

# DRG Type Twin-Roller Compator

DRG系列对辊式干法挤压造粒机



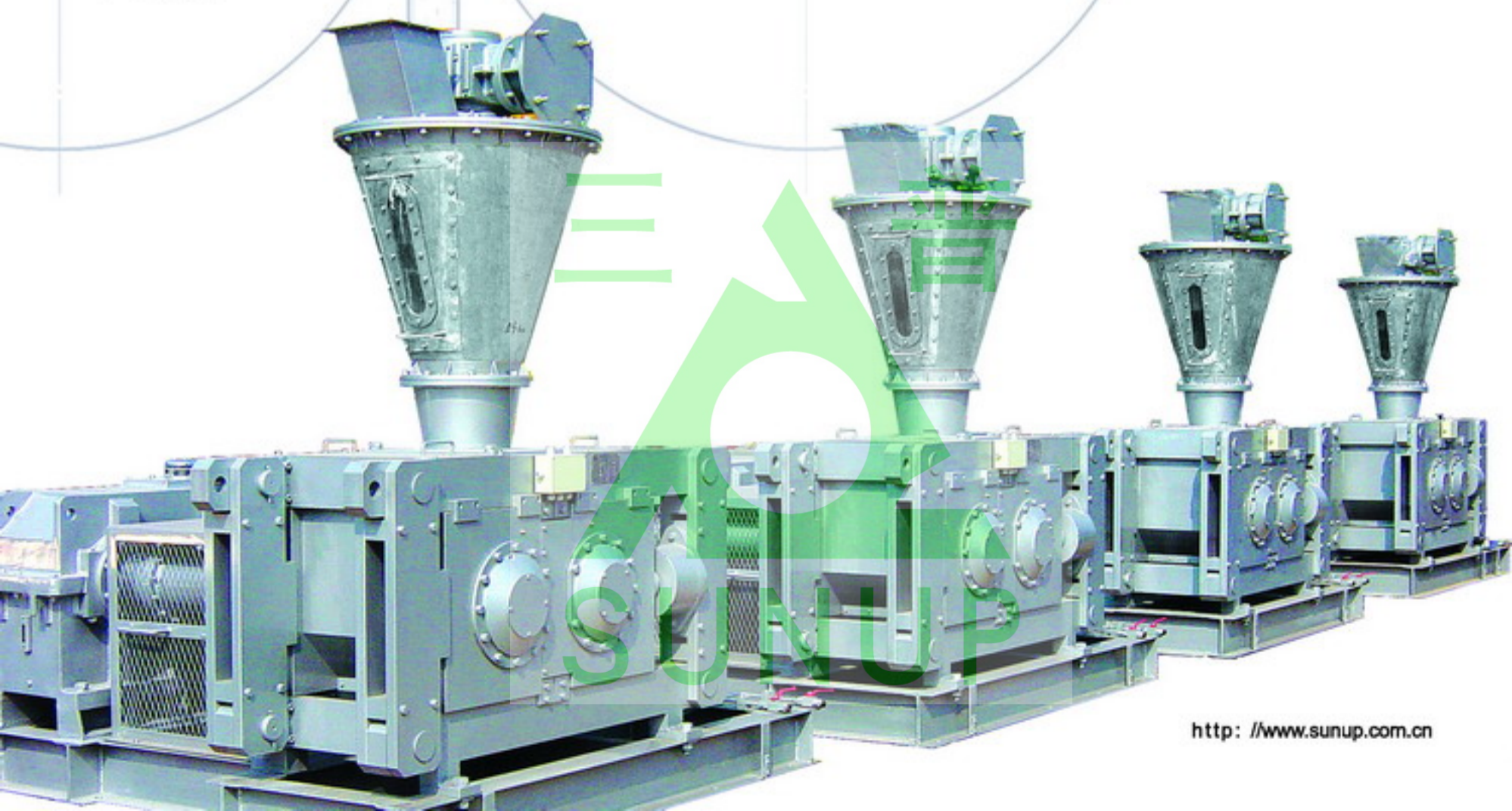
# 工作原理 Principle



Powder material feed into hopper of force feeder from top of equipment, after degas and screw push, force fed in to a closed chamber between two opposite rotating roller. Under the moment of force by roller and radial pressure by pressure station, the material is compressed, its solid atom is plastic yield and occlude each other and realign, become tight combined solid block. From powder material feed in, to compacting out hard solid block, the whole process is continuous and stable and controllable. The radial pressure can be adjusted by control of pressure station. Regular pillow shape granules are formed by groove on surface of roller. To produce irregular granules, compactor will compact material to flake first, then crashing, trimming, sieving and feeding back, to get required granules.

粉状物料从设备顶部加入强制喂料机料斗，经脱气、螺旋预压等过程并被螺旋强制送入由一对反向旋转的挤压辊所形成的相对密闭的楔形腔内。在驱动电机经双输出减速机所形成的回转力矩和液压油缸所产生的径向压力的共同作用下，强大的挤压力使密闭空间内的粉状物料压缩，固相微粒产生塑性变形、互相咬合、重新排列并致密结合成所需形状的固体物。从粉状物料的加入，到具有相当强度和所需形状的固体物料的挤出，整个过程连续、稳定和可控。挤压力的大小可根据需要由液压油缸的压力进行调节。

规则的锭剂产品，由挤压机对辊表面特殊设计的凹形直接挤压定型而成。而对小颗粒状产品，需先由对辊挤压成密实的特定片状，然后经破碎、整粒、球化(视需要)、筛分、返料等工序，最后得到符合需求的颗粒状成品。





# P 性能特点 Performance feature

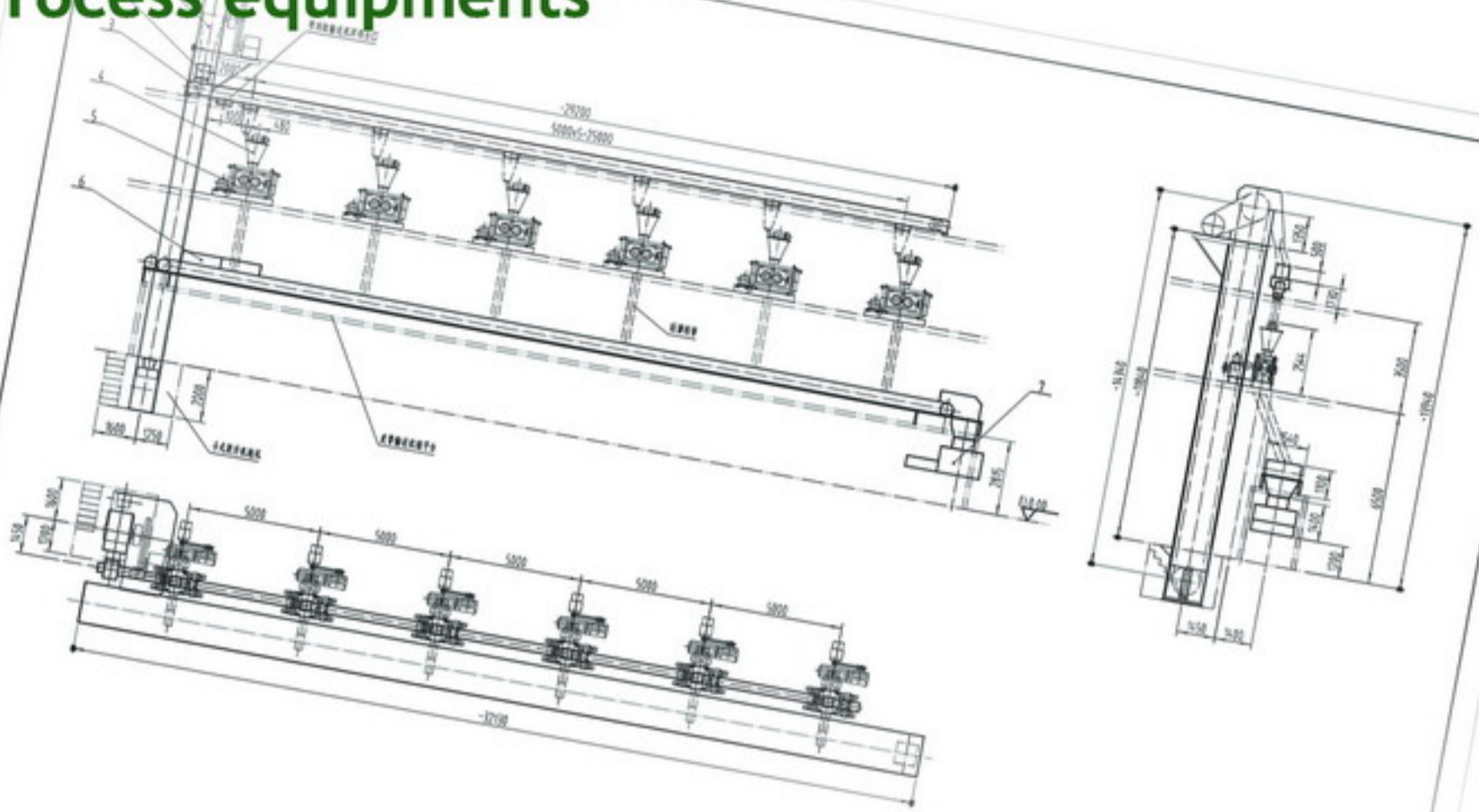
- Powder material become solid block by mechanical force compact, simple process, low energy consumption and high capacity.
- No drying process, easy connect with following process and easy upgrade
- High hardness granules, higher buck specific gravity than other granulation process. More fit for increase buck specific gravity, improve fluidity and reduce dust.
- More operation flexibility, wide adapt scope, pressure force can be adjusted by hydro-pressure station.

- 粉状物料经机械压力强制压缩成型，工艺流程简短，能耗低，产量大。
- 造粒后物料无需干燥，更有利于与原有生产流程的衔接和产品结构改造、升级。
- 颗粒强度高，堆积比重的提高较其它造粒方式都更为显著，尤其适合于以增加产品堆积比重、改善产品流动性能和减少粉尘飞扬为目的的场合。
- 操作弹性大，适应范围广，挤压力的大小可通过液压力调节。



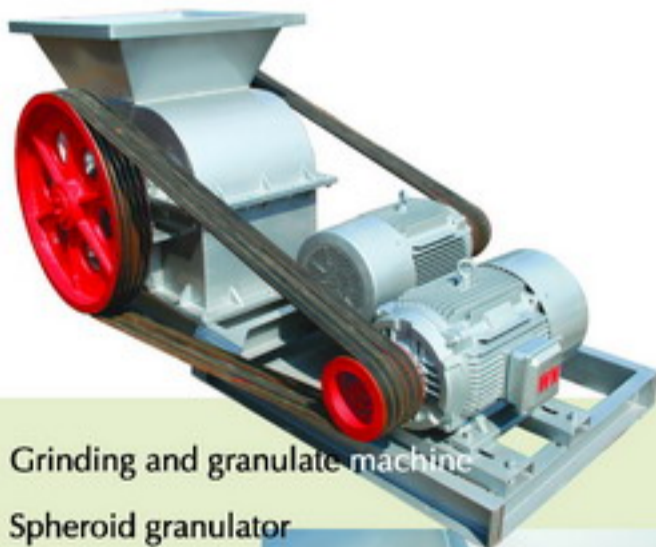


# P 工艺流程配置设备 Process equipments



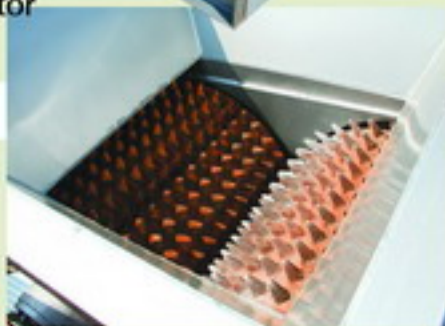
According property of material, required size and shape for granules, and required capacity and other changeable condition, it require abundant technical strength and experiences to choice a process. SUNUP will provide you not only products with high tech and good quality and best service, also provide a ideal process with logical equipments scheme.

物料性质、产品粒度和形状的要求、以及产能等要素的复杂多变，造粒工艺路线的确定及其流程设备的配置，涉及众多技术领域，需要雄厚的技术实力和经验支撑。三普不仅为您提供技术领先、质量上乘、服务一流的产品，还将为您提供最优化的造粒工艺，选择配置最合理的流程设备……



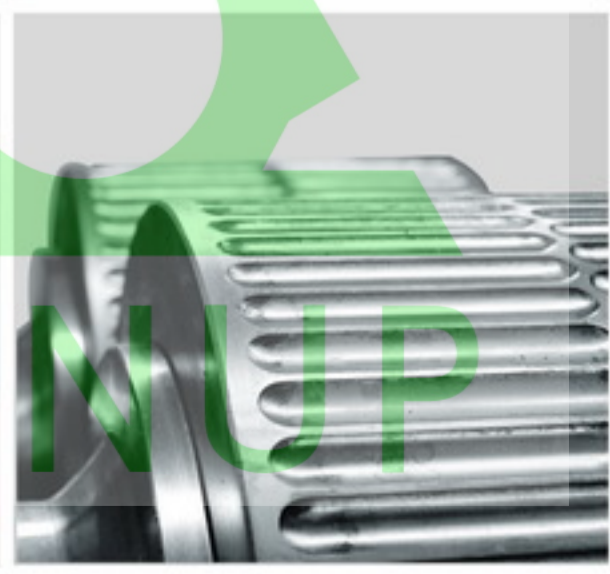
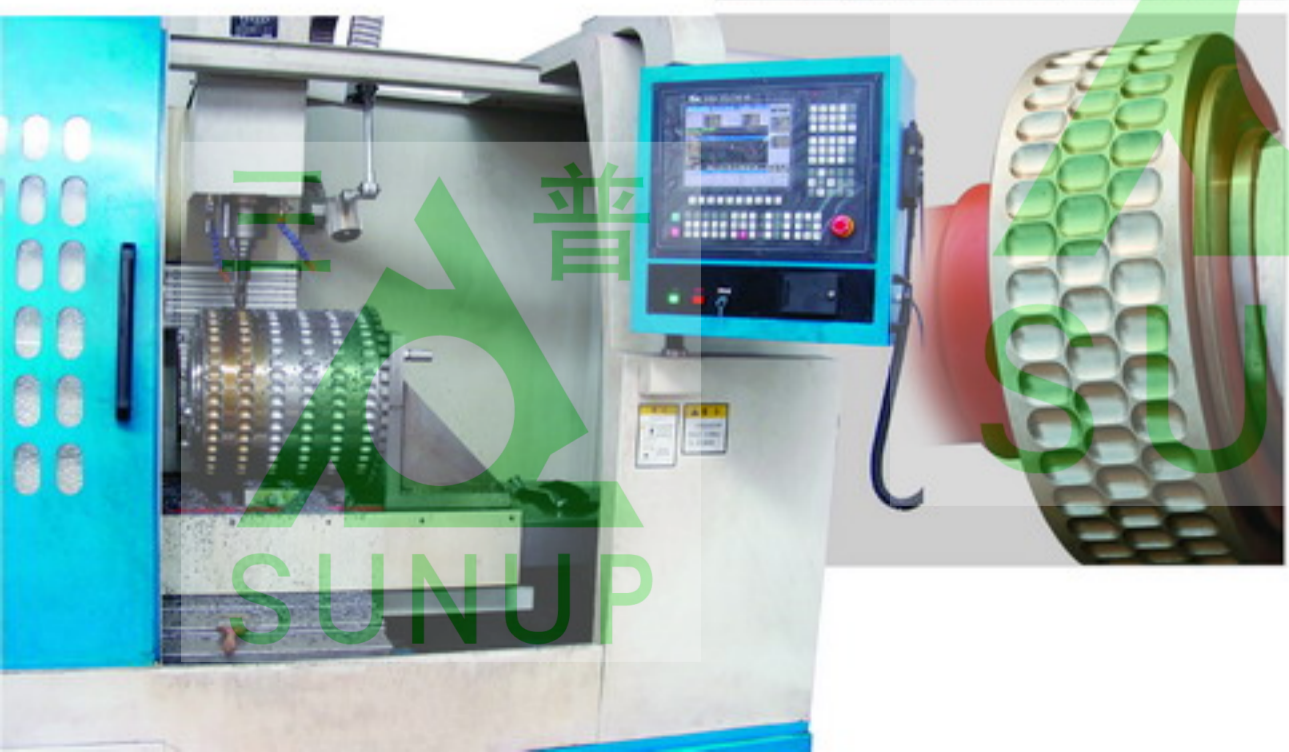
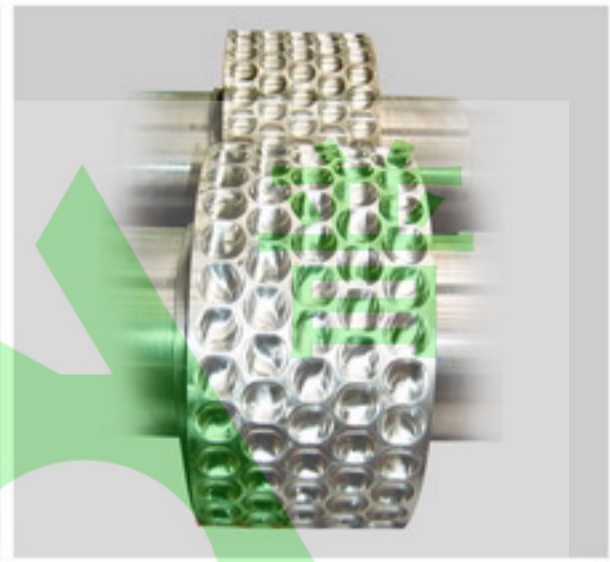
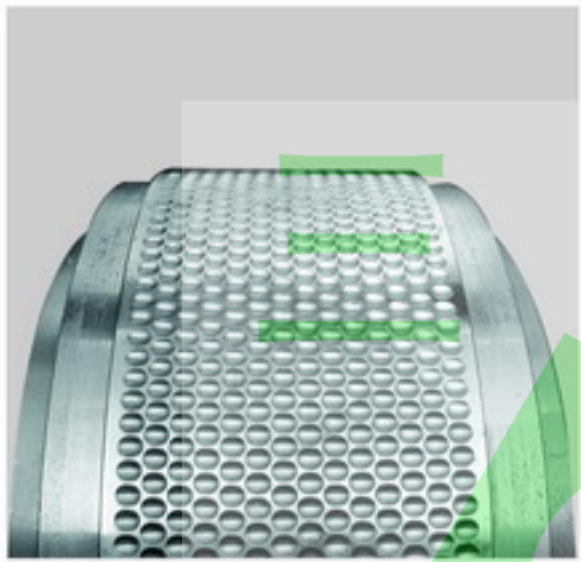
- Grinding and granulate machine
- Spheroid granulator
- sieve

- 破碎整粒机
- 球形整粒机
- 筛分机





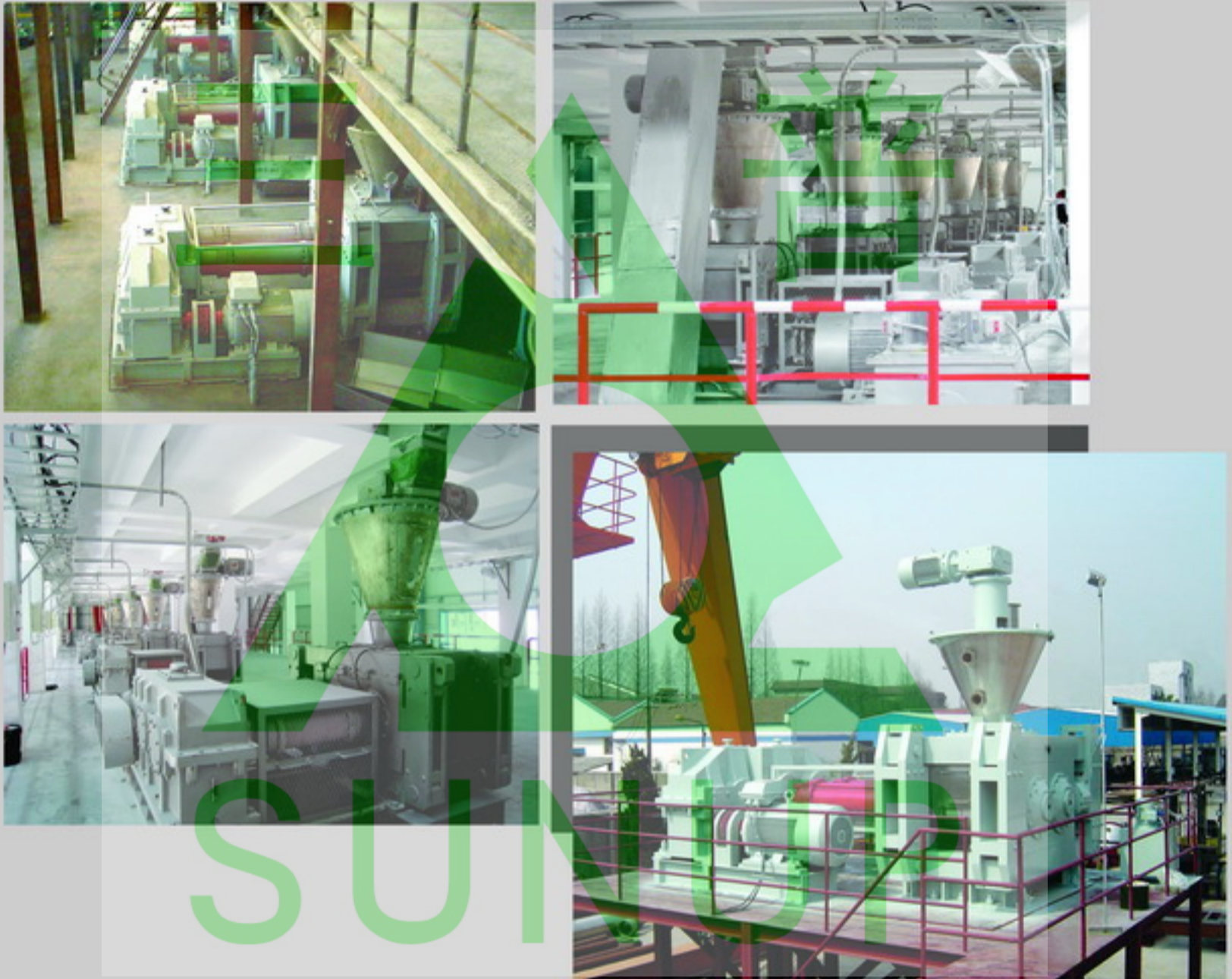
# M 制造 Manufacture



普  
SUNUP



# O 我们的特色 ur characteristic



●Nanjing SUNUP has long time of technical accumulation and rich develop capability, can provide granulation machine which will same with international products, and can provide optimized process and completed control system.

●Owning many CNC machining centers, and abundant fabrication capability, to insure good quality and high tech for every product.

●Compacting and granulation unit with stable level control force feeder (patent technic)

●No silo auto feeding system for multi-unit parallel connection process

●三普雄厚的技术研发实力和长期的技术积累，一方面可以保证为行业提供国内一流并可与国外技术媲美的造粒机产品，同时还可以提供最优化的造粒工艺和完整的系统控制技术。

●拥有多台CNC加工中心，雄厚的加工制造实力，确保每一部件的技术含量和品质上乘。

●具有自动恒定强制喂料机料位功能的对辊式挤压造粒装置（专利技术）。

●用于多机组并联操作过程的无料仓自动供配料系统（专利技术）。



# A 应用领域与典型物料 Apply scope

Chemical: pigment, scouring agent, accelerating agent, strontium carbonate, white carbon black, phosphate, sodium cyanide, heavy soda, ZnO, lead oxide, calcium chloride, calcium hypochlorite, bromide, pesticide, feed ingredient, antiocugen, devulcanization gypsum, ardealite, activated carbon, and so on.

化工：颜料、洗涤剂、催化剂、碳酸锶、白炭黑、磷酸盐类、氰化钠、重质纯碱、氯代异氰尿酸类、氧化锌、氧化铅、氯化钙、漂粉精、溴化物类、农药、饲料添加剂、抗氧剂、脱硫石膏、磷石膏、活性炭等。

Fertilizer: potassium chloride, potassium sulfate, double manure, ammonium chloride, NPK, organic compound, and so on.

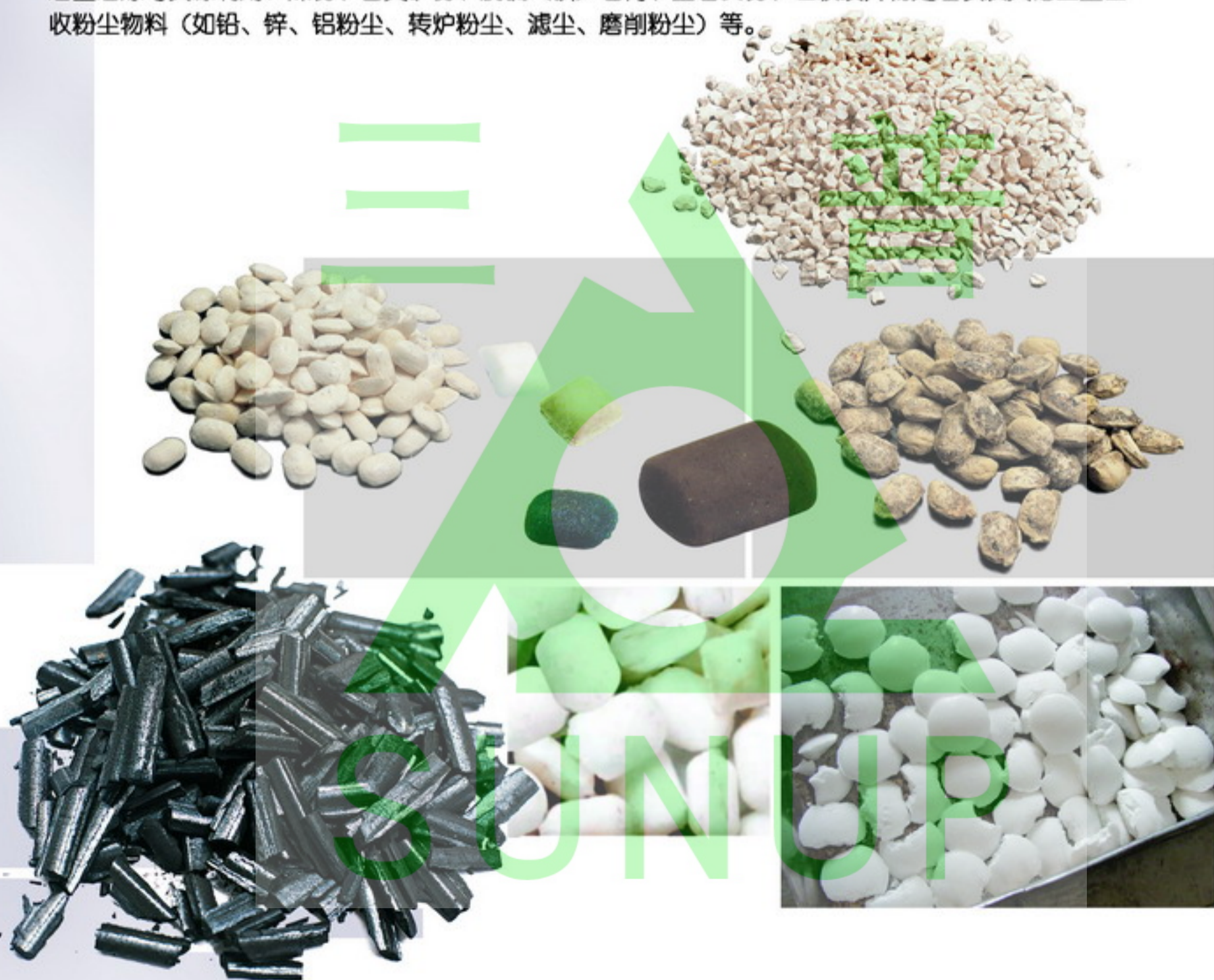
肥料：氯化钾、硫酸钾、硫酸钾镁、氯化铵、氮磷钾复合（混）肥、有机复合（混）肥等。

Pharmacy: filling grain for capsule, aureomycin, vitamine, and so on.

制药：胶囊填充颗粒、金霉素、维生素等。

Metallurgy and resource using: coal powder, kinds of mine powder, desulfurize gypsum, lime powder, garbage and castoff, other industrial callback powder (such as Pb powder, Zn powder, Al powder, furnace powder, sieve dust and milling sudt), and so on.

冶金冶炼与资源利用：煤粉、各类矿粉、脱硫（磷）石膏、生石灰粉、垃圾废弃物处理以及其他工业回收粉尘物料（如铅、锌、铝粉尘、转炉粉尘、滤尘、磨削粉尘）等。





# T 规格系列与特性参数 Type and specification

	DRG240	DRG360	DRG460	DRG520	DRG600	DRG800	DRG1000
Roller dia. ( mm ) 压辊直径	240	360	460	520	600	800	1000
Center dist. (mm) 压辊中心距	240	360	460	520	600	800	1000
Power (kW) 主传动功率	7.5-37	22-75	37-110	45-132	55-200	90-315	110-400
Radial force ( kN ) 总径向力	320-750	700-1380	950-1900	1100-2800	1500-2900	2500-4500	3700-6200
Max Capacity ( m <sup>3</sup> /h ) 最大产量	1.2	4.3	16	21	32	56	82

\* Because material's property is different, the max capacity is just a reference for choice machine, not actually capacity.

\* 因不同物料产量出入较大，这里以压片成型的最大体积量为参照，供选型时参考。

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