	volt	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220
Electric / Servo Electric Frequency	Hz	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Air Working Pressure	psi / bar	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5
Air hose Connection	inch	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Air Consuming Flux (Double x2)	cfm/ LPM	50 / 1400						90/	2500			
Feed Rate per Revolution	mm / inch		0.2 / 0.008					0.2 / 0.008				
Locking System					MODULAR					TELES	COPIC	

Our group policy is one of continuous improvement. Products and data tables are subject to change or vary from those illustrated.

- All complete machines are supplied with: Machine ring/body, motor, tool boxes, striker, locking jaws, machine box, service tools.
- A protective custom built metal box is supplied with TSFC6 TSFC24, all larger sizes are supplied in a custom built wooden box
- Drawings, instruction manual and warranty certificate are also supplied as standard.
- Pneumatic machine must be used with filter lubricator and oil use without will void warranty.

SPLIT FRAME PACKING WEIGHTS AND DIMENSIONS

SPLIT FRAME MODEL	MEASUREMENT	TSFC6	TSCF8	TSCF12	TSCF16	TSCF18	TSCF20	TSCF24	TSFC30	TSFC36	TSFC42	TSFC48
Pneumatic	(kg/lbs)	(167/368)	(177/390)	(197/434)	(238/525)	(241/531)	(249/549)	(262/578)	(300/661)	(335/738)	(375/826)	(445/981)
Double Pneumatic	(kg/lbs)	n/a	n/a	n/a	(258/569)	(261/575)	(269/593)	(282/622)	(320/705)	(355/782)	(395/870)	(465/1,002)
Single Servo Electric	(kg/lbs)	(182/401)	(182/401)	(212/467)	(253/558)	(256/564)	(264/582)	(277/611)	(315/694)	(345/760)	(385/848)	(455/1,003)
Double Servo Electric	(kg/lbs)	n/a	n/a	n/a	(283/624)	(286/631)	(289/637)	(307/677)	(345/760)	(380/837)	(420/926)	(490/1,080)
Hydraulic	(kg/lbs)	(162/357)	(172/379)	(192/423)	(233/514)	(236/520)	(244/538)	(257/567)	(290/639)	(320/705)	(365/805)	(435/960)
Packing Dimensions	L x W x H mm	1,2	200 x 900 x 4	70		1,450 x 1,	000 x 510		1,460 x 1,	460 x 500	1,600 x 1,600 x 500	1,960 x 1,960 x 500





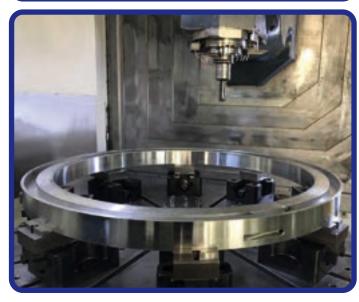














MADE IN UK







EXAMPLES OF JOBS DONE WITH TAG SPLIT FRAME CLAMSHELLS













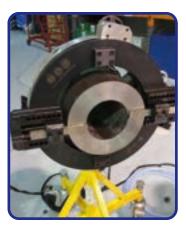






















SPLIT FRAME CLAMSHELL COLD CUTTING AND BEVELLING MACHINES 48" to 120"





The Basics

TAG's new range of split frame clamshells are essentially portable lathes.

Offering the versatility to cut and bevel (simultaneously if required), face, counterbore and O/D machine pipes (and vessels) of almost any diameter.

A steel body encases a steel inner ring gear, running on solid bearings.

Coupled with wide, hardened clamping feet, with easy read rule marks, enable rapid, repeatable concentric setup, even on out of round pipes and joints.

A range of tooling, power units and accessories allow you to tailor your machine to your particular job.

Features and Advantages

• 5 models cover a range from 48" (1,220 mm) to 120" (3,050 mm) O/D

Pneumatic, hydraulic and NC servo electric drive options provide increased versatility

 Adjustable heavy duty bearings, combined with easy access maintenance points allow inspection and adjustment

 Clamping feet are quickly and easily adjusted via a flush Hex head through the outer ring. Feet feature easy read measure marks for rapid setup and adjustment

 TAG split frame clamshells accept a wide range of accessories to increase performance and expand machine capabilities

 Unique 'TAG transmission' tool slides with changeable gears for adjustable Radial tool feed



Heavy Duty Steel Body

MODEL	RANGE O/D (INCH)	RANGE O/D (MM)	CLAMPING JAWS
TSFC60	48 - 60"	1,220 - 1,524mm	8
TSFC75	60 - 75"	1,524 - 1,910mm	8
TSFC90	75 - 90"	1,910 - 2,290mm	12
TSFC105	90 - 105"	2,290 - 2680mm	12
TSFC120	105 - 120"	2,680 - 3,050mm	12

Larger sizes available upon request











TAG E-Z FAB PIPE CUTTING AND BEVELLING MACHINE 1" to 24"













E-Z FAB PIPE COLD CUTTING AND BEVELLING MACHINE

O/D Locking Cold Pipe Cutting and Bevelling Machines

RANGE: 1 to 24" o/d (30 - 620mm)



The E-Z FAB is a revolutionary new cutting and bevelling system for pipes. Ideally suited, but not limited to workshops, and high productivity process environments.

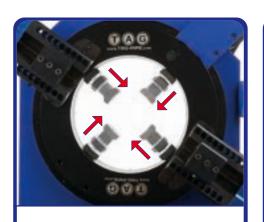
The E-Z FAB utilises a similar principle to our clamshell split frame cutting and bevelling machines.

However, the rotating, working inner ring is 1 piece, and is housed in a cast outer body, meaning strength, rigidity and speed. Due to its stability and powerful 1.5kw servo electric motor. The ring is 1 piece meaning that it can rotate at high speed, whilst maintaining a stable, precise cut.









Self centering locking system for rapid alignment and clamping of pipe



Built in coolant pump unit with drip tray as standard

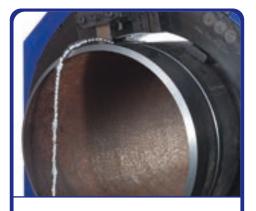


Sealed electrical box housing all NC controls and cabling





Range of formed cutting tools available for cutting all thickness's of pipe and bevelling at any required angle



Pipe cutting



Pipe bevelling



E-Z FAB PIPE COLD CUTTING AND BEVELLING MACHINE

Touch screen

The E-Z FAB has been fitted with a powerful 1.5KW Delta servo motor with Delta NC control. This enables ease of use with all functions touch screen, we have used our 25 years experience to recommend pre-set speeds for pipe size/material as you can see below this enables very quick and easy set up with no human error.

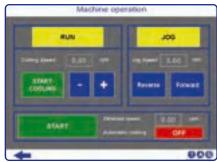
The numerically controlled (NC) servo motor offers unrivalled power and cut speeds, from a touch screen Delta control system, conveniently mounted on an adjustable stalk-arm for operating ease.

The touch screen control comes with 2 main settings: manual and automatic.

The automatic option offers pre-set cut rotation speeds for pipes within each machines' range, whilst the manual option allows the operator to adjust the speed of the machine themselves.

* Touch screen controls can be customised during commissioning/training.







Models available

MODEL	RANGE O/D (INCH)	RANGE O/D (MM)	WALL THICKNESS (MM)
EZFAB6	1 - 6"	30 - 170mm	6 - 40mm
EZFAB8	2 - 8"	70 - 220mm	6 - 40mm
EZFAB12	6 - 12"	170 - 320mm	6 - 40mm
EZFAB16	10 - 16"	270 - 420mm	6 - 40mm
EZFAB20	14 - 20"	370 - 520mm	6 - 40mm
EZFAB24	18 - 24"	470 - 620mm	6 - 40mm

^{*} Wall thickness' less than or greater than the above can be achieved with accessories - please contact TAG.

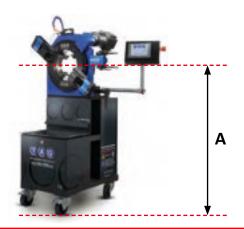
Example cutting and bevelling times

PIPE SIZE	PIPE SHD	WALL THICKNESS (MM)	PIPE MATERIAL	PRE-SET SPEED	CUTTING AND BEVELLING TIME
2 inch	SHD40	4mm	Stainless Steel	45rpm	2 minutes
4 inch	SHD40	4mm	Stainless Steel	30rpm	2.5 minutes
6 inch	SHDXXS	22mm	Carbon	35rpm	5 minutes
8 inch	SHD40	8mm	Stainless Steel	20rpm	9 minutes

Centreline of cutting point

MODEL	(A) MM	(A) INCH
EZFAB6	1,187.50	46.75
EZFAB8	1,196.00	47.08
EZFAB12	1,132.50	44.58
EZFAB16	1,177.50	46.35
EZFAB20	1,137.50	44.78
EZFAB24	1,462.50	57.57

^{*} Minus 155mm / 6.10" without castor wheels









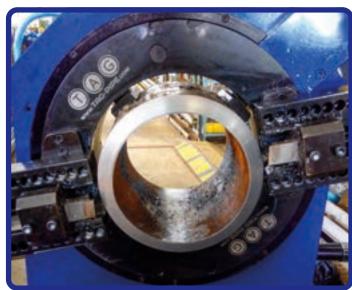


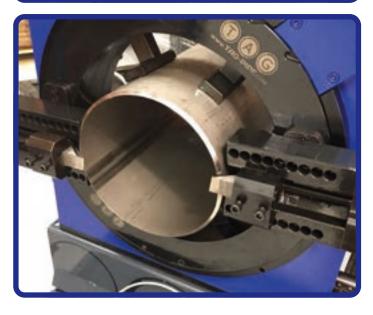
A G E-Z FAB UK PRODUCTION / APPLICATIONS















MADE IN UK







RANGE: 1 - 12" (optional up to 24")

• **Function:** Cutting up to 45° inclination

• Material: Any kind of steel

Power: Pneumatic or electric

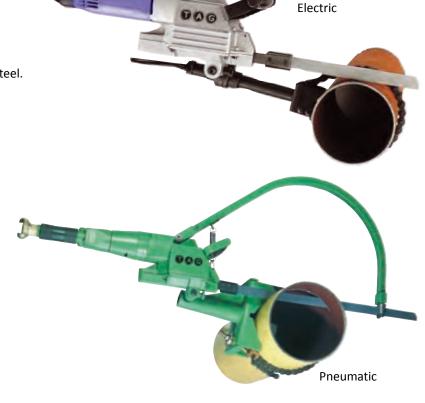
The light weight construction and ease of set up and operation makes it ideal for site work applications. It is capable of cutting most materials including stainless steel.



Pipe locking vice for 1" to 6". Adjustable blade position to cut angles from 90° to 45°. Stop feeding stroke included in the standard equipment.



Chain vice for 4" to 12". Stop feeding stroke included in the standard equipment.



660 x 209 x 98mm

	TECHNICAL SPECIFICATION							
Description		E-Z Pipe Saw Pneumatic	E-Z Pipe Saw Electric					
Part Number		EZSP	EZPSE100 / EZPSE220					
Locking tube range	mm	25 - 323 o/d	25 - 323 o/d					
Recommended working range	inch o/d	1 - 12"	1 - 12"					
Torque	N m	186	265					
Max operating temperature	°C	55	55					
Max noise level	dB	75	75					
Pneumatic motor power	hp	1.33	-					
Air consumption	cfm	55 - 60	-					
Air working pressure	psi	90	-					
Air hose connection	inch	3/11	-					
Electric motor power	watt	-	1400 (adj)					
Voltage	volt	-	110 / 220					
Frequency	Hz	-	50					
Idle Speed	strokes/min	300	450					
Unit weight	kg / lbs	11 / 24	9 / 20					
Packing dimensions	L x W x H mm	640 x 280 x 130	640 x 280 x 130					
Packing weight	kg / lbs	16 / 35	14 / 31					



Global Locations:



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OUR BRANDS









