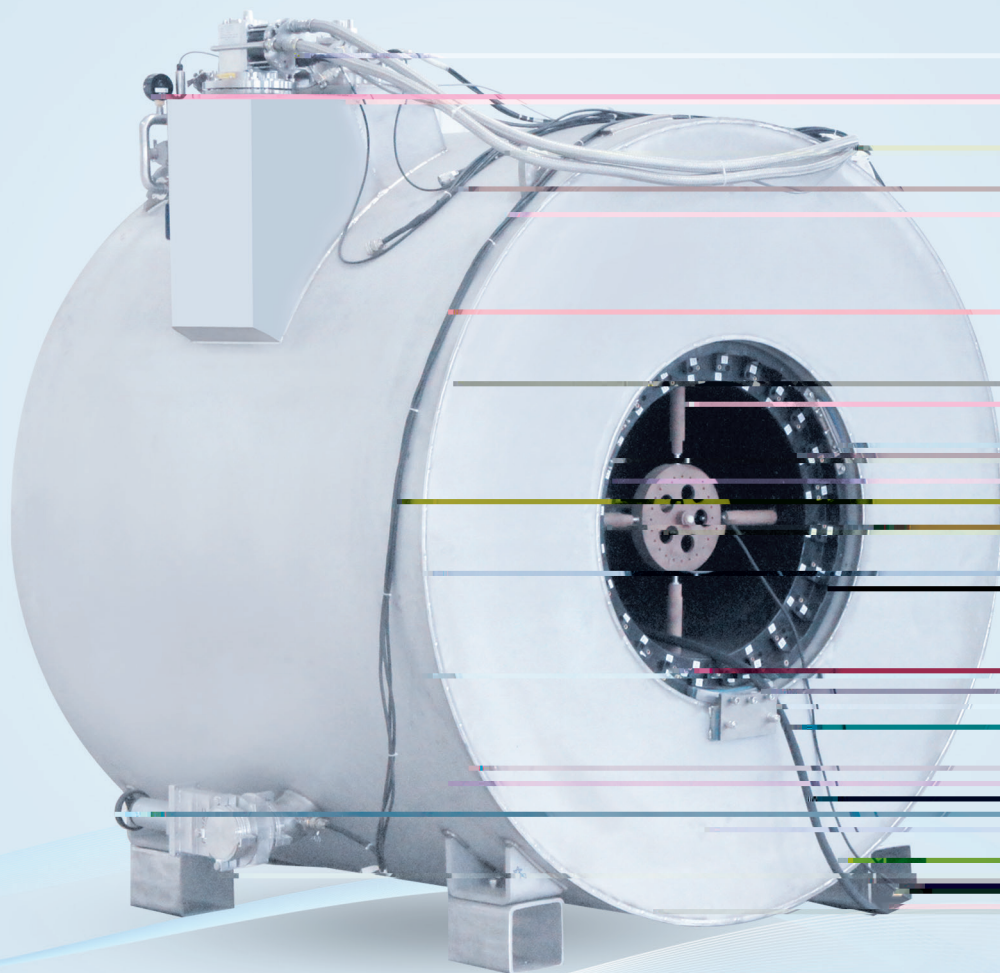




1.5T/850L超低温超导核磁共振谱仪(全超导)

■ 国家重点新产品计划 编号为 Z201113C60030
■ 国家十二五科技支撑计划 项目编号为 2011CB921300
■ 专利号: ZL200920352658.3 Z201020685550.9 ZL201120027048.3 ZL201120027046.4 ZL201110029019.5



- 1 液氮零挥发
- 2 中心场强 $1.5 \pm 0.015T$
- 3 45cm球 v_{rms} 值 $< 2.0ppm$
- 4 磁场稳定性 $< 0.5ppm/h$



1.5T

		1.5 ± 0.015T	
		850mm	
		1580mm	
		2200mm	
		1872mm	
		0	
		820L	
		0.05ppm/h	
	vrms	45cm	2ppm
5Gs		4m	2.5m
		4000kg	



1.5T

400ppm

45cm

0.05ppm/h

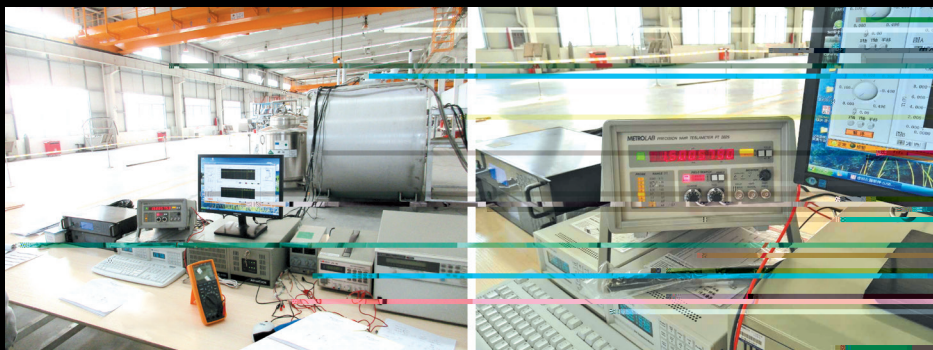
1.0W

4K

5Gs

2ppm vrms

0.9W



MRI



3.0T

	3.0T
	850mm
	2012mm
	1706mm
(DSV)	45X 40cm 45X 45cm
vms	< 2ppm ()
5Gs	R 3m Z 5m
	< 0.05ppm/h
	0
	1000L
	7000kg



3.0T

3.0T

1.5T

1.5T MRI

3.0T

45cm

2ppm vms

1.5T

4K

5Gs

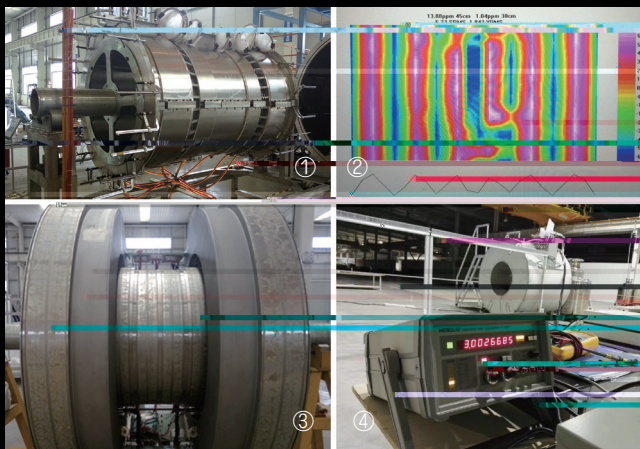
①

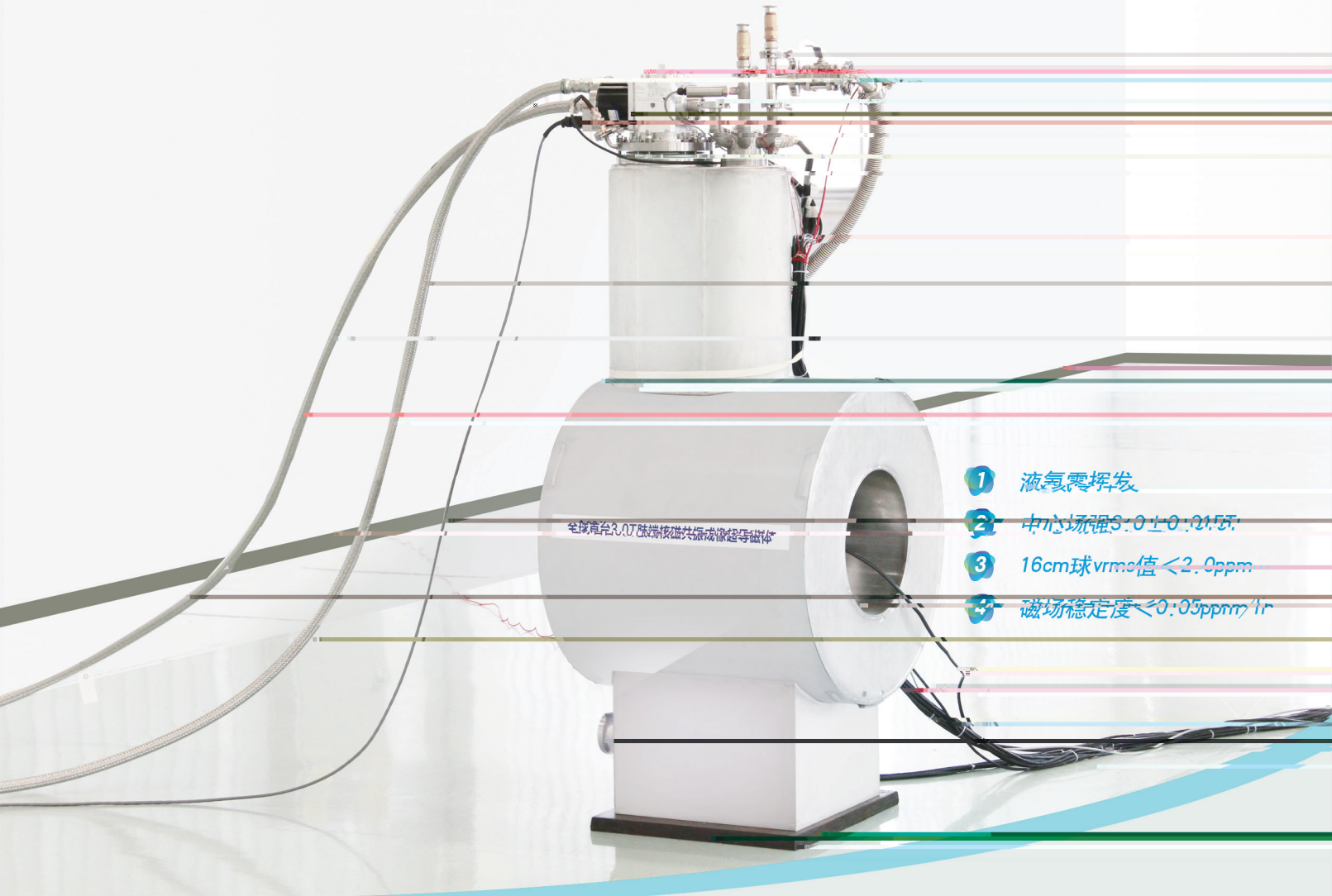
②

③

4K

④





- 1 液氦零挥发
- 2 中心场强 3.0 ± 0.01 T
- 3 16cm球vrms值 < 2.0 ppm
- 4 磁场稳定度 < 0.05 ppm/yr

3.0T

1.5T

3

3.0T



3.0T

	3.0T
	302mm
	672mm
	618mm
	180mm
(DSV)	160mmDSV
vms	< 2ppm ()
5Gs	R 2m Z 3m
	< 0.05ppm/h
	0
	110mT/m
	500T/m/s
	3
	3.0T



3.0T MRI

+ APP

