

Conveying Solution for Car Wash

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创新

Innovative



智能

Smart



安全

Safety



节能

Energy saving



**Automatic
Car Wash**

2

**Smart Modular
Conveyor Belt**

4

**After-sales
Guarantee**

1

**Intelligent
Modular Belt
Conveyor**

3

**Successful
Case**

5



PART 01

Automatic Car Wash

- Introduction
- Modular Belt Tunnel Car Wash

Automatic car wash includes 2 main types, roll-over car wash and tunnel car wash. With the requirement of car wash time no more than 2 minutes, the tunnel type car wash is more favored by customers. It's less time consuming, more stable conveying, and can accommodate more car models.



Roll-over Car Wash

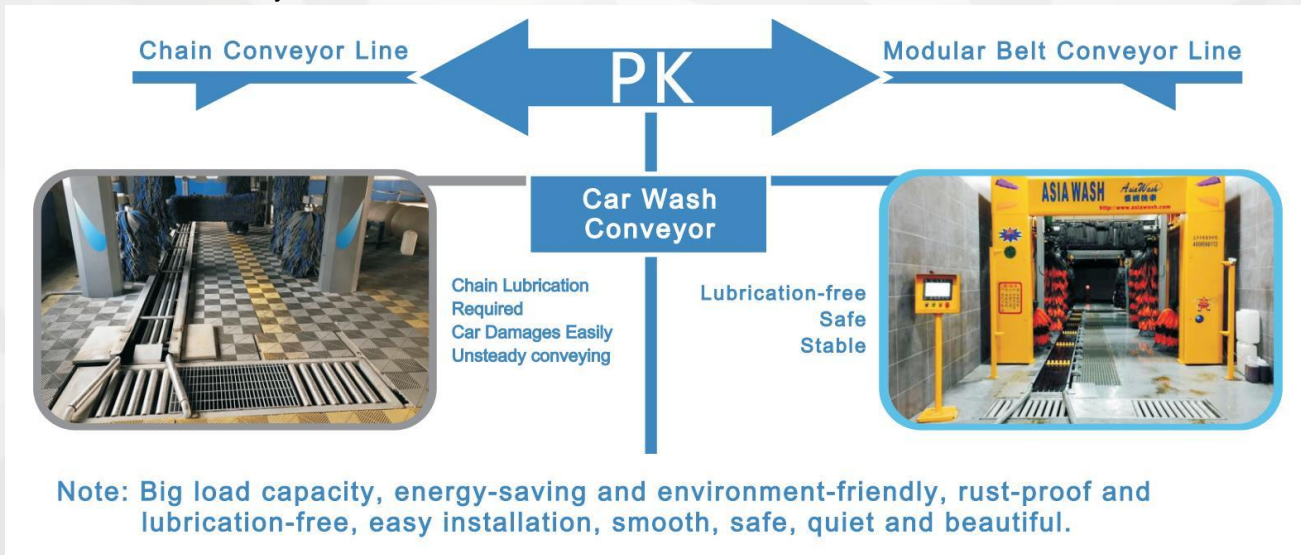


Tunnel Car Wash



Modular Belt Tunnel Car Wash

With the increasing requirements of the automatic car wash, the chain conveyor line used in the tunnel car wash has been gradually replaced by the modular belt conveyor line.



Modular Belt Tunnel Car Wash



By replacing the troublesome components like entrance correlators, guide rails, and chains with a flat, smooth, continuous HONGSBELT® belt, car washes can significantly improve personnel safety and reduce car damaging accident. High-quality HONGSBELT® conveyor belt enables car wash operators to save time and money through standardized process. By reducing risk and improve personnel safety, they can also decrease insurance costs.

Modular Belt Tunnel Car Wash

- 1)**Protect car from unnecessary damage**--Car washes equipped with HONGSBELT® conveyor belts protect customers' cars from damage received when driven directly onto the conveyor belt, rather than aligned on a correlator. By eliminating guide rails and chains, damage to rims, tires, and brake assemblies as well as custom exhausts and bodywork is averted.
- 2)**Improve personnel safety**-- Your car wash can be designed with an HONGSBELT®-equipped conveyor that is flush with the concrete floor, allowing car wash employees to work directly on the belt, rather than moving from surface to surface.





PART 02

Intelligent Modular Belt Conveyor

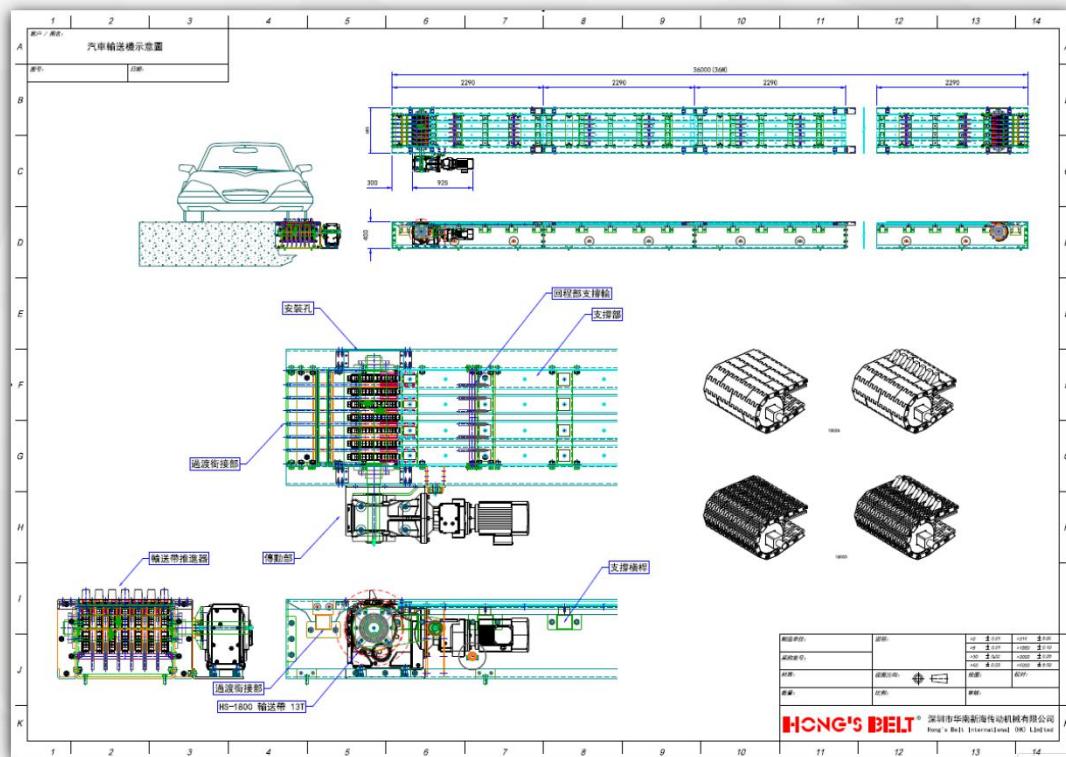
- Conveyor Advantages
- Unilateral Conveyor Line
- Bilateral Conveyor Line
- Car Care Conveyor Line

HONGSBELT® intelligent modular belt conveyor provides advantages for the automatic car wash line:

1. Modular design, simple installation saves time and cost
2. No tension system required
3. Efficient cost and simple system design
4. Lower bearing system
5. The low friction back side saves energy, and the extremely small friction coefficient provides a quiet conveying environment
6. Safety yellow sign on the edge of the belt
7. The modular belt made of new materials is light, strong, environmentally friendly and energy-saving, and can resist ultraviolet rays to prevent the belt from aging
8. Strong load capacity
9. The bilateral conveyor line ensures stable conveying and zero deviation

Unilateral Conveyor Line

Project Drawing



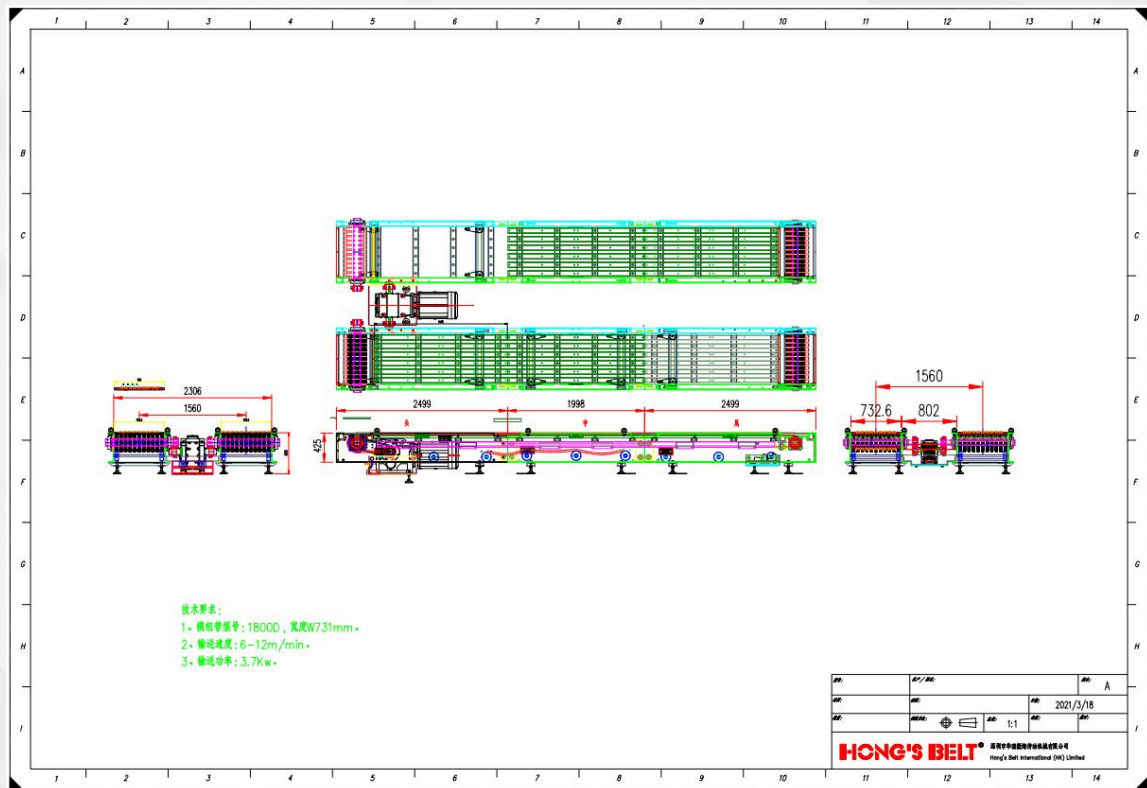
Unilateral Conveyor Line

Application Photos



Bilateral Conveyor Line

Project Drawing



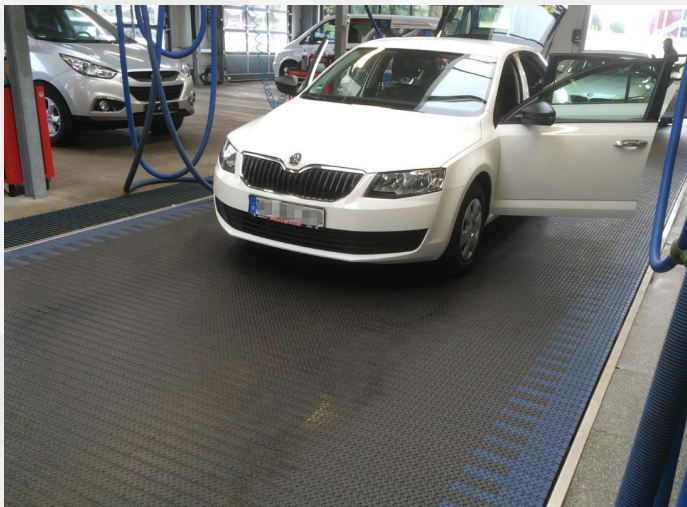
Bilateral Conveyor Line

Application Photos



Car Care Conveyor Line

**Complete Car
Conveying
--Car Care**



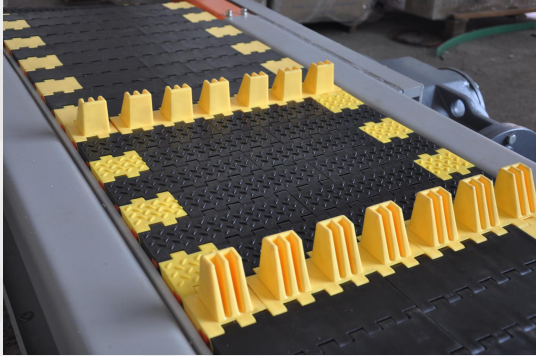


PART 03

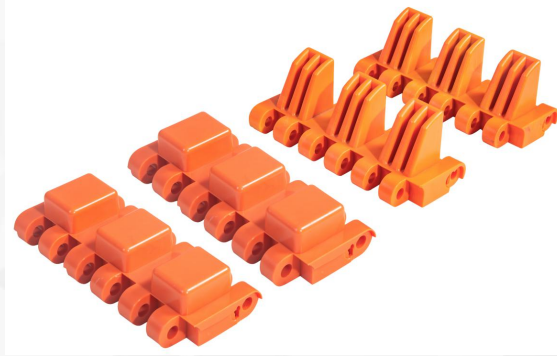
Smart Modular Conveyor Belt

- Product Description
- HK Material Characteristic
- HK Material Advantages

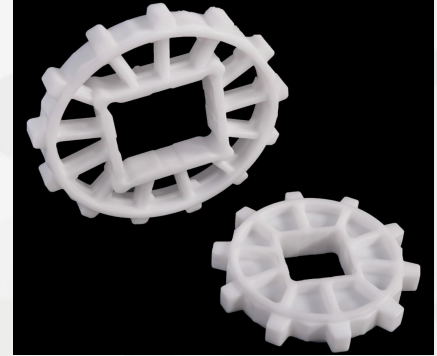
Conveyor Accessories for Car Wash



Modular Belt



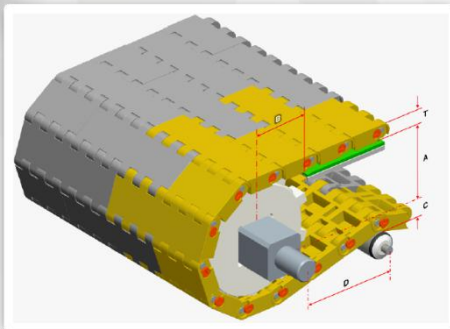
Pusher



Sprocket

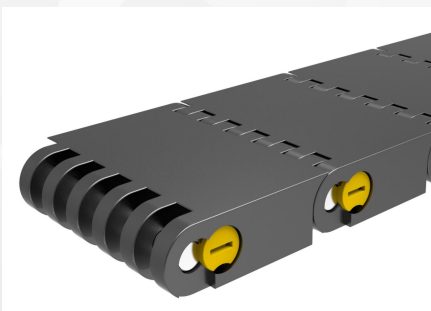
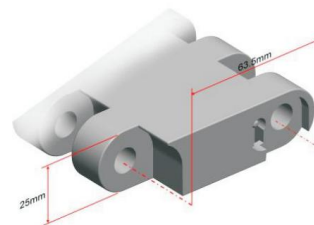
Modular Belt

HS-1800A



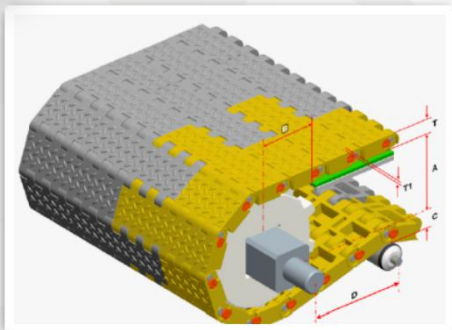
HONG'S BELT®

Pitch: 63.5mm
Minimum Width: 200mm
Open Area: 0%
Approved: FDA
Rod: $\varnothing$ 10mm
Flight: No
Side Guard: No
Curve: No



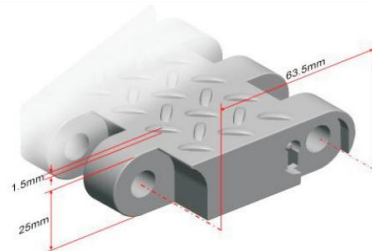
Modular Belt

HS-1800D



HONG'S BELT®

Pitch: 63.5mm
Minimum Width: 200mm
Open Area: 0%
Approved: FDA
Rod: Ø 10mm
Flight: No
Side Guard: No
Curve: No

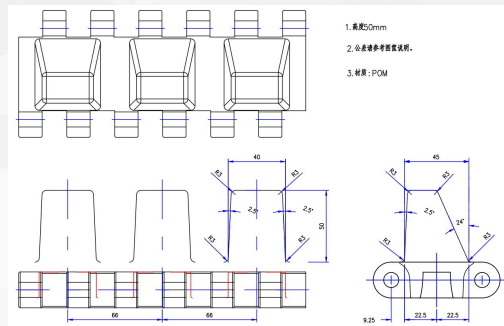




Pusher

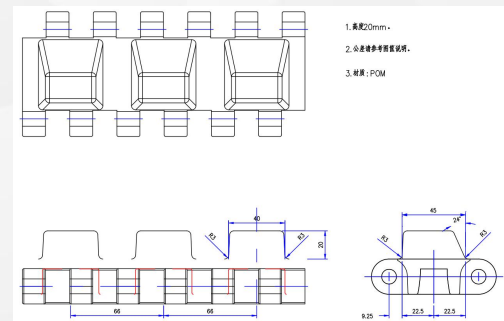
50MM Height

(Mainly for unilateral line)

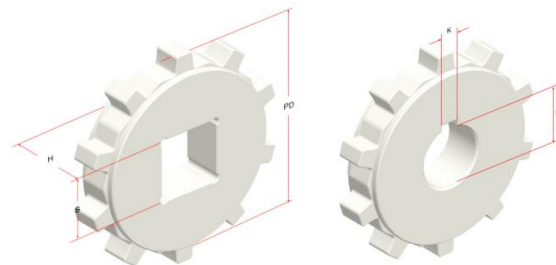
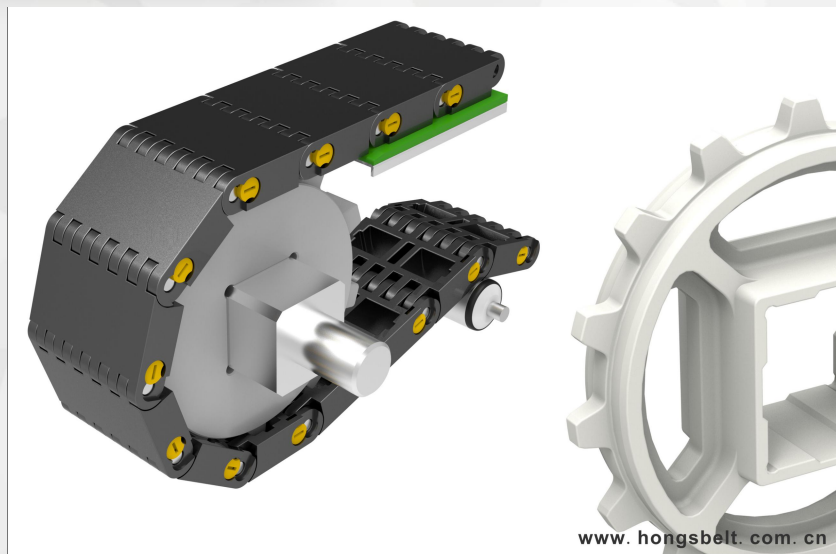


20MM Height

(Mainly for bilateral line)



Sprocket



Sprocket Dimensions

Unit: mm

No. Teeth	PD	S	D	H	K
10	201.5	60.3/63.5/82.5	60.25	36	18x4
13	261	60.3/63.5/80.5/100.2	--	36	--
15	308	90.5	--	36	--

 The above sprockets are standard, and it also can be customized according to customer's request, including the teeth number of sprocket and the size of square bore: the processing time is about 2 weeks.

Special composite HK material designed by HONGSBELT® for the car wash

- Extrusion Grade Low Fluidity Basic Resin (Natural Color)

Test Method		Test Method	Unit	Value
Density		ASTM D792	g/cm³	1.24
Water Absorption	23°C, 50%RH	ASTM D570	%	0.5
Model Shrinkage	3T, MD/TD	ASTM D955	%	2.1/2.1

Mechanical Properties		Test Method	Unit	Value
Tensile Yield Strength		ASTM D638	MPa	58
Elongation at Break	23°C	ASTM D638	%	300
Bending Strength	23°C	ASTM D790	MPa	50
Flexural Modulus	23°C	ASTM D790	MPa	1300
Notch Impact Strength of Simply Supported Beam	23°C	ISO 179/1eA	KJ/m²	18

Thermal Performance		Test Method	Unit	Value
Melting Temperature		ASTM D3418	°C	222
Heat Distortion Temperature	18.6Kg/cm²	ASTM D648	°C	105
Melt Index	240°C,2.16kg	ASTM D1238	g/10min	6
Flammability	t=0.8mm	UL 94	Class	HB

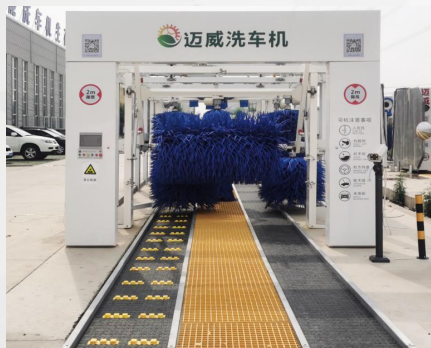
- HK material has excellent abrasion resistance-about 14 times of POM material, with very low abrasion, high dimensional stability in long-term use and temperature changes, with low noise;
- HK material has extremely high toughness and sufficiently good tensile strength and flexural modulus;
- HK material has high impact strength and outstanding hydrolysis resistance- about 230% higher than nylon and PBT material;
- HK material has outstanding chemical resistance which does not decrease in acid and alkali liquor;
- HK material has excellent flame retardant effect-flame retardant additive is 50% of nylon material;
- HK material has outstanding fuel resistance- about twice of PA12 material;
- HK material has outstanding hydrocarbon barrier properties and good chemical resistance.



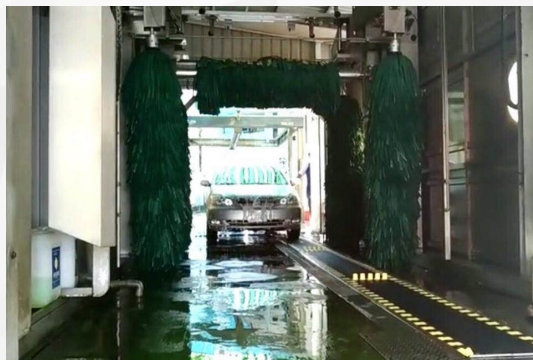
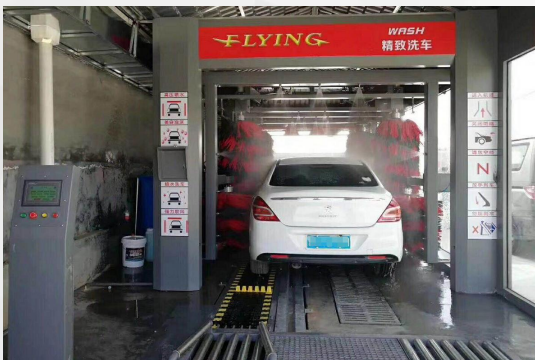
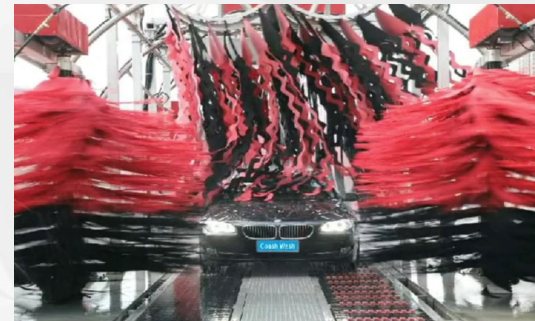
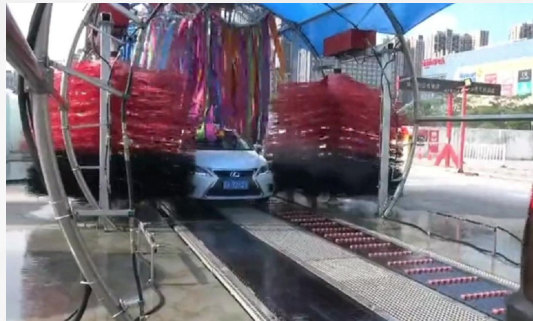
PART 04

Successful Case

Successful Case



Successful Case





PART 05

After-sales Guarantee

- Guarantee for Delivery Time
- After-sales Response

Guarantee for Delivery Time

Standardization

Mass Production

Advanced Equipment

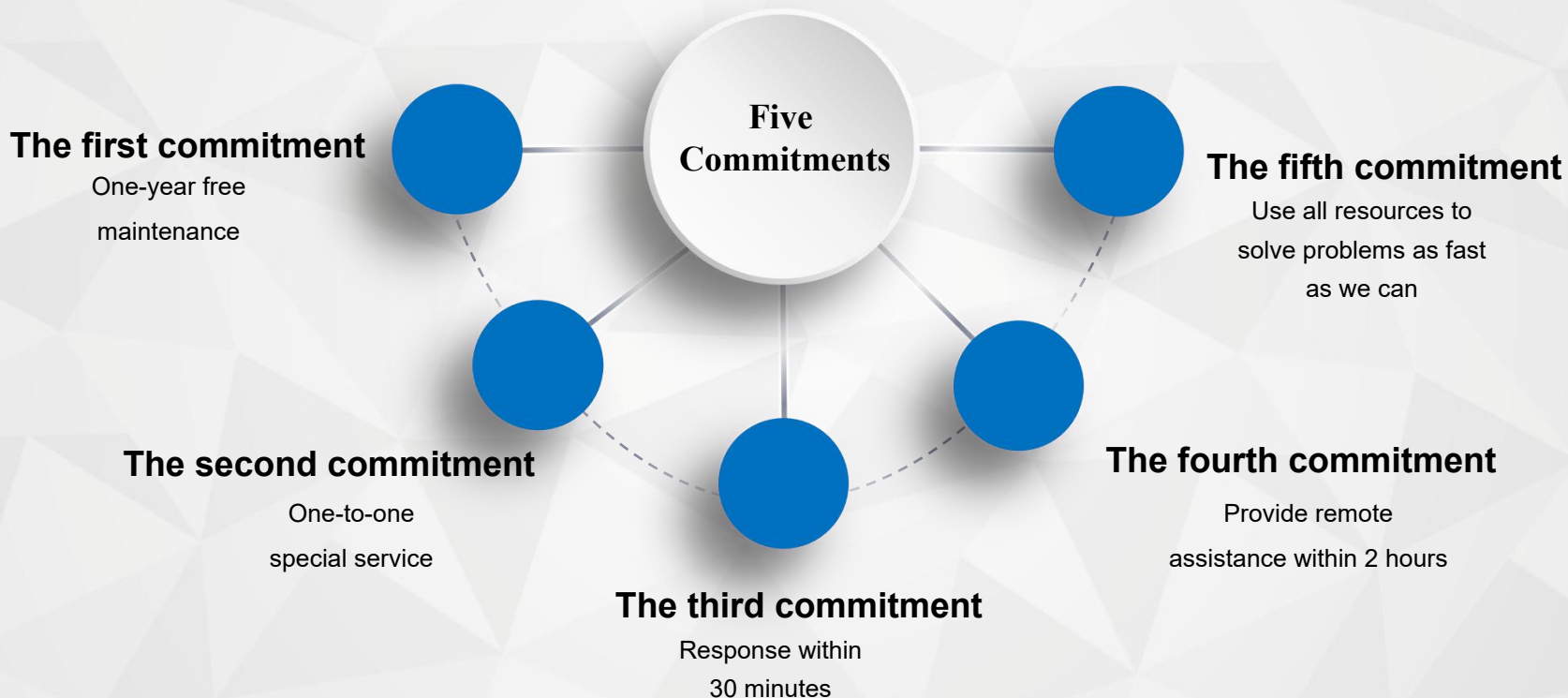
Accessory Inventory

Immediate Schedule for Production



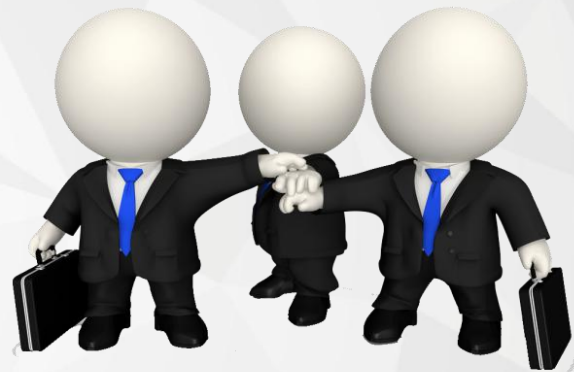
1. Standard production process and assembly sequence to meet the requirement of mass production.
2. Bring in advanced foreign processing equipment with higher precision so as to ensure quality and appearance.
3. Related accessories of conveying equipment are all in stock, and the conveyor belt is self-produced to ensure immediate schedule for production.
4. Delivery within appointed time after the drawings are confirmed, and leave the factory after successful pilot run.

After-sales Response



1. We provide the widest range of products for the car wash industry. HONGSBELT® provides the widest range of conveyor belts, accessories and modular belt conveyor . We can be your only supplier of comprehensive solutions!
2. We have service providers distributed all over the world to provide you with support at all times. Whenever and wherever you need engineering and emergency support, quotation and order, we are on call to ensure your satisfaction.

THANKS
谢谢



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