



ATEX APPROVED



AIR SAWS FOR THE PROFESSIONAL

JP901

operating instructions

**MADE IN
BRITAIN**

CENGAR AIR SAW MODEL JP901

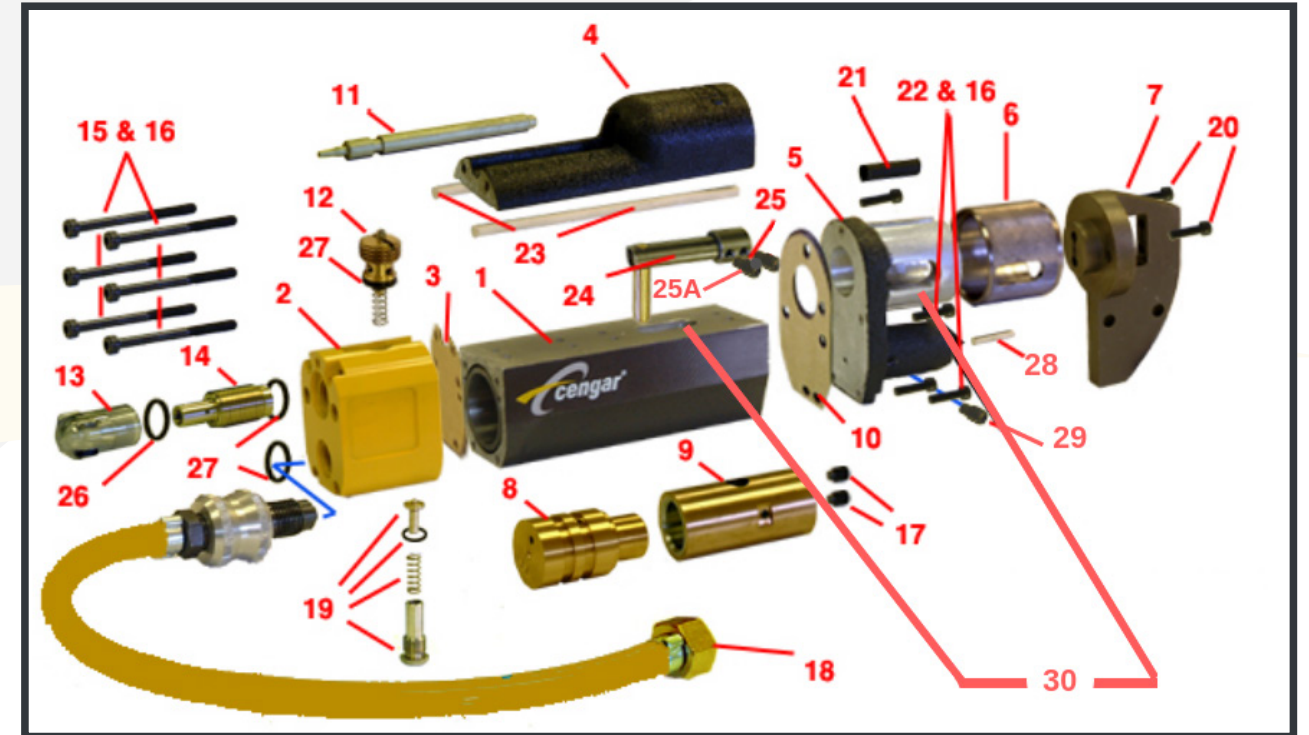
JP901 EXPLODED VIEW

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	10,000 strokes per minute
Stroke	9mm
Air Consumption	0.116m ³ /minute
Air Pressure	5-6 Bar
Weight	1.6Kgs
Length	270mm
Height	70mm
Width	40mm
Vibration Level Averaged	6.5
Sound Pressure Level	68.6db
Sound Power Level	78.0db
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.

Serial number example:



ITEM	PART NO.	DESCRIPTION	NUMBER PER TOOL	ITEM	PART NO.	DESCRIPTION	NUMBER PER TOOL
1	9337	Body	1	19	9334L	Starter Valve Assy	1
2	9335	Valve Unit	1		9334D	Starter Body Long	1
3	9336	Gasket Rear	1		9334C	Starter Spindle	1
4	9339	Top Cover	1		9334A	Starter Spring	1
5	9341	Front End	1		5007	Starter Seal	1
6	9342	Silencer Guard	1	20	50412	Screws – Nosepiece	2
7	5045	Nosepiece	1	21	9343	Silencer Steady	1
8	2253	Piston Rear	1	22	54200	Screws Front End	5
9	2252	Piston Front	1	23	9338	Seal – Top Cover	2
10	9340	Gasket Front	1	24	9344	Pedestal	1
11	9333	Trigger	1	25	5068	Blade Grip Screw	1
12	50034	Valve in Handle	1	25A	5068G	Blade Grip Screw	1
13	2257	Oil Cup	1	26	5206	Seal – Oil Cup	1
14	9332	Oiler	1	27	5108	Seal – Various	3
15	54500	Screw Valve to Body	6	28	93412	Bleed Tube	1
16	W54	Serrated Washer	11	29	5056	Bleed Screw	2
17	5068G	Screw to Pedestal	2	30	-	Serial Number	-
18	9331C	Hose Isolator Assy	1				



UK DECLARATION OF CONFORMITY

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

Machine Description	Cengar Air Saw
Machine Type	JP901

Is in conformity with the following relevant UK legislation:

Supply of Machinery (Safety) Regulations 2008 (as amended)	
UKEX Regulations	SI 2016:1107

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	 II 2G Ex h IIC T2 Gb
Approved Body (UKEX holding technical file)	Element Materials Technology Warwick Ltd Unit 1, Pendle Place, Skelmersdale, West Lancashire WN8 9PN, United Kingdom.
Identification Number	0891
Certificate No.	EMA21UKEX0011X
Authorised Signature	
Date	10/05/2021
Title of Signatory	Commercial Manager - Cengar Ltd. Springfield Works, Saddleworth Road, Greetland, Halifax HX4 8LZ
Special Conditions of Safe Use (on the certificate)	<ol style="list-style-type: none"> 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 UKEX 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.

EU DECLARATION OF CONFORMITY

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

Machine Description	Cengar Air Saw
Machine Type	JP901

Is in conformity with the following relevant EC legislation:

Machinery Directive	2006/42/EC
Atex Directive	2014/34/EU

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".

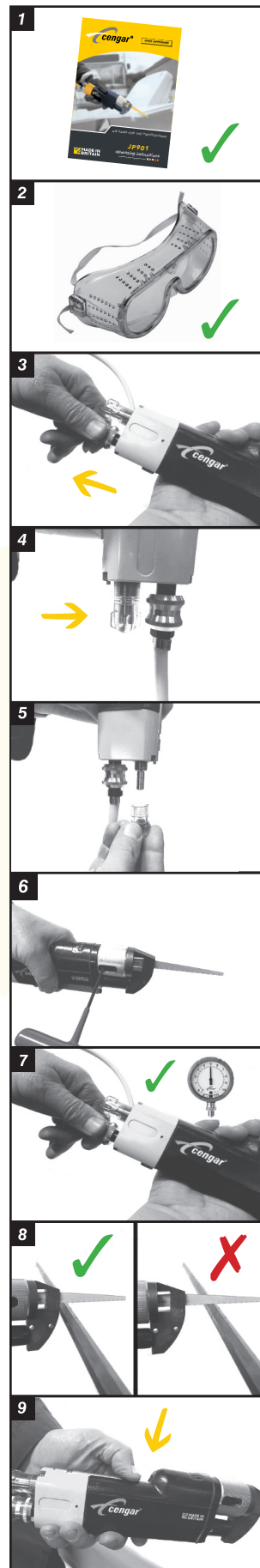
ADDITIONAL INFORMATION

ATEX Coding	 II 2G Ex h IIC T2 Gb
Notified Body (Atex holding technical file)	Element Materials Technology Rotterdam B.V. Voorerf 18, 4824 GN Breda, Netherlands
Identification Number	2812
Certificate No.	EMT18ATEX 0032X
Authorised Signature	
Date	06/02/2020
Title of Signatory	Commercial Manager - Cengar Ltd. Springfield Works, Saddleworth Road, Greetland, Halifax HX4 8LZ
Special Conditions of Safe Use (on the certificate)	<ol style="list-style-type: none"> 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.





INSTRUCTIONS

1. Always read the instructions.
2. Always wear safety glasses.
3. Before carrying out any checks slide isolator rearwards to the off position.
4. Before operation ensure there is sufficient Cengar Green Oil in the oil cup.
5. To top up, remove the oil cup and fill to the level of the thread. Do not overfill as this will result in a hydraulic lock and the machine will not lubricate correctly. Refit oil cup.
6. Fit required blade using provided T key. Ensure BOTH blade grip screws are tightened correctly.
7. Connect to a 5-6 bar air supply and slide the isolator forward to the on position.
8. Ensure nosepiece is pressed against work to be cut.
9. Press trigger and apply light downward pressure.

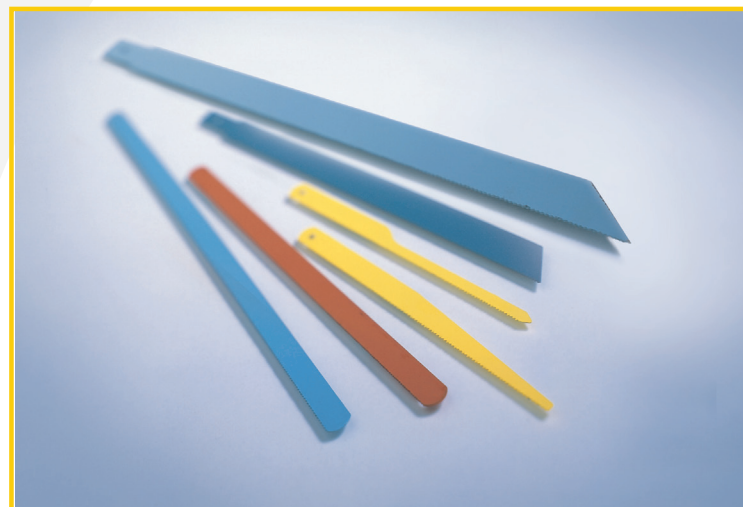
CENGAR BLADE SELECTION FOR CUTTING SOLID MATERIAL

AVAILABLE BLADE PITCHES				
Thickness (mm)	32 TPI	24 TPI	18 TPI	14 TPI
2	3	2	1	1
5	6	5	4	3
10	13	9	7	6

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

JP901 suitable for sheet metal up to 3mm thick and 6mm composites. Please refer to page 7 or our website to view our range of saws for cutting thicker materials.

BLADE SELECTION	
MYT150	Tapered yellow blade for glassfibre and general purpose - 18TPI
MYN150	Notched yellow blade for scrolling & fine work - 18TPI
MC200	220mm long by 12mm deep blade for general cutting - 10,14,18 & 24TPI
HP300	300mm long by 12mm deep - comes in 14,18,24 & 32TPI



GENERAL RULE:

- No less than 3 teeth in contact
- Ideally between 6 and 12 teeth in contact
- No more than 24 teeth in contact

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 saws.
 5. **ALWAYS** keep the nosepiece hard against the work piece to prevent excessive vibration.
 6. **ALWAYS** isolate the machine when not in use.
 7. **ALWAYS** keep others away from the saw blade to prevent injury or trapping.
 8. **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 the operator 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 because this may increase vibration above safe levels.
 5. **NEVER** hold the Cengar saw in a vice by the body. This will distort the bore, 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 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

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