

ATEX APPROVED

AIR SAWS FOR THE PROFESSIONAL

JSZ operating instructions



CENGAR AIR SAW MODEL JSZ

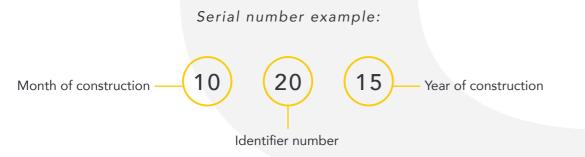
JSZ EXPLODED VIEW

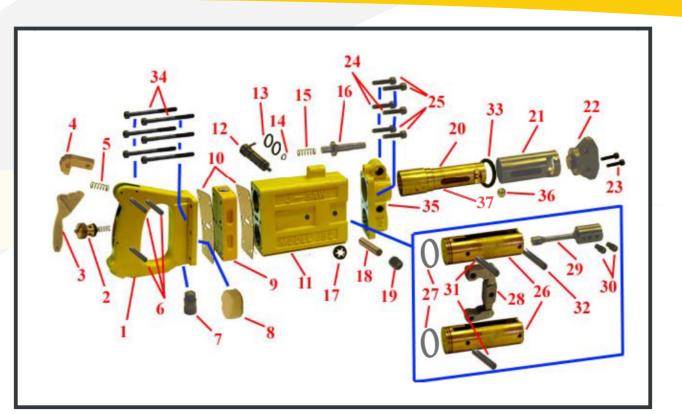
We recommend normal safe working practices should be followed as per the Health and Safety at Work Act, or the appropriate National and State Laws. We recommend that eye and ear protection be worn when using Cengar Saws.

SPECIFICATIONS

Speed	400/600 strokes per minute
Stroke	57mm
Air Compsumption	0.168m³/minute
Air Pressure	5-6 Bar
Weight	5.5Kgs
Length	448mm
Height	141mm
Width	54mm
Vibration Level Averaged	1.38m/s ²
Sound Pressure Level	80.5db
Sound Power Level	89.9db
Atex Certification	🕼 II 2G Ex h IIC T3 Gb

Each machine is marked with a serial number, which contains the year and month of construction, along with an identifier number.





ITEM	PART NO.	DESCRIPTION	NUMBER PER TOOL	ITEM	PART NO.	DESCRIPTION	NUMBER PER TOOL
1	8301	Handle	1	20	8319	Conn. Rod Guide	1
2	50034	Valve in Handle	1	21	8320	Silencer Guard	1
3&4	8303	Trigger & Catch	1	22	8324	Nosepiece	1
5	9334A	Spring	1	23	54160	Screws – Nosepiece	2
6	51834	Pins for Trigger	3	24	53034M	Screws	2
7	8306	Oil Plug & Seal	1	25	53034M	Screws	4
8	8307F	Filter	1	26	8310	Piston	2
9	8308	Valve Unit Complete	1	27	8310LS	Piston Seal	2
10	8307	Gasket	2	28	8312	Link to Pistons	1
11	8309Z	Body	1	29	8318	Connecting Rod	1
12	8314	Speed Regulator	1	30	55516	Blade Grip Screws	2
13	5012	'O' Ring	2	31	51114	Pins to Piston	2
14	5006	'O' Ring	1	32	51114	Pin to Conn Rod	1
15	8315A	Spring	1	33	0291	'O' Ring	1
16	8315	Clamp Securing Pin	1	34	54134M	Screws – Handle	6
17	8314C	Regulator Retainer	1	35	8316	Front End Bracket	1
18	55161	Centre Shaft	1	36	9332C	Détente Ball	1
19	8313M	Screw for above	1	37	-	Serial Number	-





UK DECLARATION OF CONFORMITY

EU DECLARATION OF CONFORMITY

We the undersigned, declare under our sole responsibility that the following apparatus:

Machine Description Cengar Air Saw

Machine Type | JSZ

Is in conformity with the following relevant UK legislation:

Supply of Machinery (Safety) Regulations 2008 (as amended)

Statutory Instrument SI2016:1107

Based on the following Harmonised Standards:

EN ISO 4414:2010 EN ISO 80079-36:2016 EN ISO 80079-37:2016 EN 60079-0:2018

And therefore complies with the essential requirements of those directives.

The following ignition hazards have been identified when the equipment is in use, hot surfaces, mechanical sparks, electrostatic charging. These are mitigated as the equipment was designed to meet the requirements of protection concept constructional safety "c".

ADDITIONAL INFORMATION			
UKEX coding	Ex II 2G Ex h IIC T2 Gb		
Aproved Body	Element Materials Technology Warwick Ltd Unit 1, Pendle Place, Skelmersdale, West Lancashire WN8 9PN, United Kingdom.		
Identification Number	0891		
Certificate No.	EMA21UKEX0011X		
Authorised Signature	M. Lauria		
Date	10/05/2021		
Title of Signatory	Technical Manager - Cengar Ltd. Springfield Works, Saddleworth Road, Greetland, Halifax HX4 8LZ		
Special Conditions of Safe Use (on the certificate)	 Suitably approved static dissipating or conductive air hose only to be attached to the equipment and terminated to the air supply. Operator to ensure that there is less than 1 Ohm resistance between the ground at the air source and any metallic object to be cut with the equipment. The equipment shall be supplied from a clean air source in an area known to not contain a potentially explosive atmosphere. A filter must be fitted to the supply compressor inlet to prevent dust airflow within the equipment. To comply with ATEX certification regulations it is necessary to use Cengar branded Blades with Cengar Saws. 		

1. Under normal working conditions can be used in a Zone 1 environment.

2. Classification based on tests cutting a selection of steels & composite materials (MB, MC, Yellow, JSZ) Blades.

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<u> </u>		
	Machine Description	С
	Machine Type	J
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	Machinery Directive	2
	Atex Directive	2
	Based on the following	Нa
	EN ISO 4414:2010 EI	V
	EN ISO 80079-37:201	6

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ADI	DITIONAL IN		
ATEX Coding	Ex II 2G Ex h IIC T2		
Notified Body (Atex holding technical file)	Element Materials T Voorerf 18, 4824 GN		
Identification Number	2812		
Certificate No.	EMT18ATEX 0032X		
Authorised Signature	M. Laurin		
Date	06/02/2020		
Title of Signatory	Technical Manager - Springfield Works, Sa		
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Cengar Air Saw

SZ

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006/42/EC

014/34/EU

armonised Standards:

ISO 80079-36:2016

EN 60079-0:2018

FORMATION

Gb

Technology Rotterdam B.V. N Breda, Netherlands

- Cengar Ltd. addleworth Road, Greetland, Halifax HX4 8LZ

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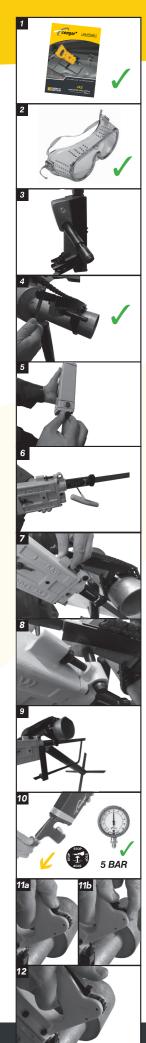
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INSTRUCTIONS

1. Always read the instructions.

- 2. Always wear safety glasses.
- 3. Fit the spigot (CP1/3) into the appropriate side of the clamp in the front of the two holes in the clamp body and tighten securing nut.
- 4. Position the clamp on the pipe with the chain around the pipe and tighten using the tommy bar (end of CP1/6). Ensure the clamp is perpendicular to the pipe for an accurate cut.
- 5. Invert machine and remove oil plug (8316). Fill the cavity with Cengar Green Oil and replace plug.
- 6. Without connecting the air supply, fit the appropriate blade with the teeth upper most. Ensure BOTH screws are fully tightened using supplied T key.
- 7. Mount the machine onto the spigot whilst pulling back clamp securing pin (8315). Slide the machine into the groove in the spigot. Ensure it is correctly located.
- 8. When mounted correctly the blade should be under the pipe so that the weight of the machine applies the cutting force to the blade.
- 9. If using a long blade (MJ450) for larger diameter pipes attach the supplied bow guide using the fixings provided to ensure a straight cut is achieved.

10. Attach air supply (5-6 bar).

- 11. Press the trigger to start the machine and lock trigger in place with the catch. Gently bring the blade into contact with the work gradually release the weight of the machine to allow the cut to take place without extra force.
- 12. When the cut is complete release the catch to stop the machine. Remove air supply before attempting to remove machine from spigot (reverse of 5 above).

CENGAR BLADE SELECTION FOR CUTTING SOLID MATERIAL

AVAILABLE BLADE PITCHES

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Thickness (mm)	14 TPI	10-14 TPI Varipitch	10 TPI	8 TPI	6 TPI
10	6	5	4	3	2
15	8	7	6	5	4
20	11	9	8	6	5
25	14	12	10	8	6
30	17	14	12	9	7
35	19	17	14	11	8
40	22	19	16	13	9
45	25	21	18	14	11
50	28	24	20	16	12
55	30	26	22	17	13
60	33	28	24	19	14
65	36	31	26	20	15
70	39	33	28	22	17
75	41	35	30	24	18
80	44	38	31	25	19
85	47	40	33	27	20
90	50	43	35	28	21
95	52	45	37	30	22
100	55	47	39	31	24

The numbers in the coloured boxes indicates the actual number of teeth which will be in contact with the work

BLADE SELECTION		
Pipe Diameter (mm)	JSZ/JSM	
150	300mm blade	
300	450mm blade	



Visit our website www.cengar.com to view our range of blades, clamps and accessories.



DO'S & DON'TS

1. ALWAYS use Cengar green oil for best results. Keeping the saw clean and well oiled will give excellent reliability, and a long life.

2. ALWAYS use Cengar Bi-Metal Shatterproof blades, for safety, and best cutting performance.

3. ALWAYS isolate the air supply when changing blades.

4. ALWAYS wear eye protection when using sawing machines.

5. ALWAYS isolate the machine when not in use.

6. ALWAYS keep others away from the saw blade to prevent injury or trapping.

7. ALWAYS have machines vibration tested annually to ensure exposure is kept to the minimum.

1. NEVER fit breakable "All-Hard" blades in Cengar saws, these can shatter causing injury to yourself and others.

2. NEVER operate saw without wearing safety glasses.

3. NEVER operate saw whilst you, or others are near the saw blade, which can cause serious injury or trapping.

4. NEVER use excessive force, this may increase vibration above safe levels.

5. NEVER hold the Cengar saw in a vice by the body, this will distort the bores, rendering the tool inoperative.

6. NEVER screw nameplates to the body, as the screws may penetrate an airway or bore.

7. NEVER operate the Cengar saw without lubrication.

8. NEVER be tempted to clean internal parts with anything other than a clean lint free cloth, and M.S. Cleaner, or Cengar Green oil.

9. NEVER modify Cengar saws or use non Cengar parts, this will invalidate ATEX approval, and warranty.





SERVICE

We offer a full factory repair and refurbishment service for Cengar Saws, normally within 5 working days. Quotations at no charge can be given before work is carried out.

DISTRIBUTOR ADDRESS

Cengar Ltd. Springfield Works, Saddleworth Road, Greetland, Halifax, England HX4 8LZ

Tel: 01422 377904 Fax: 01422 377161 enquiries@cengar.com www.cengar.com