



Binmu CO., Ltd.
GERMAN QUALITY
SINCE 2003

苏州宾姆金属科技有限公司
suzhou metal(BIM)technology co.,ltd.

WE GROW WITH YOU



binmu CO.,Ltd.
GERMAN QUALITY
SINCE2003

CUSTOMERS & SEGMENTS

OUR CUSTOMER

- ◆ Engineering owner
- ◆ Construction unit
- ◆ Production factory
- ◆ Design Institute
- ◆ Supervision unit

OUR FIELD

- ◆ Industrial plants
- ◆ Traffic facilities
- ◆ Infrastructure
- ◆ Commercial Buildings
- ◆ Chemistry and chemical engineering
- ◆ Energy



INSTALLATION SYSTEMS

<p>Art.No.84112233</p>  <p>BM-21-82</p>	<p>Art.No.58113130</p>  <p>BM-T21-82</p>	<p>Art.No.38012101</p>  <p>BM-002</p>	<p>Art.No.38012102</p>  <p>BM-001</p>
<p>Art.No.38012103</p>  <p>BM-005</p>	<p>Art.No.38012104</p>  <p>BM-006</p>	<p>Art.No.38012109</p>  <p>BM-007</p>	<p>Art.No.38012105</p>  <p>BM-004</p>
<p>Art.No.80020102</p>  <p>BM-003A</p>	<p>Art.No.80020106</p>  <p>BM-011A</p>	<p>Art.No.80040103</p>  <p>BM-019 A-3D</p>	<p>Art.No.80040104</p>  <p>BM-014</p>
<p>Art.No.80040105</p>  <p>BM-008</p>	<p>Art.No.80050102</p>  <p>BM-010</p>	<p>Art.No.38012807</p>  <p>BM-056</p>	<p>Art.No.80040102</p>  <p>BM-052</p>
<p>货号: 80020103</p>  <p>BM-011</p>	<p>货号: 80020105</p>  <p>BM-012</p>	<p>货号: 80020106</p>  <p>BM-13</p>	<p>货号: 80030101</p>  <p>BM-050</p>

PRODUCT LIST

Art.No.80040102



BM-019 B-3D

Art.No.80040106



BM-036

Art.No.50010101-15



BM-022

Art.No.60010101



BMK-2005

Art.No.60010102



BMK-2006

Art.No.60010103



BMK-2003

Art.No.60010104



BMK-2004

Art.No.60010110



BMK-2010

Art.No.60020101



BMK-2012

Art.No.60030101



BMK-2011

Art.No.60040101



BMK-022

Art.No.60050101



Art.No.60010107



BMK-2007

Art.No.38012111



BMK-2008

Art.No.80070101



BM-026

Art.No.50010101-13



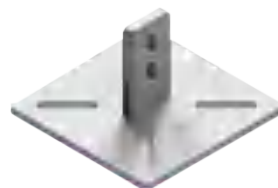
BM-021

Art.No.80031226



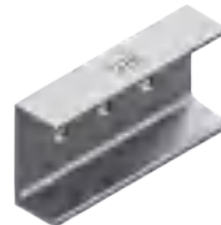
BM-3014

Art.No.80031225



BM-3003

Art.No.80030103



BM-3001

Art.No.80030101



BM-3002

INSTALLATION SYSTEMS

Art.No.80030102



BM-062

Art.No.80030104



BM-063

Art.No.80030203



BM-061

Art.No.80030107



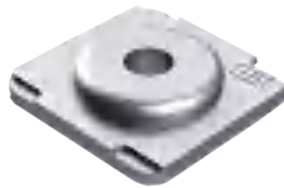
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Art.No.80060141



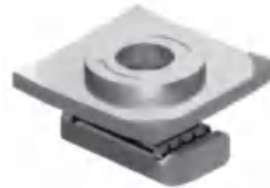
BM-009

Art.No.70030101



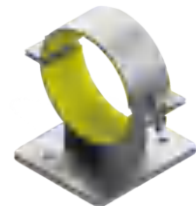
BM-17

Art.No.70030106



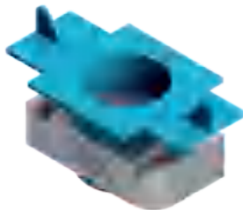
BM-016

Art.No.80031227



BM-3002

Art.No.70020101-3



BM-015-8-12

Art.No.70020106



Spring Nut

Art.No.50030101-17



BM-020

Art.No.50050101-17



BM-023

Art.No.80020104



BM-025

Art.No.90030104



Outer hexagon bolt

Art.No.90040103



Flange Nut

Art.No.90050103



BM-G06

Art.No.99881003



BM-G01

Art.No.99881006



BM-G02

Art.No.90010402

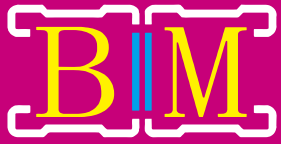


Section steel end cap

Art.No.90010407



BM-060/061 Hard steel



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BM Channel steel products



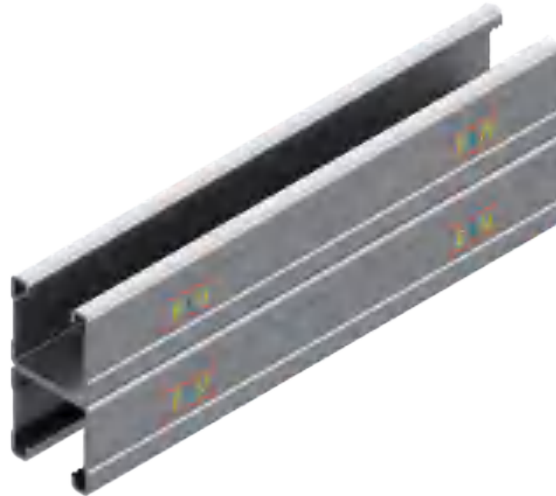
Single Rapidstrut Fixing Rails



Features and Advantages

- Novel axial stiffening rib design increases the flexural capacity of the C-channel steel
- C-channel steel curling edge with sawtooth, effective shear resistance, anti-slip, impact resistance, and can be well connected with BM channel steel accessories
- Auxiliary gauge length is eng
- Quickly and efficiently combine with steel structures, concrete structures or other structures into various forms of support and hanger systems
- Fast and convenient pipe fixing, perfect air pipe and bridge support and other process installation
- All special accessories and C-channel steel can be matched freely and used safely
- C-channel steel includes two types: no hole and hole, with multiple choices
- Material: Processing and production of cold-rolled galvanized sheet;
Manufactured according to DIN EN 10326
- FGalvanized: Galvanized sheet, Single-sided zinc layer thickness 20 μ m(275g/m)
- Ppitch of holes: 50mm 12.5 \times 28hole /100mm 13.5 \times 63hole

PRODUCT NAME (Single RapidStrut Fixing Rails)	PRODUCT NUMBER	WALL THICKNESS	SECTION HEIGHT	WEIGHT	STANDARD LENGTH
		mm	mm	kg/m	m
BM-21	84112232	2.0/2.5	21	1.672/2.406	6
BM-41	84112233	2.0/2.5	41	2.352/3.306	6
BM-52	84112236	2.5/2.75	52	3.434/3.9	6
BM-62	84112237	2.5/2.75	62	3.631/4.801	6
BM-72	84112242	2.5/2.75	72	4.515/5.029	6
BM-82	84112243	2.75	82	5.336	6

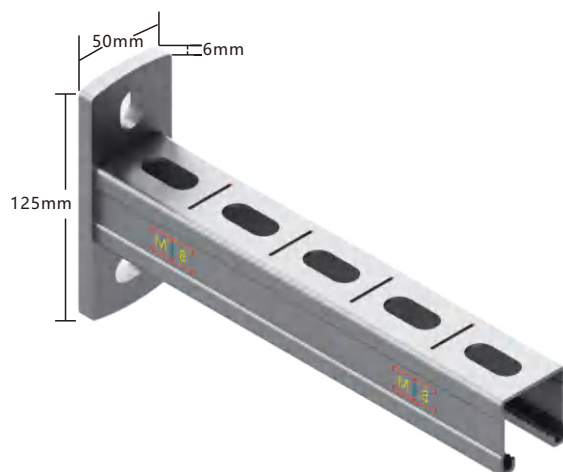


Features and Advantages

- Novel axial stiffening rib design increases the flexural capacity of the C-channel steel
- C-channel steel curling edge with sawtooth, effective shear resistance, anti-slip, impact resistance, and can be well connected with BM channel steel accessories
- Auxiliary gauge length is engraved on the surface of C-channel steel, which is convenient for on-site processing during installation.
- Bar-shaped mounting holes on the back, easy to adjust and install
- Galvanized surface treatment, no need for post-maintenance
- Nice appearance
- Quickly and efficiently combine with steel structures, concrete structures or other structures into various forms of support and hanger systems
- Fast and convenient pipe fixing, perfect air pipe and bridge support and other process installation
- All special accessories and C-channel steel can be matched freely and used safely
- C-channel steel includes two types: no hole and hole, with multiple choices
- Material: Processing and production of cold-rolled galvanized sheet;
Manufactured according to DIN EN 10326
- FGalvanized: Galvanized sheet, Single-sided zinc layer thickness 20 μ m(275g/m)

PRODUCT NAME (Single RapidStrut Fixing Rails)	PRODUCT NUMBER	WALL THICKNESS	SECTION HEIGHT	WEIGHT	STANDARD LENGTH
		mm	mm	kg/m	m
BM-21D	84212130	2.5	41	4.812	6
BM-41D	84212131	2.0/2.5	82	4.704/6.612	6
BM-52D	84212142	2.5/2.75	124	6.868/7.8	6
BM-62D	84212143	2.5/2.75	144	7.262/9.602	6

BM Single RapidStrut Cantilever Arms



Features and Advantages

- The base CO₂ welding is strong to ensure high load capacity; the oval hole design is convenient for adjustment during installation
- Different lengths meet actual working conditions
- Novel axial stiffening rib design increases the bending resistance of the corbel
- The edge of the corbel is serrated, which is effective in resisting shearing, anti-slip and impact resistance, and can be well connected with BM channel steel fittings
- Auxiliary gauge length is engraved on the surface of the corbel, which is convenient for on-site processing during installation
- Strip-type mounting holes on the back, easy to adjust and install

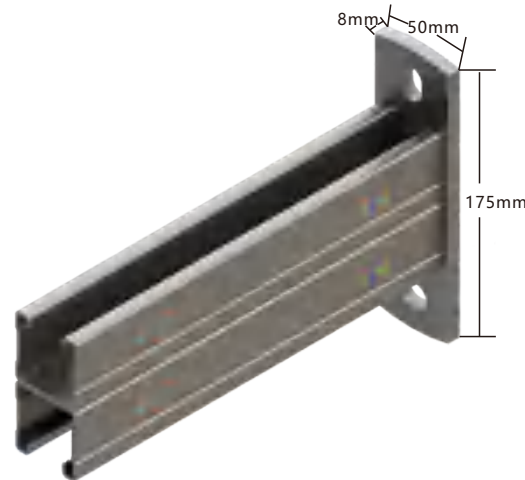
- Ideal multi - pipe corbel support structure
- It can be made into a beam to support air pipe, cable or bridge, etc
- Solid and reliable wall support



- Material: Channel steel produced according to DIN EN 10326
- Galvanized: Electrogalvanized, **Fe/Zn13μm**

■ Remark: When the length of the corbel is greater than 500mm or when resisting the vibration load of the pipeline, it is recommended to add diagonal support.

PRODUCT NAME (BM Single RapidStrut Cantilever Arms)	PRODUCT NUMBER	CANTILEVER SECTION	WALL LENGTH	WEIGHT	PACKAGING QUANTITY
			mm	kg/pcs	pcs
M-41/300	58113130	BM-41	300	0.95	10
BM-41/450	58113131	BM-41	450	1.28	10
BM-41/600	58113133	BM-41	600	1.61	10
BM-52/450	58113141	BM-52	450	1.76	6
BM-52/600	58113142	BM-52	600	2.24	6
BM-72/450	58113161	BM-72	450	2.5	6
BM-72/600	58113162	BM-72	600	3.15	6



Features and Advantages

- The base CO₂ welding is strong to ensure high load capacity; the oval hole design is convenient for adjustment during installation
 - Different lengths meet actual working conditions
 - Novel axial stiffening rib design increases the bending resistance of the corbel
 - The edge of the corbel is serrated, which is effective in resisting shearing, anti-slip and impact resistance, and can be well connected with BM channel steel fittings
 - Auxiliary gauge length is engraved on the surface of the corbel, which is convenient for on-site processing during installation
 - Strip-type mounting holes on the back, easy to adjust and install
- Ideal multi - pipe corbel support structure
 - It can be made into a beam to support air pipe, cable or bridge, etc
 - Solid and reliable wall support
- 1

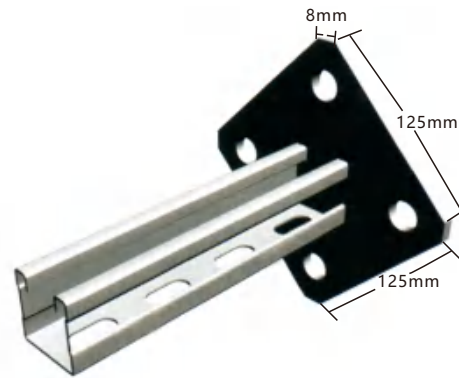
2

3
- Material: Channel steel produced according to DIN EN 10326
 - Galvanized: Electrogalvanized, **Fe/Zn13**μm
 - Remark: When the length of the corbel is greater than 500mm or when resisting the vibration load of the pipeline, it is recommended to add diagonal support.

PRODUCT NAME (BM Double RapidStrut Cantilever Arms)	PRODUCT NUMBER	CANTILEVER SECTION	WALL LENGTH	WEIGHT	PACKAGING QUANTITY
			mm	kg/pcs	pcs
BM-41D/300	58113134	BM-21D	300	1.87	10
BM-41D/450	58113135	BM-21D	450	2.53	10
BM-41D/600	58113136	BM-21D	600	3.2	10
BM-41D/1000	58113137	BM-41D	1000	4.95	6

BM Single RapidStrut Cantilever Arms

Features and Advantages



- The square base is welded firmly to ensure high load capacity; The oval hole on the base ensures installation adjustment and avoids drilling error.
- The edge of the corbel is serrated, which is effective in resisting shearing, anti-slip and impact resistance, and can be well connected with BM channel steel fittings
- It can be made into a beam to support air pipe, cable or bridge, etc
- Material: Channel steel produced according to DIN EN 10326
- Bottom sheet: Manufactured according to DIN EN 10025 ■ Galvanized: Electrogalvanized, Fe/Zn13 μ m

PRODUCT NAME (BM Single RapidStrut Cantilever Arms)	PRODUCT NUMBER	CANTILEVER SECTION	WALL LENGTH	WEIGHT	PACKAGING QUANTITY
			mm	kg/pcs	pcs
BM-41/600/4	58113172	BM-41	600	2.62	10
BM-41/1000/4	58113175	BM-41	1000	3.71	10

BM Rapil Prop

Features and Advantages



- CO₂ welding, suitable for 45° support ■ Used for wall and column cantilever support installation
- When installing pipes on the corbel, especially thermal pipes, it is necessary to resist axial stress by diagonal bracing to prevent the failure of the support system
- When installing diagonal braces, it is recommended to use anchor bolts and special channel steel accessories, and install them axially or diagonally according to the actual working conditions.
- Material: S235JR, Manufactured according to DIN EN 10025
- Material width: 40mm / Material thickness: 4mm ■ Galvanized: Electrogalvanized, Fe/Zn13 μ m

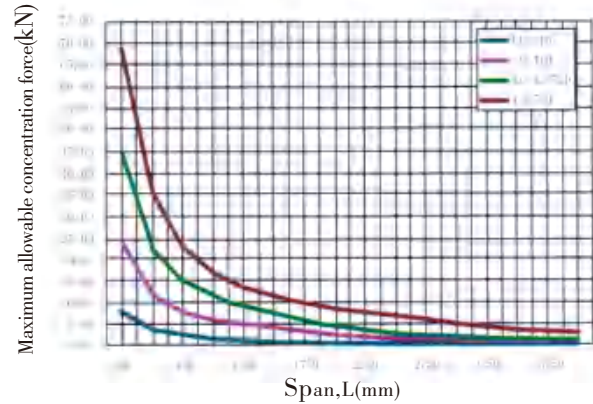
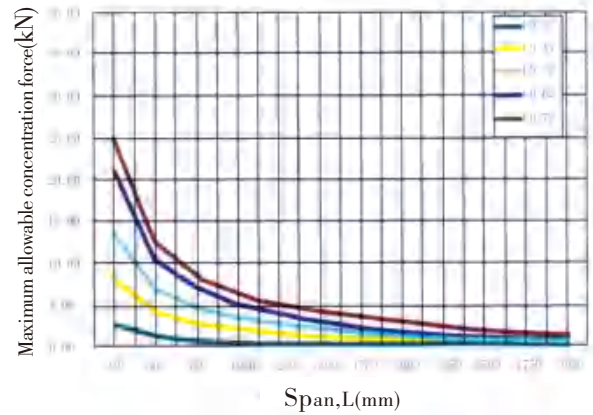
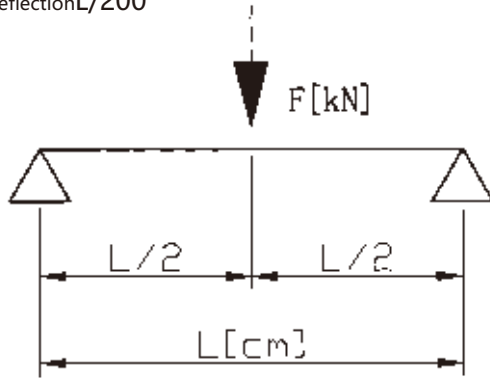
PRODUCT NAME (BM Rapil Prop)	PRODUCT NUMBER	a	kg/pcs
			pcs
BM-SXC	58113200	45°	10

TECHNICAL	CHANNEL SECTIONS									
Definition of axes 										
	BM-21	BM-41	BM-52	BM-62	BM-72	BM-21D	BM-41D	BM-52-72D	BM-72D	
Wall thickness t[mm]	2.0000	2.0000	2.5000	2.5000	2.7500	2.0000	2.0000	2.5/2.75	2.7500	
Sectional area A[mm ²]	166.2	246.7	356.9	414.3	506.8	332.4	493.4	86/7	1013.6	
Weight [kg/m]	1.662	2.342	3.297	3.6	4.505	3.32	4.683	7.802	9.009	
Standard Length [m]	3/6	3/6	3/6	3/6	3/6	3/6	3/6	3/6	3/6	
Mechanical behavior										
Yield Strength [N/mm ²]	235.0000	235.0000	235.0000	235.0000	235.0000	235.0000	235.0000	235.0000	235.0000	
Design value of tensile, compressive, flexural strength [N/mm ²]	205.0000	205.0000	205.0000	205.0000	205.0000	205.0000	205.0000	205.0000	205.0000	
Design value of shear strength [N/mm ²]	120.0000	120.0000	120.0000	120.0000	120.0000	120.0000	120.0000	120.0000	120.0000	
Elastic Modulus [N/mm ²]	210000 .0000	210000 .0000	210000 .0000	210000 .0000	210000 .0000	210000 .0000	210000 .0000	210000 .0000	210000 .0000	210000 .0000
Shear modulus [N/mm ²]	810000 .0000	810000 .0000	810000 .0000	810000 .0000	810000 .0000	810000 .0000	810000 .0000	810000 .0000	810000 .0000	810000 .0000
Surface treatment										
Passivated galvanized 275g/m ² <= 20micron	•	•	•	•	•	•	•	•	•	
Section data										
Y axis										
Distance from notc e1[mm]	10.8425	21.0812	26.5721	31.5584	36.6436	20.6000	41.3000	62.0519	72.0000	
Distance from groove back e2[mm]	-9.7575	-20.2188	-25.4279	-30.4416	-35.3564	-20.6000	-41.3000	-61.9481	-72.0000	
Distance from shear axis Zm(A of G) [mm]	-20.5000	40.0000	-51.8000	-61.7580	-71.1000	0.0000	0.0000	-20.4000	0.0000	
Moment of inertia Iy[cm ⁴]	0.9575	5.5808	11.8340	18.6580	29.6984	5.2646	32.3072	120.8188	188.2736	
Section modulus Wy1[cm ³]	0.8831	2,6473	4.4535	5.9122	8.1047	2.5557	7.8226	19.4706	26.1491	
Opening downwards Wy2[cm ³]	0.9813	2.7602	4.6539	6.1291	8.3997	2.5557	7.8226	19.5032	26.1491	
Radius of gyration iy[cm]	0.7378	1.4690	1.7941	2.1136	2.4003	1.2233	2.4992	3.6988	4.2734	
Allowable bending moment My[Nm]	172.2043	499.0101	868.4410	1133.6668	1527.7282	498.3527	1474.5547	3670.2079	4929.1073	
Z axis										
Moment of inertia Iz[cm ⁴]	4.6272	7.6806	11.1749	13.0593	15.9046	9.2544	15.3611	27.0795	31.8092	
Section modulus Wz1[cm ³]	2.31	3.81	5.54	6.48	7.89	4.59	7.62	13.43	15.76	
Resistance moment Wz[cm ³]	2.2964	3.8117	5.5458	6.4810	7.8931	4.5927	7.6234	13.4389	15.7862	
Revolving half-sum play Iz[cm]	1.6219	1.7233	1.7434	1.7683	1.7565	1.6219	1.7233	1.7511	1.7565	

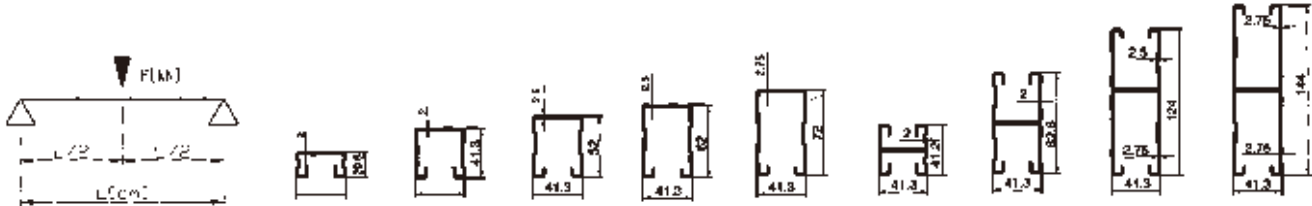
BM Single RapidStrut Cantilever Arms

The bearing capacity value is calculated according to the allowable stress of channel steel, σ_{zul}

(According to the technical data of channel steel cross section), deflection $L/200$



Single span simply supported
Mid-span concentrated load simply supported



Maximum load, F(kN)/Deflection, f(mm)																		
SPAN	BM-21		BM-41		BM-52		BM-62		BM-72		BM-21D		BM-41D		BM-52-72D		BM-72D	
	F(kN) max.	f(mm) L/200	F(kN) max.	f(mm) L/200	F(kN) max.	f(mm) L/200	F(kN) max.	f(mm) L/200	F(kN) max.	f(mm) L/200	F(kN) max.	f(mm) L/200	F(kN) max.	f(mm) L/200	F(kN) max.	f(mm) L/200	F(kN) max.	f(mm) L/200
250	2.72	0.54	8.13	0.28	13.70	0.23	20.90	0.22	24.96	0.17	7.74	0.33	23.78	0.17	29.78	0.19	68.57	0.08
500	1.36	2.16	4.06	1.13	6.85	0.91	10.45	0.89	12.48	0.66	3.87	1.32	11.89	0.66	14.89	0.75	34.28	0.32
750	0.70	3.75	2.71	2.54	4.57	2.04	6.97	2.00	8.32	1.49	2.58	2.97	7.93	1.49	9.93	1.69	22.86	0.73
1000	0.39	5.00	2.03	4.53	3.42	3.63	5.22	3.56	6.24	2.65	1.66	5.00	5.94	2.65	7.44	3.01	17.14	1.29
1250	0.25	6.25	1.44	6.25	2.74	5.67	4.18	5.57	4.99	4.14	1.06	6.25	4.76	4.14	5.96	4.70	13.71	2.02
1500	0.18	7.50	1.00	7.50	2.10	7.50	2.96	7.50	4.16	5.94	0.74	7.50	3.96	5.96	4.96	6.77	11.43	2.91
1750	0.13	8.75	0.73	8.75	1.54	8.75	2.18	8.75	3.57	8.12	0.54	8.75	3.33	8.75	4.41	8.75	9.80	3.96
2000	0.10	10.00	0.56	10.00	1.18	10.00	1.67	10.00	2.94	10.00	0.42	10.00	2.55	10.00	3.37	10.00	8.57	5.17
2250	0.08	11.25	0.44	11.25	0.93	11.25	1.32	11.25	2.32	11.25	0.33	11.25	2.02	11.25	2.67	11.25	7.62	6.55
2500	0.06	12.50	0.36	12.50	0.76	12.50	1.07	12.50	1.88	12.50	0.27	12.50	1.63	12.50	2.16	12.50	6.86	8.08
2750	0.05	13.75	0.30	13.75	0.62	13.75	0.88	13.75	1.56	13.75	0.22	13.75	1.35	13.75	1.79	13.75	5.98	13.75
3000	0.04	15.00	0.25	15.00	0.52	15.00	0.74	15.00	1.31	15.00	0.18	15.00	1.13	15.00	1.50	15.00	5.02	15.00
3250	0.04	16.25	0.21	16.25	0.45	16.25	0.63	16.25	1.11	16.25	0.16	16.25	0.97	16.25	1.28	16.25	4.28	16.25
3500	0.03	17.50	0.18	17.50	0.39	17.50	0.54	17.50	0.96	17.50	0.14	17.50	0.83	17.50	1.10	17.50	3.69	17.50
3750	0.03	18.75	0.16	18.75	0.34	18.75	0.47	18.75	0.84	18.75	0.12	18.75	0.73	18.75	0.96	18.75	3.21	18.75
4000	0.02	20.00	0.14	20.00	0.30	20.00	0.42	20.00	0.74	20.00	0.10	20.00	0.64	20.00	0.84	20.00	2.82	20.00

Corbel Bearing Capacity Table

CORBEL MODEL	L(mm)	Load type1: uniform distribution $F1=q \cdot L$ $F1[N]$	Load type2: Concentration $\frac{1}{2} \uparrow \frac{1}{2}$ $F1[N]$	Load type3: $F1[N]$	Load type4: $F2, F3$ $\frac{1}{3} \uparrow \frac{1}{3} \uparrow \frac{1}{3}$ $F2[N]$	Load type5: $F3, F3, F3$ $\frac{1}{4} \uparrow \frac{1}{4} \uparrow \frac{1}{4} \uparrow \frac{1}{4}$ $F3[N]$
BM-21/30	300	894	894	335	447	298
BM-21/450	350	397	477	149	223	144
BM-41/300	300	2680	2680	1340	1340	893
BM-41/450	450	1787	1787	868	893	596
BM-41/600	600	1302	1340	488	670	447
BM-41/1000	1000	469	563	176	264	170
BM-52/450	450	3006	3006	1503	1503	1002
BM-52/600	600	2254	2254	1035	1127	751
BM-72/450	450	5470	5470	2735	2735	1823
BM-72/600	600	4102	4102	2051	2051	1367
BM-21D/300	300	2587	2587	1294	1294	862
BM-21D/450	450	1725	1725	819	862	575
BM-21D/600	600	1228	1293	461	647	431
BM-41D/1000	1000	2376	2376	1018	1188	792

Corbel load value table (corbels and braces)

CORBEL MODEL	BRACE	L(mm)	Load type1: uniform distribution $F1=q \cdot L$ $F1[N]^{(1)}$	Load type2: Concentration $\frac{1}{2} \uparrow \frac{1}{2}$ $F1[N]^{(1)}$	Load type3: $F1[N]^{(1)}$	Load type4: $F2, F2$ $\frac{1}{3} \uparrow \frac{1}{3} \uparrow \frac{1}{3}$ $F2[N]^{(1)}$	Load type5: $F3, F3, F3$ $\frac{1}{4} \uparrow \frac{1}{4} \uparrow \frac{1}{4} \uparrow \frac{1}{4}$ $F3[N]^{(1)}$
BM-21/450	BM-MKS	450	4860	1270	468	2160	1917
BM-41/450	BM-MKS	450	57541	3560	2475	2871	1917
BM-41/600	BM-MKS	600	5118	2660	2556	2556	1701
BM-41/1000	BM-MKS	1000	2020	3060	387	1530	1017
BM-52/450	BM-MKS	450	5765	4970	2682	2880	1932
BM-52/600	BM-MKS	600	5076	3630	2832	2534	1697
BM-72/450	BM-MKS	450	5742	5740	2871	2871	1907
BM-72/600	BM-MKS	600	5112	5110	2556	2556	1701
BM-21D/450	BM-MKS	450	5742	3640	2529	2871	1908
BM-21D/600	BM-MKS	600	5112	2730	2556	2556	1701
BM-41D/1000	BM-MKS	1000	3040	3040	1754	1764	1008

SHORT BRACE:BM-XC/LONG BRACE :BM-CXC

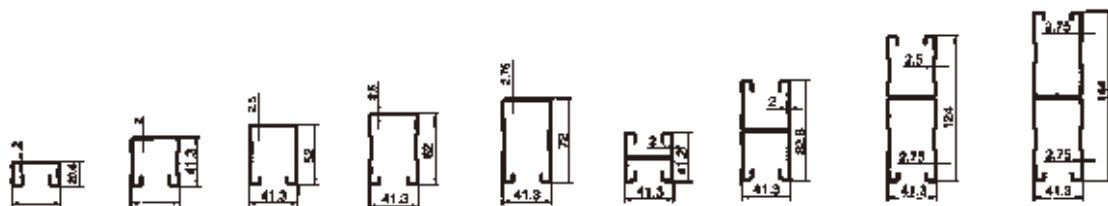
The above bearing capacity values are applicable to C20/25 concrete

The weight of the corbel has been considered

The provided bearing capacity value is applicable to the non-corner position of the structure (the bearing capacity value of the corner position needs to be calculated independently)

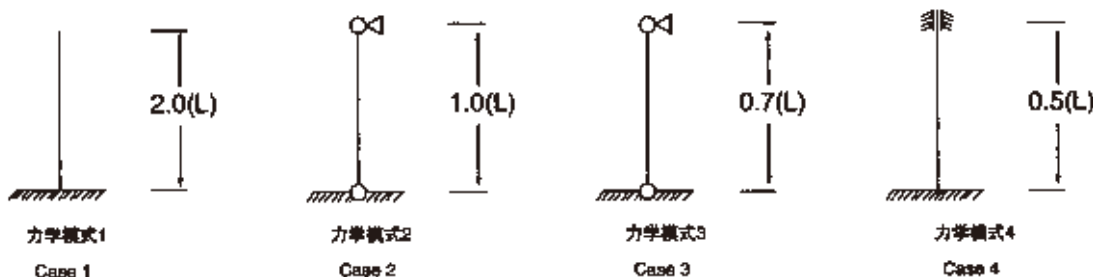
The force of the fixed base material such as steel structure or concrete needs to be checked independently

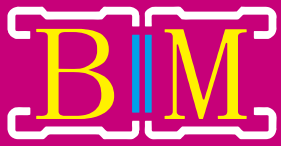
(Allow)the carrying capacity of the channel axial compression



LOAD SK(mm)	BM-21 (kN)	BM-41 (kN)	BM-52 (kN)	BM-62 (kN)	BM-72 (kN)	BM-21D (kN)	BM-41D (kN)	BM-52-72D (kN)	BM-72D (kN)
250	24.36	36.28	54.07	60.04	72.96	51.82	72.60	125.10	170.00
500	19.31	33.81	51.48	58.34	69.74	46.93	69.19	119.48	163.20
750	12.92	30.76	47.85	55.79	65.04	40.56	64.35	111.37	153.00
1000	8.13	26.93	43.44	48.33	59.39	32.67	58.51	101.58	134.87
1250	5.53	22.50	38.15	42.85	52.59	25.08	51.48	89.80	116.73
1500	3.97	18.22	32.40	27.24	45.08	19.15	43.82	76.86	97.47
1750	3.00	14.65	26.98	31.79	37.83	14.88	36.54	64.39	81.60
2000		11.87	22.36	26.52	31.52	11.80	30.32	53.58	66.87
2250		9.74	18.62	22.03	26.33	9.56	25.26	44.75	55.53
2500		8.11	15.65	18.85	22.19	7.89	21.24	37.68	47/60
2750		6.84	13.29	16.20	18.87	6.62	18.06	32.05	39.67
3000		5.85	11.40	13.51	16.21	5.63	15.49	27.52	34.00
3250		5.05	9.88	11.50	14.06		13.42	23.86	28.33
3500		4.39	8.64	10.18	12.29		11.73	20.86	24.93
3750			7.61	9.10	10.84		10.34	18.39	22.67
4000			6.75	8.00	9.62		9.17	16.32	20.40

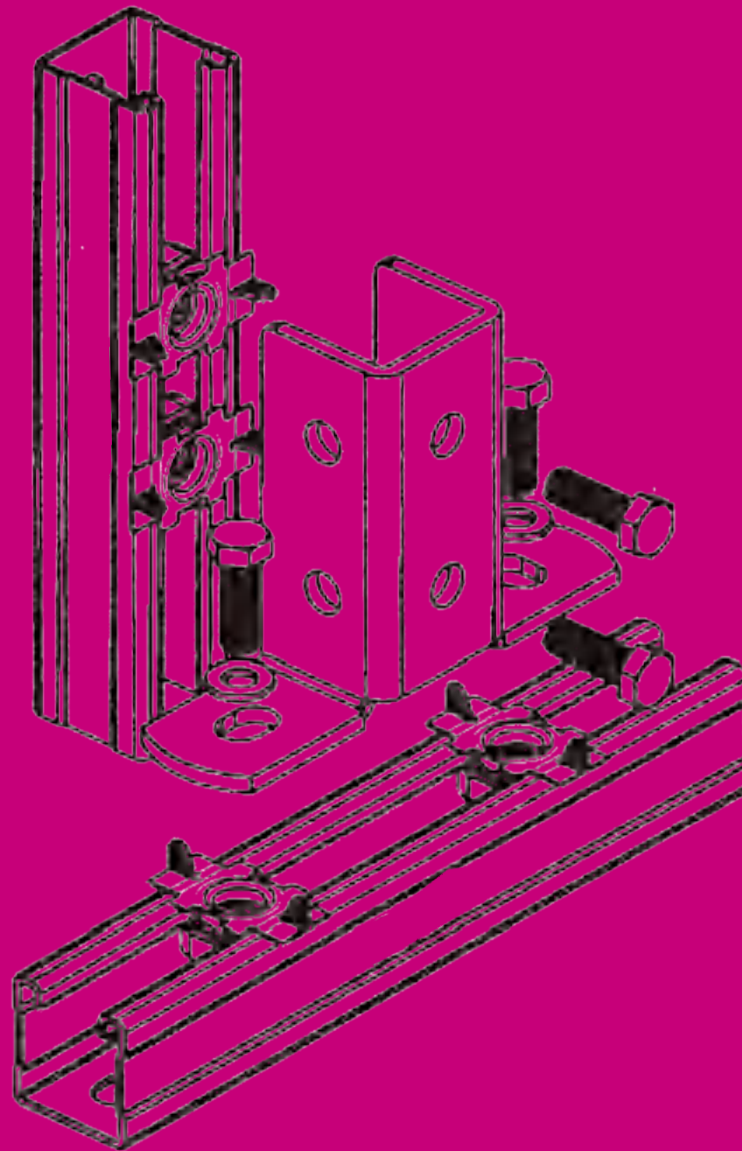
End bearing the form of conversion factor(caluculated length)





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GERMAN QUALITY
SINCE2003

PIPE INSTALLATION SYSTEM

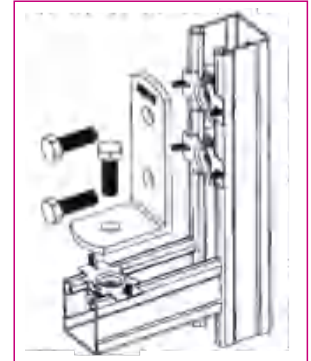


Finished Bracket Series Products



Installation Instructions

- ◆ Cost-effective installation suitable for 90° angle
- ◆ Double locks to double the load capacity

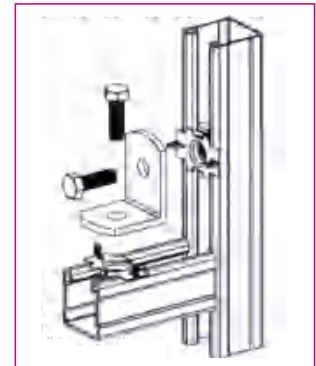


PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-001	38012102	Channel steel right angle connector	6



Installation Instructions

- ◆ Cost-effective installation suitable for 90° angle
- ◆ Suitable for installation of light support system



PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-002	38012101	Channel steel right angle connector	6



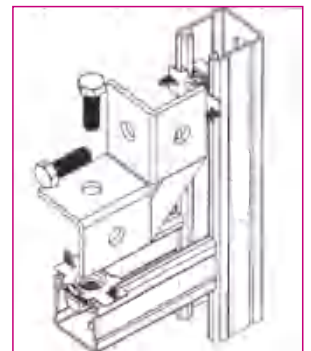
BM-005A



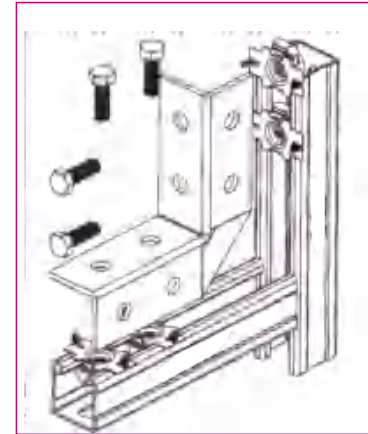
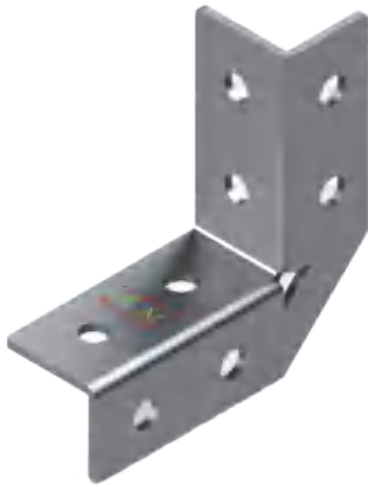
BM-005B

Installation Instructions

- ◆ Support suitable for heavy structures
- ◆ Welded side reinforcement plate to prevent channel steel from dislocation during installation



PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-005A	38012103	Channel steel right angle connector	4
BM-005B	38012103	Channel steel right angle connector	4



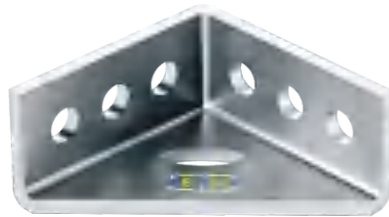
Installation Instructions

- ◆ Suitable for any angle installation of channel steel 90 degree link
- ◆ Welded side reinforcement plate to prevent channel steel from dislocation during installation

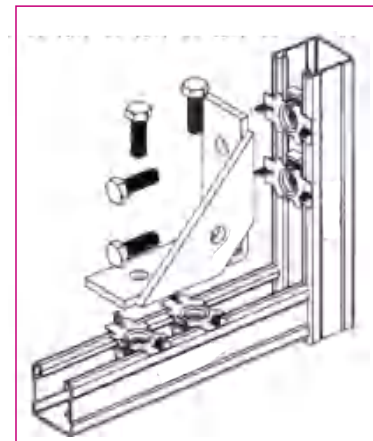
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-006	38012104	Channel steel right angle connector	4



BM-004A



BM-004B

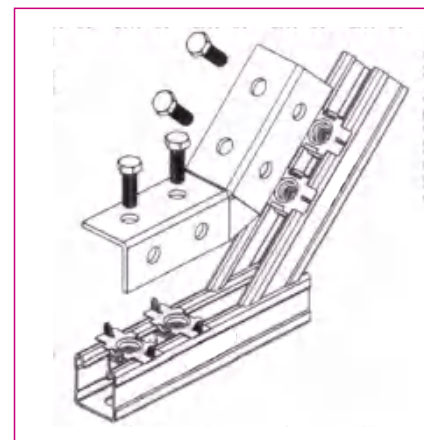


Installation Instructions

- ◆ Widely used to support heavy pipes, ducts and bridges
- ◆ The side reinforcement plate can be designed to improve the bearing capacity of the support

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-004A	38012105	Channel steel four-hole support	6
BM-004B	38012106	Heavy Duty Corner Supports	6

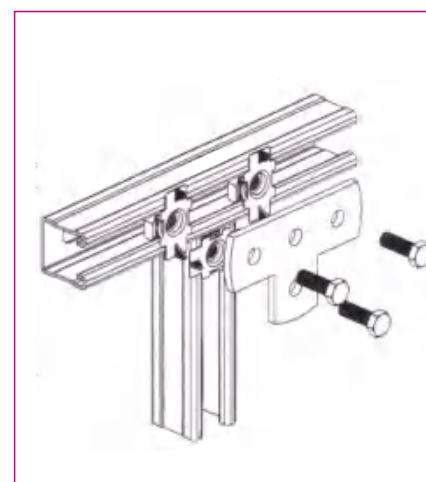
Finished Bracket Series Products



Installation Instructions

- ◆ 45 ° brace for heavy support
- ◆ The side reinforcement plate design prevents the dislocation of the channel steel during installation and improves the bearing capacity at the same time

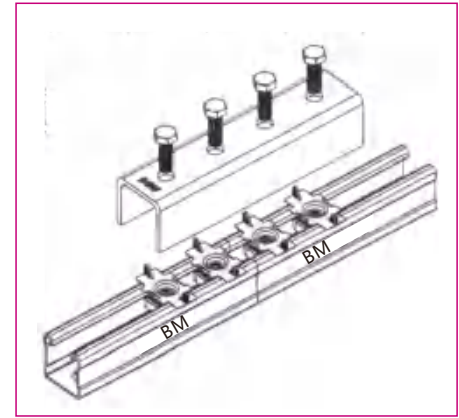
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-007	38012109	Channel steel bottom 45° connector	4



Installation Instructions

- ◆ Suitable for quick installation of channel steel T-shaped flat shape

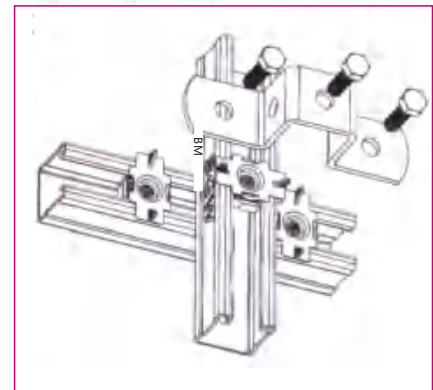
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-008	80040105	Channel steel one-dimensional connector	6



Installation Instructions

- ◆ Suitable for extended series connection of channel steel
- ◆ Open link or back hole connection can be selected according to site conditions

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-009	38012110	Channel steel horizontal splicing piece	5



Installation Instructions

- ◆ It is suitable for directly fixing channel steel on the building structure, with high stability
- ◆ Multi-directional fixed connection can be made according to working conditions

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-010-21	80050101	Channel steel fastener	5
BM-010-41	80050102	Channel steel fastener	5
BM-010-52	80050103	Channel steel fastener	5
BM-010-62	80050104	Channel steel fastener	5
BM-010-72	80050105	Channel steel fastener	5
BM-010-82	80050106	Channel steel fastener	5
BM-010-82S	80050107	Channel steel fastener	5

Finished Bracket Series Products



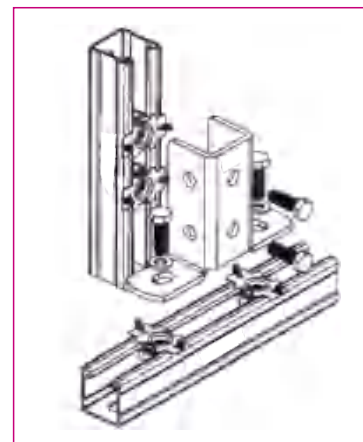
BM-003A



BM-003B



BM-003C



Installation Instructions

- ◆ Suitable for generating corbel structures on concrete and steel structures
- ◆ Fasteners can be used to fix on concrete walls, floors, etc.

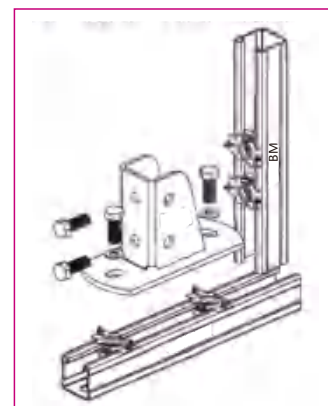
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-003A	80020102	Light channel steel base	5
BM-003B	80020101	Heavy channel steel base	6
BM-003C	80040103	21 type channel steel base	4



BM-011A



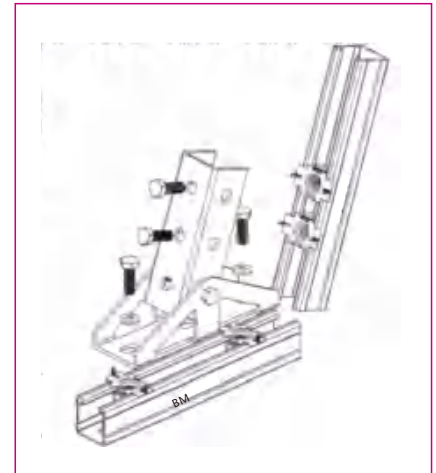
BM-011B



Installation Instructions

- ◆ Suitable for fixed installation of heavy booms and poles
- ◆ Can be connected with foundations such as concrete, steel structures, etc.

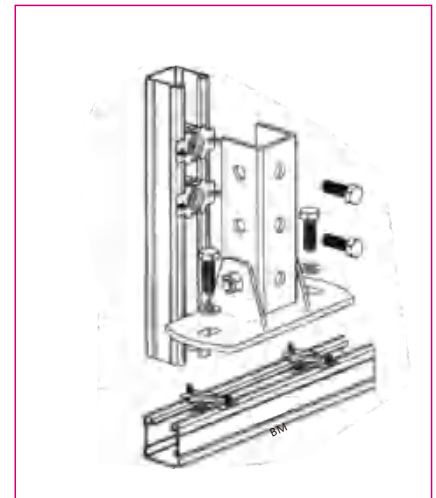
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-011A	80020106	Channel steel base21-72	6
BM-011B	80020107	Four-hole channel steel base21-72	6



Installation Instructions

- ◆ Between the two pieces is a gap active link
- ◆ Suitable for fixed installation when seismic anchor bolts are connected with rigid channel steel

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-050	80030201	Seismic heavy duty stay	4



Installation Instructions

- ◆ Between the two pieces is a gap active link
- ◆ Suitable for fixed installation when seismic anchor bolts are connected with rigid channel steel

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-051	80030204	Seismic heavy duty stay	6

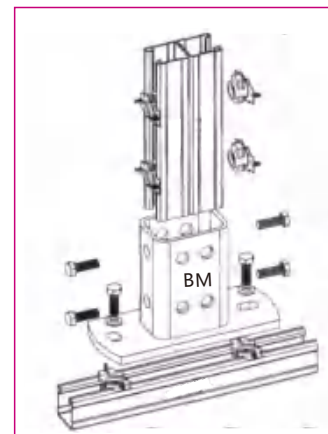
Finished Bracket Series Products



BM-012



BM-013



Installation Instructions

- ◆ Suitable for fixed installation of heavy booms and poles
- ◆ Can be connected with foundations such as concrete, steel structures, etc.

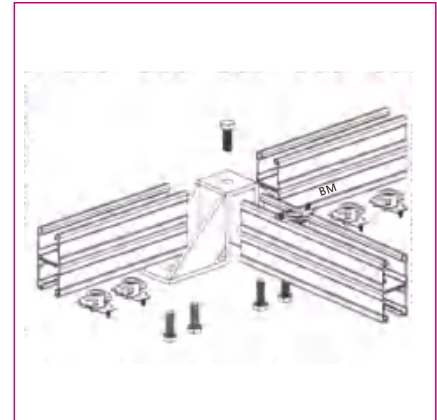
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-012	80020104	41D Channel steel base	6
BM-013	80020105	41D Channel steel heavy base	6



Installation Instructions

- ◆ Cost-effective installation suitable for 45° angle
- ◆ Double locks to double the load capacity

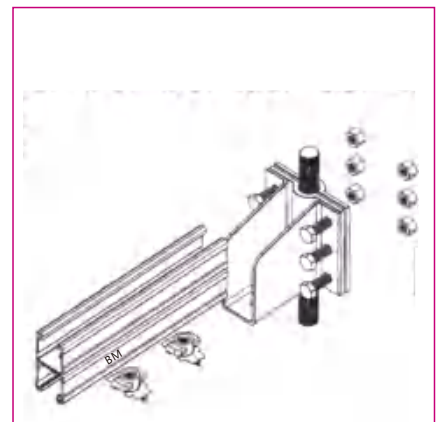
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-056	38012807	Channel steel 45°connector	6



Installation Instructions

- ◆ Suitable for fixed installation of double channel steel
- ◆ Suitable for the production of secondary platform structures

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-3013	80030105	Channel steel grille hanger	6



Installation Instructions

- ◆ Suitable for fixed installation of double channel steel
- ◆ It is suitable for the conversion connection between the screw and the channel steel under the grid structure

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-3014	80030106	Channel steel screw adapter	6

Finished Bracket Series Products



Plastic wing nut

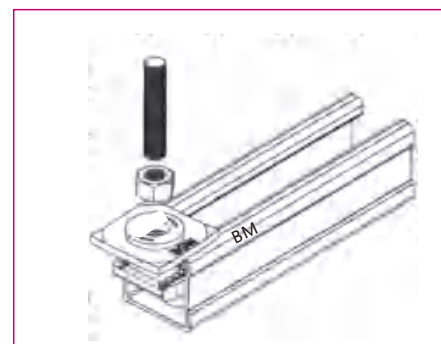
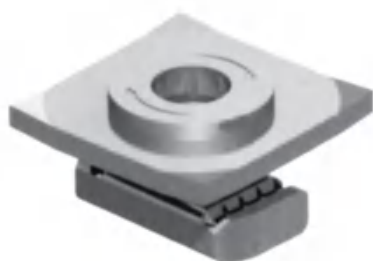


Spring Nut

Installation Instructions

- ◆ Fastening elements suitable for channel fastening
- ◆ After installation in place, the nut and the channel steel are accurately engaged

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM015-8	70020101	Plastic wing nut M8	8
BM015-10	70020102	Plastic wing nut M10	9
BM015-12	70020103	Plastic wing nut M12	9
BM015-16	70020108	Plastic wing nut M16	9
BM015A-8	70020204	Spring Nut M8	8
BM015A-10	70020205	Spring Nut M10	9
BM015A-12	70020206	Spring Nut M12	9
BM015A-16	70020207	Spring Nut M16	9



Installation Instructions

- ◆ Suitable for fast and efficient fixing of tube bundles to channels
- ◆ Rotate and install in place, simple and fast

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM016-10	70030106	Channel steel buckle pad M10	8
BM016-12	70030107	Channel steel buckle pad M12	9



BM017



BM017U



BM017K

Installation Instructions:BM017

- ◆ Suitable for hoisting of channel steel
- ◆ It can be used with the lock instead of the tube bundle buckle pad to install the tube bundle

BM017U ◆ Suitable for hoisting of channel steel ◆ Prevent the expansion of channel steel

BM017K ◆ Use with open anti-vibration hinges

- ◆ It can be used with the lock instead of the tube bundle buckle pad to install the tube bundle

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM017-12	70030101	Channel steel gusset plate M12	5
BM017-16	70030102	Channel steel gusset plate M16	5
BM017-12U	70030103	U-shaped channel steel buckle plate M12	4
BM017-16U	70030104	U-shaped channel steel buckle plate M16	4
BM017-12K	70030105	Open U-shaped channel steel buckle plate M12	4
BM017-16K	70030106	Open U-shaped channel steel buckle plate M16	4



BM-019 A-3D



BM-019 B-3D

Installation Instructions

- ◆ Optimizing the connection of channel steel in 2D/3D orientation
- ◆ Quick connect to form multi-directional bracket joints

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
Bm019 A-3D	80040103	2D connector	5
Bm019 B-3D	80040104	3D connector	5

Finished Bracket Series Products



Bm020 P type tube bundle



M020B Lined P Type Tube Bundle

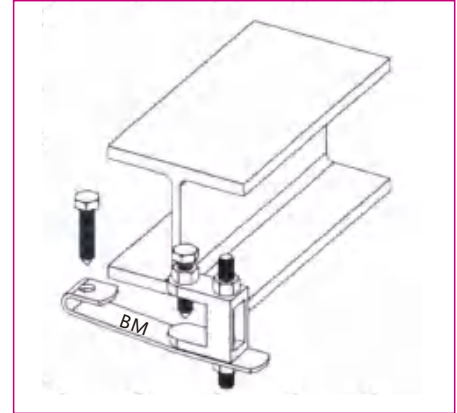


M-022 Thermoplastic U-type Card

Installation Instructions

- ◆ Suitable for directly fixing pipes on the open surface of channel steel
- ◆ Suitable for installation in small spaces and dense pipelines
- ◆ The P-type card must be fully embedded in the channel steel flange to ensure the load
- ◆ Simple and fast installation, saving construction time

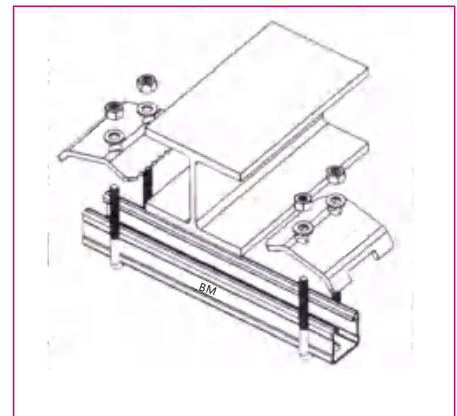
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-020 ½	50030101	P-type pipe clamp DN15	1.5
BM-020 ¾	50030102	P-type pipe clamp DN20	1.5
BM-020 1	50030103	P-type pipe clamp DN25	1.5
BM-020 1-1/4	50030104	P-type pipe clamp DN32	1.5
BM-020 1-1/2	50030105	P-type pipe clamp DN40	1.5
BM-020 2	50030106	P-type pipe clamp DN50	1.5
BM-020 2-1/2	50030107	P-type pipe clamp DN65	2.0
BM-020 3	50030108	P-type pipe clamp DN80	2.0
BM-020 4	50030109	P-type pipe clamp DN100	2.0
BM-020 5	50030110	P-type pipe clamp DN125	2.5
BM-020 6	50030111	P-type pipe clamp DN150	2.5
BM-020 8	50030112	P-type pipe clamp DN200	3.0
BM-020 10	50030113	P-type pipe clamp DN250	3.0



Installation Instructions

- ◆ Suitable for the installation of the upper and lower flanges of I-beam and H-beam
- ◆ It is suitable for the installation of single-pipe flexible hoisting with DN65 and below specifications

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-025-10	80070002	Tiger's mouth clip M10	8
BM-025-12	80070003	Tiger's mouth clip M12	8

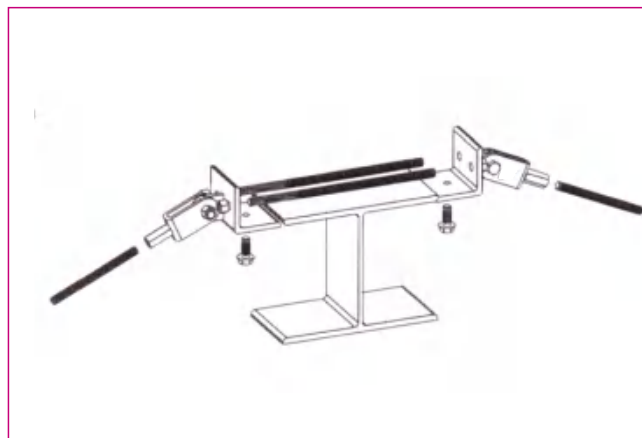


Installation Instructions

- ◆ Suitable for the installation of the upper and lower flanges of I-beam and H-beam
- ◆ It is suitable for the installation of the last rooting of the I-beam structure

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-026-21	80070101	Steel structure beam clamp21	6
BM-026-41	80070102	Steel structure beam clamp41	6
BM-026-82	80070103	Steel structure beam clamp82	6

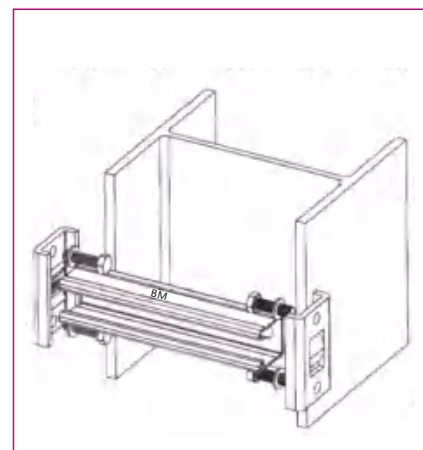
FIXING SOLUTIONS



Installation Instructions

- ◆ Suitable for the installation of the upper flange of I-beam and H-beam
- ◆ Suitable for flexible anti-seismic and beam top screw inclined-pull installations

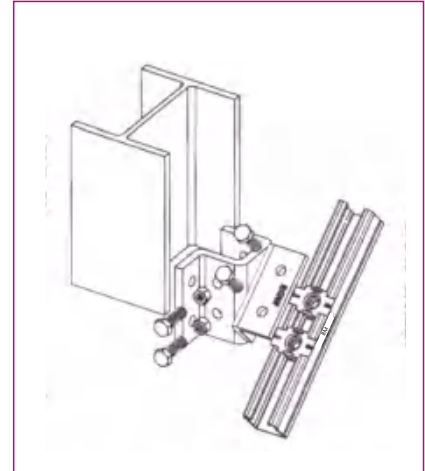
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-027	80070104	Beam top steel beam clamp	6



Installation Instructions

- ◆ Suitable for installation of pipelines between I-beam flanges
- ◆ Suitable for installation of 41 × 41 channel steel

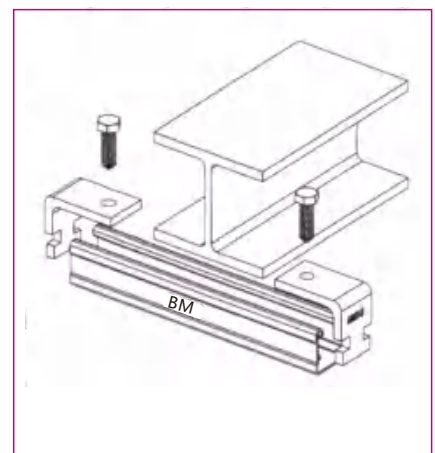
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-028	80070105	Beam clamps between steel beams	8



Installation Instructions

- ◆ Suitable for installation of I-beam and H-beam columns
- ◆ Suitable for horizontal and vertical installation of large-scale pipelines on the column side

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-029	80070106	Universal steel beam clamp	10

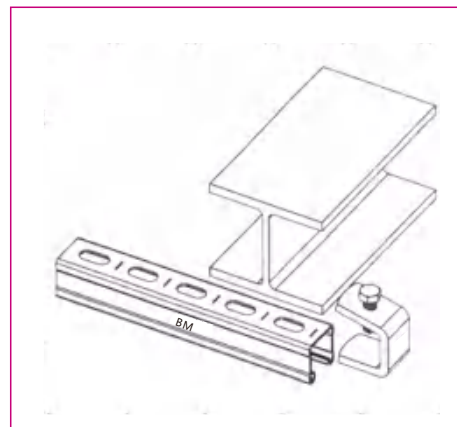


Installation Instructions

- ◆ Suitable for the installation of the upper and lower flanges of I-beam and H-beam
- ◆ It is suitable for the installation of the last rooting of the I-beam structure

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-030	80070107	T-shaped steel structure beam clamp	8

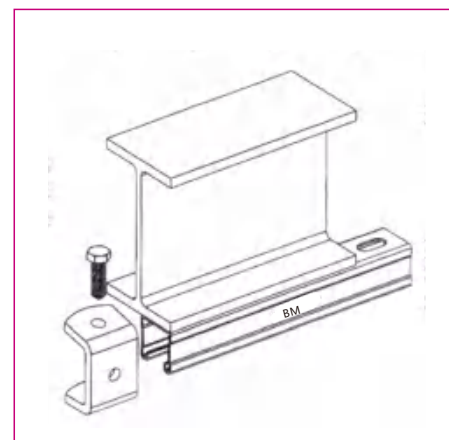
FIXING SOLUTIONS



Installation Instructions

- ◆ Suitable for installation of I-beam lower flange
- ◆ It is suitable for rooting and installation of the secondary structure in the vertical direction of the I-beam

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-031	80070108	Embedded beam clamps	6



Installation Instructions

- ◆ Suitable for installation of I-beam and H-beam lower flange
- ◆ It is suitable for the installation of the secondary structure rooting in the parallel direction of the I-beam

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-032-41	80070109	Wrapped Beam Clamps41	6
BM-032-82	80070110	Wrapped Beam Clamps72	6



Installation Instructions

- ◆ Suitable for bridge bracket installation

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-062	80030102	Bridge connector A	6



Installation Instructions

- ◆ Suitable for bridge bracket installation

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-063	80030104	Bridge connector B	6

Installation Instructions

- ◆ Universal diagonal connection fixture
- ◆ Can be directly connected to channel steel or support arm, suitable for tie rods



PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-061	80030103	Universal hinge	5

FIXING SOLUTIONS



Installation Instructions

- ◆ Suitable for a wide range of anchor installations
- ◆ Make sure that the minimum burial depth meets the requirements
- ◆ Select the corresponding drill bit for drilling and installation

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-G01-8	99881001	Mechanical Anchor M8	8
BM-G01-10	99881002	Mechanical Anchor M10	10
BM-G01-12	99881003	Mechanical Anchor M12	12
BM-G01-16	99881004	Mechanical Anchor M16	16



Installation Instructions

- ◆ Concrete fixing solution suitable for small margins and small spacing
- ◆ Suitable for working conditions with seismic requirements
- ◆ Be sure to use a knock socket for installation

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM-G02-10	99881005	Rear expanded bottom mechanical anchor M10	10
BM-G02-12	99881006	Rear expanded bottom mechanical anchor M12	12
BM-G02-16	99881007	Rear expanded bottom mechanical anchor M16	16

PRODUCT PHOTO ◆ INSTALLATION INSTRUCTIONS	PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
 <ul style="list-style-type: none"> ◆ Bolts of the right length and strength ◆ Suitable for a wide range of channel steel fixed installations 	BM-G03-8	90020103	Hexagon Bolts M8×25	8
	BM-G03-10	90020104	Hexagon Bolts M10×25	10
	BM-G03-12	90020105	Hexagon Bolts M12×25	12
	BM-G03-16	90020106	Hexagon Bolts M16×30	16
 <ul style="list-style-type: none"> ◆ Suitable for a wide range of channel steel fixed installations ◆ Cooperate with the screw for tightening ◆ Flange face enhances anti-skid performance 	BM-G04-8	90040101	Flange Nuts M8	8
	BM-G04-10	90040102	Flange Nuts M10	10
	BM-G04-12	90040103	Flange Nuts M12	12
	BM-G04-16	90040104	Flange Nuts M16	16
 <ul style="list-style-type: none"> ◆ Used for surface zinc layer protection of connectors 	BM018-8	90040105	Spacer M8	8
	BM018-10	90040106	Spacer M10	10
	BM018-12	90040107	Spacer M12	12
	BM018-16	90040108	Spacer M16	16
 <ul style="list-style-type: none"> ◆ Suitable for fixed installation of anti-vibration screw reinforcement channel steel ◆ The quantity used is greater than or equal to 2 	BM-K2007	60010108	Anti-seismic tightening device	M12

FIXING SOLUTIONS



Installation Instructions

- ◆ Suitable for a wide range of channel steel fixed installations
- ◆ Bolts of the right length and strength

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	LENGTH (m)
BM-G05-8(75m/package)	90060101	Full thread screw M8	3
BM-G05-10(60m/package)	90060102	Full thread screw M10	3
BM-G05-12(30m/package)	90060103	Full thread screw M12	3
BM-G05-16(15m/package)	90060104	Full thread screw M16	3



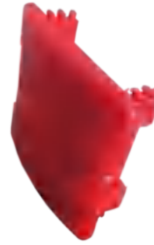
Installation Instructions

- ◆ Suitable for a wide range of channel steel fixed installations
- ◆ Cooperate with the screw for tightening
- ◆ Flange face enhances anti-skid performance

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	LENGTH (mm)
BM-G06-8	90050101	Hexagon long nutM8	40
BM-G06-10	90050102	Hexagon long nutM10	50
BM-G06-12	90050103	Hexagon long nutM12	55
BM-G06-16	90050104	Hexagon long nut M16	55

Installation Instructions

- ◆ It is applicable to the end protection of 21-72 channel steel
- ◆ Prevent oxidation and rust on the cut surface of channel steel
- ◆ Protect workers from scratches during installation
- ◆ Simple and fast installation, saving construction time
- ◆ Color: red, white, blue



PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	SPECIFICATION	Matching channel steel	WEIGHT (g)
BM-019/21	Channel steel end cap 21	90010401	21	41×21	3
BM-019/41	Channel steel end cap 41	90010402	41	41×41	6
BM-019/52	Channel steel end cap 52	90010403	52	41×52	7
BM-019/62	Channel steel end cap 62	90010404	62	41×62	8
BM-019/72	Channel steel end cap 72	90010405	72	41×72	
BM-019/82	Channel steel end cap 82	90010406	82	41×82	



Installation Instructions

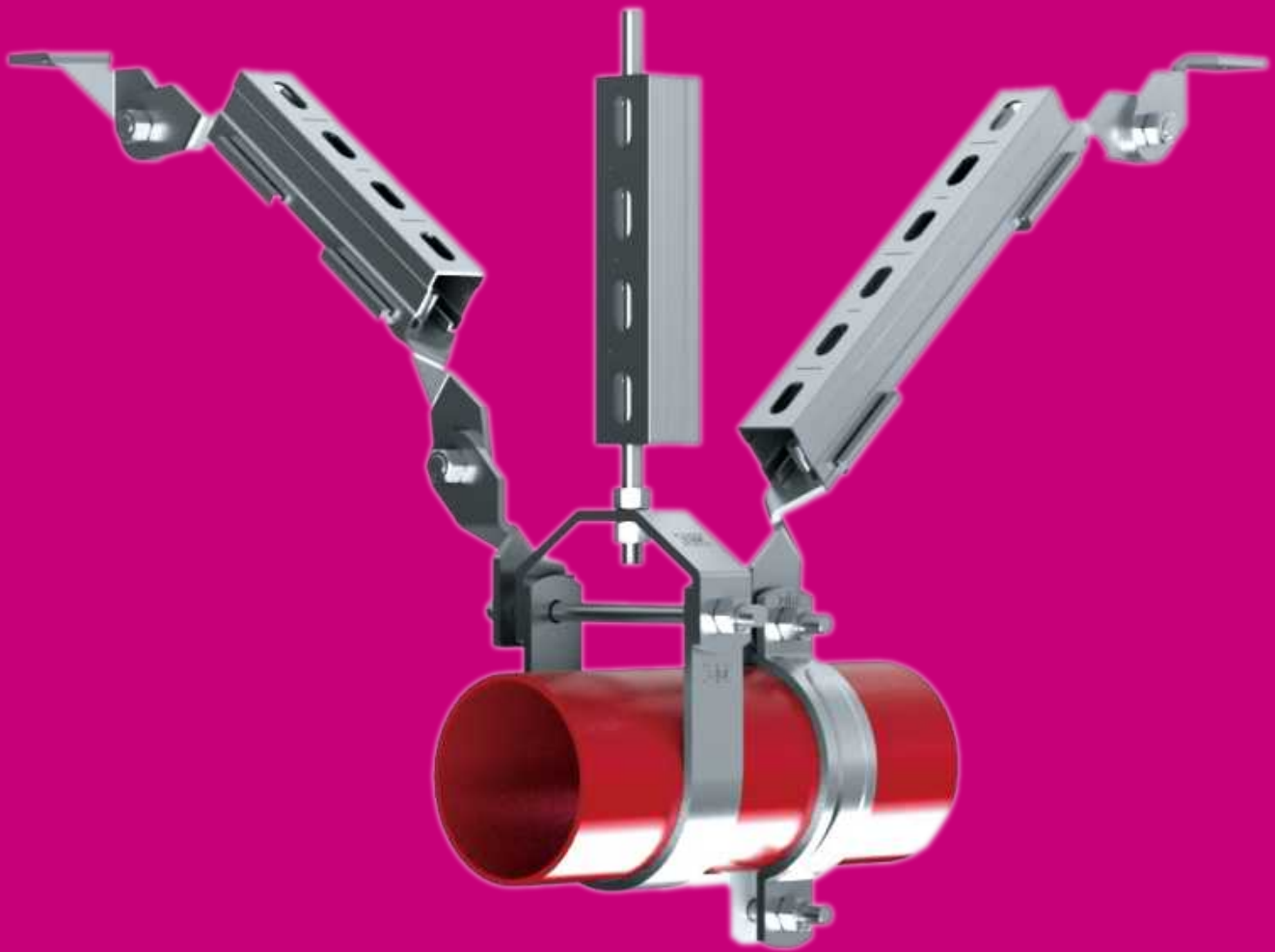
- ◆ It is applicable to the end protection of 21-72 channel steel
- ◆ Prevent oxidation and rust on the cut surface of channel steel
- ◆ Protect workers from scratches during installation
- ◆ Simple and fast installation, saving construction time

PRODUCT Abbreviation	PRODUCT NUMBER	Matching channel steel	Packaging Quantity (m)
Channel steel rubber strip	90010407	41type	100
Channel steel PVC rigid cover plate	90010408	41type	3



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SEISMIC BRACING SYSTEM



Example diagram of single-tube seismic resistance

BM seismic transfer parts BM

Seismic Hinged Parts BMK-2005、 2006



BMK-2005

BMK-2006

Features and Advantages

- ◆ Simple and fast installation, can adapt to various installation angles
- ◆ Seismic support for longitudinal and lateral
- ◆ Manufactured according to DIN EN 10025
- ◆ Galvanized: Electro galvanized, Fe/Zn13μm

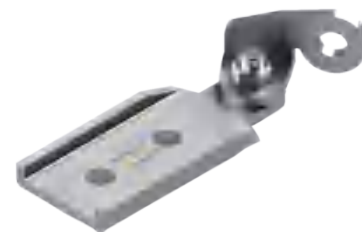


PRODUCT Abbreviation	SPECIFICATION	PRODUCT NUMBER	RECOMMENDED FORCE VALUE	LOCKING TORQU	PACKAGING (pcs)
BMK-2005	M12	60010101	4KN	50N.m	30
BMK-2006	M12	60010102	4KN	50N.m	30

Seismic Adapter BMK-2010

Features and Advantages

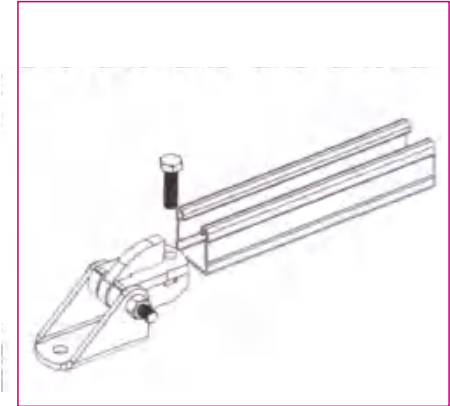
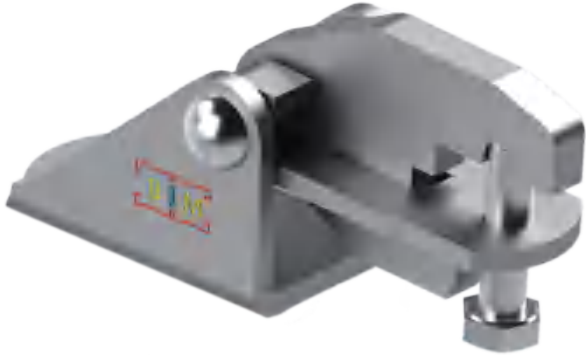
- ◆ Simple and fast installation, can adapt to various installation angles
- ◆ Seismic support for longitudinal and lateral
- ◆ Manufactured according to DIN EN 10025
- ◆ Galvanized: Electro galvanized, Fe/Zn13μm



BMK-2010

PRODUCT Abbreviation	SPECIFICATION	PRODUCT NUMBER	RECOMMENDED FORCE VALUE	LOCKING TORQU	PACKAGING (pcs)
BMK-2010	M12	60010110	9KN	50N.m	50

Seismics Bracing Systems



Installation Instructions

- ◆ Suitable for fixed installation of anti-vibration screw reinforcement channel steel
- ◆ The quantity used is greater than or equal to 2

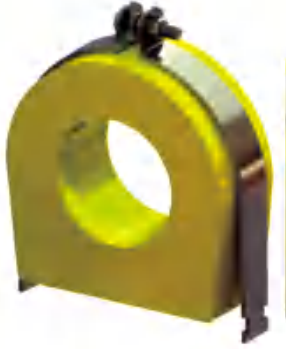
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BMK-2003	60010103	Press-through anti-vibration base type A	10

Installation Instructions

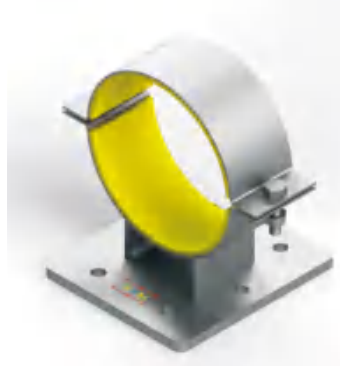
- ◆ Surface Treatment Electro Galvanized (EG) or Hot Dip Galvanized (HDG)
- ◆ There is no need to use a torque wrench to break the double-ended bolt until the bolt head falls off, which simplifies the installation and inspection of the seismic support
- ◆ Swivel-type fixed connection for longitudinal and lateral seismic bracing applications
- ◆ The innovative design makes installation easy, saving time and money



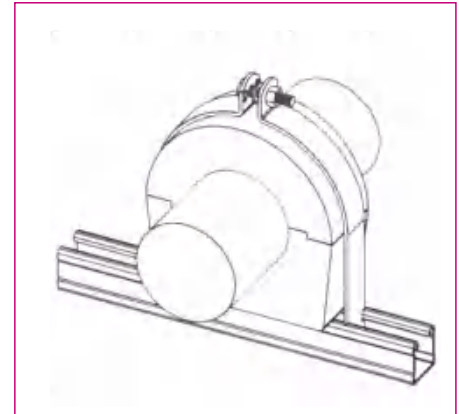
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BMK-2004	60010104	Press-through anti-vibration base type B	10



P type insulation tube bundle



Vermiculite Sliding Bracket

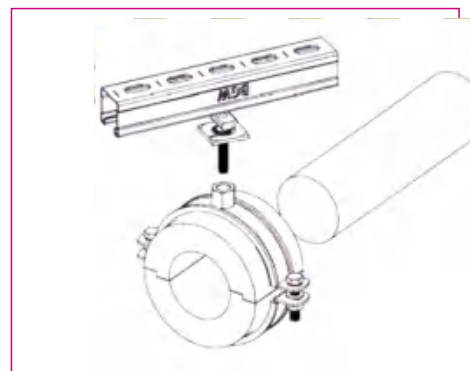
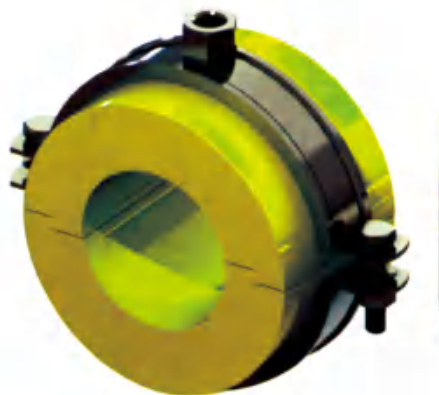


Installation Instructions

- ◆ Suitable for installation of cooling water and thermal insulation pipelines
- ◆ Refractory material reaches B2 flame retardant grade, density 300kg/m³
- ◆ Insulation Class A: 50mm

PRODUCT Abbreviation	PRODUCT NUMBER	INSULATION THICKNESS (mm)
BM023-1/2	P type insulation pipe clamp DN15	30
BM023-3/4	P type insulation pipe clamp DN20	30
BM023-1	P type insulation pipe clamp DN25	30
BM023-1-1/4	P type insulation pipe clamp DN32	30
BM023-1-1/2	P type insulation pipe clamp DN40	30
BM023-2	P type insulation pipe clamp DN50	30
BM023-2-1/2	P type insulation pipe clamp DN65	30
BM023-3	P type insulation pipe clamp DN80	40
BM023-4	P type insulation pipe clamp DN100	40
BM023-5	P type insulation pipe clamp DN125	40
BM023-6	P type insulation pipe clamp DN150	40
BM023-8	P type insulation pipe clamp DN200	50
BM023-10	P type insulation pipe clamp DN250	50

Thermostat card



Installation Instructions

- ◆ Suitable for installation of cooling water and thermal insulation pipelines
- ◆ Refractory material reaches B1 flame retardant grade, density 300kg/m³

PRODUCT Abbreviation	PRODUCT NAME	THICKNESS (mm)
BM024-1/2	O type insulation pipe clamp DN15	30
BM024-3/4	O type insulation pipe clamp DN20	30
BM024-1	O type insulation pipe clamp DN25	30
BM024-1-1/4	O type insulation pipe clamp DN32	30
BM024-1-1/2	O type insulation pipe clamp DN40	30
BM024-2	O type insulation pipe clamp DN50	30
BM024-2-1/2	O type insulation pipe clamp DN65	30
BM024-3	O type insulation pipe clamp DN80	40
BM024-4	O type insulation pipe clamp DN100	40
BM024-5	O type insulation pipe clamp DN125	40
BM024-6	O type insulation pipe clamp DN150	40
BM024-8	O type insulation pipe clamp DN200	50
BM024-10	O type insulation pipe clamp DN250	50



Installation Instructions

- ◆ Do not pull the pipe in the clamp
- ◆ Adjustable nuts at both ends realize one specification of pipe clamps, which can be applied to pipes of various specifications. The hoisting form is recommended.

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM021-1/2	50010101	Standard Tube Bundle DN15	1.5
BM021-3/4	50010102	Standard Tube Bundle DN20	1.5
BM021-1	50010103	Standard Tube Bundle DN25	1.5
BM021-1-1/4	50010104	Standard Tube Bundle DN32	1.5
BM021-1-1/2	50010105	Standard Tube Bundle DN40	1.5
BM021-2	50010106	Standard Tube Bundle DN50	1.5
BM021-2-1/2	50010107	Standard Tube Bundle DN65	2.0
BM021-3	50010108	Standard Tube Bundle DN80	2.0
BM021-4	50010109	Standard Tube Bundle DN100	2.0
BM021-5	50010110	Standard Tube Bundle DN125	2.5
BM021-6	50010111	Standard Tube Bundle DN150	2.5
BM021-8	50010112	Standard Tube Bundle DN200	3.0
BM021-10	50010113	Standard Tube Bundle DN250	4.0

Seismics Bracing Systems



Installation Instructions

- ◆ It is suitable for the design application when a single tube is used for seismic support
- ◆ The rooting point on the pipe clamp in the design of the seismic support should be at the connection between the boom and the pipe clamp

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	SPECIFICATION	THICKNESS (mm)
BM-K2012-2 1/2	60020101	Anti-vibration U-shaped pipe clamp Dn65	40	5
BM-K2012-3	60020102	Anti-vibration U-shaped pipe clamp Dn80	40	5
BM-K2012-4	60020103	Anti-vibration U-shaped pipe clamp Dn100	40	5
BM-K2012-5	60020104	Anti-vibration U-shaped pipe clamp Dn125	40	5
BM-K2012-6	60020105	Anti-vibration U-shaped pipe clamp Dn150	40	5
BM-K2012-8	60020106	Anti-vibration U-shaped pipe clamp DN200	40	5



Installation Instructions

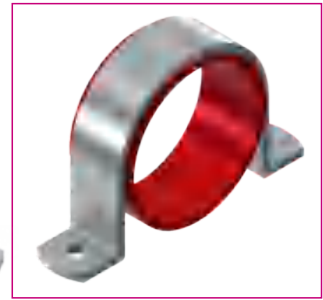
- ◆ Use fisheye bolts to connect boom and pipe clamps
- ◆ It is suitable for the design and application of seismic support for high-temperature steam heavy-duty pipelines covered with thermal insulation materials of more than 100mm, and the maximum applicable temperature is 370 °C.
- ◆ The rooting point on the pipe clamp in the design of the seismic support should be at the connection between the boom and the pipe clamp.

PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	SPECIFICATION	BOLT SPECIFICATIONS
BM-K2011-76	60030101	Double-clamp anti-vibration pipe clamps DN65	40	M12×45
BM-K2011-89	60030102	Double-clamp anti-vibration pipe clamps DN80	40	M12×45
BM-K2011-114	60030103	Double-clamp anti-vibration pipe clamps DN100	40	M12×45
BM-K2011-140	60030104	Double-clamp anti-vibration pipe clamps DN125	40	M12×45
BM-K2011-165	60030105	Double-clamp anti-vibration pipe clamps DN150	40	M12×45
BM-K2011-219	60030106	Double-clamp anti-vibration pipe clamps DN200	40	M12×45
BM-K2011-273	60030107	Double-clamp anti-vibration pipe clamps DN250	40	M12×45
BM-K2011-324	60030108	Double-clamp anti-vibration pipe clamps DN300	50	M12×45
BM-K2011-356	60030115	Double-clamp anti-vibration pipe clamps DN350	50	M12×45

Seismics Bracing Systems

Installation Instructions

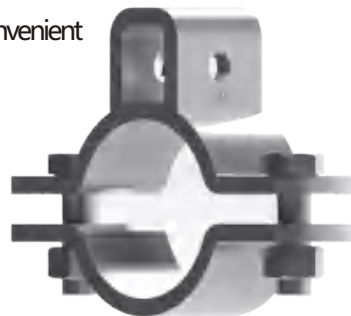
- ◆ Suitable for the installation of heavy oil and other medium heavy-duty pipelines
- ◆ According to the requirements, you can choose whether to install the engineering plastic backing plate at the lower part of the pipeline
- ◆ Suitable for fixing pipes on steel structures and concrete



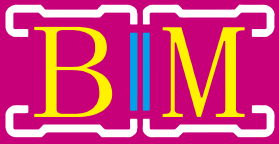
PRODUCT Abbreviation	PRODUCT NUMBER	PRODUCT NAME	THICKNESS (mm)
BM022-1/2	60040101	Ohm type pipe clamp 1/2	3
BM022-3/4	60040102	Ohm type pipe clamp 3/4	3
BM022-1	60040103	Ohm type pipe clamp 1	3
BM022-1-1/4	60040104	Ohm type pipe clamp 1-1/4	3
BM022-1-1/2	60040105	Ohm type pipe clamp 1-1/2	3
BM022-2	60040106	Ohm type pipe clamp 2	3
BM022-3	60040107	Ohm type pipe clamp 2-1/2	4.5
BM022-3-1/2	60040108	Ohm type pipe clamp 3	4.5
BM022-4	60040109	Ohm type pipe clamp 4	4.5
BM022-5	60040110	Ohm type pipe clamp 5	4.5
BM022-6	60040111	Ohm type pipe clamp 6	4.5
BM022-8	60040112	Ohm type pipe clamp 8	4.5
BM02			
BM022-12	60040114	Ohm type pipe clamp 12	6
BM022-14	60040115	Ohm type pipe clamp 14	6
BM022-16	60040116	Ohm type pipe clamp 16	6

Installation Instructions

- ◆ The design of one-piece pipe clamp makes the installation more convenient
- ◆ Reduce the number of pipe clamps, lower costs
- ◆ Adopt mixed gas shielded welding, high strength and good safety
- ◆ Minimum specification DN65

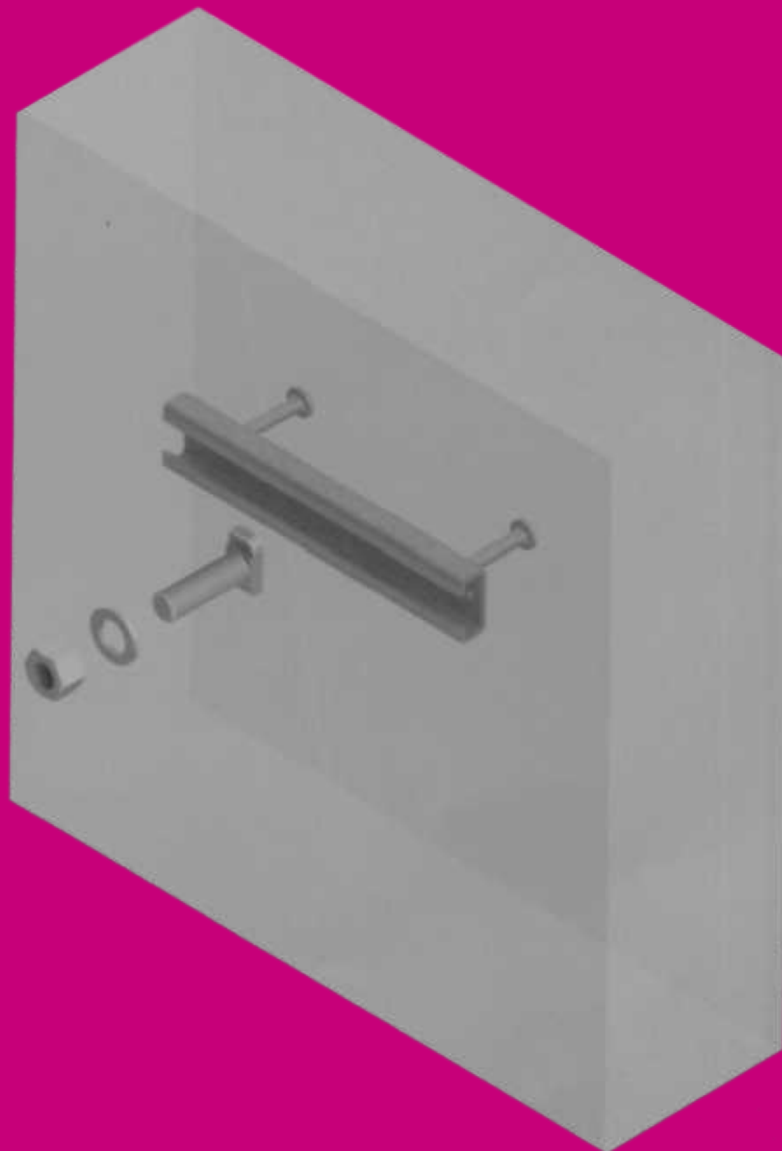


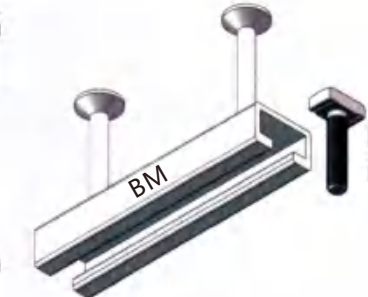
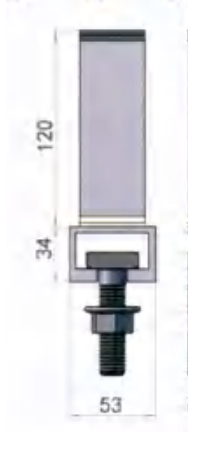
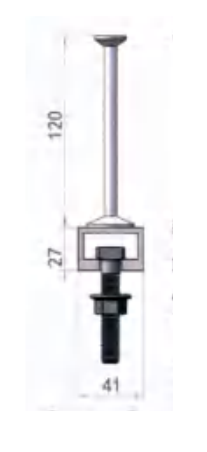
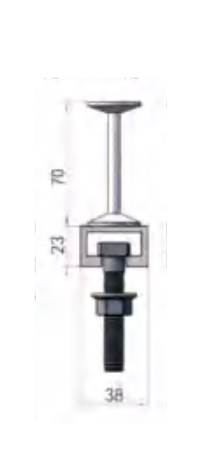
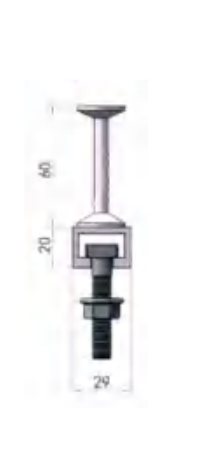
PRODUCT NUMBER	PRODUCT NAME	SPECIFICATION
60050101	Integrated anti-vibration pipe clamp DN65	40×5
60050102	Integrated anti-vibration pipe clamp DN80	40×5
60050103	Integrated anti-vibration pipe clamp DN80	40×5
60050104	Integrated anti-vibration pipe clamp DN100	40×5
60050105	Integrated anti-vibration pipe clamp DN125	40×5
60050106	Integrated anti-vibration pipe clamp DN150	40×5
60050107	Integrated anti-vibration pipe clamp DN200	40×5
60050108	Integrated anti-vibration pipe clamp DN250	40×5



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CAST-IN SYSTEM



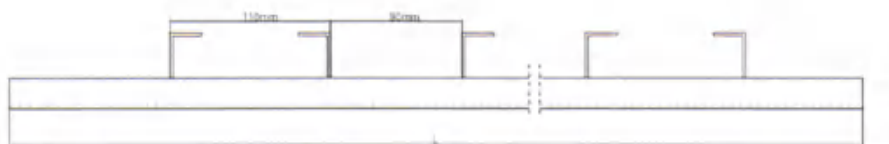
BM hot-rolled embedded channel-with teeth				
Channel steel type	BM-53	BM-41	BM-38	BM-29
Specification	53*34	41*27	38*23	29*20
Sectional schematic				
Applicable Bolt				
Bolt Type	SBP-22	SBP-18	SBP-18	SBP-14
Applicable Specifications	M12	M10	M10	M8
Applicable Specifications	M16	M12	M12	M10
Applicable Specifications	M20	M16	M16	M12
Bearing capacity design value				
Tensile design value	31.7kN	29.4kN	17.5kN	11.8kN
Shear design value Vrd	31.7kN	29.4kN	17.5kN	11.8kN
Longitudinal tension design value Xrd	31.7kN	29.4kN	17.5kN	11.8kN
Material and weight (weight not including anchor)				
carbon steel [kg/m]	4.81	3.41	2.54	1.79
Stainless steel[kg/m]	4.76	3.36	2.51	1.77

CASTIN SYSTEMS

Custom arc channel				
	Channel	BMT-53	BMT-41	SYT-38
mini R i[m]	0.5	0.5	0.5	0.5
mini Ra[m]	2.5	2	2.5	2.5
Mini channel length min.L[m]	1.5	1	0.5	0.5
Max channel length min.L[m]	5.8	5.8	5.8	5.8

Embedded C-section steel BMK-41				
	Applicable Bolt	Bearing capacity design value		Material and weight
SBP-18	Tensile design value N_{Rd}	Shear design value V_{Rd}	carbon steel[kg/m]	
M10/M12/M16	7.3kN	7.3kN	1.84	

Bend Spacing



Pre-Buried Channel Accessories

T-Bolt									
Applicable channel steel	BM-53				BM-41 BM-38 SYBM			SY-29	
T-bolt model	SBP-18				SBP-22			SBP-14	
Bolt Specifications	M10	M12	M16	M20	M10	M12	M16	M10	M12
Bolt length (mm)	30-200	30-200	30-200	40-200	20-200	20-200	30-200	20-200	20-200



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Engineering Technology - Finished stent technology

Design and Construction Instructions for Finished Support System

- ◆ Single water pipe rigid + flexible bracket (non-insulation + insulation)
- ◆ Single Cable Tray Rigid + Flexible Brackets
- ◆ Single duct rigid + flexible bracket (rectangular + circular)
- ◆ Bridge + water pipe comprehensive bracket rigid + flexible
- ◆ Air pipe + water pipe comprehensive bracket rigid + flexible
- ◆ Bridge + air pipe comprehensive bracket rigid + flexible
- ◆ Hydroelectric Wind comprehensive bracket Rigid + Flexible



Engineering Technology - Seismic Support Technology

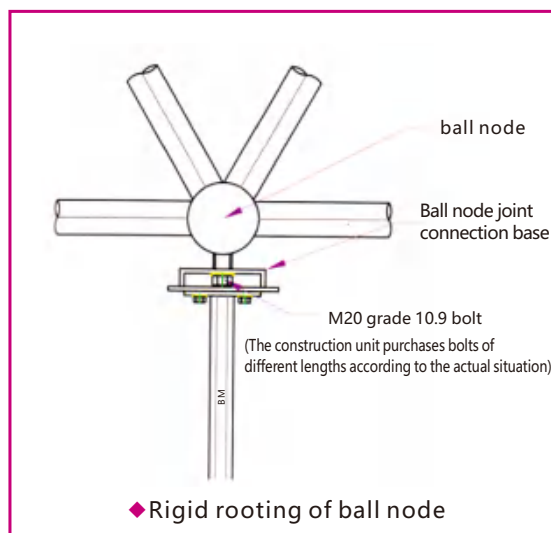
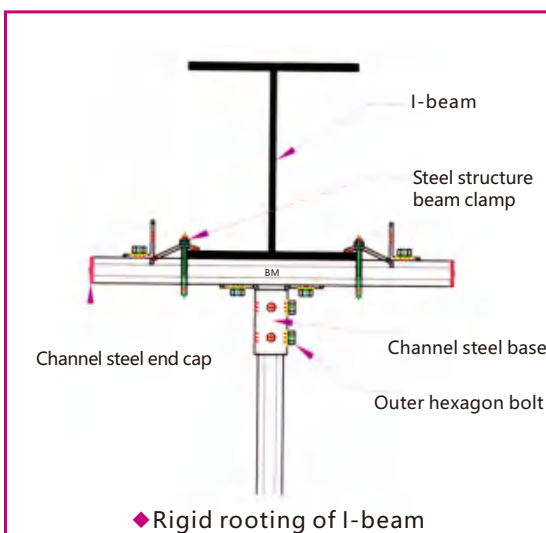
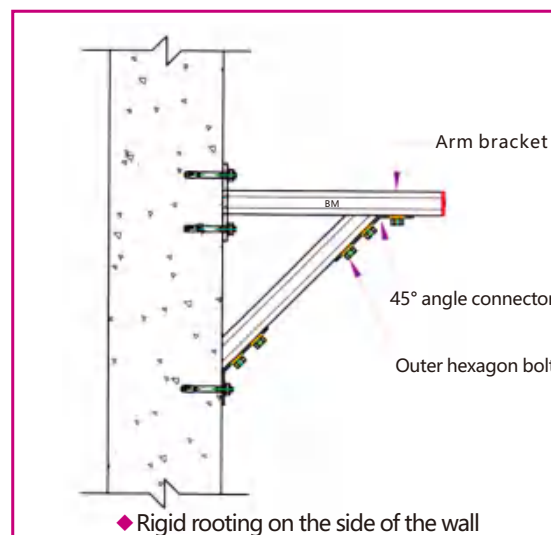
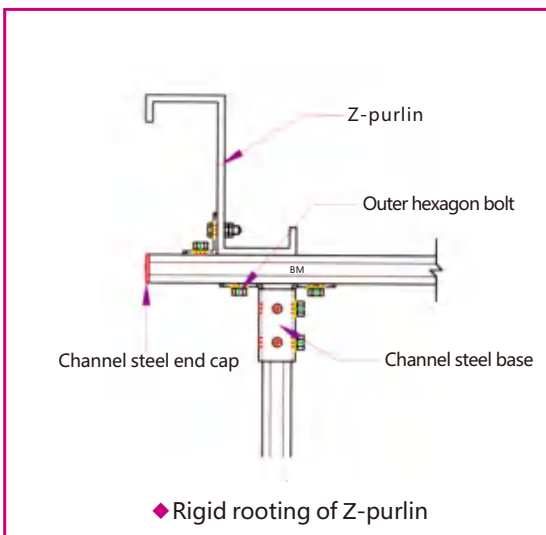
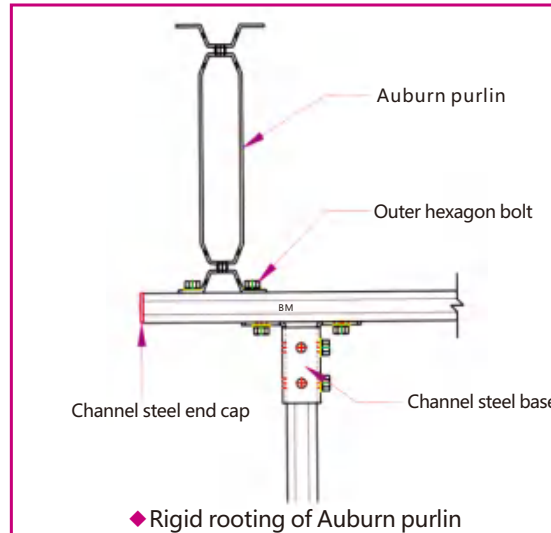
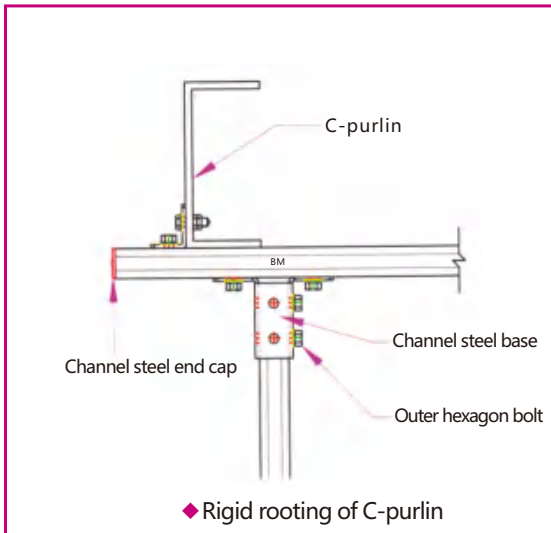
Design and construction instructions for seismic support system

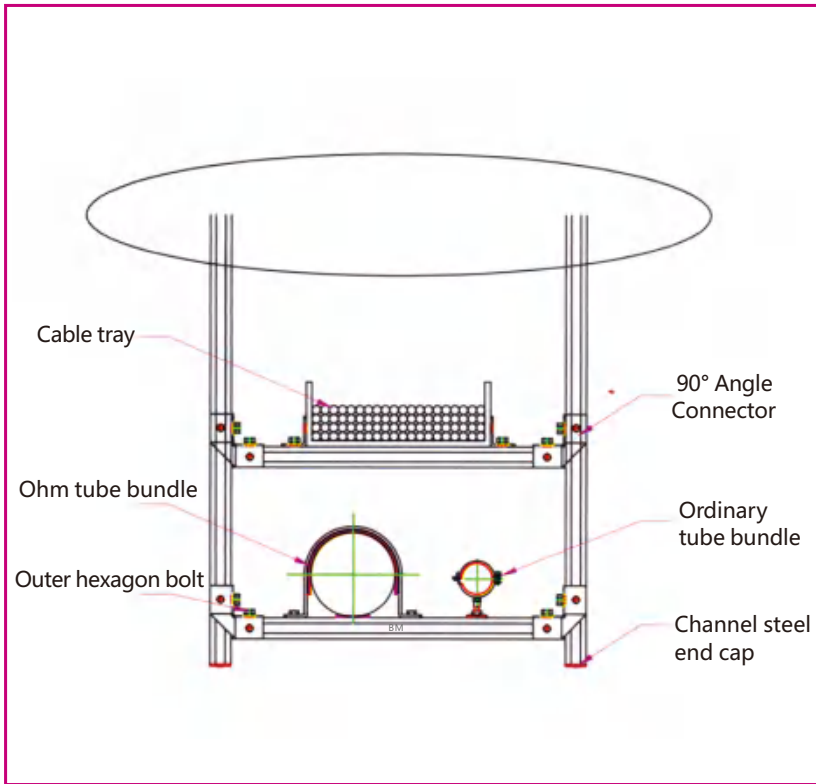


- ◆ Single water pipe anti-vibration bracket
(axial + lateral + four directions)
- ◆ Single cable tray anti-vibration bracket
(axial + lateral + four directions)
- ◆ Single circular duct anti-vibration bracket
(axial + lateral + four directions)
- ◆ A single rectangular duct anti-vibration bracket
(axial + lateral + four directions)

Steel Structure Roofing Node Detailed Drawing

Engineering Technology - Scaffolding Roofing Technology





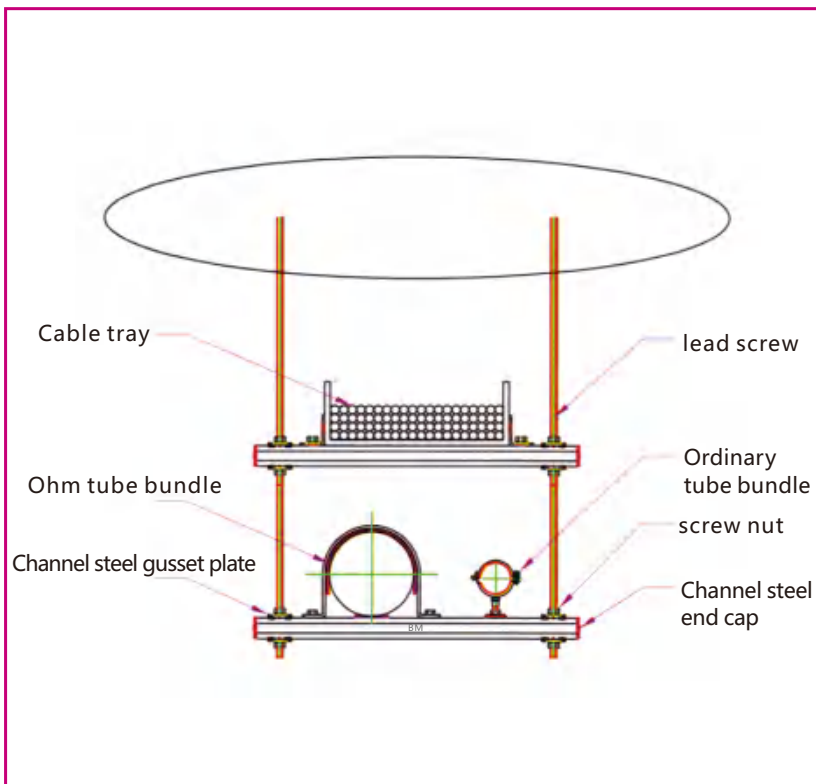
Rigid bracket installation method

INSTALLATION CONDITIONS:

- 1、 The bracket avoids rooting on the infill wall and the bottom of the concrete beam.
- 2、 This type of support should be installed on load-bearing members with concrete strength grade \geq C30.
- 3、 If the bracket is installed in a humid environment and outdoors, it is recommended to use hot-dip galvanized products.
- 4、 In order to ensure that the anchoring force value of the expansion anchor bolt meets the requirements, the anchor bolt must be driven into the specified depth.

MATTERS NEEDING ATTENTION:

- 1、 It is recommended to leave a safety margin of 50CM at the lower end of the support pole.
- 2、 The bracket installation should be kept vertical without side bending and skew.
- 3、 Channel steel blanking takes the scale line on the back as the cutting point, do not cut the back hole.
- 4、 In order to ensure that the support is well stressed, the pre-tightening torque of the 8.8-grade bolts is: M10 bolts = 40~50Nm, M12 bolts = 50~70Nm.
- 5、 On-site installers should not place the pipeline directly on the support and drag it.
- 6、 All bracket selection and bracket spacing are subject to the data provided by professional design units.



Installation method of flexible bracket

INSTALLATION CONDITIONS:

- 1、 The bracket avoids rooting on the infill wall and the bottom of the concrete beam.
- 2、 This type of support should be installed on load-bearing members with concrete strength grade \geq C30.
- 3、 If the bracket is installed in a humid environment and outdoors, it is recommended to use hot-dip galvanized products.
- 4、 In order to ensure that the anchoring force value of the expansion anchor bolt meets the requirements, the anchor bolt must be driven into the specified depth.

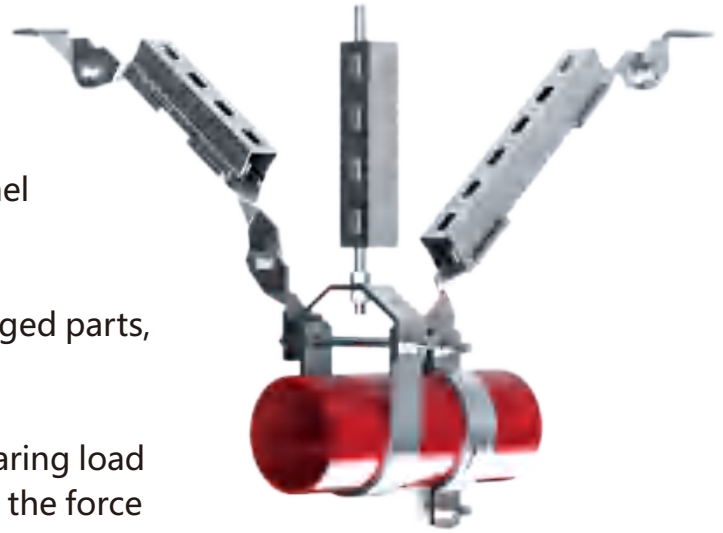
MATTERS NEEDING ATTENTION:

- 1、 It is recommended to leave a safety margin of 50CM at the lower end of the support pole.
- 2、 The bracket installation should be kept vertical without side bending and skew.
- 3、 Channel steel blanking takes the scale line on the back as the cutting point, do not cut the back hole.
- 4、 The screw joint and the place where the screw rod passes through the cross arm should be up and down and tighten the nut.
- 5、 On-site installers should not place the pipeline directly on the support and drag it.
- 6、 All bracket selection and bracket spacing are subject to the data provided by professional design units.

Axial Seismic Support For Single Water Pipe

◆ DESIGN DESCRIPTION:

- 1、 The vertical rod adopts screw rod, shock absorption and energy reduction
- 2、 The vertical rod is reinforced with channel steel to improve rigidity
- 3、 The diagonal brace connection uses hinged parts, which can effectively absorb shock
- 4、 The seismic check shall calculate the bearing load of the relevant accessories according to the force transfer calculation.



Installation example diagram of single-pipe two-way seismic support and hanger

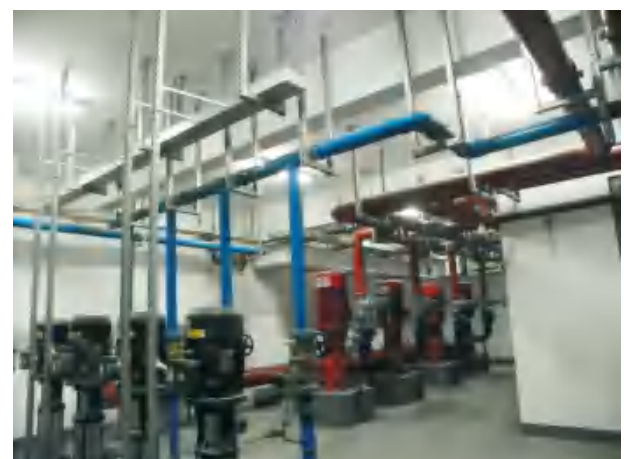
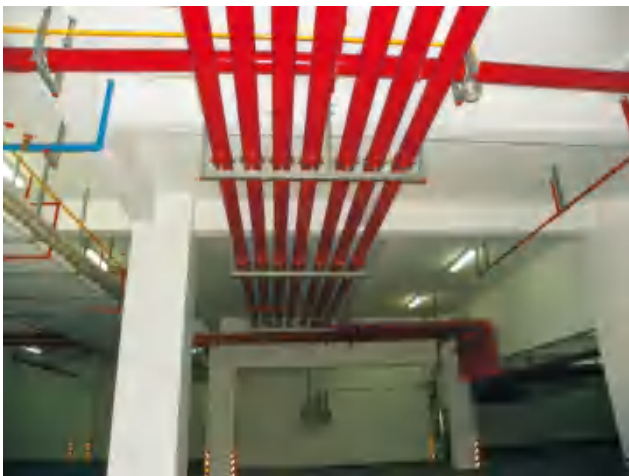


Installation example diagram of two-way anti-seismic support and hanger for air duct



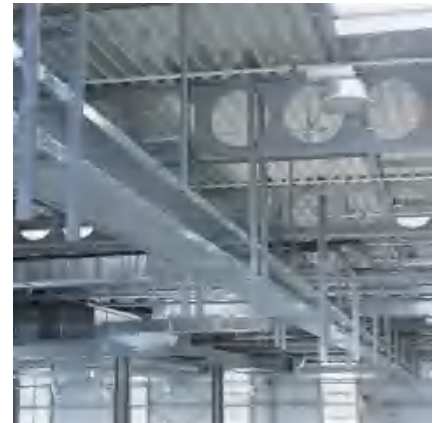
Installation example diagram of two-way seismic support and hanger of bridge frame

BUSINESS PROJECT



Installation Legend of Finished Bracket Part Project

INDUSTRIAL PROJECT



AUTHORITATIVE TEST REPORT

Authoritative test report

- ① Overall seismic support testing
- ⑥ Physical property testing of channel steel
- ② Fire performance testing
- ⑦ Mechanical Properties Testing of Seismic Components
- ③ 2 million times anti-fatigue testing
- ⑧ Salt spray test of 480h anticorrosion performance of products
- ④ Channel steel material testing
- ⑨ screw performance testing
- ⑤ Rear expansion anchor testing
- ⑩ Pipe gallery bracket testing



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ACHIEVEMENT PRESENTATION

✘ Commercial and Residential

Huayi (Suzhou) Film and Television City Project
 Mianyang Wanda Plaza
 Nanjing Lishui Wanda Project
 Changshu AEON Commercial Plaza
 Chongqing Macalline
 Country Garden - Quanzhou Peach Blossom Bay
 China Resources - Wuxi Jiangnan House Project
 Sunac - Wuxi Canal City Project
 Hongdou Real Estate - Wuxi Tianyi Huafu Project
 Gemdale Group—Ningbo Company Wetland E8 Project
 in Southeast Region

Midea-Yinzhou Shounan Project
 China Merchants Real Estate—Ningbo Yongjingwan Project
 Rongsheng Real Estate Nanjing Flower City Project
 Rongsheng Real Estate Nanjing Capital Project
 Rongsheng Real Estate Yixing Lingxiu Capital

✘ Industrial

B.S. Rexroth (Changzhou) Co., Ltd. new plant
 Suzhou Samsung Electronics Factory
 Marquardt (Weihai, China) Automotive System Switch Project
 Vismann (Pinghu) Water Heater New Plant
 Changchun FAW Fusheng Hi-tech Phase III New Plant
 Inspur Suzhou PCBA Plant Reconstruction Project
 Mianyang BOE sixth generation AMOLED production line project
 Xiamen Tianma Microelectronics
 Chengdu Panda Electronics
 New 8-inch project of Haichen Semiconductor
 Murata New Energy Plant
 Hefei Visionox sixth-generation flexible production line project
 Shenzhen Huaxing OptoeGuangzhou Zengcheng Foxconn Project
 Guangzhou Zengcheng Foxconn Project
 Shanghai Baifan Pharmaceutical
 Gree Electric (Chengdu) Industrial Park

✘ Public construction

Suzhou Fifth Middle School is newly built
 Suzhou Yuelanwan Primary School is newly built
 Suzhou Dongxihu School
 Suzhou Park No. 2 Middle School
 Changshu High-tech Park Secondary School
 Zhongxian Youth Palace
 Qian Xuesen No.2 Primary School in
 Xi'an High-tech Zon

Fuzhou Software Vocational and Technical College
 Changshu Third Ring Road Primary School
 Changshu Kaiwen Primary School
 Sichuan University West China Tianfu Hospital
 hangshu North Hospital
 Nanjing Youth Olympic Sports Park Project
 Athletics Hall game hall

Underground pipe gallery in Suzhou old town
 Luoyang South Second Ring Power Pipe Ditch

✘ Transportation and others

Wuhan Tianhe Airport Phase II Reconstruction
 and Expansion Project
 Chengdu Tianfu International Airport Supporting
 Project
 Beijing Subway Line 17 Depot
 Beijing Mo Military Airport Hangar Project
 Zhengzhou High Speed Railway East Station East
 Square
 Changshu North High Speed Railway Station
 Jiashan Equipment Manufacturing Logistics S
 ettlement Center



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