



**KAPS**

Kimia Azma Pajouh Sepahan  
Power to Create

# Benchtop NMR Tube Washing Apparatus

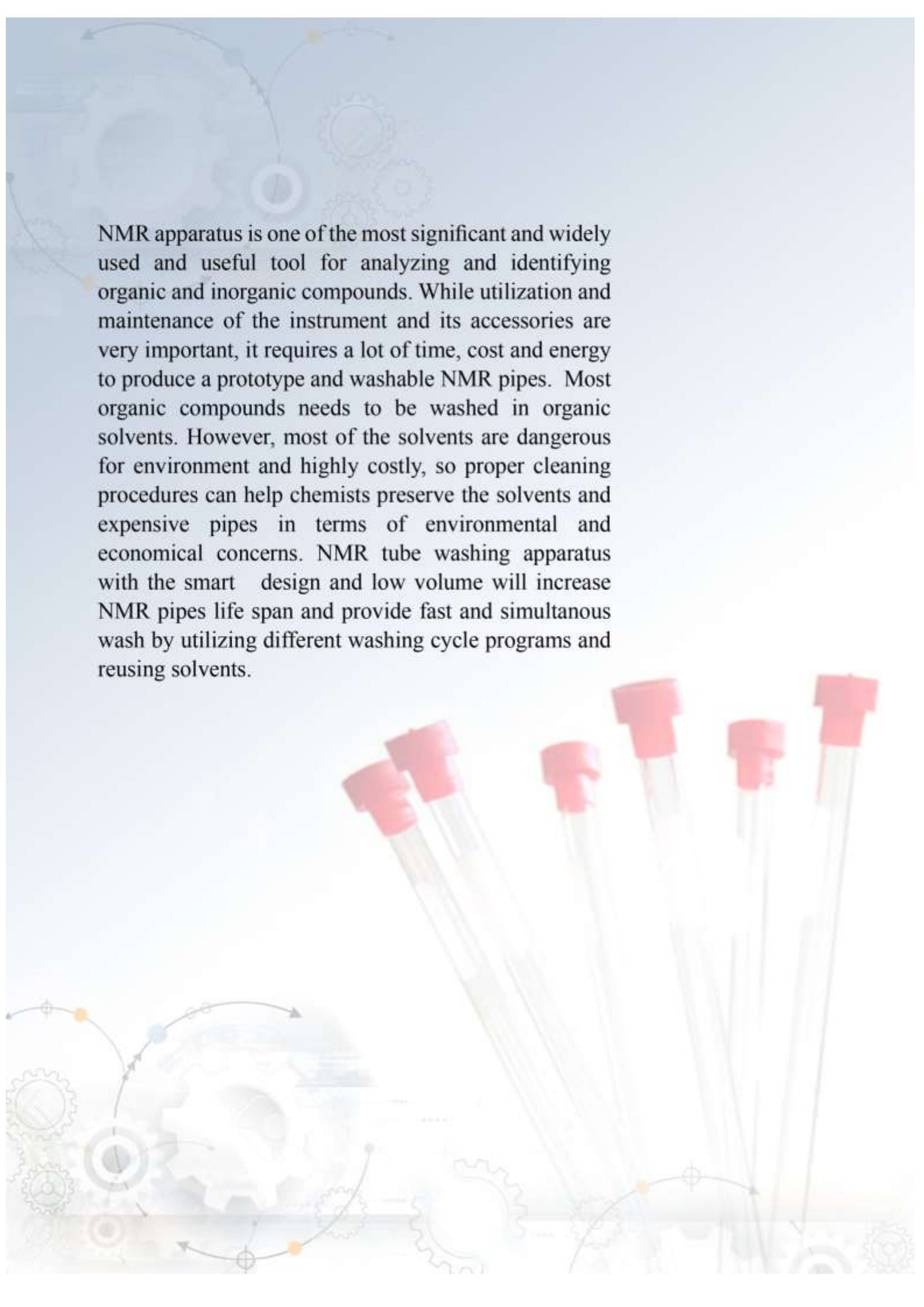


📍 Kaps co., University of Isfahan, Isfahan, Iran

✉ [info@kaps.ir](mailto:info@kaps.ir)

☎ +98-912-327-8407

☎ +98-31-379-342-01

The background of the slide features a light blue gradient with a decorative pattern of semi-transparent gears and curved arrows in various colors (grey, blue, orange, yellow) scattered across the top and bottom sections.

NMR apparatus is one of the most significant and widely used and useful tool for analyzing and identifying organic and inorganic compounds. While utilization and maintenance of the instrument and its accessories are very important, it requires a lot of time, cost and energy to produce a prototype and washable NMR pipes. Most organic compounds needs to be washed in organic solvents. However, most of the solvents are dangerous for environment and highly costly, so proper cleaning procedures can help chemists preserve the solvents and expensive pipes in terms of environmental and economical concerns. NMR tube washing apparatus with the smart design and low volume will increase NMR pipes life span and provide fast and simultaneous wash by utilizing different washing cycle programs and reusing solvents.





Electrical  
Requirements  
/ 220V/ 50Hz  
1A/AC

Controller  
Dimension  
(W×H×D)  
237×69×176 mm

Washing  
Machine  
Dimension  
(W×H×D)  
710×421×310 mm

Pump Type  
Air Compressor  
(150psi)



## Specifications

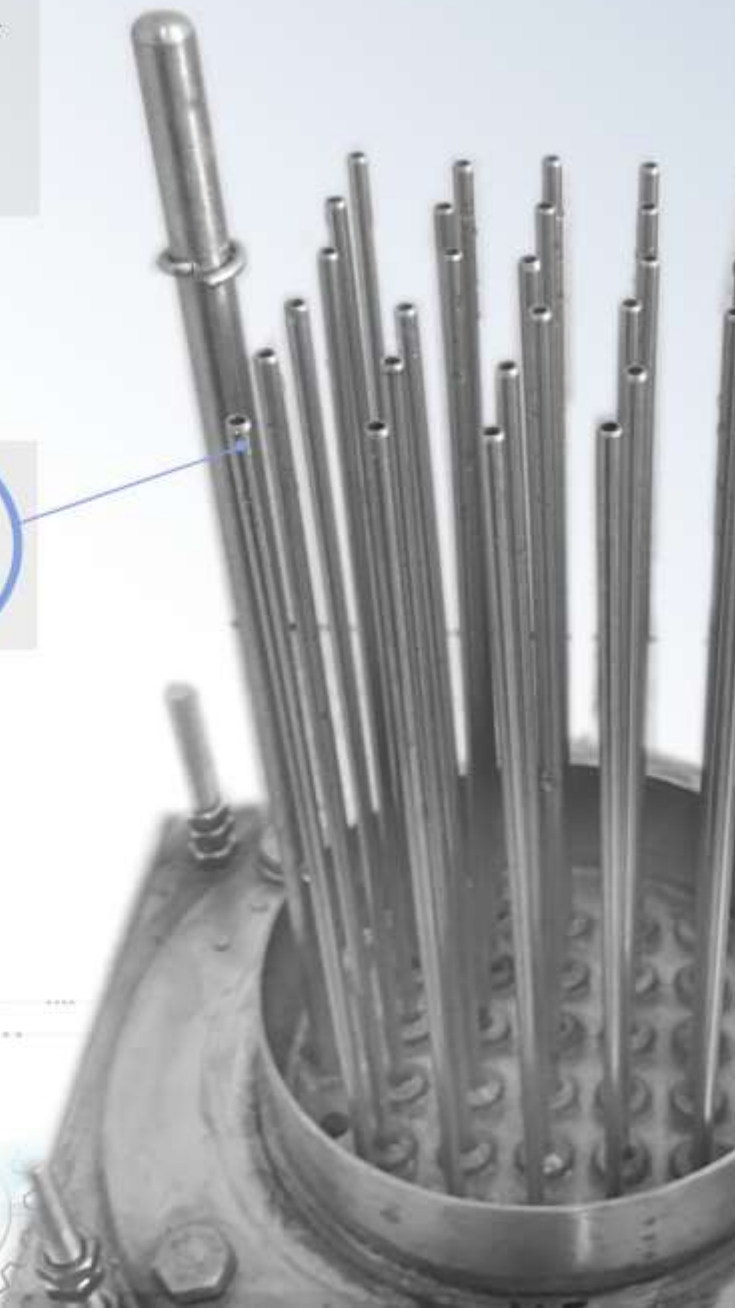
Steel pipes for transmission of fluids 30  
PTFE pipes resistant to acid and organic solvents  
Utilizing three kinds of solvents (detergents)  
Drying NMR pipes  
Adjustable velocity and solvent and air flow  
Washing timing programs (second: minute: hour)  
Ability to reuse the washing solvents



# Pipe Holder & Washing Cups

Easy and comfort embedding NMR pipes  
Uniform flow of fluids  
Ability to use the least and the most cup capacity  
Anti-acid steel pipes  
Ability to repair and change pipes

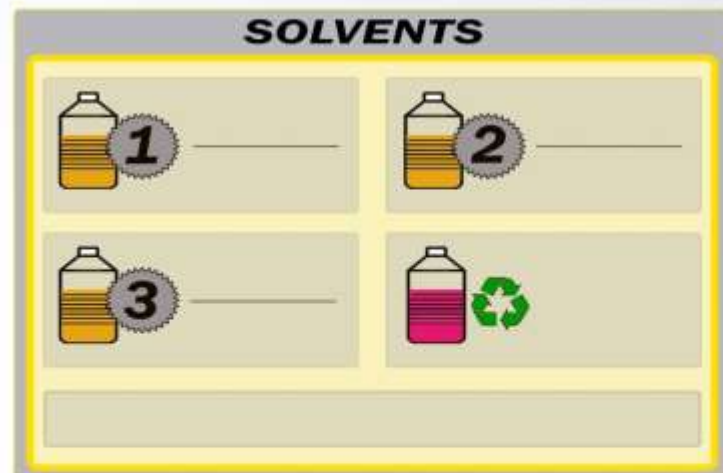
Delicate and precise cutting in  
steel pipes for the whole washing



# Controller



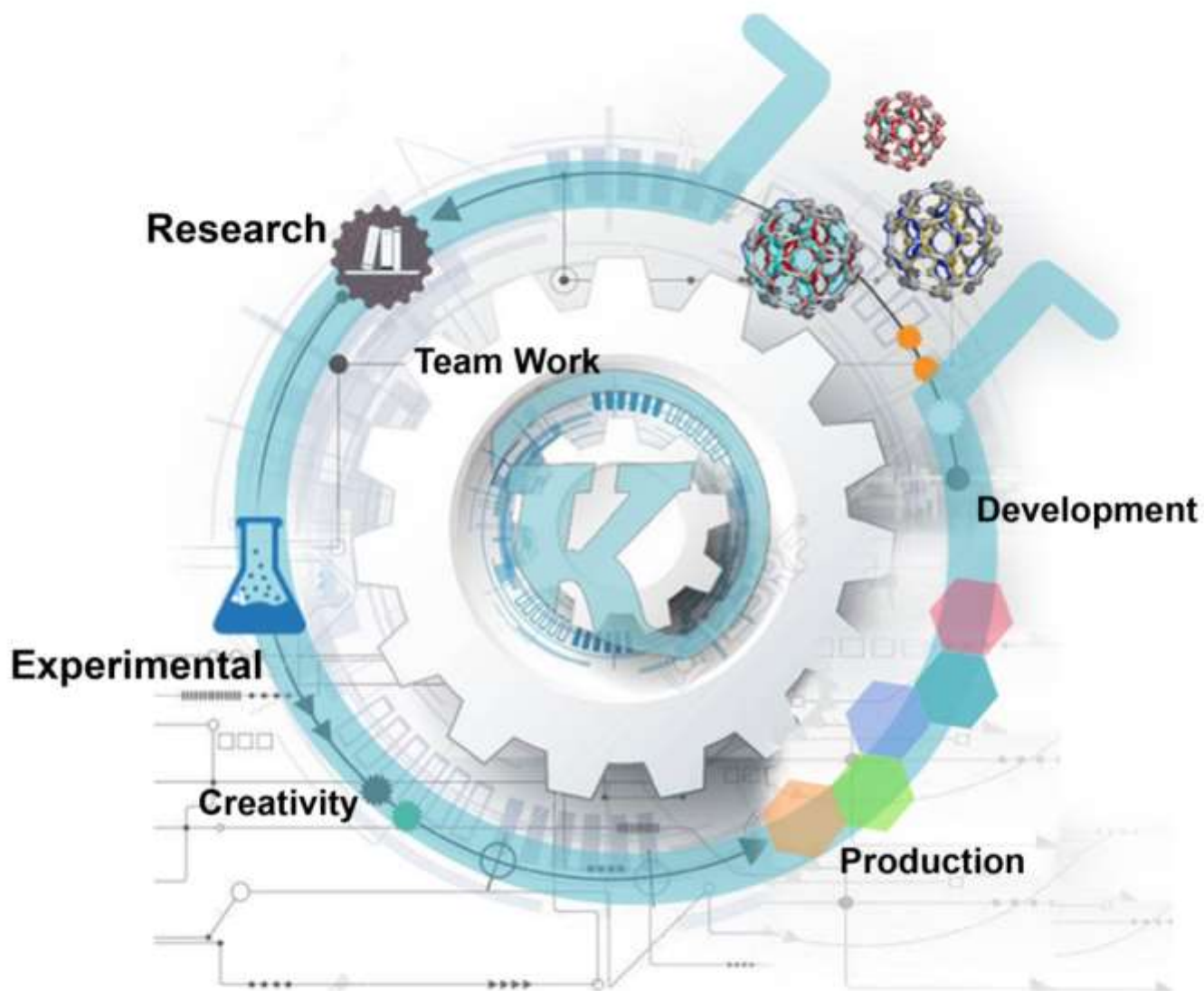
- Programming washing cycle
- Washing by 1 to 3 different solvents
- Different washing programs
- Drying pipes from solvents
- Adjustable Washing time
- Showing the end of (one )wash
- Washing cycle counter



# Kimia Azma Pajouh Sepahan (KAPS)

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## Chemical Science & Technology



**Catalyst**



Catalyst

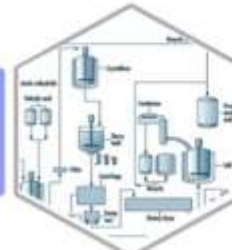
**Nano Materials**



Colors



nano



Chemical Engineering

**Coating**

