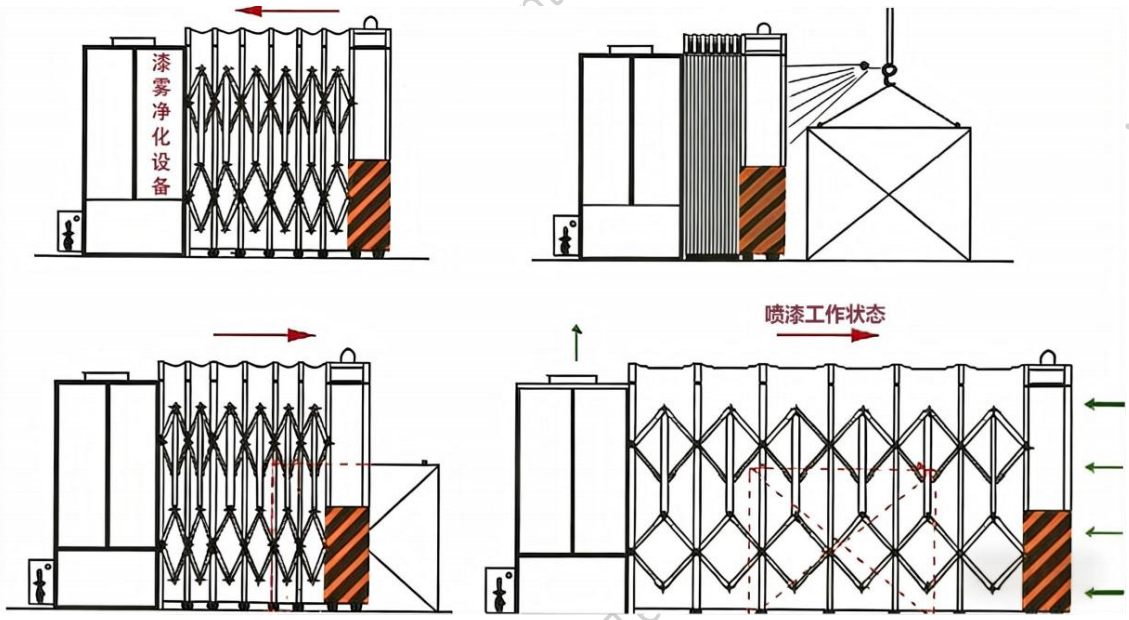
Retractable Mobile Spray Booth

I. Working Process

The retractable mobile spray booth is an environmentally friendly coating equipment designed for large workpiece coating challenges, mainly consisting of three major parts: **Retractable Mobile Front Chamber, Paint Mist Purification Device, and Organic Waste Gas Purification System**. The equipment can be freely extended and retracted along the track. When extended, it forms a closed/semi-closed coating workspace for centralized collection and purification of paint mist and exhaust gas; when retracted, it completely frees up the production area, enabling multi-process shared space and significantly improving workshop utilization. The whole machine adopts PLC intelligent control and dual-motor interlocked drive, operating smoothly and reliably. It can be equipped with sanding, spraying, air supply, and drying units, achieving one-stop coating operations.





II. Key Parameters

Equipment Structure: Frame transmission structure + double-layer flame-retardant PVC sealing curtain

Drive Mode: Dual-motor bilateral drive with interlocked operation

Control Mode: PLC automatic control, remote control

Safety Configuration: Front/rear limit protection, emergency stop protection

Operation Mode: Track-type retractable movement

Purification Configuration: Paint mist purification + organic waste gas treatment (optional dry/wet filter, activated carbon,catalytic combustion, etc.)

Optional Configurations: Sanding cabinet, spraying cabinet, air conditioning supply, drying unit

Applicable Workpieces: Large/Heavy/ Difficult-to-Move workpieces

III. Operating Instructions

Before use, check that the track, motor, limit switches, and PVC curtains are in good condition.

Use the remote control or control cabinet to extend the booth to the working position; confirm it is locked before performing spraying/sanding operations.

Simultaneously activate the air supply, paint mist purification, and exhaust gas treatment systems to ensure the working environment meets standards.

After completing work, stop spraying first, wait a few minutes for the purification system to run, then retract the booth.

Regularly inspect the transmission mechanism, sealing curtain, and electrical systems; promptly clean paint residue and dust to maintain stable equipment operation.

IV. Product Advantages

Space-saving, high space utilization: Can be retracted when not in use; the same site can accommodate coating, sanding, assembly, storage, and other multi-purpose uses.

Low cost, high value for money: Compared with fixed spray booths, lower investment and shorter construction period.

Stable and safe operation: Dual-motor drive, PLC control, limit protection — smooth and reliable operation.

High purification efficiency: Equipped with professional paint mist and exhaust gas treatment systems to meet environmental emission requirements.

Quick installation, easy maintenance: Modular structure, attractive and neat appearance, flexible application scenarios.

Highly customizable: Air supply, drying, sanding, exhaust gas treatment and other functions can be configured as needed for one-stop production requirements.

V. Applicable Industries

Widely applicable **to construction machinery, heavy steel structures, marine components, large hardware, wind power equipment, rail transit components, large mechanical equipment, molds, and heavy metal structures** and other industries. Particularly suitable for production scenarios where workpieces are large in size, heavy in weight, difficult to move, and where workshop space is limited.

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