

干法脱硫低温脱硝一体化新技术

Dry desulfurization & Low-temperature DeNOx integrated new technology

北京三聚环保新材料股份有限公司

Beijing Sanju Environmental Protection & New Materials Co.,Ltd

北京宝聚能源科技有限公司

Beijing Baoju Science & Technology Co.,Ltd

于春林 2017年6月

Chunlin Yu June, 2017

大气污染物排放标准日趋严格

Effluent standards of atmospheric pollutants are increasing stringently

部分行业 SO₂ 和 NO_x 排放标准(mg/Nm³)

Effluent standards of SO₂ & NO_x to certain industries (mg/Nm³)

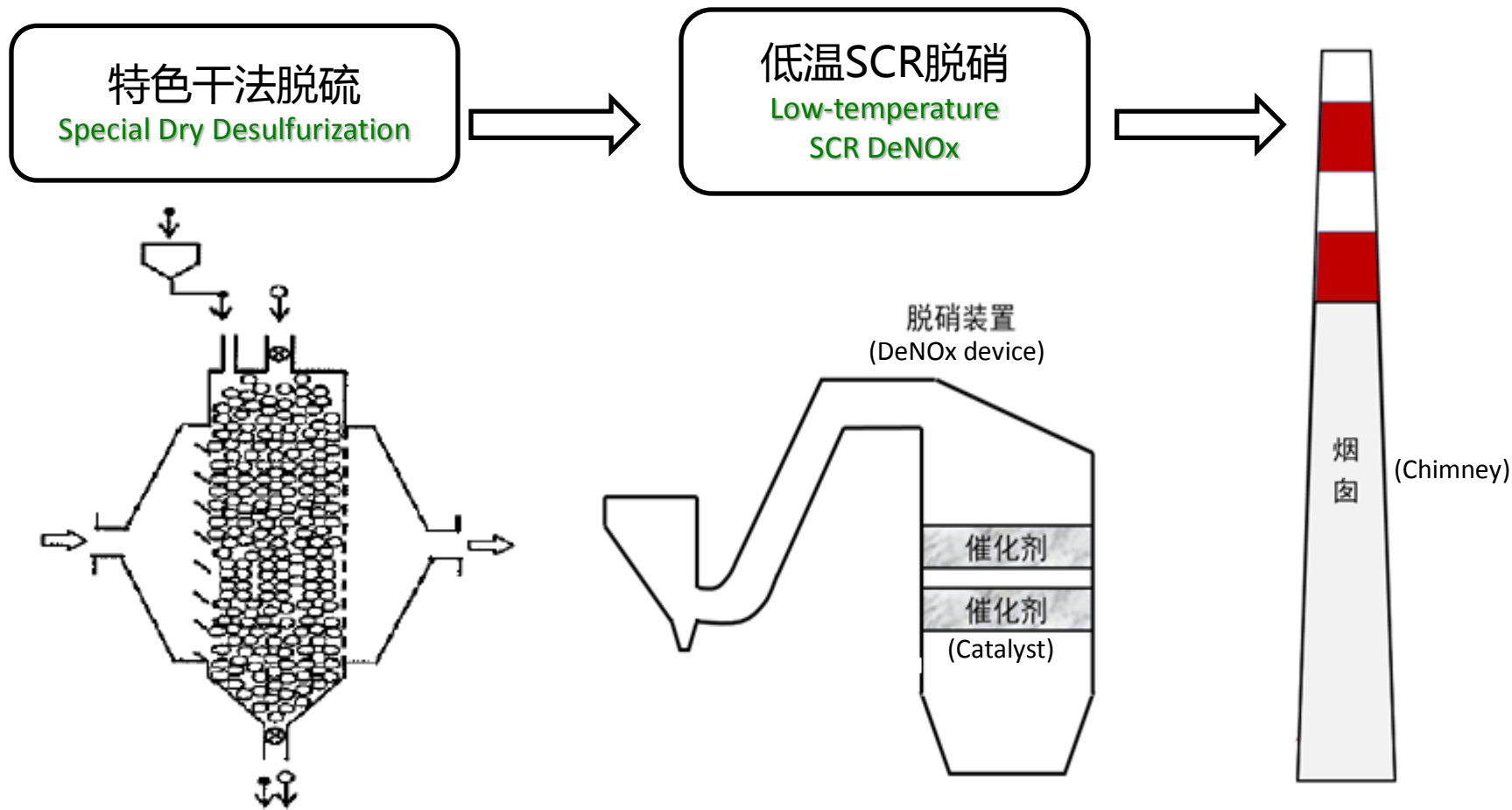
行业 Industry	项目 Item	石油炼制 Oil Refining		锅炉 Boiler	炼焦 工业 Coking industry	钢铁 烧结 Steel sintering	硝酸 工业 Nitric acid industry	水泥 工业 Cement industry	电子 玻璃 Electronic glass industry
		催化剂再生 Catalyst Regeneration	工艺加热炉 Process Furnace						
普通 地区 General area	NO _x	200	150/180	300	500	300	300	400	700
	SO ₂	100	100	300	50	200		200	400
特殊 地区 Special area	NO _x	100	100	200	150	300	200	320	700
	SO ₂	50	50	200	30	180		100	400

炼油工业数据来源：GB31579-2015 《石油炼制工业污染物排放标准》

Refining industry data source: GB31579-2015 《Effluent standards of oil refining industrial pollutants》

技术路线

Technical Route



特色干法脱硫+SCR低温脱硝-已广泛应用于焦化行业 (22)

Special dry desulfurization +Low-temperature SCR DeNOx technology - Widely used in coking industry

- **先脱硫后脱硝，降低SO₂对低温脱硝的影响**

Desulfurization before DeNOx, it's beneficial to reduce the effect caused by SO₂ to Low-temperature DeNOx

- **干法脱硫温降很小，有利于保证低温脱硝温**

The temperature reduction of desulfurization is small, and it's beneficial to keep the temperature required by Low-temperature DeNOx

- **采用移动床脱硫工艺和特制脱硫剂，压降低，脱硫效率高**

The advantages of using moving-bed desulfurization process: small reduction of temperature & high efficiency of desulfurization

- **移动床干法脱硫兼具除尘功能，不必另外设置除尘装置**

Moving-bed dry desulfurization process also has dust removal function, thus it saves the build-up process of dust removal device

- **采用日挥高效低温脱硝催化剂，脱硝催化剂填装量少**

By using JGC high-efficiency & low-temperature DeNOx catalyst, the fill-in amount of catalyst is small

- **排烟温度高于烟气露点温度，无白烟和拖尾现象**

The temperature of flue gas is higher than dew point temperature, which avoids the generation of white smoke and gas-tailing phenomenon

- **设备数量少，可灵活布置，最大限度减少占地和投资**

Small amount of equipments; flexible layout; low cost of occupied area and investment maximally

谢谢聆听

Thank you for your time



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