

DEZEGA®

INNOVATION IN RESPIRATORY PROTECTION



IMRB RUSSIA 2017

VIII International Mines Rescue
Body Conference

BACKGROUND

DEZEGA is a global company focused on design and manufacturing of the closed circuit respiratory equipment for mining and mine-rescue.

DEZEGA inherits traditions of DZGA brand originating from Donetsk since 1960.

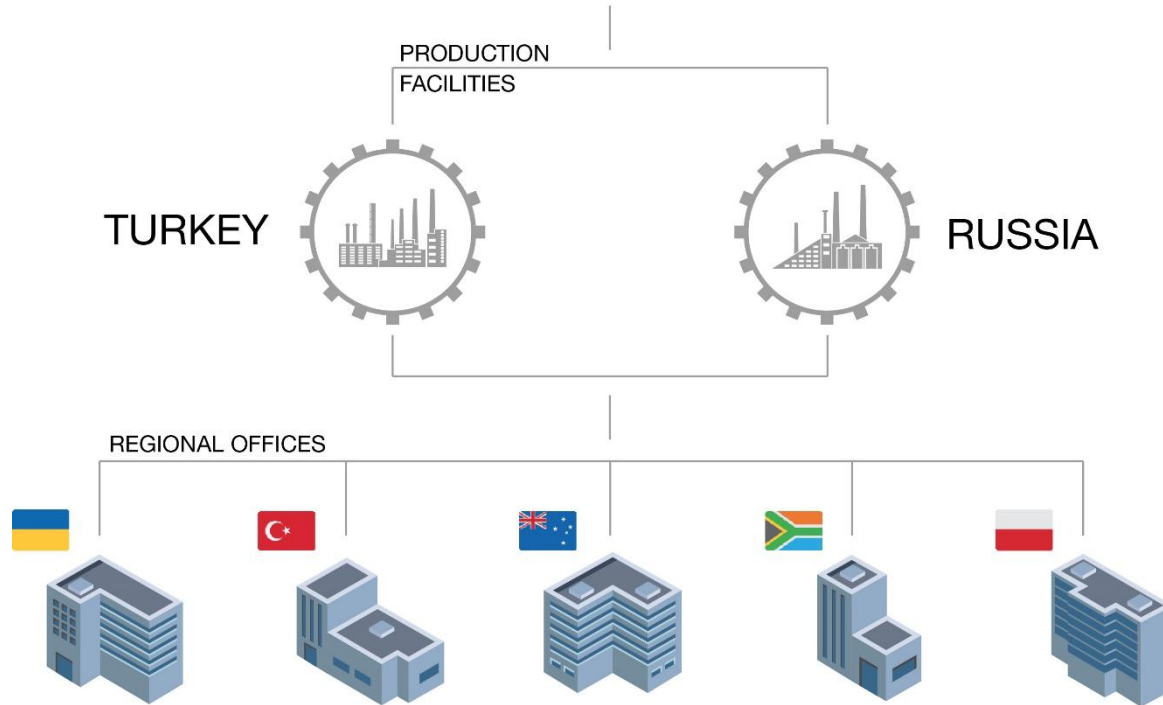


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LIFELONG SAFETY EXPERIENCE

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STRUCTURE



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FIGURES AND FACTS



Originates from **1960**



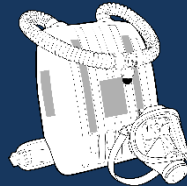
Products are used
in 40 + countries



800 lives saved in 2016



More than 7 million
self-rescuers
produced



Over 130.000 SCBA
produced



More than 500 000 self-rescuers
deployed daily

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Closed Circuit SCBA

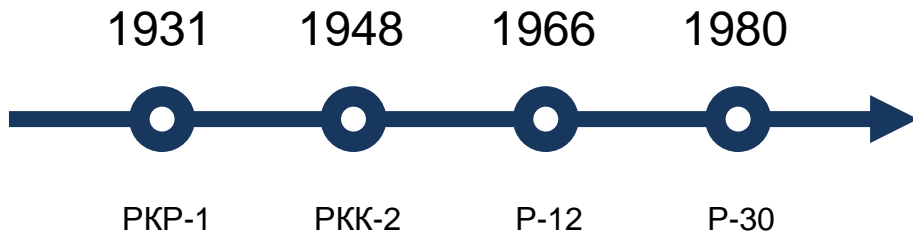


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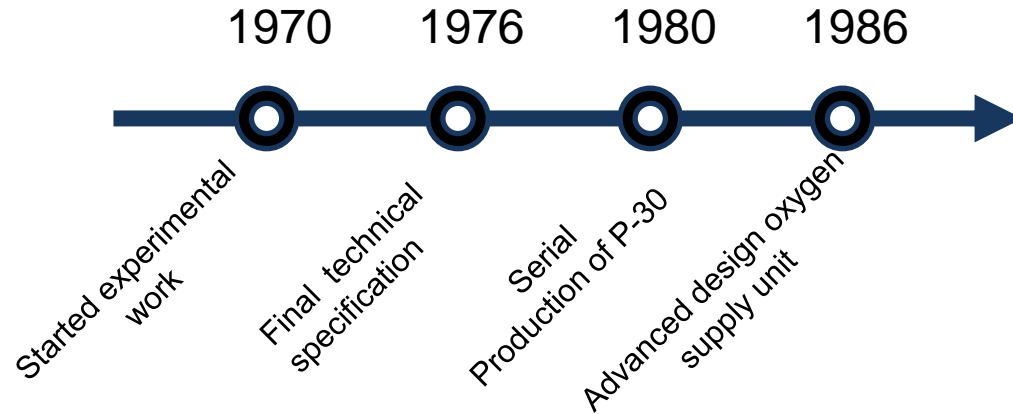
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HISTORY OF DEVELOPMENT CC SCBA in Donetsk

- Historically there are two schools of closed circuit BA design on the globe
- The average life cycle of respirator in the XX century – 15-17 years
- P-30 is the final respirator serially produced in the XX century



P-30 DEVELOPMENT



During the experimental work, prototype of P-25, P-26, P-27, P-28, P-29 respirators were manufactured and tested



Monument to Mine Rescuer wearing P-30, Moscow, Russia

P-30EX DEVELOPMENT

Advanced safety requirements and European Standard imposed new requirements on the P-30 and it was upgraded to P-30EX in 2008



P-30EX has been used in IMRC 2010, 2012, 2014

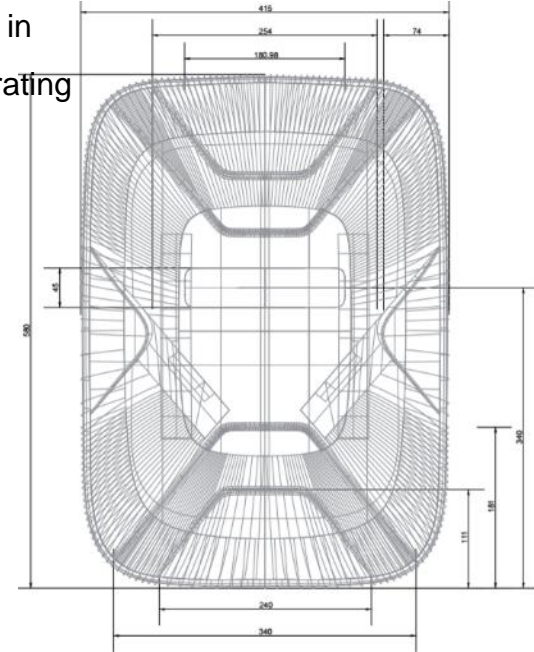
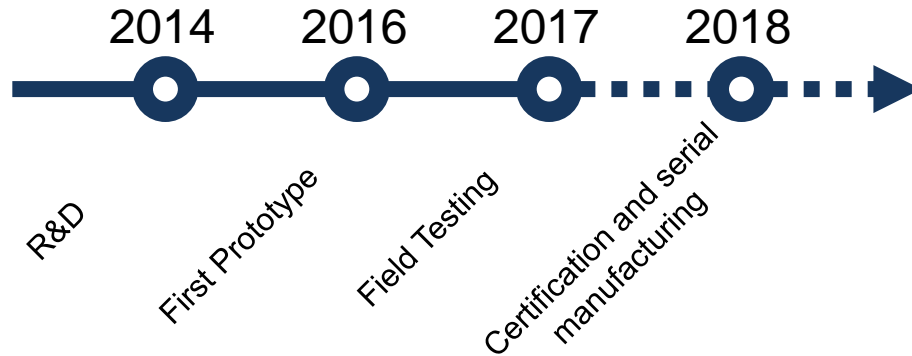
XXI CENTURY - THE AGE OF TECHNOLOGICAL PROGRESS



Why do not we use all the latest technologies for new innovative solutions in RPEs?

NEW DEZEGA CLOSED CIRCUIT SCBA

The new breathing apparatus from DEZEGA is a combination of the latest advances in technology and sciences, including materials and electronics, the experience of operating its own BAs and worldwide experience



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PROTOTYPE



TECHNICAL DATA *

Nominal rated duration, min	240
Operation temperature, °C	-20...+60
Inhaled gas temperature, °C	≤36
Dimensions HxWxL, mm	550x400x175
Pressure in circuit	Positive
Apparatus weight, kg	≤12

* In compliance with EN 145

INNOVATIONS

- The smallest dimensions in comparison with the analogues
- The lowest weight in comparison with the analogues
- New full-face mask D-Vision
- Improved breathing conditions
- The option of connecting breathing circuits of 2 BAs
- Ergonomic harness (4 adjustment points)
- Simplified maintenance



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FULL CONTROL OF THE APPARATUS STATE

Digital monitoring system consists of 6 sensors

FUNCTIONS

- Parameters monitoring
- Displaying information on the screen
- Alarming
- Motion sensor
- Data logging
- Wireless data transfer



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NEW VISION WITH DEZEGA D-VISION

Mask is the most important part of the BA

FUNCTIONS

- 3 sizes
- Option for eye-correction lenses
- Option for built-in communication
- Optional drinking device



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NEW DEZEGA TESTER

APPLICABLE FOR TESTING

- Positive pressure closed circuit BA
- Normal pressure closed circuit BA
- Compressed air BA
- Resuscitators



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SUMMARY

- Dezega is a new brand with long traditions originating from Donetsk
- Since 2014 the company is restructured and the production is relocated
- After more than half a century of serving mine rescue needs Dezega is here with a new BA



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