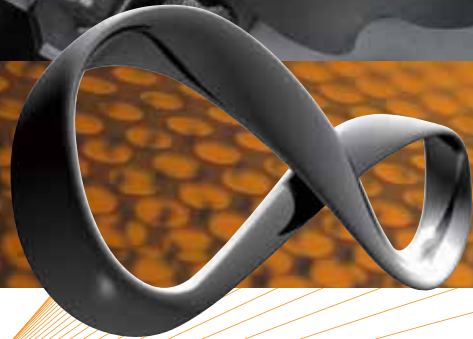


For the Best Friction Material Machines

BeyonTech



www.beyontech.co.kr



You Want? We Make!

BeyonTech - Whenever, Wherever We Create the Future

For the Best Friction Material Machine

BeyonTech 公司是制造能够大规模机械化生产摩擦片设备的公司。我们自行设计并且向他人借鉴整个汽车刹车片工业的设备。根据我们的经验，用我们高品质自动化设备满足您的质量指标我们制造最好品质的设备。

BeyonTech 公司的产品是令人满意的，可以和世界上任何先进产品竞争。我们不但持续地提高我们的技术和发展，而且一直对身为最高级别的制造者感到骄傲。*BeyonTech* 公司承诺从产品到后续服务等一系列令人满意的服务。我们也准备好快速而准确地回应您的需要。

BeyonTech Co., Ltd. is equipment manufacturer for the friction material industry. We design and consult whole equipments for friction products industry. From our experience, we can meet your quality target up to O.E with our fully automatic equipment.

We create the best quality. Products of *BeyonTech Co., Ltd.* are adequate to compete wite any world leading. We put not only our technology and development on road but also pride as a uppermost maker. *BeyonTech Co., Ltd.* promises satisfactory sevices ranging from production to follow-up service. We are also ready to respond to your need immediately and accurately.

Vacuum Mixer

真空混料机



规格

- > 总容量：600 ~ 2,000升(原料)
- > 工作最大容量：400 ~ 1,200升
- > 制造材料：不锈钢
- > 主刀片电机：调速电机2 ~ 4台
- > 接口：触摸板
- > 采用形式：真空设备, 热水隔热设备
- > 温度控制设备

特点

- > 可编程制定相应的混料操作
- > PLC中可以保存12种混料操作
- > 简易操作
- > 监控屏幕上检查作业程序

Specification

- > Total Volume : 600 ~ 2,000Ltr
- > Working Volume : 400 ~ 1,200Ltr
- > Material : Stainless Steel
- > Main Blade Motor : Variable speed
- > Refiner : 2 ~ 4set , Variable speed
- > Interface : Touch Panel
- > Option : Vacuum System, Water Jacket System,
- > Temperature Control Device & In Chamber : Heating Device & Chiller

Feature

- > Programmable mixing operation corresponding formulation.
- > 12 mixing operations can be saved in PLC.
- > Easy operation
- > Monitoring screen to check operation procedure.



Dual Hot Forming Press

双工位自动称料热压机



规格

- > 设备构成：2压机, 1自动称重系统

压机

- 主油缸最大容量：150吨 X 2工位
- 分路油缸最大容量：37.5吨 X 4模腔 X 2工位
- 加热最大容量：20KW X 2工位
- 主模具：4模具/单位
- 模具：4模腔 X 2工位

称重系统

- 自动称重系统：2工位(共用)
- 称重范围：10-500g
- 称重速度：10-20秒/杯
- 称重精度：±2g

特点

- > 4个独立的液压缸保证OEM质量要求
- > 自动称重系统的高精度
- > 比例控制 液压控制
- > 通过触摸板进行轻松操作

Specification

- > Constituent Equipment : 2 Press, 1 Weighing System

Press

- Main Power Capacity : 150 Ton x 2 Units
- Individual Cylinder Capacity : 37.5 Ton x 4sets x 2 Units
- Heater Capacity : 20KW x 2sets
- Master Mold : 4 Molds / Unit
- Mold Cavities : 4 Cavities x 2 Units

Weighing System

- Auto-Weighing System : 2 Unit for 2 Kinds Material
- Weighing Range : 10-500g
- Weighing Speed : 10-20 Sec/Cup
- Weighing Accuracy : ± 2g
- Option : Friction Material Auto Filling System.

Feature

- > 4 individual hydraulic cylinders provide OEM Quality.
- > High accuracy of the auto weighing system
- > Proportional control hydraulic control
- > Easy operation with Touch panel

400TON Hot Forming Press

400吨热成型压机



规格

- > 组成: 1台主压机, 1台预压机, 自动移送模具装置
- > 主压机
主油缸压力容量 : 400吨 (Pump: 30kw, 210kg/cm²)
加热器容量 : 36kw
速度 : 120mm/sec
加速度 : 15mm/sec
- > 预压机
主油缸压力容量 : 25吨
- > 自动移送装置
将预压模具自动移送到主压区

特点

- > 具有当压力和温度错误时报警的装置
- > 可以将设定值储存在PLC里(压力, 时间)
- > 准确的压力和温度控制
- > 自动移送装置可以降低工作量

Specification

- > Composition : 1 Main press, 1 Pre-press, Auto-transfer device for mold
- > Main Press
Main Power Capacity : 400 Ton (Pump : 30kw, 210kg/cm²)
Heater Capacity : 36kw
Slide Speed : 120mm/sec
Pressing Speed : 15mm/sec
- > Pre-Press
Main Power Capacity : 25 Ton
- > Auto Transfer device
Automatically transferring the pre-press tooling to main press zone

Feature

- > Error proofing system for pressure and temperature
- > Forming parameter save on PLC (Pressure, Time)
- > Accurate pressure control and temperature
- > Auto transfer device reducing workload by automatic system

200TON Cold Forming Press

200吨冷成型压机



规格

- > 组成: 1台主压机, 1台预压机, 自动移送模具装置
- > 主压机
主油缸压力容量 : 200吨 (Pump: 22kw, 210kg/cm²)
速度 : 200mm/sec
加速度 : 15mm/sec
- > 主模系统
梭型的主模具

特点

- > 可以将设定值储存在PLC里(压力, 时间)
- > 准确的压力控制
- > 具有当压力错误时报警的装置

Specification

- > Composition : 1 Main press, 1 Master mold shuttle system
- > Main Press
Main Power Capacity : 200 Ton (Pump : 22kw, 210kg/cm²)
Slide Speed : 200mm/sec
Pressing Speed : 15mm/sec
- > Master Mold System
Shuttle type for master mold

Feature

- > Forming parameter save on PLC (Pressure, Time)
- > Accurate pressure control
- > Error proofing system for pressure

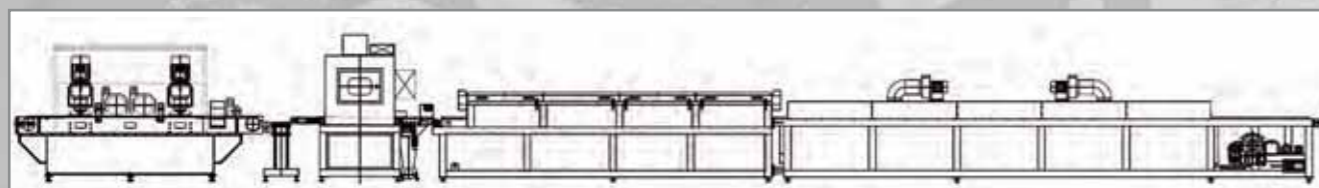
Finishing Line

盘式片生产线



自动生产线是大规模制造盘式刹车片的最终过程。这个系统是由全自动磨床(平磨和开槽, 倒角和精磨)喷涂室, 固化炉和冷却部分组成一个完整的自动系统。这个系统只需要一个操作员就可操作。你可以节省人力和成本。它能生产你想要的标准并且完美的盘式刹车片。使你的产品完全能够达到OEM的质量。

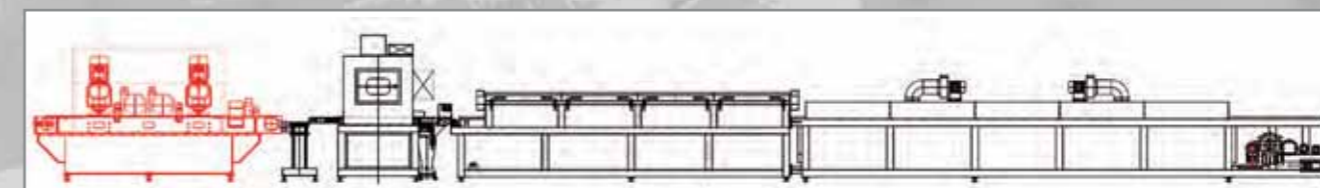
Auto Finishing Line is the final process of manufacturing of Disk Brake Pad. This System is consisted of Muplele Grinder(Chamfering and Grooving, Rough And Fine Grinding), Paint Booth, Paint Dry Oven as one Automatic system. This system can be operated by only one worker. You may save manpower and cost. It can produce standard and perfect Disk Brake Pad as you want. You may get your goal to meet OEM quality.



Multiple Grinder

直线磨床

性能: 倒角和开槽, 粗磨和精磨
Requirment: Chamfering & Grooving, Rough & Fine Surface Grinding



规格

> 类型: 链条传动, 连续操作

特点

- > 生产能力: 1,400片/小时
- > 适合售后产品加工
- > 最低维修要求
- > 适宜多类型刹车片

Specification

> Type: Endless Chain

Feature

- > Productivity: 1400 pcs / hr
- > No pad-specific tooling
- > Minimum Maintenance Requirements
- > Any Protrusion of Pad Available
- > Radial Chamfer(Optional)

Powder Paint Line

粉末喷涂线

Paint Booth 喷涂室

规格

- > 生产能力：
平均 1,400片/小时
- > 皮带清洁系统
- > 产品清洁系统
- > 粉末回收系统

Specification

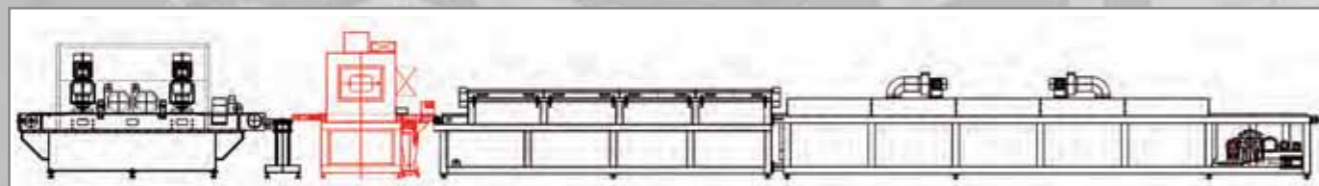
- > Productivity Average : 1,400 Pcs/Hr
- > Belt Cleaning System
- > Product Cleaning System
- > Powder Recycling System.

特点

- > 有良好的隐藏部分喷涂效果
- > 优秀的粉末回收系统
- > 良好的粉末回收保证清洁的工作环境

Feature

- > Coated well on the hidden area of pad
- > Good recycling system for paint powder
- > Clean working environment with good collecting powder paint.



Paint Dry Oven 固化热箱

规格

- > 生产能力：平均 1,400片/小时
- > 可调速
- > 平均温度：最高250°C
- > 长度：3.6m
- > 固化时间：4 ~ 7分

特点

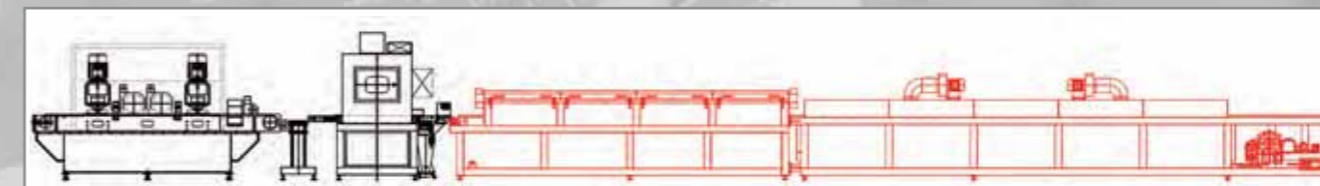
- > 烘箱温度的数字记录设备
- > 温度的PID控制
- > 红外加热器保证高效率的温度

Specification

- > Productivity Average : 1,400 Pcs/Hr
- > Variable Speed of conveyer
- > Temperature Average : Max 250°C
- > Length : 3.6m
- > Curing Time : 4 ~ 7 min.

Feature

- > Digital Recording Device for oven temperature
- > PID Control of temperature
- > High efficiency of temperature with infrared heater



Scorch Machine

烧蚀机



规格

- > 生产能力：平均 1,000片/小时
- > 最高650°C
- > 温度控制区：5区

特点

- > 烘箱温度的数字记录设备
- > 温度的PID控制
- > 温度均匀分布在热板上

Specification

- > Productivity Average : 1,000 Pcs/Hr
- > Max. Temperature 650°C
- > Temperature Control Section : 5 Sections

Feature

- > Digital Recording Device for oven temperature
- > PID Control of temperature
- > Even temperature on heat plate

Auto Rivet & Marking Machine

自动铆钉包装机



规格

- > 操作(铆钉, 喷墨, 工作台)：伺服电机
- > 生产能力：平均500片/小时
- > 工作表号码和尺寸：400mm X 400mm, 4工位
- > 铆钉
- > 喷墨打印机
- > 条码扫描机
- > 铆钉和标记位置的日期纪录
- > 用触摸板可以轻松的设置标记位置

Specification

- > Operation (Rivet, Inkjet, Table) Servo Motor
- > Productivity Average : 500Pcs/Hr
- > No.of work Table & Size : 4 sets
- > Rivet
- > Ink Jet Printer
- > Barcode Scanner
- > Date Base for Riveting, Making Position
- > Easy to setting of Making Position with Touch Panel



Continual Heat Treatment Oven

盒装式热处理箱

Type A : Spiral Belt Type



Type B : Straight Belt Type



规格

- > 生产能力：平均 1,000/小时
- > 连续输送式
- > 固化時間：1 ~ 4 時間
- > 温度：最高温度 250°C
- > 类型：连续盒装传送带

特点

- > 烘箱温度的数字记录设备
- > 温度的PID控制
- > 温度均匀分布在烘箱里

Specification

- > Productivity Average : 1,000 Parts/Hr
- > Continuous conveyor Type
- > Curing Time: 1 ~ 4 hours
- > Temperature : Max 250°C
- > Type : Continual Conveyor

Feature

- > Digital Recording Device for oven temperature
- > PID Control of temperature
- > Even temperature in the oven

Shim Bonding Machine

垫片粘接机



规格

- > 组成:18个液压缸, 1个移动式工作台
- > 主压机
主油缸压力容量：每个油缸5吨 (Pump:11kw, 100kg/cm²)
液压缸数量：18个
加热器容量：1.2kw X 18
- > 移动式工作台
装载数量：18件

Specification

- > Composition : 18 Hydraulic cylinder, 1 Transfer table
- > Main Press
Main Power Capacity : 5Ton on each cylinder (Pump : 11kw, 100kg/cm²)
Hydraulic Cylinder Q'ty : 18 ea
Heater Capacity : 1.2kw X 18 position
- > Transfer Table
Loading Q'ty : 18 ea

Roller Coating Machine

涂胶机



规格

- > 组成: 输送带, 涂胶机, 自动供给装置
- 输送带: Urethane belt
- 涂胶机: $\Phi 50 \times 300L$
- 自动供给装置: 可存放200片钢背

特点

- > 涂胶厚度可调整
- > 涂胶高度可上下调整
- > 可自动供应溶液
- > 胶辊可拆卸, 清洗方便
- > 胶辊速度可调节
- > 选项: 自动供给装置

Specification

- > **Composition:** Feeding conveyor, Roller Coating Unit, Auto magazine (option)
- Feeding conveyer: Urethane belt
- Roller Coating unit: $\Phi 50 \times 300L$
- Magazine unit: Stock work Q'ty 200 pcs

Feature

- > Coating Thickness is adjustable
- > Roller coating unit height is adjustable with fine gauge
- > Adhesive liquid is supplied automatically
- > Easy change and clean of roller
- > Adjustable speed of roller coating speed
- > Option: Auto magazine unit

Multi Weighing System

多功能自动称重配料系统



规格

- > 设备尺寸(大约): 14米(长) X 3.4米(宽) X 8.5米(高)
- > 储存容器数量: 20个
- > 储存容器材质: 不锈钢
- > 操作界面: 触摸板
- > 称重精度: 每个容器最多 ± 30 克

特点

- > 可为各种配方编程称重配料程序
- > 配备高精度的称重系统
- > 通过触摸板轻松设置所有参数
- > 电脑监控系统
- > 无尘
- > 完全自动化的称重配料系统和混料机

Specification

- > **Machine Dimension (Approx.):** 14m (L) x 3.4m (W) x 8.5m (H)
- > **Reservoir Tank Quantity:** 20 tanks
- > **Reservoir Tank Material:** Stainless Steel
- > **Operation Interface:** Touch panel
- > **Weighing System Accuracy:** $\pm 30g$ Max. each tank

Feature

- > Programmable weighing system for various formulation
- > Weighing formulation can be saved
- > Easy to set all parameter with touch panel
- > Monitory system with computer
- > Dust free
- > Fully automatic weighing system with mixer

Back Plate Adhesive Line

清洗、喷砂、涂胶线



生产过程

- > 手动加片 → 清洗(脱脂) → 干燥 → 抛丸
→ 涂胶 → 干燥 → 出片
- > 生产能力 : 2,500片/小时
- 1~2个操作员控制所有设备
- 每个过程的无延迟高生产能力数字记录水, 烘箱温度
- 通过触摸板进行轻松操作

Process of Production

- > Manual Loading → Degrease → Dry → Shot Blast → Adhesive
→ Dry → Unloading
- > Productivity Average : 2,500 pcs / hr
- 1~2 operator control all machines.
- High productivity with no delay time of each process.
- Digital record of water, oven temperature
- Easy operation with Local panel



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