



SinterZone//星特烁

安全 | 环保 | 高效
Safety | Environmental protection | Efficient

SinterZone//星特烁

粉末冶金设备专业制造商

深圳市星特烁科技有限公司

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星特烁位于深圳市宝安区沙井街道茭塘工业区工业三路8号，公司成立于2012年，获得“深圳市高新技术企业”以及“国家高新技术企业”称号。公司始终坚持以人才为根本，以研发技术为导向，每年研发投入占公司收入10%以上，保持技术的创新，将公司打造成一个技术实力雄厚、核心竞争力强的催化脱脂炉、连续烧结炉专业制造厂商。

催化脱脂炉是公司的拳头产品，2013年至今，星特烁催化脱脂炉连续多年全国出货量第一，目前新客户市场占有率70%以上，是客户公认的最佳脱脂炉合作伙伴。公司近年推出的新型催化剂脱脂炉，适合于易腐蚀的新材料，如钛、铜等，能有效的防止产品被氧化、被腐蚀，同时实现环保绿色的尾气排放。

连续烧结炉自2014年开始研发至今，已经开发出了推板式连续烧结炉以及步进梁式连续烧结炉，该炉型进行的大量的技术改进与创新设计，使连续烧结的稳定性更高，效率更好，能耗更低。

SinterZone located in Bao'an District of Shenzhen City, the company was founded in 2012, access to "high-tech enterprises in Shenzhen City" and "national high-tech enterprises" title. The company always adhere to the talent as a fundamental to R & D technology-oriented, annual R & D investment accounted for more than 10% of the company's income, to maintain technological innovation, the company will create a strong technical strength, the core competitiveness of the catalytic debinding furnace, continuous sintering furnace Professional manufacturer.

Catalytic debinding furnace is the company's leading products, since 2013, the SinterZone catalytic debinding furnace for many years the Chinese first shipments, the current new customer market share of more than 70 percent, is recognized as the best deflator partners. In recent years, the company introduced a new type of catalyst debinding furnace, suitable for corrosion of new materials, such as titanium, copper, etc., can effectively prevent the product is oxidized, corrosion, while achieving green and green emissions.

Continuous sintering furnace has been developed since 2014, has developed a push plate continuous sintering furnace and walking beam continuous sintering furnace, the furnace for a large number of technical improvements and innovative design, continuous sintering of the higher stability, More efficient, lower energy consumption.

3D系列催化脱脂、烧结炉

3D-print series catalytic debinding and sintering furnaces



3D™ 系列脱脂·烧结炉产品参数

型号 Model	STZ- D200	型号 Model	STZ- EVF-200
设备外形尺寸 Dimensions	818*567*867 mm	设备外形尺寸 Dimensions	1450*2090*2700 mm
设备安装功率 Power	4KW	设备安装功率 Power	25KW
有效工作尺寸 Effective dimensions	235X235X285 mm	有效工作尺寸 Effective dimensions	200X200X200 mm
工作温度 Operating temperature	100-140℃	最高工作温度 Max temperature	1600℃
炉体内胆尺寸 Chamber dimensions	Φ274X295 mm	炉体内胆尺寸 Chamber dimensions	Φ700X550 mm
料盘尺寸 Tray size	230X260X10 mm	摆放高度 Loading height	200mm
摆放高度 Loading height	140mm	进料方式 Feeding mode	手动进料 plate inserting to furnace
酸消耗 Acid consumption	20-100g/h	真空泵组 Pumps	滑阀泵+罗茨泵 Slide valve vacuum pump+Roots vacuum pump
氮气消耗 Nitrogen consumption	500L/h	炉内气氛 Atmosphere	真空、氩气 Vacuum, Argon
设备总重 Total weight	80kg	保温与隔热	石墨碳毡+炉壁水冷 Graphite carbon felt+Water cooled furnace wall
进料方式 Feeding mode	插板进料 plate inserting to furnace	设备总重 Total weight	1.65T
燃烧方式 Combustion mode	电热燃烧 Electric heating combustion		

草酸催化脱脂炉·绿色脱脂

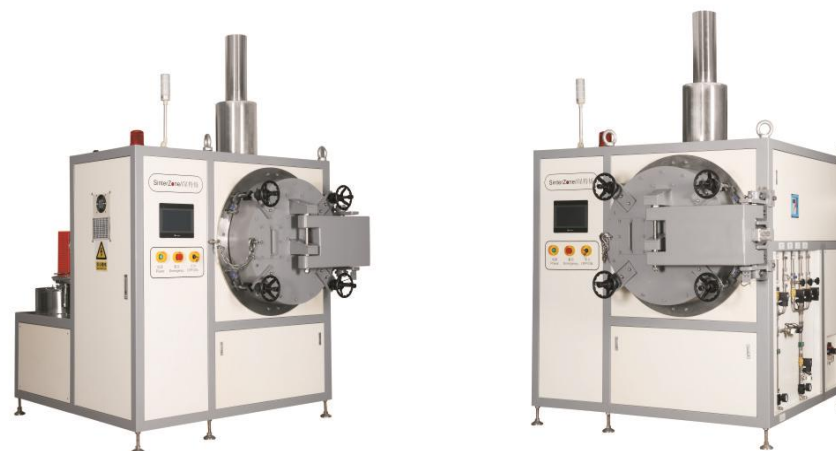
Catalytic degreasing furnace with oxalic acid

•对易氧化的常规活泼金属材料实现催化脱脂。

For the conventional active metal material catalytic debinding

•更安全，尾气可直接排放

More safety, Exhaust can be directly discharged.



绿风™ 系列脱脂炉·产品参数

型号 Model	STZ-400L-OA
外形尺寸 Dimensions	L2000×W1760×H2620 mm
设备安装功率 Power	22KW
有效工作尺寸 Effective dimensions	L1000×W425×H425 mm
工作温度 Operating temperature	100-140℃
炉体内胆尺寸 Internal furnace dimensions	Φ700×1250 mm
标准循环时间(进/出炉) (Standard cycle time (in / out))	4-6 h
草酸消耗 Oxalic acid consumption	150-300 g/h
进酸方式/Acid feeding type	连续可控进酸/Continuous controlled acid feeding
氮气消耗 Nitrogen consumption	3.5-6 m³/h
设备总重 Total weight	1550 kg
进料方式 Feeding mode	满车进料 Entirely shelf on conveyor car
燃烧方式 Combustion mode	电热燃烧 Electric heating combustion
废气产物 Waste gas component	二氧化碳和水(无污染)/Co2 and H2O (Non-pollution)

星特炼催化脱脂炉 · 绿色脱脂

SinterZone Catalytic Debinding furnace



绿风™ 系列脱脂炉·产品参数

型号 Model	STZ-300L-G
外形尺寸 Dimensions	L1760×W2100×H2880 mm
设备安装功率 Power	16KW
有效工作尺寸 Effective dimensions	L1000×W 425×H425 mm
工作温度 Operating temperature	100-140 °C
炉体内胆尺寸 Internal furnace dimensions	Φ660×1200 mm
标准循环时间（进/出炉）(Standard cycle time (in / out))	4-6 h
液化气消耗 LPG/LNG consumption	0.4-0.6m³/h
酸消耗 Acid consumption	150-300 g/h
氮气消耗 Nitrogen consumption	4 m³/h
设备总重 Total weight	1500 kg
进料方式 Feeding mode	满车进料 Entirely shelf on conveyor car
燃烧方式 Combustion mode	一级燃烧 one stage combustion

星特炼催化脱脂炉 · 绿色脱脂

SinterZone Catalytic Debinding furnace



绿风™ 系列脱脂炉·产品参数

型号 Model	STZ-300L-GU
外形尺寸 Dimensions	L1760×W2100×H2880 mm
设备安装功率 Power	16KW
有效工作尺寸 Effective dimensions	L1000×W425×H425 mm
工作温度 Operating temperature	100-140 °C
炉体内胆尺寸 Internal furnace dimensions	Φ660×1200 mm
标准循环时间（进/出炉）(Standard cycle time (in / out))	4-6 h
液化气消耗 LPG/LNG consumption	0.6-0.8m³/h
酸消耗 Acid consumption	150-300 g/h
氮气消耗 Nitrogen consumption	4 m³/h
设备总重 Total weight	1800 kg
进料方式 Feeding mode	满车进料 Entirely shelf on conveyor car

星特烁催化脱脂炉·绿色脱脂

SinterZone Catalytic Debinding furnace



绿风™ 系列脱脂炉·产品参数

型号 Model	STZ-600L-S
外形尺寸 Dimensions	L2350×W1420×H3000 mm
设备安装功率 Power	25KW
有效工作尺寸 Effective dimensions	L1260×W503×H530 mm
工作温度 Operating temperature	100-140 °C
炉体内胆尺寸 Internal furnace dimensions	Φ850×1500 mm
标准循环时间(进/出炉) (Standard cycle time (in / out))	4-6 h
液化气消耗 LPG/LNG consumption	0.6-0.8m³/h
酸消耗 Acid consumption	150-500 g/h
氮气消耗 Nitrogen consumption	6 m³/h
设备总重 Total weight	2200 kg
进料方式 Feeding mode	满车进料 Entirely shelf on conveyor car
燃烧方式 Combustion mode	第三代环保直排燃烧 The third generation of environmental direct combustion

MIM/CIM溶剂脱脂炉及溶剂脱脂循环系统

MIM/CIM Solvent degreasing furnace and solvent degreasing circulation system



产品参数

型号 Model	ST-1000
最高工作温度 Maximum operating temperature	60°C
正常工作温度 Normal operating temperature	50°C
外形尺寸 Dimensions	5900 × 3160 × 2700mm
料盘尺寸 Size	380 × 750 × 8mm(46件/套)
标准循环时间(进/出炉) Standard cycle time (in / out)	6-10h
配电需求 Power distribution requirements	三相五线制 380V, 50Hz three-phase five-wire system 380V, 50Hz
安装功率 Power	40KW

推板式氢气气氛连续高温烧结炉

Continuous high temperature sintering furnace for hydrogen atmosphere pusher



产品参数

型号 Model	STZ-PF2
炉膛尺寸Furnace size	300×240(W×H)mm
外型尺寸(约) Dimensions (about)	17600×2600×2200(L×W×H)mm
适用推板规格Applicable push plate size	280×280×35(mm)
推板装载高度Push plate loading height	120mm
推进方式Promote	单推板single channel single push plate
烧结炉最高温度Sintering furnace maximum temperature	1500°C
烧结炉常用工作温度 Sintering furnace commonly used Operating temperature	1350°C
烧结炉控温精度Sintering furnace temperature control accuracy	±0.1%
烧结炉膛截面均匀度Sintering Furnace Cross-section uniformity	±3°C
烧结炉内气氛Atmosphere in sintering furnace	氢气、氮气hydrogen and nitrogen
表面温升Surface temperature rise	≤50°C
配电需求Distribution demand	三相五线制 380V,50HzThree-phase five-wire system 380V,50Hz
安装功率Power	300kW

步进梁式氢气气氛连续高温烧结炉

Continuous high temperature sintering furnace for hydrogen atmosphere by walking beam



产品参数

型号 Model	STZ-WB-MIM6
钼舟尺寸(mm)Molybdenum tray Size (mm)	L330 × W330mm
最大总装量高度(mm)Max Height (mm)	90~120mm
烧结17-4PH时的循环量Cyclic amount of sintering 17-4PH	4-6 (舟/小时)4-6 (Tray/h)
推荐高温烧结时间Recommended high-temperature sintering time	1h+
料舟数量Number of boats	80个80pcs
占地要求(m²)Footprint Requirements (m²)	23×3
预热段加热区个数Heating area of preheating section	5×30kW
烧结段加热区个数Number of heating areas in sintering section	3×40kW
冷却段节数Number of cooling segments	5m+快速冷却+网带驱动与回转 5m+ Fast cooling + mesh drive and rotation
尾气燃烧装置Tail gas combustion Device	2套(同步运行) 2 sets (synchronous operation)
脱剩余粘结剂时的最高温度 Maximum temperature for removing residual binder	800°C
最高烧结温度Max sintering temperature	1500°C
工艺气体消耗(N ₂ ,H ₂ 或其混合气) Process gas consumption (N ₂ ,H ₂ or its mixture)	25 m³/h
出入口气密室氮气消耗量Access to tone-lock nitrogen consumption	3 m³/h
循环冷却水流量需求Circulating cooling water flow demand	3 m³/h
配电需求Distribution demand	三相五线制 380V,50Hz Three-phase five-wire system 380V,50Hz
安装功率Power	300kW