



HAMCO MAKING HANDLING EASIER

鸿安, 让搬运变得简单



RAIL GUIDED VEHICLE (RGV)

穿梭车搬运系统

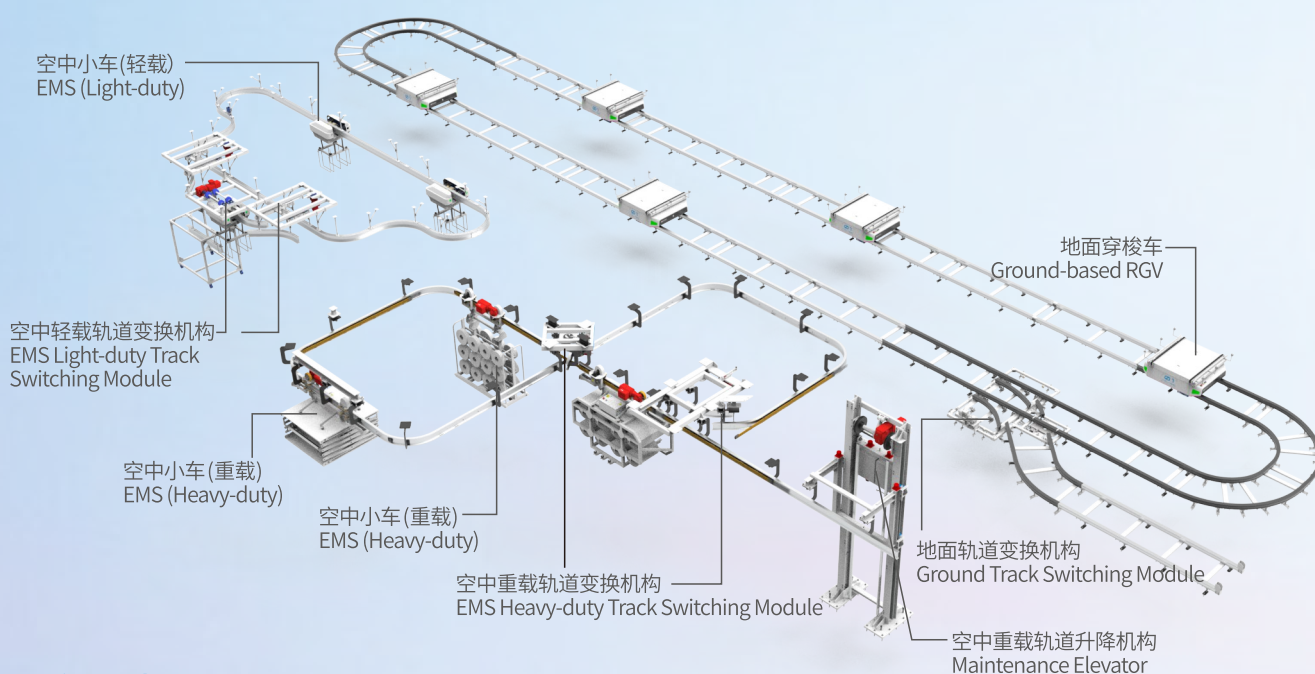
苏州鸿安机械股份有限公司
SUZHOU HAMCO MACHINERY CO.,LTD.

产品介绍 PRODUCT INTRODUCTION

RGV输送系统是一种在固定轨道上进行快速移动的台车，可对接输送机、伸缩货叉等模块单元，通过智能调度系统的灵活调度分配，多车高效协同，准确将物料配送到设定站台。通常，RGV被用作AS/RS的外围分拣设备。

The RGV conveying system comprises rapidly moving vehicles that operate on a fixed rail, interfacing seamlessly with various modular units, such as conveyors and telescopic forks. Through an intelligent dispatching system, multiple RGVs collaborate efficiently to accurately transport loads to the designated stations along the rail. In many cases, the RGV system serves as peripheral equipment for AS/RS.

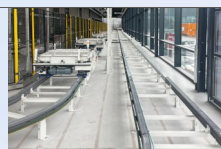
产品应用 PRODUCT APPLICATIONS



产品分类/ Classification of RGV



直线穿梭车 Straight RGV



环形穿梭车 Loop RGV

输送部样式/ Transfer Equipment



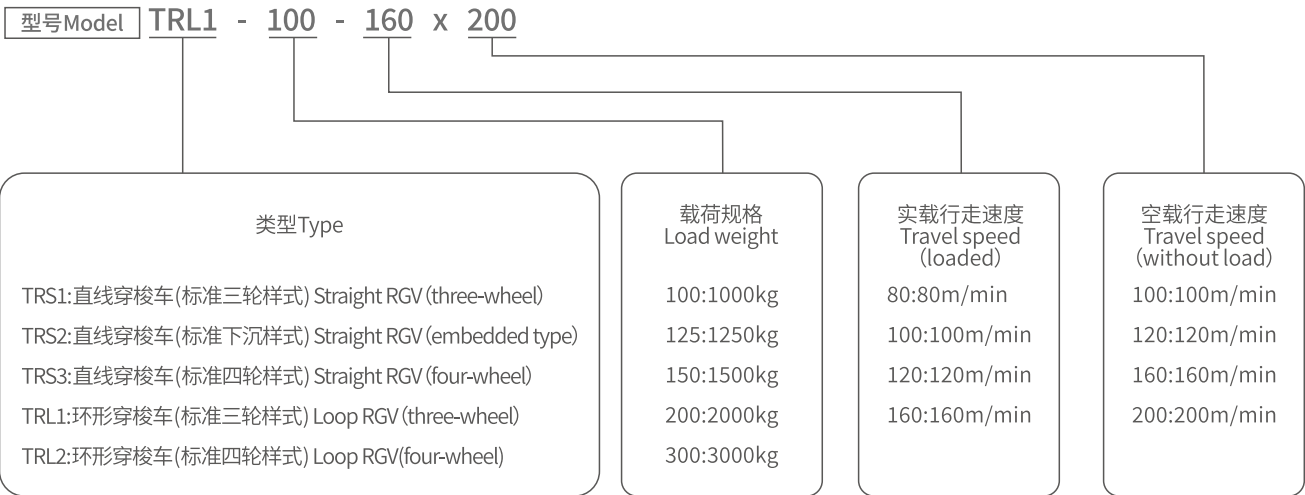
辊筒式
Roller conveyor type



链条式 Chain conveyor type

穿梭车搬运系统提供地面输送系统和空中输送系统。如有定制需求，请拨打电话:0512-53598000或邮件hamco@hamco.net.cn联系我们。
The RGV provides ground conveying system and overhead conveying system. If you have any customization requests or need further assistance, please feel free to contact us via email at hamco@hamco.net.cn.

标准参数/ Standard Parameter



设备参数/ Equipment Parameters

标准 Standard		重载 Heavy-Duty
最大载重/Max. load	2000kg	3000kg
行走速度/Travel speed	160m/min (实载Loaded) 200m/min (空载Empty)	120m/min (实载Loaded) 160m/min (空载Empty)
加速度/Acceleration	0.5m/s ² (实载Loaded) 1m/s ² (空载Empty)	0.3m/s ² (实载Loaded) 0.5m/s ² (空载Empty)
定位精度/Positioning accuracy	±2mm	±3mm
变轨时间/Track switching	≤1.5s	≤2s
最小转弯半径/Min. turning radius	1575mm	1575mm

标准轨道/ Standard Rail

机型 Models	直线标准段 Straight standard section	直线伸缩段 Straight expansion section	直线调整段 Straight adjustment section	直线减速段 Straight deceleration section	90°弯道段 Curved section	45°弯道段 Curved section	90°岔道变轨段 Track switch
TR S1	●	●	●	—	—	—	—
TR S2	●	●	●	—	—	—	—
TR S3	●	●	●	—	—	—	—
TR L1	●	●	●	●	●	●	●
TR L2	●	●	●	●	●	●	●



产品特点 PRODUCT FEATURES

智能调度Intelligent dispatching control

基于排队策略的调度法。
Scheduling based on queuing strategy.

任务找车调度策略(当存在多任务的时候,系统智能调度最优小车承接任务)。
Task-to-vehicle matching and dispatching strategy (In scenarios with multiple tasks, the system intelligently dispatches the optimal vehicle to undertake each task.)

近车取远货,减少轨道中车辆的拥堵及降速行为,提高效率。
Dispatch nearby vehicles for remote loads, reducing congestion and delays, enhancing overall efficiency.

系统稳定可靠,出错率低。
Stable and reliable with low error rates.

智能追赶Intelligent pursuit

无任务追赶:卸货完成优先在取货点待机。
No task chasing: Upon completion of unloading, vehicles prioritize standing by at pickup points.

动态追赶:领先的动态追赶机制,不会造成后车的降速。
Dynamic pursuit: The advanced dynamic pursuit mechanism ensures no speed reduction for following vehicles.

被追赶的过程中仍可接收调度任务。
Continuous dispatch task reception under dynamic pursuit.

智能排队Intelligent queuing system

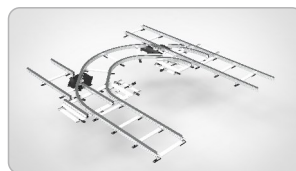
前车距离动态计算。
Dynamic calculation of lead vehicle distance.

轨道车辆无需顺序投放。
Non-sequential deployment of track vehicles.

特有的直道及弯道速度控制技术,可实现弯道10cm排队间距。
Unique straight and curve speed control technology, achieving 10cm queuing distance in curves.

车辆速度跟随技术。
Vehicle speed synchronization technology.

智能变轨Track switch



路径最优选择
Path Optimization Selection



缓存积放
Temporary Storage



任务灵活分配
Dynamic Task Allocation

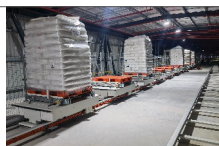


快速维修
Rapid Maintenance

应用行业 INDUSTRY APPLICATIONS



食品饮料行业
Food and beverage



医药化工
Pharmaceutical and chemical



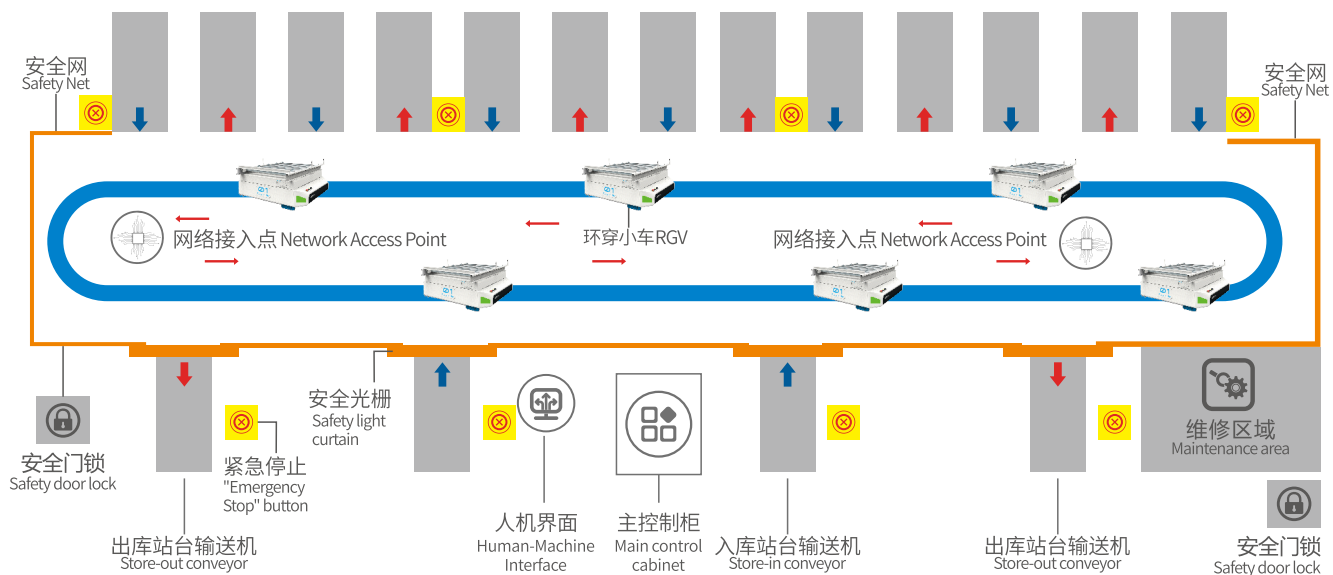
新能源
New energy



液晶半导体
LCD semiconductor

系统拓扑 SYSTEM TOPOLOGY

HAMCO
MAKING HANDLING EASIER



维修方案 MAINTENANCE PLAN

名称 Name	标配 Standard configuration	选配 Optional	备注 Remarks
1 悬臂吊型 Cantilever type	型号 RP1-1/Model RP1-1 手拉葫芦升降/Lifting by chain block 手动平移; 手动旋转 Manual translation; manual rotation. 机械限位/Mechanical limit.	型号 RP1-2/Model RP1-2 电动葫芦升降/Lifting by electric hoist 电动平移; 手动旋转 Electric translation; manual rotation. 机械限位/Mechanical limit	第一优先 First priority
2 桁架吊型 Truss hanging type	型号 RP2-1/Model RP2-1 手动葫芦升降/Lifting by electric hoist 手动平移; 机械限位 Manual translation; mechanical limit.	型号 RP2-2/Model RP2-2 电动葫芦提升/Lifting by electric hoist 电动平移; 机械限位 Electric translation; mechanical limit.	第二优先 Second priority
3 平移轨道型 Translation track type	型号 RP3-1/Model RP3-1 手动平移; 机械限位 Manual translation; mechanical limit.	型号 RP3-2/Model RP3-2 电动平移; 机械限位 Electric translation; mechanical limit.	第三优先 Third priority
4 道岔变轨型 Turnout track change type	型号 RP4-1/Model RP4-1 伺服驱动; 位置检测 Servo drive; position detection.		高配 High configuration



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