艾德

Connecting Link

Coal mine · Power plant · Chemical plant



• Professional manufacturer of high-end link •

Enterprise Directory

››› Professional Manufacturer of Connecting Links

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• Support customized production of drawings or samples •

Company introduction

Professional manufacturer of connecting links



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Our product positioning is high-end, quality positioning is fine, benchmarking imports, and price positioning is medium.

AID's business philosophy is " Build a dream for Ai Virtue is far-reachinge ", and its mission is to replace imports and create a national brand with ingenuity. It is a first-line brand with comprehensive advantages in materials, equipment, technology, research and development, inspection, management, after-sales and logistics.

Won 10+ corporate honors

State-level high-tech enterprises, provincial specialized small and medium-sized enterprises, Yantai municipal gazelle enterprises, municipal economic development representative enterprises, ISO9001 quality management system certification, etc.

With an annual production capacity of 100000 sets

Sufficient raw materials and finished products are stocked, and modern and efficient manufacturing equipment is provided to meet the needs of large customers for mass products.

1000+ cooperative customers

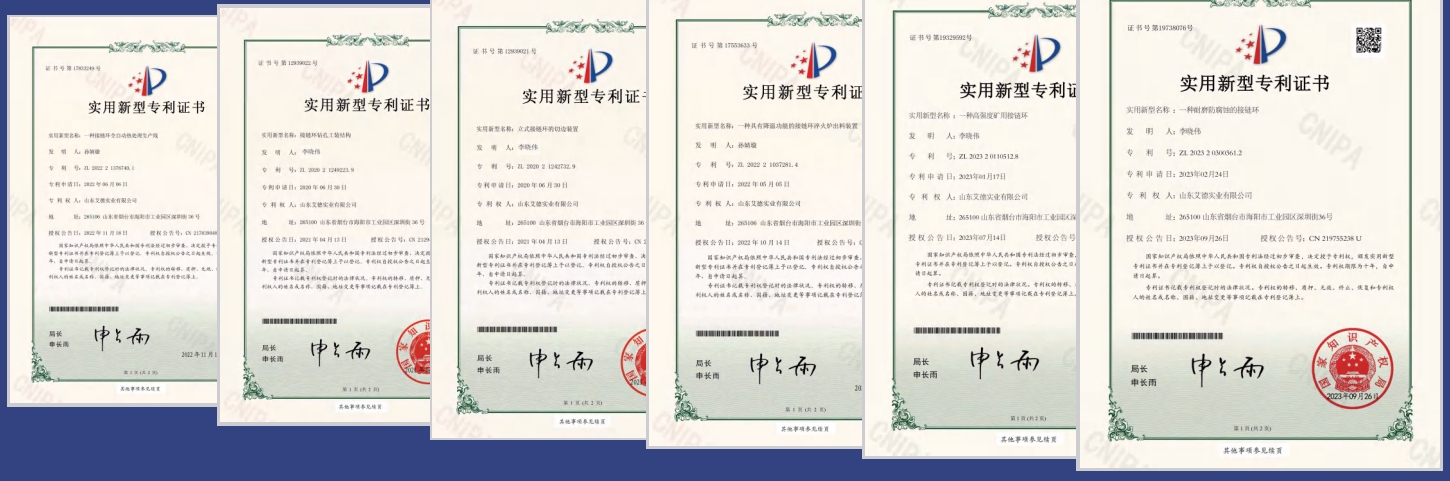
Competitive distribution/agency policy, vigorously support partners to explore the market, protect the interests of dealers and agents, and win-win cooperation.

Endorsement of some enterprises in the top 50 coal enterprises

The product quality, service level and enterprise reputation of the successful cases of the national large coal industry group can stand the market test.

Shandong AID was established in 2012, focusing on R&D and manufacturing of connecting links. At present, the company has been rated as a national high-tech enterprise, a provincial-level specialized small and medium-sized enterprise and a municipal gazelle enterprise, and has 12 patents for chain links and 28 coal safety certifications; It has also obtained the certification of quality, environment and occupational health. The company has five departments, one R&D center and four overseas offices in Qingdao, Jining, Yulin and Jinsha, with an annual production capacity of 100,000 socket links.

Won 12 Technical Patents





01/AID-DTT

Differential temperature treatment process

Over the years, AID has been deeply involved in technology research and development, and the company is equipped with a professional technical team. After repeated experiments, it has independently developed the "Aid-DTT (Differential thermal threat-ment)" differential thermal treatment process. DTT technology can make the internal structure of the material change ideally, so that the Aide link has better hardness, toughness and strength.

02/Semi-ring precise bite, super locking force.

CNC high-precision CNC machining center manufacturing, accurate assembly size, precision forging, high-precision CNC machining.

03/The performance reaches the international DIN standard

Strong breaking force, high surface hardness and high fatigue strength.

Create a national brand with ingenuity



04/ High quality German brand alloy steel

The raw materials of high-quality German brand alloy steel are rich in Mn, Ni, Mo and Cr alloy strengthening elements, and the forging factory has obtained IATF 16949:2016 international standard quality system certification. High-performance raw materials and DTT technology complement each other, and the products have comprehensive mechanical properties such as high strength, high toughness, wear resistance, corrosion resistance, good cold bending ability and high breaking tension.

05/ Finite element analysis technology

Using finite element simulation analysis technology, the geometry and load conditions are simulated, the type and structure are scientifically designed, and the deformation and stress are analyzed and calculated, so that the mechanical properties of the product are excellent and the operation is more reliable.

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Build a dream for AI
D is far-reaching

Mining Connecting Link



• Chain Lock Flat Link •

Connecting link · Choose AID
Why AID flat ring is better?

Technological characteristics

Take a look at the installation tutorial

01 Finite element analysis technology

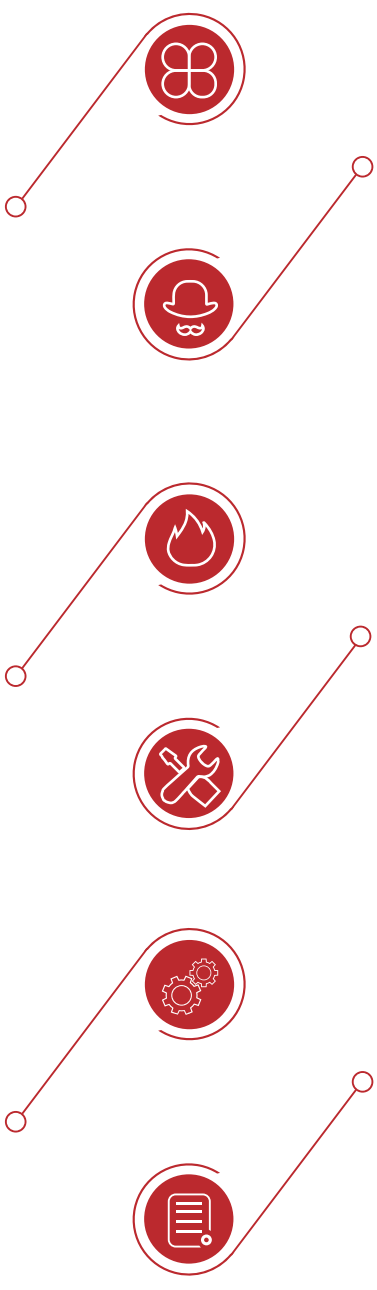
Simulate geometry and load conditions, and scientifically design types and structures; Analysis and calculation of deformation and stress, excellent mechanical properties; The operation is more reliable; Large bearing capacity, strong self-locking force and uniform stress.

02 AID-DTT differential thermal treatment technology

Aid-DTT (Differential thermal treatment) differential thermal treatment technology, carefully designed process route, and strictly controlled sequence change; The internal structure of the material achieves ideal transformation and its mechanical properties are better.

03 Semi-ring precise occlusion Super locking force

Precision forging, high-precision CNC machining, CNC high-precision CNC machining center manufacturing, accurate size, stable operation.



04 High quality German brand alloy steel

Rich in Mn, Ni, Mo and Cr alloy strengthening elements; Super alloys structural steel, high strength and wear resistance; Forging factory was certified by IATF16949:2016 International Standard: Quasi-quality System.

05 Grade 12.9 high strength alloy steel bolts

It conforms to GB/T3098.1-2000 standard, has better tensile strength and bearing load, keeps the operation process reliable and stable, and is easy to disassemble.

06 Exterior multiple anticorrosion technology

In view of the harsh corrosive environment, carry out multiple anti-corrosion treatments to resist the harsh corrosive environment such as chlorine and oxygen ions.



Chain Lock Flat Link

01/ Standard

The product design, manufacture and inspection are based on the standard Q/AID01-2013 Technical Specification for Mining Flat Link, which is superior to DIN22258 (DIN standard for short) in performance, 25% higher in strength than DIN standard level 2 quality, and the safety standard certificate is up to date.

02/ Use

The interlocking flat link is suitable for the link between the mine circular ring specified in GB/T1218 and the mine high-strength compact chain specified in MT/T929, and can only be used horizontally.

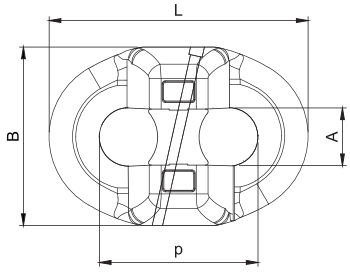
03/ Installation step

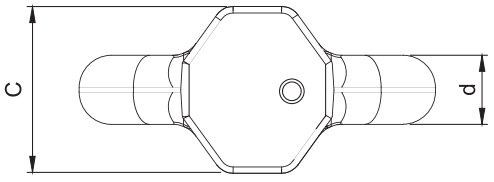
According to the following sequence, assemble the matching two half rings and lock them with matching pins.



04/ Size and performance

Specifications d x p	d(mm)	P(mm)	L(max)	A(min)	B(max)	C(max)	Weight kg	Minimum breaking load (KN)	Minimum cycle number
26x92	26±0.8	92±1.9	148	30	95	65	2.6	850	80000
30x108	30±0.9	108±1.1	170	35	109	75	3.9	1130	
34x126	34±1.0	126±1.3	196	36	120	85	5.9	1450	
38x126	38±1.1	126±1.3	204	43	134	94	7.4	1810	
38x137	38±1.1	137±1.4	215	43	134	94	7.6	1810	
42x146	42±1.3	146±1.5	232	47	148	105	10.8	2220	
48x152	48±1.5	152±1.5	249	54	170	118	14.3	2900	





* The connecting link should be used according to the instructions. If it needs to be used for other chain connections, it should be used after consultation with AID. The fatigue strength conforms to DIN22258 standard and AID standard; Other link sizes can be customized according to customer needs.

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Mining Connecting Link



• V-Lock Vertical Link •

Connecting link · Choose AID
Why AID vertical ring is better?

Technological characteristics

Take a look at the installation tutorial

01 Finite element analysis technology

Simulate geometry and load conditions, and scientifically design types and structures; Analysis and calculation of deformation and stress, excellent mechanical properties; More reliable operation, large bearing capacity, strong self-locking force and uniform stress.

02 High quality German brand alloy steel

Rich in Mn, Ni, Mo and Cr alloy strengthening elements; Super alloys structural steel, high strength and wear resistance; Forging factory was certified by IATF16949:2016 international standard quality system.

03 Semi-ring precise occlusion Super locking force

Precision forging, high-precision CNC machining, CNC high-precision CNC machining center manufacturing, accurate size, stable operation

04 Special heat treatment of straight arm

Optimize mechanical properties
Prevent friction cracks to the greatest extent.

05 Unique "Son-Mother" Combination Design (New Type)

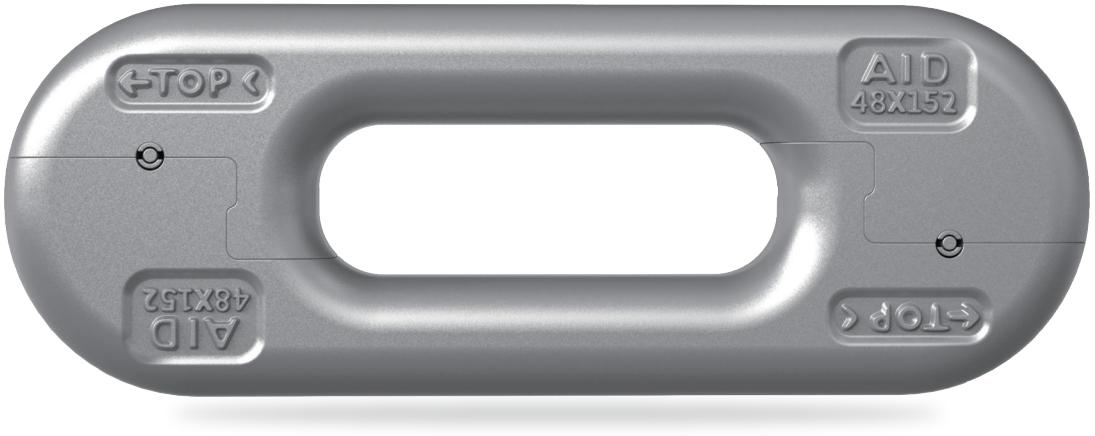
The minimum assembly clearance is achieved and it is easy to assemble and disassemble.

06 Surface multiple anticorrosion technology

In view of the harsh corrosive environment, multiple anti-corrosion treatments are carried out to resist the harsh corrosive environment such as chlorine and oxygen ions.

07 High-strength thickened customized elastic pin (V lock)

It conforms to the international ISO8752 standard and the domestic GB879 standard and has excellent locking performance.



V-Lock Vertical Link

01 / Standard

The product design, manufacture and inspection are based on the standard Q/AID01-2013 Technical Specification for Mining Vertical Link. Its performance is better than DIN22258 (DIN standard for short), its strength is more than 10% higher than DIN standard level 2 quality, and its safety standard certificate is complete..

02 / Use

The V-lock vertical link is suitable for the link between the end and the end of the chain between the mining circular ring specified in GB/T1218 and the mining high-strength chain specified in MT/T929, which can replace the vertical link in flat chain, combined chain and F-class chain and can only be used vertically.

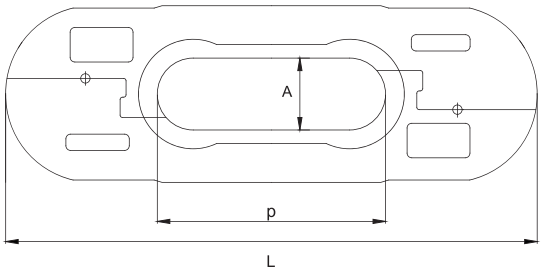
03 / /Installation step

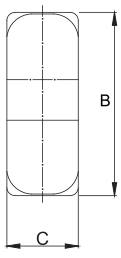
According to the following sequence, assemble the matching two half rings and lock them with matching pins.



04 / Size and performance

Specifications dxp	d(mm)	P(mm)	L(max)	A(min)	B(max)	C(max)	Weight kg	Minimum breaking load (KN)	Minimum cycle number
22x86	22±0.7	86±0.8	185	26	62	25	1.4	680	70000
26x92	26±0.8	92±0.9	213	28	75	28	2.4	850	
30x108	30±0.9	108±1.1	241	32	87	32	3.4	1130	
34x126	34±1.0	126±1.3	292	36	98	36	5.1	1450	
38x126	38±1.1	126±1.3	290	40	110	40	6.3	1810	
38x137	38±1.1	137±1.4	302	40	110	40	6.5	1810	
42x146	42±1.3	146±1.5	330	44	114	44	8.3	2220	
48x144	48±1.5	144±1.6	323	53	127	56	10.2	2900	
48x152	48±1.5	152±1.6	331	53	127	56	10.7	2900	
52x170	52±1.6	170±1.8	373	57	127	64	15.2	3400	
56x187	56±1.7	187±1.8	411	60	131	65	17.3	3940	
60x181	60±1.8	181±1.9	452	64	137	70	20	4520	





* The connecting link should be used according to the instructions. If it needs to be used for other chain connections, it should be used after consultation with AID. The fatigue strength conforms to DIN22258 standard and AID standard; Other link sizes can be customized according to customer needs.



Novel Vertical Connecting Link

01/ Standard

The standards for product design and manufacturing inspection are MT/T99-1997 Flat Link for Mining Circular Chain MT/T463-1995 Inspection Specification for Flat Link for Mining Circular Chain MAJY06-059-09 Sampling Inspection Specification for Safety Signs of Mining Circular Chain, and the performance is much higher than the requirements of DIN 2258 Part 3.

02/ Use

The new link is suitable for underground scraper conveyor, mine circular chain and mine high flat chain design specified in MT/T929. It is used as vertical link and can only be used vertically.

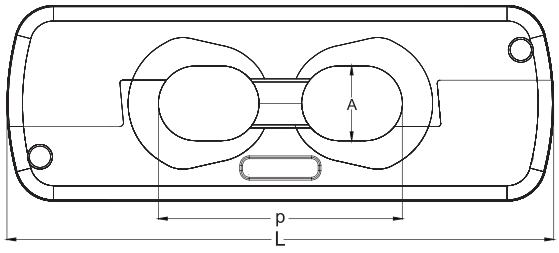
03/ /Installation step

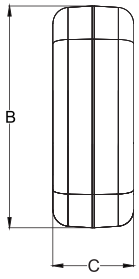
According to the following sequence, assemble the matching two half rings and lock them with matching pins.



04/ Size and performance

Specifications dxp	d(mm)	P(mm)	L(max)	A(min)	B(max)	C(max)	Weight kg	Minimum breaking load (KN)	Minimum cycle number
42X146	42±1.3	146±1.5	341	45	115	46	8.3	2220	70000
48X152	48±1.5	152±1.6	342	51	127	56	10.7	2900	
56X187	56±1.7	187±1.8	411	60	131	65	17.3	3940	





* The connecting link should be used according to the instructions. If it needs to be used for other chain connections, it should be used after consultation with AID. The fatigue strength conforms to DIN22258 standard and AID standard; Other link sizes can be customized according to customer needs.

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• Flat Link •

Connecting link · Choose AID
Why AID's flat ring is better?

Technological characteristics

Take a look at the installation tutorial

01 Finite element analysis technology

Simulate geometry and load conditions, and scientifically design types and structures; Analysis and calculation of deformation and stress, excellent mechanical properties; The operation is more reliable; Large bearing capacity, strong self-locking force and uniform stress.

02 High quality German brand alloy steel

Rich in Mn, Ni, Mo and Cr alloy strengthening elements; Super alloys structural steel, high strength and wear resistance; Forging factory was certified by IATF16949:2016 international standard quality system.

03 AID-DTT differential thermal treatment technology

AID-DTT (Differential thermal treatment) differential thermal treatment technology, carefully designed process route, strictly controlled the sequence change, the internal structure of the material achieved ideal transformation.

04 AID-R · ARC and radian design (arc tooth ring)

Larger contact area, stronger bearing tension.

05 AID-R · ARC-MT Proprietary equipment processing (arc tooth ring)

AID engineers develop and produce proprietary equipment according to the design of AID-R · ARC. Unique radian, precise size and precise bite.

06 Scientific center marketing design (arc tooth ring)

Self-expanding function, working tension, the more you pull, the tighter you lock.

07 Semi-ring precise occlusion Super locking force (serrated ring)

Precision forging, high-precision wire cutting, accurate tooth profile, convenient disassembly and assembly



Flat arc tooth type link

01 / Standard

The product design, manufacture and inspection are based on the standards of MT/T99-1997 Inspection Specification for Flat Link Used in Mining Circular Chain and MAJY06-059-09 Sampling Inspection Specification for Safety Signs of Flat Link Used in Mining Circular Chain, which are superior to DIN22258 standard in performance and complete in safety standard certificate.

02 / Use

The flat arc tooth type connecting link is suitable for the connection between the mining circular chain and the chain of the slag remover specified in GB/T1218 of coal mine scraper. It can be used vertically or horizontally.

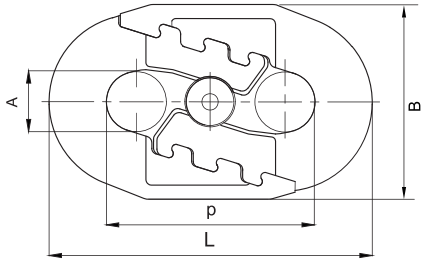
03 / /Installation step

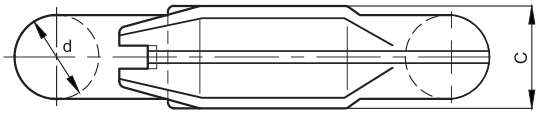
According to the following sequence, assemble the matching two half rings and lock them with matching pins.



04 / Size and performance

Specifications d x p	d(mm)	P(mm)	L(max)	A(min)	B(max)	C(max)	Weight kg	Minimum breaking load (KN)	Minimum cycle number
22x86	22±0.7	86±0.9	132	24	85	27	1.3	550	70000
26x92	26±0.8	92±0.9	146	28	97	33	2.0	770	
30x108	30±0.9	108±1.1	170	32	109	36	2.8	1020	
34x126	34±1.0	126±1.3	196	36	121	41	4.1	1300	
38x137	38±1.1	137±1.4	215	40	134	46	5.6	1630	
42x146	42±1.3	146±1.5	232	44	150	51	7.5	2000	
42x152	42±1.3	152±1.5	238	44	150	51	7.8	2000	





* The connecting link should be used according to the instructions. If it needs to be used for other chain connections, it should be used after consultation with AID. The fatigue strength conforms to DIN22258 standard and AID standard; Other link sizes can be customized according to customer needs.



Flat Serrated Link

01 / Standard

The product design, manufacture and inspection are based on the standards of MT/T99-1997 Flat Link for Mining Circular Chain, MT/T463-1995 Inspection Specification for Flat Link for Mining Circular Chain and MAJYO6-059-09 Sampling Inspection Specification for Safety Signs of Mining Circular Chain, and the performance is better than DIN22258.

02 / Use

The flat saw-tooth link is suitable for the connection between mining circular chains specified in GB/T1218 for scraper conveyors, reprint machines and plough machines in coal mines, and also suitable for the connection between chains of fishing machines, slag scrapers and slag removers in power plants. It can be used vertically or horizontally.

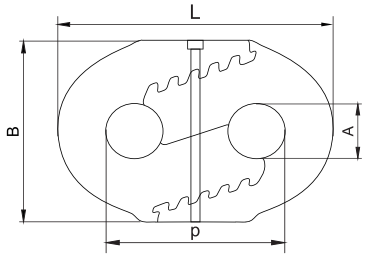
03/ Installation step

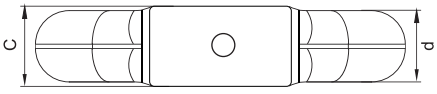
According to the following sequence, assemble the matching two half rings and lock them with matching pins.



04/ Size and performance

Specifications d x p	d(mm)	P(mm)	L(max)	A(min)	B(max)	C(max)	Weight kg	Minimum breaking load (KN)	Minimum cycle number
18x64	18±0.5	64±0.6	102	20	66	23	0.7	410	40000
22x86	22±0.7	86±0.9	132	24	85	27	1.3	550	
26x92	26±0.8	92±0.9	146	28	97	33	2.1	770	
30x108	30±0.9	108±1.1	170	32	109	36	3.0	1020	
34x126	34±1.0	126±1.3	196	36	121	41	4.4	1300	





* The connecting link should be used according to the instructions. If it needs to be used for other chain connections, it should be used after consultation with AID. The fatigue strength conforms to DIN22258 standard and AID standard; Other link sizes can be customized according to customer needs.

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Connecting links for power plants and chemical plants



• Carburized Link •

Connecting link · Choose AID
Why AID carburized link is better?

Technological characteristics

Take a look at the installation tutorial

01
High-quality low-carbon alloy structure carburized steel

The carbon content is less than 0.25%
Excellent toughness and plasticity

02
Gas carburizing process

The carbon content in the surface layer is improved, and the surface has high carbon content, high hardness and high wear resistance. The surface hardness is above HV800, and the carburizing thickness is 2.5 mm. The product has good wear resistance and toughness.

03
Surface multiple anticorrosion technology

In view of the harsh corrosive environment, multiple anti-corrosion treatments are carried out to resist the harsh corrosive environment such as chlorine and oxygen ions.

04
AID-R · ARC and radian design (arc tooth ring)

Larger contact area, stronger bearing tension.

05
AID-R · ARC-MT proprietary equipment processing (arc tooth ring)

AID engineer develops proprietary equipment according to the design of AID-R · ARC, with unique radian, precise size and precise bite.

06
Design of scientific center pin (arc tooth ring)

Self-expanding function, working tension, the more you pull, the tighter you lock.

07
Semi-ring precise occlusion Super locking force (serrated ring)

Precision forging, high-precision wire cutting, accurate tooth profile, convenient disassembly and assembly.



Carburized Flat Arc Tooth Type Link

01 / Standard

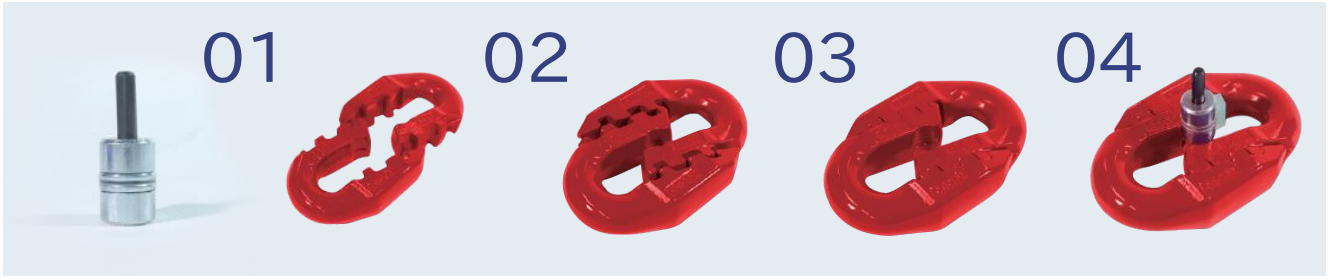
The standards for product design and manufacturing inspection are MT/T99-1997 Flat Link for Mining Circular Chain, MT/T463- 1995 Inspection Specification for Flat Link for Mining Circular Chain and MAJY06-059-09 Sampling Inspection Specification for Safety Signs of Flat Link for Mining Circular Chain. The performance meets the requirements of DIN22258.

02 / Use

Carburized flat arc tooth type link is suitable for connecting the chains of slag scraper, slag scraper and slag remover in power plant. It can be used vertically or horizontally.

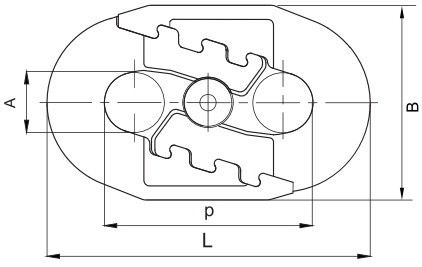
03/ Installation step

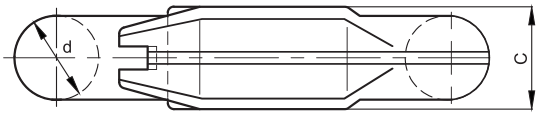
According to the following sequence, assemble the matching two half rings and lock them with matching pins.



04/ Size and performance

Specifications d x p	d(mm)	P(mm)	L(max)	A(min)	B(max)	C(max)	Weight kg	Minimum breaking load (KN)	Minimum cycle number
22x86	22±0.7	86±0.9	132	24	85	27	1.3	300	70000
26x92	26±0.8	92±0.9	146	28	97	33	2.0	420	
30x108	30±0.9	108±1.1	170	32	109	36	2.8	560	
34x126	34±1.0	126±1.3	196	36	121	41	4.1	720	





* The connecting link should be used according to the instructions. If it needs to be used for other chain connections, it should be used after consultation with AID. The fatigue strength conforms to DIN22258 standard and AID standard; Other link sizes can be customized according to customer needs.



Carburized Flat Serrated Link

01 / Standard

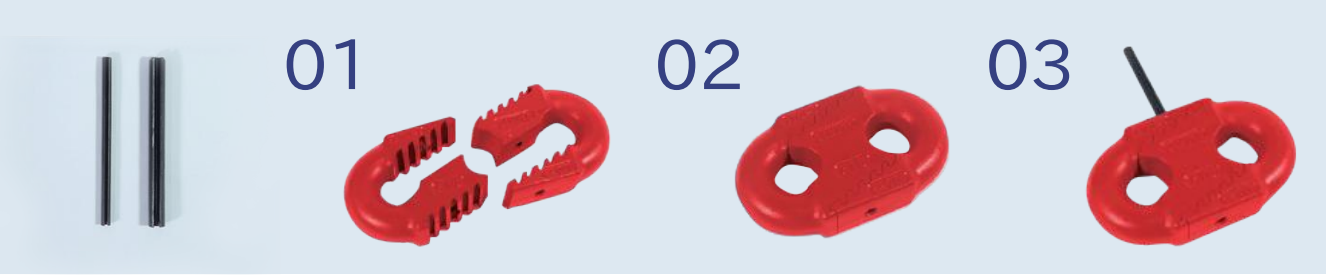
The standards on which the product design and manufacturing inspection are based are MT/T99-1997 Flat Link for Mining Circular Chain, MT/T463-1995 Inspection Specification for Flat Link for Mining Circular Chain, MAJY06-059-09 Sampling Inspection Specification for Safety Signs for Mining Circular Chain, and their performance meets the requirements of DIN22258.

02 / Use

Carburized flat serrated link is suitable for connecting the chains of slag scraper, slag scraper and slag remover in power plant. It can be used vertically or horizontally.

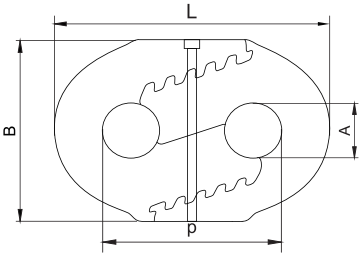
03 / /Installation step

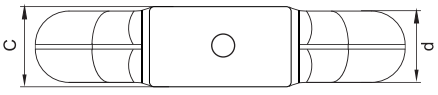
According to the following sequence, assemble the matching two half rings and lock them with matching pins.



04 / Size and performance

Specifications d x p	d(mm)	P(mm)	L(max)	A(min)	B(max)	C(max)	Weight kg	Minimum breaking load (KN)	Minimum cycle number
22x86	22±0.7	86±0.9	132	24	85	27	1.3	300	40000
26x92	26±0.8	92±0.9	146	28	97	33	2.1	420	
30x108	30±0.9	108±1.1	170	32	109	36	3.0	560	
34x126	34±1.0	126±1.3	196	36	121	41	4.4	720	





* The connecting link should be used according to the instructions. If it needs to be used for other chain connections, it should be used after consultation with AID. The fatigue strength conforms to DIN22258 standard and AID standard; Other link sizes can be customized according to customer needs.

01 / Working environment

≤ 95 %rh

Average relative humidity

≤ 75 dB(A)

Environmental noise condition



CH4

Underground coal mine with explosive mixture of methane and coal dust

≤ 2000 m

Altitude

80-106 kPa

Atmospheric pressure range

Build a dream for AI
D is far-reaching

02 / Service support

- Sufficient inventory guarantee to meet the needs of batch orders and emergency orders.
- Large-scale logistics companies cooperate for a long time, and the distribution is fast and efficient.
- Closed outer packaging, independent inner packaging, and the packaging barrel is firm, beautiful and convenient to carry.
- The distribution shall be accompanied by Certificate of Conformity, Product Instruction and Factory Inspection Report.
- Provide users with all-round technical support and services before, during and after sale.
- Professional technical service engineers, 7×24 hours.
- Arrive at the designated place in China within 24 hours after receiving the notice.

03 / Matters need attention

- Install and disassemble the link in strict accordance with the requirements, and it is strictly forbidden for non-professionals to operate.
- Ensure the cleanliness of the installation surface and contact surface of the link;
- Use AID to match standard fasteners, and ensure that all fasteners are inserted;
- The service load and service life shall be within the range specified in the mechanical performance table of the connecting link.
- Check once every three months, or complete the inspection of 1 million tons of coal.
  (If it is used for loaders, it needs to be checked once a month)

Connecting link · Choose AID

User case

01 /

Liupanshui Coal Mine, Guizhou



In a coal mine in Liupanshui, Guizhou, the link has always relied on imports and is exclusively supplied by a foreign brand; However, in recent years, the coal mine has implemented the cost-cutting strategy, and the expensive imported arc-toothed ring is no longer the first choice for procurement. The large-scale arc-toothed ring independently developed and produced by AID has entered the procurement candidate list of this coal mine with its strong wear resistance and high hardness. It can be used instead of imported products, and has higher cost performance compared with it.The relevant person in charge of the coal mine said that compared with other brands, AID technicians are more timely, efficient and professional in dealing with problems, and naturally more worthy of cooperation.

QUALITY OF WORKMANSHIP

02 /

A coal mine in Datong, Shanxi



A coal mine in Datong, Shanxi, has been using other domestic brands of connecting links, and the wear failure is very common.The high-end mining link produced by Shandong AID adopts high-quality alloy steel, and adopts patent-grade design scheme in structural design, which makes the stress more uniform and can reduce wear in the worst working environment.After the cooperation in this coal mine, Shandong AID supplied the first batch of 30 48*152 high-end vertical connecting links, which had good use effect and stable and safe operation, which not only saved the procurement cost, but also improved the underground transportation efficiency and the overall economic benefits of the coal mine.

Endorsement of some enterprises in the top 50 coal enterprises.

And maintain long-term and good cooperative relations with many large coal industry groups in China.

晋能控股 JINNENG HOLDING
中煤集团
西山煤电 XISHAN COAL ELECTRICITY
兖矿集团 YANKUANG GROUP
汇能集团 HUINENG CNOUP
华能煤业
中国华电 CHD
济矿集团 JIKUANGGROUP
陕西煤化
盘江集团 PANJIANG GROUP
龙煤矿业 LongMay
鲁西化工 LUXI CHEMICAL CORP.

AID's chain links are exported at home and abroad. We have long-term cooperation with many large coal groups in China, including Shaanxi Coal Group, Yankuang Energy, LONGMAY Group, China National Coal Group, Huineng Group, Xishan Coal Electricity, Panjiang Coal and Electricity, Luxi Chemical Corp., Jikuang Group, Huaneng Coal Industry, Jinneng Holding, CHD and so on. Over the years, we have maintained long-term cooperative relations. Our cooperative enterprises are all over the country, and the products are small, but they have been realized. Because of our comprehensive advantages, our quality, service and reputation have been unanimously recognized by users.

Distribution · Agency

Partnership Cooperation

Channel

- **Dealer**: Fixed-point authorization
- **Agent**: Group authorization, regional authorization

preferential policy	Exclusive authorization	After-sales support	Quality assurance	Flow support

Maximize the protection of the interests of dealers and agents !



Shandong AID attaches great importance to channel development and vigorously develops distributors and agents.
The company implements competitive channel policies, vigorously supports channel partners to explore the market, protects the interests of channel providers, and achieves win-win cooperation.
From dealers to agents, partnership cooperation-cultivation, development, trust, hand in hand, strong alliance, create good results, broad market, and make great achievements.

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