

#### 上海锦铝金属制品有限公司

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2021 锦铝金属 Industrial stepping stair and walking platform system INDUSTRIAL STEPPING STAIR AND WALKING PLATFORM SYSTEM

INDUSTRIAL STEPPING STAIR AND WALKING PLATFORM SYSTEM

> 上海锦铝金属制品有限公司 Shanghai Jinly Metal Products Co., Ltd

#### Industrial Stepping & Walking System

Industrial stepping stair and walking platform system it mainly refers to two parts of escalator and bridge.

It is widely used In the industrial field, such as mechanical processing plant with large machine tools and logistics warehouse workshop with high altitude operation. The application of escalator and cross-bridge not only facilitates the field operation of workers, but also ensures the personal safety of workers.

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产品概览





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#### Industrial step customization

#### Safety standards

Accessories of Stairs/platform system meet all current standards and regulations of the German accident Insurance and Prevention Agency. Therefore, Stairs/platform system makes it easy for users to build structures that meet all the safety requirements and rules applicable to staircase design.

#### Accessories

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Stairs/platform system base on few accessories, those accessories can use flexible. let those accessories easier reuse.Uniform light structure principles and wider pillar space help to minimize raw material consumption while ensuring safety.

#### **Fully compatible**

taircase with different slope and variable length profile assembly, can be customized according to demand. Compatible with fences, panels, doors, machine accessories and installation accessories, installation and expansion of various auxiliary equipment. According to the available space, the required working height and the related weight too build the optimal solution.

#### **Optimized surface**

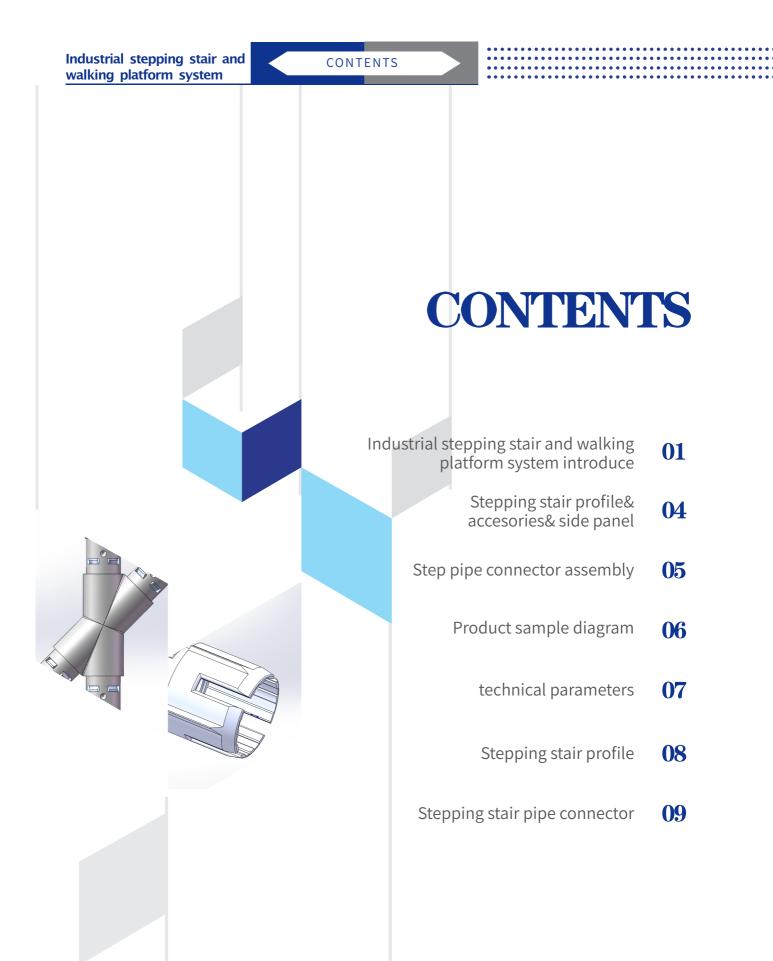
Stairs/platform system can create a complete surface to avoid dirt. Pillars, handrails and kneepads reduce the risk of injury. the highly sturdy aluminum profiles are anodized to enable them to prevent scratching and corrosion for a long time.

#### Easy to assemble

All parts are bolted to the profile. Because of the multifunction fastener, there is no need for oblique cutting of guardrail or connection joint. Therefore, the stairs can be modified or expanded if necessary.

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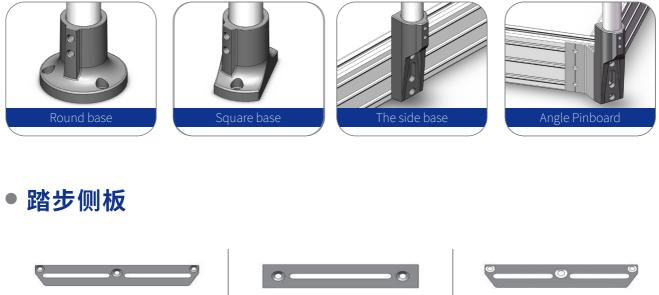
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踏步型材 & 附件 & 侧板



# • 踏步附件



JL1030 Side panle

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JL1030 Side panle



JL1030 Side panle

#### Stair and platform pipe connector Industrial stepping stair and walking platform system





135 degree 2 way links



45 degree two links



135 degree three links



Plastic tube connectors

links >>> Learn More About Jinlv

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45 degree three links



45 degree four links



X type four links



right angle tee



CROSS 4 WAY CONNECOTRS



90 degree Angle head

T type three links

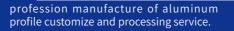


Y type three links



Right angle four-way







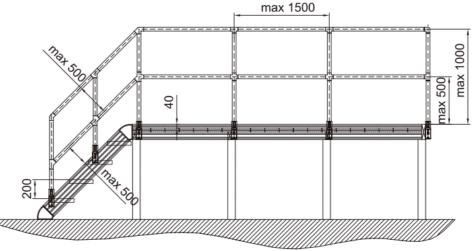
## Industrial Stepping & Walking System

#### **Optimized surface**

Stairs/platform system can create a complete surface to avoid dirt. Pillars, handrails and kneepads reduce the risk of injury. the highly sturdy aluminum profiles are anodized to enable them to prevent scratching and corrosion for a long time.

- The stair and platform system at least need one side handrail, will need two side handrail if the platform width is above 1200mm;
- The height of stair and platform recommend 200mm;
- 1200mm width platform total loading must under 350kg;
- 1200mm width single step loading wight must under 150kg;
- The two column distance between handrail and guard bar must under 1500mm;

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technical parameters

# Safety standards

## **Technical Parameter**

Al Mg Si alloy hot extruded profile, Carry out GB/T6892-2000 standard, Alloy is 6063-T5,The mechanical performance indexes are as follows:

strength of extension Rm:	Min.160 N/mm <sup>2</sup>
yield strength RP02:	Min.110 N/mm <sup>2</sup>
Modulus of Elasticity	7.0x10 <sup>4</sup> N/mm <sup>2</sup>
Brinell hardness:	HB75
Elongation:	8%(T<3.2mm)
strength of extension Rm:	10%(T>3.2mm)
Oxidation thickness:	Min.10 um

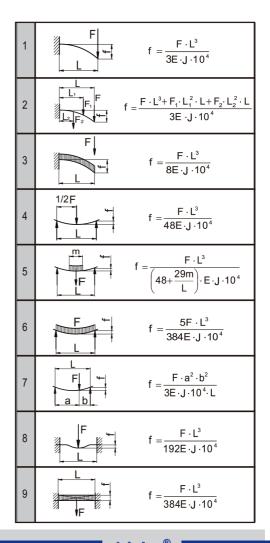
## Calculation formula of deformation

## Deformation calculation formula

# Calculation method of strength and deformation:

According to the mechanical properties of the profiles, the strength, stiffness and stability of the modular assembly system can be checked by using the formula in the table.

F = deformation mm
L= section length mm
E= modulus of elasticity N/mm2(7.0x104N/mm2)
F = N load
J=Moment of inertia of profiles CM4 each profile is attached with moment of inertia see section of standard frame profiles for details



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<b>Stepping s</b> Step profile	tair profile	0	و	<u>.</u>	3
Material	6063-T5	FF			
Surface treatment	Anodi c oxidation		5		C
Colour	SLIVER	FFF	5		5
Maximum length	L=6000mm	is due due di			
The cutting surface     a = a = a = a = a = a = a = a = a = a =	was not anodized	HHHH		<b>b</b> = = = =	<b></b>
Aluminum Can customiz	tube : φ40*3 e yellow colour				
moment of inertia lx(CM <sup>4</sup> )	5.65				
moment of inertia lx(CM⁴)	5.65				

Stepping stair profile

Aluminum profile JL1020		
moment of inertia lx(CM <sup>4</sup> )	17.94	
moment of inertia lx(CM <sup>4</sup> )	563.99	
moment of inertia lx(CM <sup>4</sup> )	8.97	
moment of inertia lx(CM <sup>4</sup> )	56.39	
weight (kg/m)	3.42	

2.82

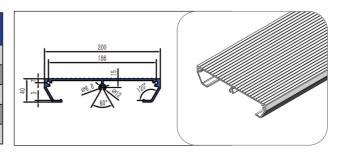
2.82

0.978

moment of inertia lx(CM<sup>4</sup>)

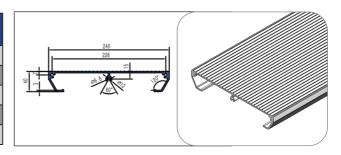
moment of inertia lx(CM<sup>4</sup>)

weight (kg/m)

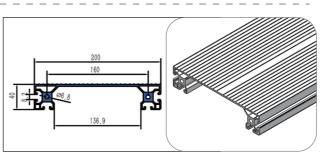


Industrial stepping stair and walking platform system

Aluminum profile JL1030		
moment of inertia lx(CM <sup>4</sup> )	18.76	
moment of inertia lx(CM <sup>4</sup> )	889.42	
moment of inertia lx(CM <sup>4</sup> )	9.38	
moment of inertia lx(CM <sup>4</sup> )	74.11	
weight (kg/m)	3.79	

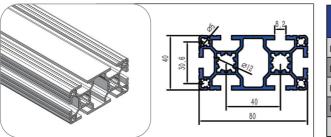


Aluminum profile JL800		
moment of inertia lx(CM <sup>4</sup> )	23.67	
moment of inertia lx(CM <sup>4</sup> )	779.63	
moment of inertia lx(CM <sup>4</sup> )	11.83	
moment of inertia lx(CM <sup>4</sup> )	77.9	
weight (kg/m)	4.3	

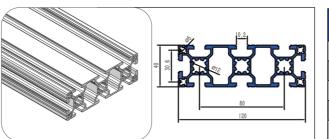




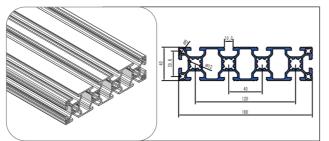
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ALuminium tub	e / JL-8-4080EE
moment of inertialx(CM <sup>4</sup> )	16.14
moment of inertialx(CM <sup>4</sup> )	59.00
moment of inertialx(CM <sup>4</sup> )	8.07
moment of inertialx(CM <sup>4</sup> )	14.75
weight (kg/m)	2.69



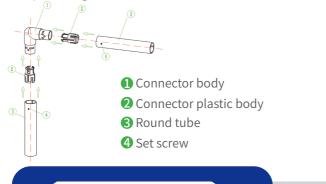
ALuminium tube	/ JL-10-40120EE
moment of inertialx(CM <sup>4</sup> )	23.16
moment of inertialx(CM <sup>4</sup> )	180.59
moment of inertialx(CM <sup>4</sup> )	11.58
moment of inertialx(CM <sup>4</sup> )	30.09
weight (kg/m)	3.80



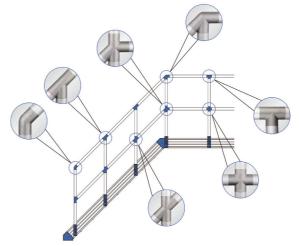
ALuminium tube / JL-40160EE		
moment of inertialx(CM <sup>4</sup> )	30.34	
moment of inertialx(CM <sup>4</sup> )	403.50	
moment of inertialx(CM <sup>4</sup> )	15.17	
moment of inertialx(CM <sup>4</sup> )	50.43	
weight (kg/m)	4.92	

## • **PIPE CONNECTOR** Step profile

The pipe connectors in the industrial step and platform system adopt the special locking mechanism of inner type. The locking mechanism between the pipe and the pipe connector can be realized only by rotating the setting screw. The aluminum tube only needs to be cut to a fixed length without other processing, so the connection is convenient and fast.



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- Put the plastic body into the connctor
- Insert tube to plastic body till pipe connector
- Use set screw tight the round tube and connector

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#### Stepping stair pipe connector

Industrial stepping stair and walking platform system

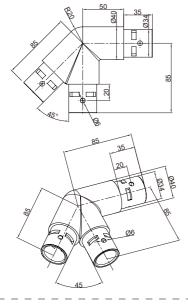
## Stepping stair pipe connector

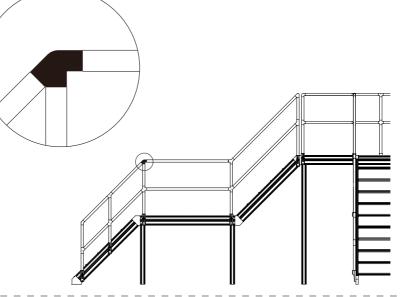
Step pipe connector

## Pipe connector

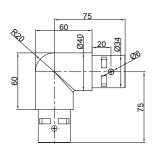
Jinlv 45° three way connector Order No.:JL-F-45-3T - FEATURE: Use concealed pull in pull out device connect the tube and accessories by tapping the screw.Aluminum tube only needs cut to fixed length than punch screwed holes on side face, very quick and easy.

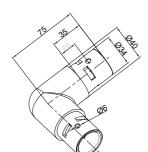
Material: Die-casting Aluminum.



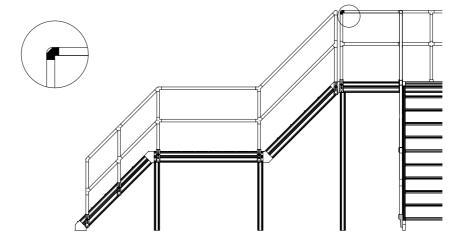


#### JINLV 90° ANGLE HEAD Order No.:JL-F-90-2T





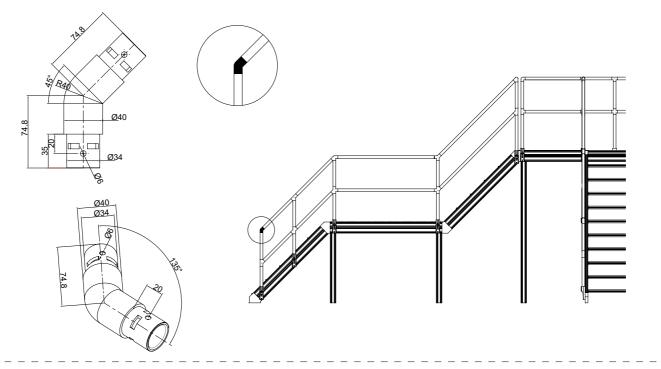
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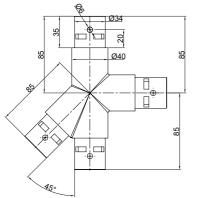
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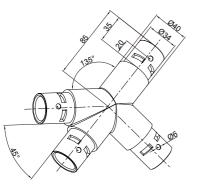
Stepping stair pipe connector

JINLV 135 ° TWO WAY LINKS ORDER NO.: JL-F-135-2T

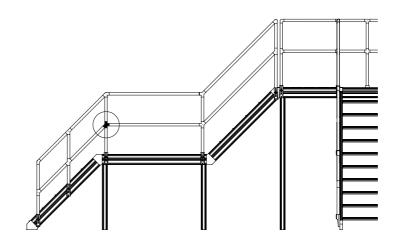


JINLV 45° FOUR WAY LINKS ORDER NO.: JL-F-45-4T









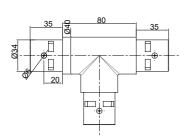
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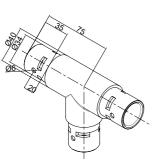
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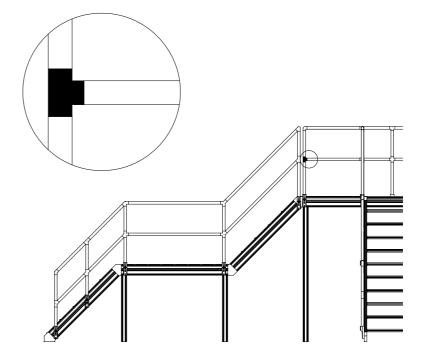
# Stepping stair pipe connector

Step pipe connector

JINLV T TYPE THREE WAY LINKS ORDER NO.: JL-F-90-T

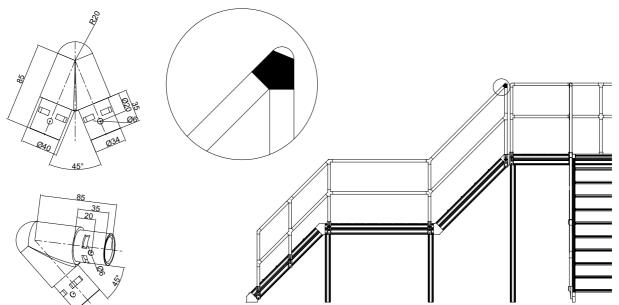




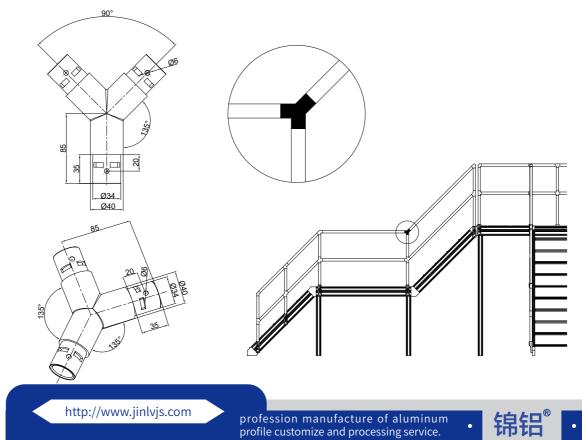


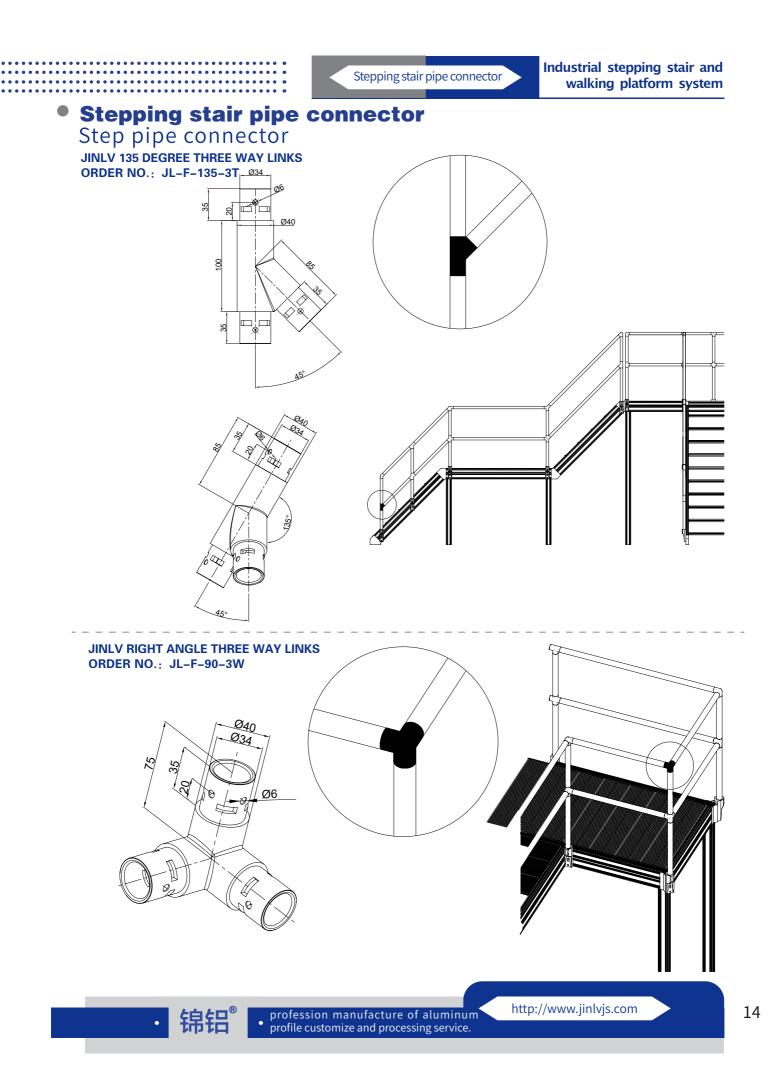
JINLV V TYPE 45° TWO WAY LINKS Order No.:JL-F-45-V

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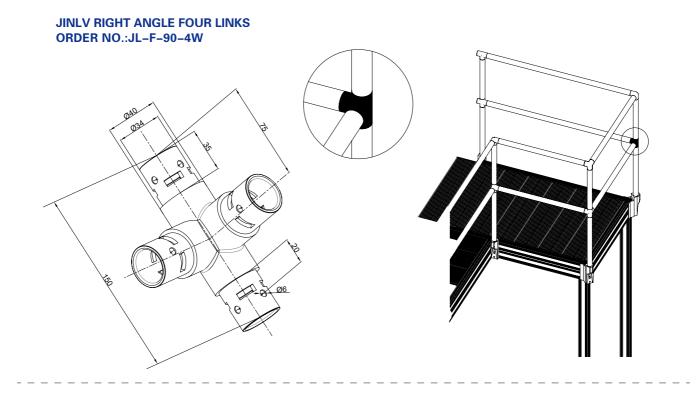


JINLV Y TYPE THREE WAY LINKS ORDER NO.: JL-F-135-Y

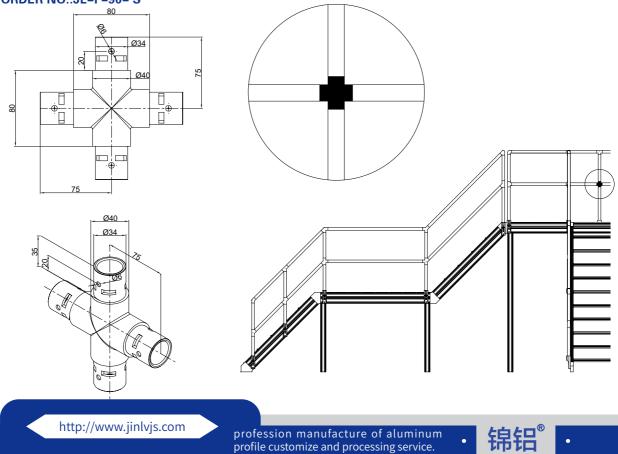




Stepping stair pipe connector



JINLV CROSS TYPE FOUR WAY LINKS ORDER NO .: JL-F-90- S

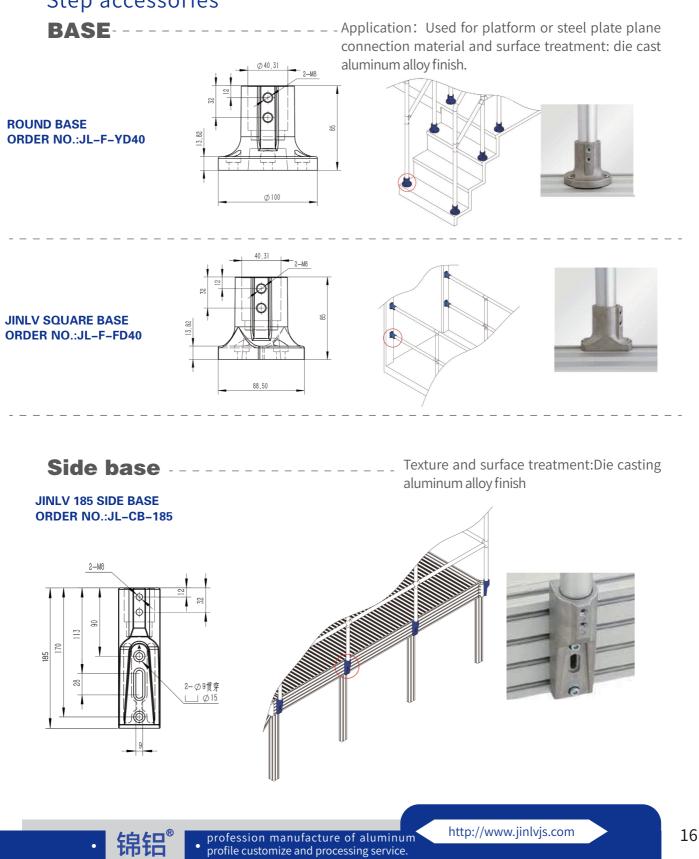


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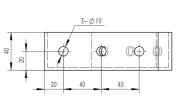
## Stepping stair accessories

Step accessories

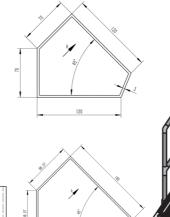


# Angle Bracket(45°

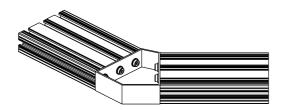
Angle connector (45 °) - - - - - Texture and surface treatment: Sheet metal spraying.



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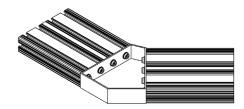






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JINLV 120-45 DEGREE ANGLE BRACKET ORDER NO.:JL-F-120-45X



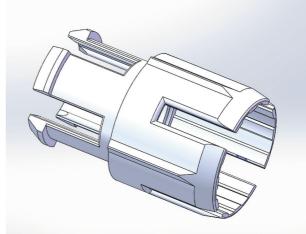
JINLV 160–45° angle bracket Order No.JL-f–160–45X

# • NOZZLE PLASTIC PARTS

Nozzle plastic parts

JINLV NOZZLE PLASTIC PARTS ORDER NO.:JL-F-SLJ40

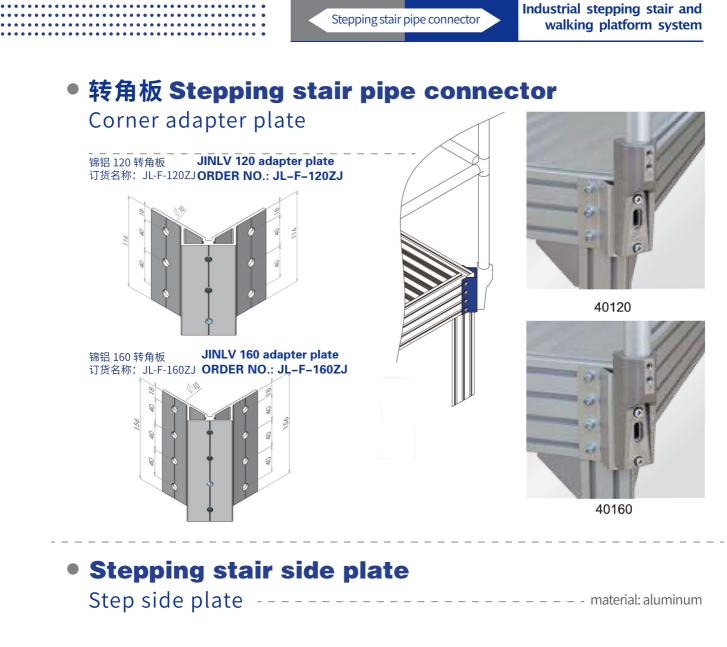
APPLICATION: Use for aluminum tube and tube connection:Neylon+ Glass fiber.



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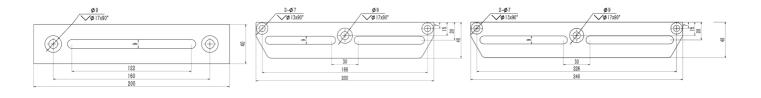


JINLV 800 stepping stair side plate Order No.: JL-F-JL800CB

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JJINLV 1020 stepping stair side plate JINLV 1030 stepping stair side plate ORDER NO.: JL-F-JL1020CB

ORDER NO.: JL-F-JL1030CB



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