

**ATEX APPROVED** 





PL905 operating instructions

#### **WHO WE ARE**

Professionals in many Industries have relied on Cengar products for reliability, low maintenance and operator safety for decades. Our Cengar Air Saws are used Worldwide in many industries, where our quality saws are relied upon and trusted for their cutting performance. Since 2016 our Pallet Spreader has become the pallet repairer's number one choice for helping to repair and recycle used pallets. We are proud that we can help sustainability and the environment. More recently Cengar has added impact sockets to its portfolio, we are able to manufacture high-quality impact sockets for use on pneumatic, hydraulic, petrol and battery Impact Wrenches.

### **CENGAR AIR SAW MODEL PL905**

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.

SPECIFIC	ATIONS
Speed	2000 strokes per minute
Stroke	22mm
Air Compsumption	0.116m³/minute
Air Pressure	5-6 Bar
Weight	2.4Kgs
Length	300mm
Height	135mm
Width	40.6mm
Vibration Level Averaged	1.9m/s <sup>2</sup>
Sound Pressure Level	68.7db
Sound Power Level	69.8db
Atex Certification	€ II 2G Ex h IIC T2 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:

Identifier number — 20 10 15 — Year of construction

Month of construction



#### **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	PL905

Is in conformity with the following relevant UK legislation:

Supply of Machinery (Safety) R	egulations 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".

ADI	DITIONAL INFORMATION
UKEX coding	⟨Ex⟩ 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	S. Sha
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> <li>Suitably approved static dissipating or conductive air hose only to be attached to the equipment and terminated to the air supply.</li> <li>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.</li> <li>The equipment shall be supplied from a clean air source in an area known to not contain a potentially explosive atmosphere.</li> <li>A filter must be fitted to the supply compressor inlet to prevent dust airflow within the equipment.</li> <li>To comply with UKEX certification regulations it is necessary to use Cengar branded Blades with Cengar Saws.</li> </ol>

<sup>1.</sup> Under normal working conditions can be used in a Zone 1 environment.

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

Machine Description	Cengar Air Saw
Machine Type	PL905

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	⟨Ex⟩ II 2G Ex h IIC T2 Gb			
Notified Body (Atex holding technical file)	~,			
Identification Number	2812			
Certificate No.	EMT18ATEX 0032X			
Authorised Signature	S.Sha			
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)	1. Suitably approved static dissipating or conductive air hose only to be attached to the equipment and terminated to the air supply.  2. 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.  3. The equipment shall be supplied from a clean air source in an area known to not contain a potentially explosive atmosphere.  4. A filter must be fitted to the supply compressor inlet to prevent dust airflow within the equipment.  5. To comply with ATEX certification regulations it is necessary to use Cengar branded Blades with Cengar Saws.			

<sup>1.</sup> Under normal working conditions can be used in a Zone 1 environment.

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



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### DO'S & DON'TS



- 1. Always read the instructions.
- 2. Always wear safety glasses.
- 3. Unscrew oil cap and fill with Cengar Green Oil. Replace cap.
- 4. Isolate air supply before fitting blade by pushing stop button in.
- 5. Fit the blade with the teeth facing the machine. Avoid handling the blade teeth.
- 6. Secure blade by tightening both grip screws with supplied T key.
- 7. Connect to 5-6 bar air supply and pull out stop button.
- 8. Ensure nosepiece is pressed against work piece to be cut.
- 9. Press trigger and apply light downward pressure.

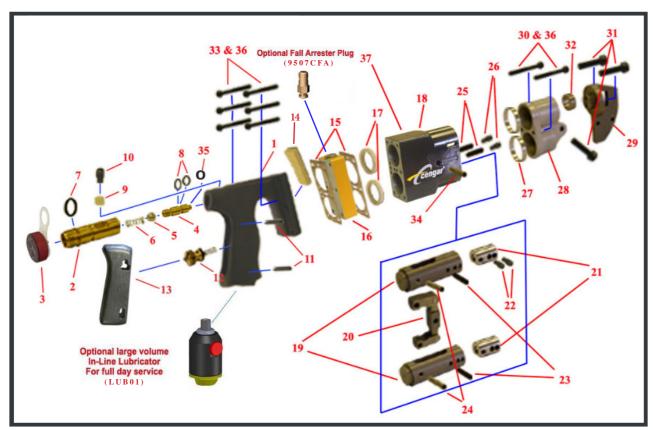
Please refer to page 10 for the correct blade selection.

- 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 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 or Cengar Green oil.
- 9. NEVER modify Cengar saws or use non Cengar parts. This will invalidate ATEX approval and warranty.

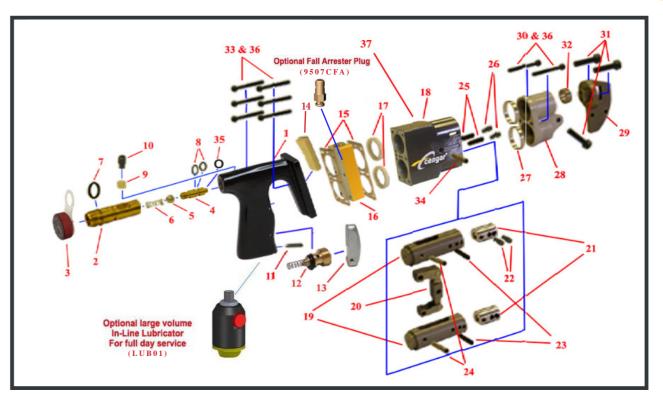


# **PL905 EXPLODED VIEW**

# **PL905FT EXPLODED VIEW**



ITEM	PART NO.	DESCRIPTION	NUMBER PER TOOL	ITEM	PART NO.	DESCRIPTION	NUMBER PER TOOL
1	9550	Handle	1	19	9509	Piston with Blade Grip	2
2	9554	Isolator Body	1	20	1150	Link	1
3	9553	Oil Cap & Retainer	1	21	9512	Blade Grip	2
4	9555	Isolator Nozzle	1	22	5068	Blade Screw	2
5	9559	Oil Control Ball	1	23	9513	Pin-Blade Grip	2
6	9334A	Spring	1	24	9519	Pin-Link	2
7	9561	'O' Ring Large	2	25	9514	Locking Pin	2
8	9560	'O' Ring Small	2	26	5056	Retaining Screw	2
9	9557	Détente Spring	1	27	9515	Connecting Ring	2
10	9556A	Lock Screw	1	28	9516	Front End	1
2 to 10	9552	Isolator Assembly		29	5045	Nose Piece ½"	1
11	51834	Roll Pin-Trigger	2	30	5520	Screw	2
12	50034	Valve in Handle	1	31	54160	Screw	3
13	9502	Trigger	1	32	9517	Guide Bush	1
14	9506	Filter/Gauze	1	33	5540	Screw-Handle	6
15	9538	Gasket	2	34	9511	Pivot Pin	1
16	9507	Valve Unit	1	35	9564	'O' Ring	1
17	9510	Piston Ring	2	36	W55	Serrated Washer	8
18	9508	Body	1	37	-	Serial Number	_



ITEM	PART NO.	DESCRIPTION	NUMBER PER TOOL	ITEM	PART NO.	DESCRIPTION	NUMBER PER TOOL
1	9550FT	Handle	1	19	9509	Piston with Blade Grip	2
2	9554	Isolator Body	1	20	1150	Link	1
3	9553	Oil Cap & Retainer	1	21	9512	Blade Grip	2
4	9555	Isolator Nozzle	1	22	5068	Blade Screw	2
5	9559	Oil Control Ball	1	23	9513	Pin-Blade Grip	2
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15	9538	Gasket	2	34	9511	Pivot Pin	1
16	9507	Valve Unit	1	35	9564	'O' Ring	1
17	9510	Piston Ring	2	36	W55	Serrated Washer	8
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# CENGAR BLADE SELECTION FOR CUTTING SOLID MATERIAL

## ADDITIONAL CENGAR SAWS AVAILABLE

	AVAILABLE BLADE PITCHES				
Thickness (mm)	32 TPI	24 TPI	18 TPI	14 TPI	10 TPI
2	3	2	1	1	1
5	6	5	4	3	2
10	13	9	7	6	4
15	19	14	11	8	6
20	25	19	14	11	8
25	31	24	18	14	10
30	38	28	21	17	12
35	44	33	25	19	14
40	50	38	28	22	16
45	57	43	32	25	18
50	63	47	35	28	20

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)	PL905		
50	200mm blade		
100	250mm blade		
150	300mm blade		

GEI	NERAL RULE:
	No less that 3 teeth in contact
	Ideally between 6 & 12 teeth in contact
	No more than 24 teeth in contact

PL905 GENERAL PURPOSE CUTTING USING 12MM (1/2") WIDE CENGAR SHATTERPROOF BLADE		
Туре	Length mm	ТРІ
Hand	300	14, 18, 24, 32
МС	220	10, 14, 18, 24

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

# **CL75**



Steel Pipe up to 150mm dia and similar size sections.

# JP901



Thin metal up to 3mm and GRP to 6mm thick.

# **CS75**



High Quality Steel Pipe up to 150mm dia and similar size sections.

# JSZ



Steel Pipe up to 300mm dia and similar size sections.





#### **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

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