

FIBON[®]

Advance composites

catalogue
BUSBARSUPPORT



<https://www.stpswitchboard.co.th/>

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FIBON Insulator

Introduction

ADVANCED COMPOSITE FORMULATOR

Hexa Analisa is a wholly owned subsidiary of Fibon Berhad, a Public Listed Company listed on the Capital Market of Bursa Malaysia Securities Berhad.

Hexa Analisa specializes in the formulation & manufacture of Advanced Polymer Matrix Fibre (APMF) Composites that could be used in electrical, electronic, military, and medical industries.

Through its extensive Research and Development, Hexa Analisa has successfully formulated a comprehensive range of APMF Composites since 2003 including the world-renowned FIBON range of electrical insulation products.

These insulation products are fabricated into various designs, with consideration of every aspect of the electrical insulation to meet the international standard requirements.

FIBON ELECTRICAL COMPOSITES

Fibon Electrical Insulation Composites (EIC) are made of innovative and specially formulated glass fibre reinforced polymer material. It is designed to meet the need for high insulation property with high flexural and tensile strength and yet low in water absorption, which generally comply with the test under IEC 60439, IEC 61439 and capable of withstanding explosions.

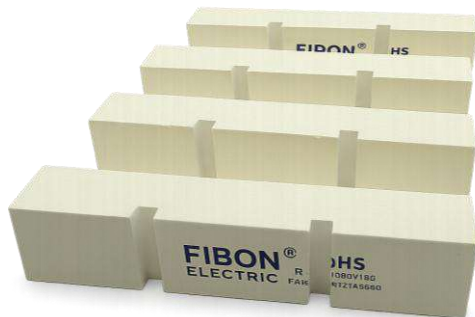
Apart from having an excellent insulation characteristic, Fibon composites also exhibit excellent chemical resistance, enabling the material to be used in offshore and chemical plants.

Fibon provides reliable, safe, and fully type-tested busbar supports for low voltage, medium voltage, and high voltage switchboards and switchgears.

FB 2040, GP 600, G10, G11, KP 680, P 1800, and D 700 are some of the composites commonly used in the electrical industry.

Fibon materials are available in sheet form (0.8-5mm) as well as in stripes of 2.29m of various thicknesses and widths. Fibon offers a comprehensive range of busbar support designs such as VFS, VAS, VCS, VFTS, HFS, HCS, and more.

Fibon offers assistance for testing arrangements, which include organizing accommodation and transportation for customers. With the facilities at Fibon UK and Fibon Australia, technical support and backup facilities for urgent fabrication during the type test of equipment are available upon request.



PROPERTIES MODIFICATION

FIBON, with its innovative technology, has developed a new composite material that overcomes the deficiencies of traditional materials when used in critical and demanding environments.

FIBON has the capability and experience to modify the properties of the material, such as mechanical, electrical, chemical resistance, thermal, and flame retardant properties. Over the past 15 years, FIBON R&D lab specialists have extensively researched and modified the properties of composite materials to meet various application requirements.

These tests are conducted to verify compliance of the desire requirements of the standards

1. Verification of temperature rise
2. Short circuit withstand test
3. Power frequency withstand voltage
4. Impulse voltage withstand test
5. Degree of protection
6. Mechanical operation
7. Protection provided by barriers
8. Cross-section area of neutral



Additional Tests

1. Resistance to corrosion test
2. Verification of thermal stability
3. Verification of resistance of insulance of insulating materials to heat (Ball Pressure Test)
4. Resistance to abnormal heat and fire (Glow Wire Test)
5. Resistance to UV radiation
6. Lifting
7. Mechanical impact test
8. Marking

Performance Certifications

FIBON EIC has been tested and certified through a series of full type tests ranging from 200A to 6000A, meeting IEC 60439 and IEC 61439 standards.

FIBON composite materials have also withstood 100kA for a duration of 3 seconds in the short circuit explosion test.

IEC 60439 & IEC 61439

In a modern and fast-paced world, the electrical industry's requirements continue to rise.

FIBON Electrical Insulation Composites (EIC) meet stringent safety standards set by the relevant government authorities and consultants. These include compliance with IEC 60439 and its updated version, IEC 61439, the foremost international standards for electrical equipment.

FIBON EIC, including materials such as FB2040 and GP600, offers superior properties and conforms to both IEC 60439 and IEC 61439 standards.

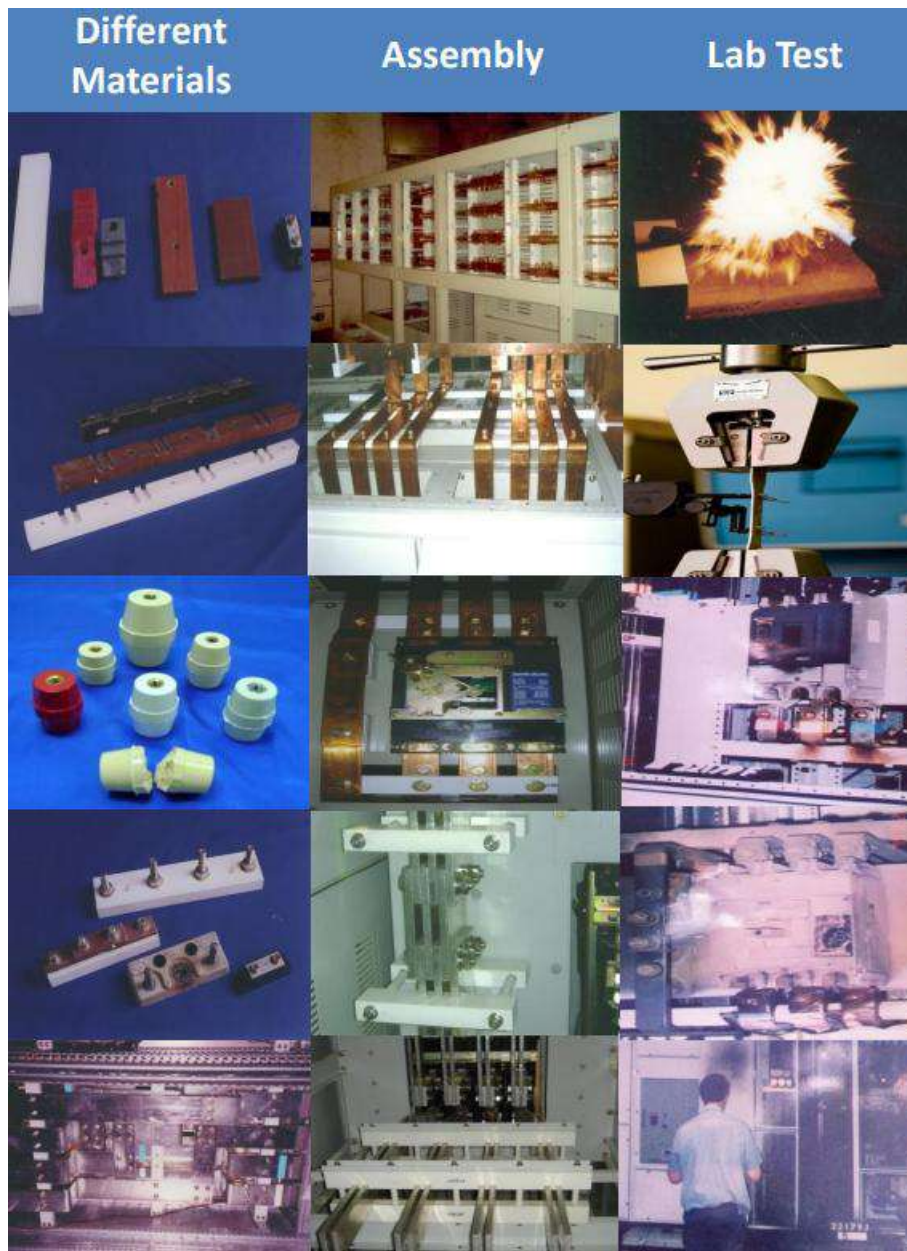


FIBON Technology

Extensive research has been conducted and continuously carried out on insulation resins and reinforced materials to determine the suitability of formulations and optimize the performance of insulation compounds. Knowledge obtained from this research forms the foundation for developing insulation materials tailored for specific applications.

A series of FIBON busbar supports were designed and developed to provide full protection for the entire busbar system. These supports comply with the stringent safety requirements of IEC 60439 and IEC 61439 standards.

The acceptance and use of FIBON busbar supports in numerous mega projects reflect the trust and recognition of FIBON's quality and reliability!



FIBON Busbar Support

FIBON busbar supports have been designed to secure various sections of the busbar system, such as horizontal and vertical copper busbars, dropper busbars, outgoing and incoming busbars, neutral busbars, bus duct systems, etc.

Due to the special properties of Fibon's material, it can undergo various machining processes and be shaped into different profiles for multiple applications. This flexibility enables the fabrication of unique designs, even in small quantities.

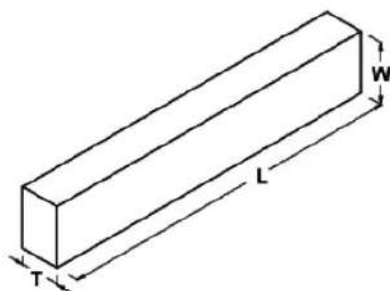
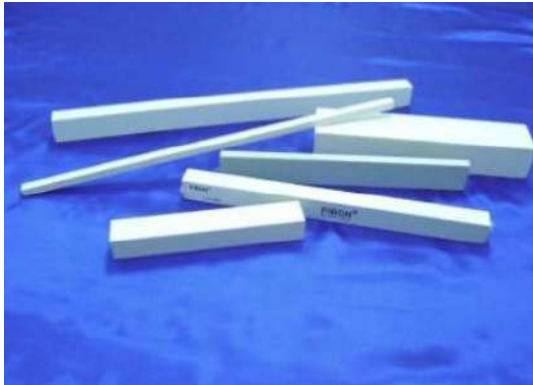
Kindly contact us for further information on the various available designs.

FB VFM SS DS TS QS AVM VFMD VFMH AHM VFMC VFMT CT



WB

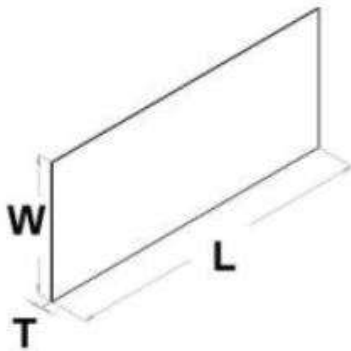
Fibon FlatBar is an electrical insulation material that is provided in strip form for the convenience of non-standard and emergency usage. The ease of drilling and cutting simplifies the fabrication process and leads to cost efficiency.



ITEM CODE	THICKNESS (T)	WIDTH (W)	LENGTH (L)
WB 1212	12	12	2290
WB 1215	12	15	2290
WB 1225	12	25	2290
WB 1232	12	32	2290
WB 1240	12	40	2290
WB 1250	12	50	2290
WB 1265	12	65	2290
WB 1275	12	75	2290
WB 12100	12	100	2290
WB 1515	15	15	2290
WB 1525	15	25	2290
WB 1540	15	40	2290
WB 1550	15	50	2290
WB 1565	15	65	2290
WB 1575	15	75	2290
WB 15100	15	100	2290
WB 2025	20	25	2250
WB 2032	20	32	2290
WB 2040	20	40	3750
WB 2050	20	50	2290
WB 2065	20	65	2290
WB 2075	20	75	2290
WB 20100	20	100	2290
WB 2532	25	32	2290
WB 2540	25	40	2290
WB 2550	25	50	2290
WB 2565	25	65	2290
WB 2575	25	75	2290
WB 25100	25	100	2290
WB 3030	30	30	2290
WB 3035	30	35	2290
WB 3040	30	40	5550
WB 3050	30	50	2290
WB 3065	30	65	2290
WB 3075	30	75	2290
WB 30100	30	100	2290
WB 3535	35	35	2290
WB 3540	35	40	2290
WB 3550	35	50	2290
WB 3565	35	65	2290
WB 3575	35	75	2290
WB 35100	35	100	2290

SW

Fibon Sheet Form is manufactured using high-pressure hot press techniques and is characterized by high mechanical strength with outstanding electrical and thermal properties. The unique formulation is designed to enable the materials to be suitable for drilling, cutting, and especially punching with a high-speed turret machine.



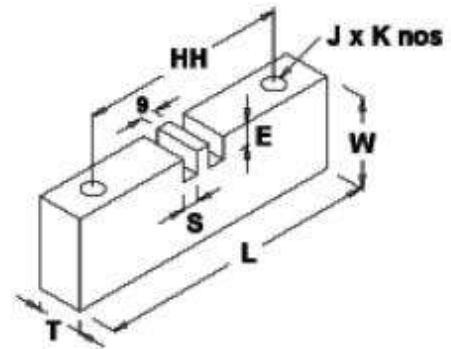
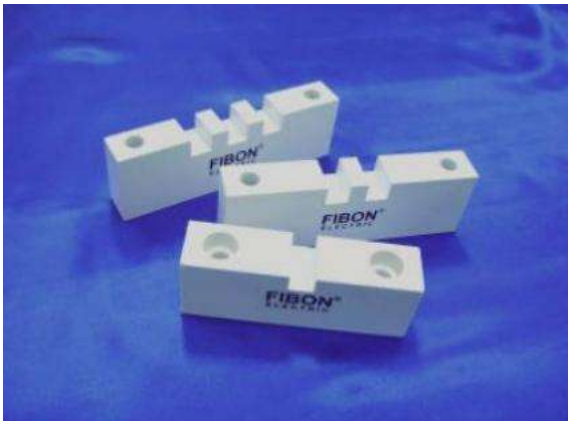
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SW212	2	1110	2340
SW312	3	1110	2340
SW512	5	1110	2340
SW211	2	1110	1110
SW311	3	1110	1110
SW511	5	1110	1110
SG212	2	1110	2340
SG312	3	1110	2340
SG512	5	1110	2340
SG211	2	1110	1110
SG311	3	1110	1110
SG511	5	1110	1110
BK1.6	1.6	980	1980
BK3	3	980	1980
BK4.5	4.5	980	1980
BK6	6	1220	2440
BK10	10	1220	2440
BK12.7	12.7	1220	2440
PC1	1	1220	2440
PC2	2	1220	2440
PC3	3	1220	2440
PC5	5	1220	2440

Vertical Fixed Support (1 Pole)

VFS1P

Fibon VFS has been ASTA tested and certified for withstand currents ranging from 36kA to 100kA for durations of 1 second and 3 seconds. There are 4 models of Vertical Fixed (VFS) Busbar Supports available, designed for 1 pole, 2 poles, 3 poles, and 4 poles.

ITEM CODE	NO.OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	SLOT QTY/ POLE	SLOT WIDTH (S)	SLOT DEPTH (E)	BUSBAR THICKNESS	BUSBAR HEIGHT	HOLE TO HOLE (HH)	THROUGH HOLE (TH)	HOLE DIAMETER (J)	NO.OF HOLE (K)
VFS1PS073	1	20	40	124	1	7	8	6-6.5	30,40,50, 60,80,100, 120,150,160	100	TH	9	2
VFS1PD073	1	20	40	124	2	7	8	6-6.5	40,50,60, 80,100,120, 150	100	TH	9	2
VFS1PT073	1	20	40	124	3	7	8	6-6.5	50,60,80, 100,120	100	TH	9	2
VFS1PS113	1	20	40	124	1	11	10	9.5-10	80,100,120 150,160	100	TH	9	2
VFS1PD112	1	20	40	124	2	11	10	9.5-10	50,60,80, 100,120	100	TH	9	2
VFS1PT113	1	35	40	124	3	11	10	9.5-10	80,100,120 150	100	TH	9	2
VFS1PS133	1	35	40	160	1	13.5	12	9.5-10	80,100,120 150,160,200	124	TH	9	2

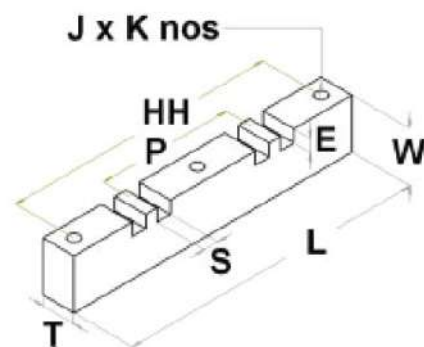
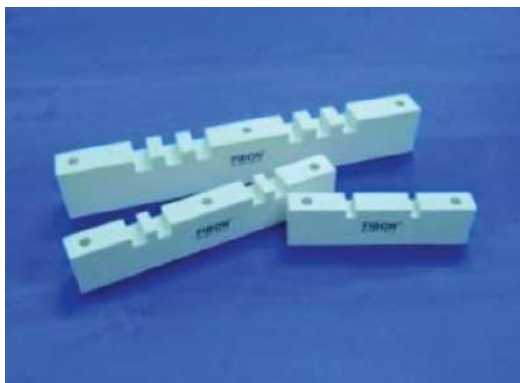


Vertical Fixed Support (2 Poles)

VFS2P

Fibon VFS has been ASTA tested and certified for withstand currents ranging from 36kA to 100kA for durations of 1 second and 3 seconds. There are 4 models of Vertical Fixed (VFS) Busbar Supports available, designed for 1 pole, 2 poles, 3 poles, and 4 poles.

ITEM CODE	NO.O F POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	SLOT QTY/ POLE	SLOT WIDTH (S)	SLOT DEPTH (E)	BUSBAR THICKNESS	BUSBAR HEIGHT	HOLE TO HOLE (HH)	THROUGH HOLE (TH)	HOLE DIAMETER (J)	NO.OF HOLE (K)
VFS2PQ053	2	20	40	400	100	4	5.5	8	190	40,50,60,75,80,100,120	TH	9	3
VFS2PD075	2	20	40	330	75	2	7	8	150	40,50,60,75,80,100	TH	9	2
VFS2PT073	2	20	40	410	100	3	7	8	195	40,50,60,75,80,100,120	TH	9	3
VFS2PS115	2	35	40	525	80	1	11	10	180	40,60,75,100,120	TH	9	3
VFS2PD112	2	35	40	525	90	2	11	10	180	40,60,75,100,120,150	TH	9	3
VFS2PD113	2	35	40	560	100	20	11	10	195	40,60,75,100,120,150	TH	9	3
VFS2PD114	2	35	40	575	101	2	11	10	200	40,60,75,100,120,150	TH	9	3
VFS2PD116	2	35	40	560	110	2	11	10	220	40,60,75,100,120,150	TH	9	3
VFS2PD117	2	35	40	650	120	2	11	10	230	40,60,75,100,120,150	TH	9	3
VFS2PD118	2	35	45	750	130	2	11	10	270	40,60,75,100,120,150	TH	9	3
VFS2PS133	2	35	40	700	110	1	13.5	12	244	100,120,150,160,200	TH	9	3

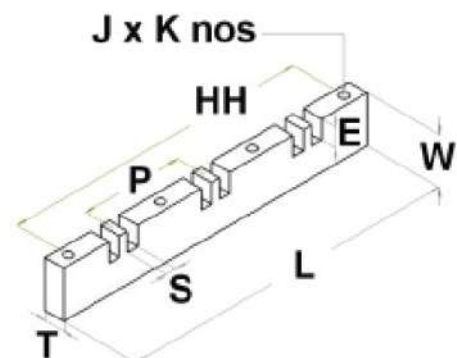


Vertical Fixed Support (3 Poles)

VFS3P

Fibon VFS has been ASTA tested and certified for withstand currents ranging from 36kA to 100kA for durations of 1 second and 3 seconds. There are 4 models of Vertical Fixed (VFS) Busbar Supports available, designed for 1 pole, 2 poles, 3 poles, and 4 poles.

ITEM CODE	NO. OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY /POLE	SLOT WIDTH (S)	SLOT DEPTH (E)	HOLE O HOLE (HH)	BUSBAR HEIGHT	THROUGH HOLE (TH)	HOLE DIA MET ER (J)	NO.OF HOLE (K)
VFS3PS073	3	20	40	450	65	1	7	8	220	40,50,60,75,80,100	TH	9	4
VFS3PD073	3	20	40	450	65	2	7	8	220	40,50,60,75,80,100	TH	9	2
VFS3PD075	3	20	40	600	100	2	7	8	300	40,50,60,75,80,100	TH	9	4
VFS3PT073	3	20	40	600	100	3	7	8	300	40,50,60,75,80,100	TH	9	4
VFS3PS113	3	20	40	600	100	1	11	10	300	40,60,75,100,120,150	TH	9	4
VFS3PD112	3	20	40	490	100	2	11	10	100	40,60,75,100,120,150	TH	9	2
VFS3PD113	3	35	40	815	100	2	11	10	295	40,60,75,100,120,150	TH	9	4
VFS3PD114	3	35	40	975	120	2	11	10	360	40,60,75,100,120,150	TH	9	4
VFSPT113	3	35	40	975	120	3	11	10	360	100,120,150,160,200	TH	9	4
VFS3PS133	3	20	40	600	100	1	13.5	12	300	100,120,150,160,200	TH	9	4
VFS3PD133	3	35	40	825	100	2	13.5	12	300	100,120,150,160,200	TH	9	4
VFS3PD135	3	35	40	975	120	2	13.5	12	360	100,120,150,160,200	TH	9	4

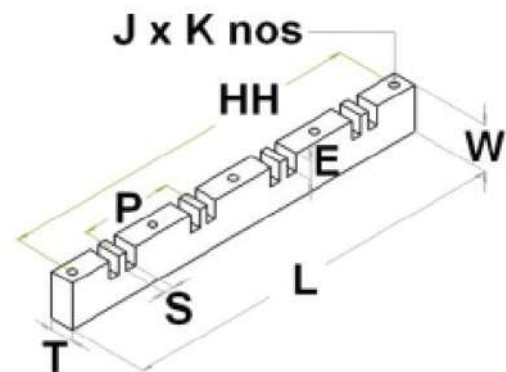


Vertical Fixed Support (4 Poles)

VFS4P

Fibon VFS has been ASTA tested and certified for withstand currents ranging from 36kA to 100kA for durations of 1 second and 3 seconds. There are 4 models of Vertical Fixed (VFS) Busbar Supports available, designed for 1 pole, 2 poles, 3 poles, and 4 poles.

ITEM CODE	NO. OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY /POLE	SLOT WIDTH (S)	SLOT DEPTH (E)	HOLE O HOLE (HH)	BUSBAR HEIGHT	THROUGH HOLE (TH)	HOLE DIA MET ER (J)	NO.OF HOLE (K)
VFS4PS053	4	20	40	515	65	1	5.5	8	255	40,50,60,75, 80,100	TH	9	3
VFS4PD055	4	20	40	540	65	2	5.5	8	270	40,50,60,75, 80,100,120	TH	9	3
VFS4PT053	4	35	40	1050	100	3	5.5	8	390	40,50,60,75, 80,100,120	TH	9	5
VFS4PS075	4	20	40	515	65	1	7	8	255	40,50,60,75, 80,100	TH	9	5
VFS4PD073	4	20	40	515	65	2	7	8	255	40,50,60,75, 80,100	TH	9	5
VFS4PD075	4	20	40	600	75	2	7	8	300	40,50,60,75, 80,100	TH	9	5
VFS4PT075	4	35	40	1060	100	3	7	8	395	40,60,75,100, 120	TH	9	5
VFS4PS112	4	35	40	875	75	1	11	10	320	40,60,75,100, 120,150	TH	9	5
VFS4PD113	4	35	40	1060	100	2	11	10	395	40,60,75,100, 120,150	TH	9	5

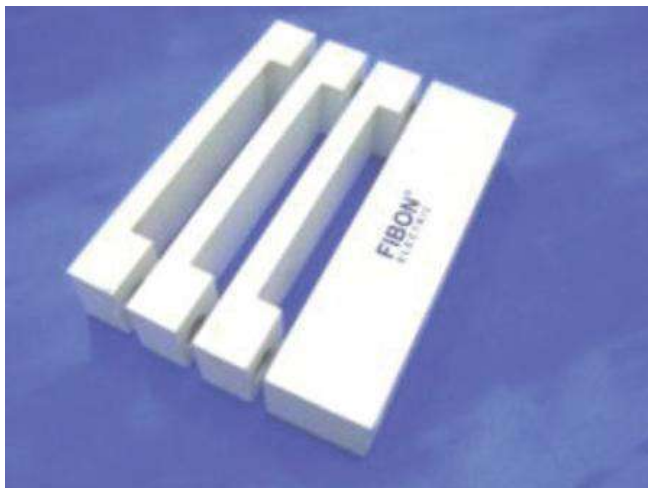


Vertical Adjustable Support – V Series

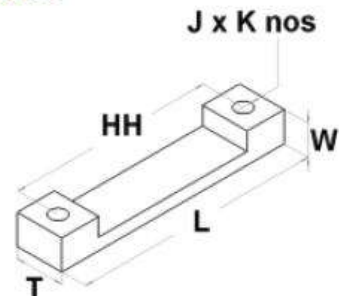
VASV

Fibon VAS is purposefully designed to provide flexible distance between phases, especially for the incoming and outgoing copper busbar of the switchboard. The VAS has two series: the V series and the P series, catering to different busbar systems and needs.

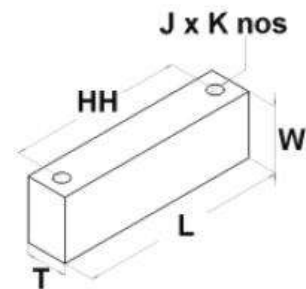
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VASV10S	25	20	205	10	75	112.5	TH	10.5	2
VASV12S	25	20	240	10	100	137.5	TH	10.5	2
VASV14S	25	20	270	10	120	157.5	TH	10.5	2
VASV16S	25	20	315	10	150	187.5	TH	10.5	2
VASV18S	25	20	330	10	160	197.5	TH	10.5	2



VASV_S



VASV_A & VASV_B



Vertical Flat Support

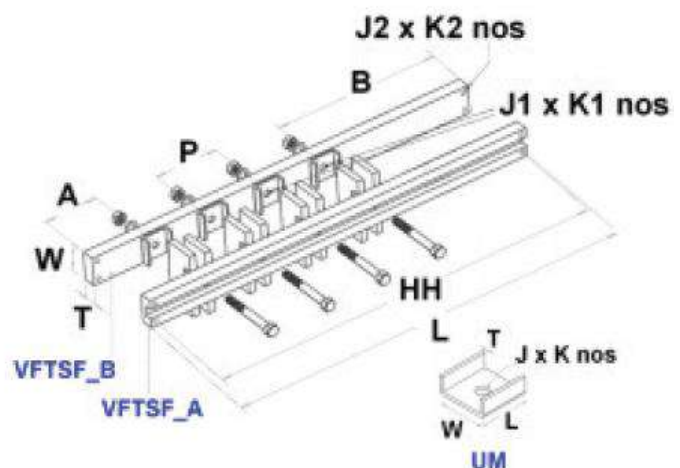
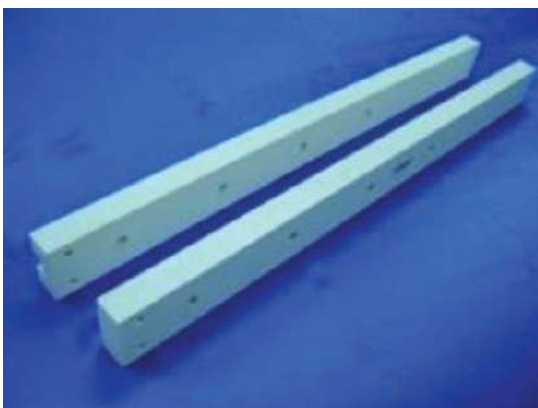
VFTSF

Fibon VFTS is one of the simple designs for vertical fixed main busbar support. The VFTS support comes in two simple types:

- VFTSS is designed with slots to receive the copper busbars.
- VFTSF is designed complete with metal brackets for clamping the copper busbar.

ITEM CODE	NO.OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	(A)	(B)	BUSBAR THICK-NESS	BUSBAR HEIGHT	HOLE TO HOLE (HH)	HOLE DIAMETER (J1)	HOLE QTY (K1)	HOLE DIAMETER (J2)	HOLE QTY (K2)
VFTSF10A	4	20	40	705	75	72	95	10	40,50,60,75	362	8.5	4	7	4
VFTSF12A	4	20	40	1065	75	72	295	10	40,50,60,75,80	562	8.5	4	7	4

ITEM CODE	NO.OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	(A)	(B)	BUSBAR THICK-NESS	BUSBAR HEIGHT	HOLE TO HOLE (HH)	HOLE DIAMETER (J1)	HOLE QTY (K1)	HOLE DIAMETER (J2)	HOLE QTY (K2)
VFTSF10B	4	20	40	705	75	72	95	10	40,50,60,75	362	8.5	4	7	4
VFTSF12B	4	20	40	1065	75	72	295	10	40,50,60,75,80	562	8.5	4	7	4



Horizontal Fixed Support (3 poles)

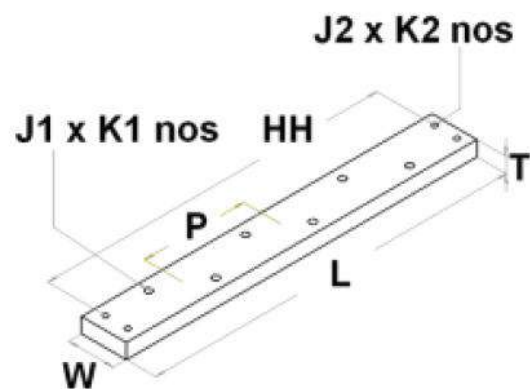
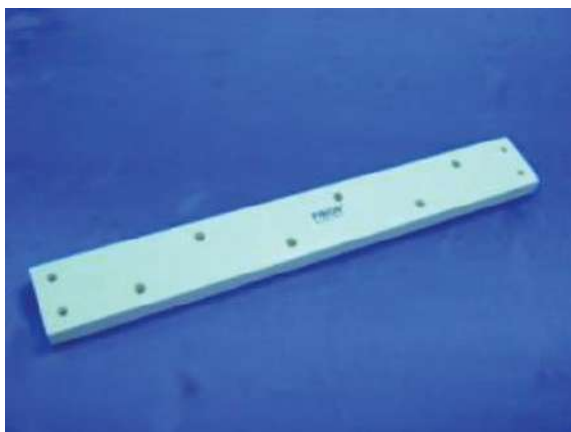
HFS3P

Fibon HFS has been designed into 3 types:

- HFS1P is designed for 1 pole,
- HFS3P is designed for 3 poles, and
- HFS4P is designed for 4 poles.

HFS are available in a variety of sizes to suit different distances between phases and the demand for different amperages of the equipment.

ITEM CODE	NO. OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY /POLE	HOLE TO HOLE (HH)	BUSBAR THICKNESS	BUSBAR HEIGHT	HOLE1 DIAMETER (J1)	HOLE1 QTY (K1)	HOLE2 DIAMETER (J2)	HOLE2 QTY (K2)
HFS3P120503	3	12	30	365	50	1	180	5-10	20,25,30	9	3	9	2
HFS3P120753	3	12	30	515	75	1	265	5-10	30,40,50	9	3	9	2
HFS3P120903	3	12	30	680	90	1	360	5-10	40,50,60	9	3	9	2
HFS3P121003	3	12	30	650	100	1	340	5-10	50,60,80	9	3	9	2
HFS3P121103	3	12	30	720	110	1	380	5-10	60,80	9	3	9	2
HFS3P201203	3	20	40	1110	120	1,2	440	5-12	80,100	9	3	9	4



Horizontal Fixed Support (4 poles)

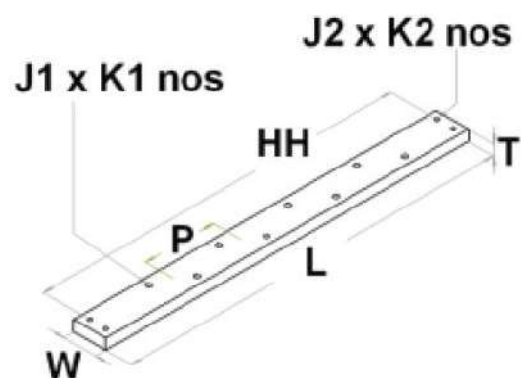
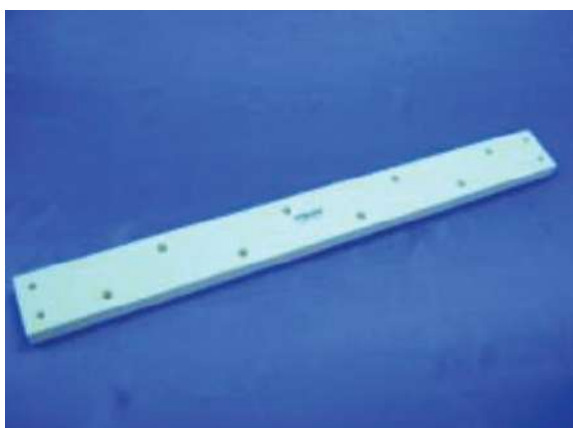
HFS4P

Fibon HFS has been designed into 3 types:

- HFS1P designed for 1 pole,
- HFS3P designed for 3 poles, and
- HFS4P designed for 4 poles.

HFS are available in a variety of sizes to suit different distances between phases and the demand for different amperages of the equipment.

ITEM CODE	NO. OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY /POLE	HOLE TO HOLE (HH)	BUSBAR THICKNESS	BUSBAR HEIGHT	HOLE1 DIAMETER (J1)	HOLE1 QTY(K1)	HOLE2 DIAMETER (J2)	HOLE2 QTY (K2)
HFS4P120503	4	12	30	455	50	1	230	5-10	20,25,30	9	4	9	2
HFS4P120753	4	12	30	650	75	1	340	5-10	30,40,50	9	4	9	2
HFS4P120903	4	12	30	735	90	1	390	5-10	40,50,60	9	4	9	2
HFS4P121003	4	12	30	820	100	1	440	5-10	50,60,80	9	4	9	2
HFS4P121103	4	12	30	910	110	1	490	5-10	60,80	9	4	9	2
HFS4P201203	4	20	40	1080	120	1,2	560	5-12	80,100	9	4	9	2

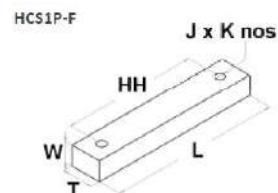
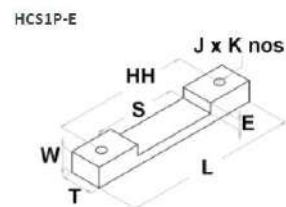
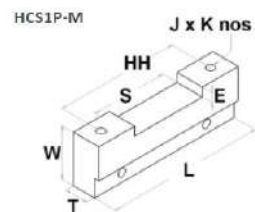


Horizontal Compact Support (1 pole)

HCS1P

Fibon offers Horizontal Compact Support (HSC) for high amperage switchboards up to 7000A. The compact design of clamping the conductors minimizes the space usage in the copper busbar compartment.

ITEM CODE	NO.OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	SLOT WIDTH (S)	SLOT DEPTH (E)	HOLE TO HOLE (HH)	BUSBAR WIDTH	THROUGH HOLE (TH)	HOLE DIAMETER (J)	NO.OF HOLE (K)
HCS1P050E	1	30	40	380	50.2	10.2	100	50	TH	9	2
HCS1P050F	1	30	20	245	-	-	100	-	TH	9	2
HCS1P060E	1	30	20	260	60.2	10.2	110	60	TH	9	2
HCS1P060F	1	30	20	260	-	-	110	-	TH	9	2
HCS1P080E	1	30	20	300	80.2	10.2	130	80	TH	9	2
HCS1P080F	1	30	20	300	-	-	130	-	TH	9	2
HCS1P100E	1	30	20	335	100.2	10.2	150	100	TH	9	2
HCS1P100F	1	30	20	335	-	-	150	-	TH	9	2
HCS1P120E	1	30	20	370	120.2	10.2	170	120	TH	9	2
HCS1P120F	1	30	20	370	-	-	170	-	TH	9	2
HCS1P160E	1	30	20	440	160.2	10.2	210	160	TH	9	2
HCS1P160F	1	30	20	440	-	-	210	-	TH	9	2

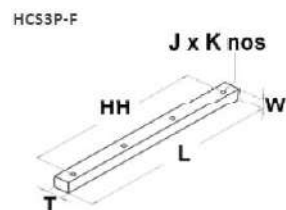
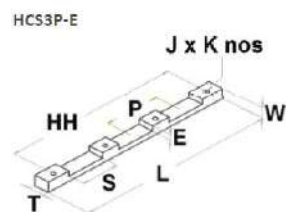
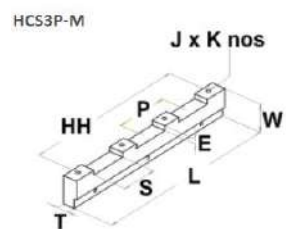
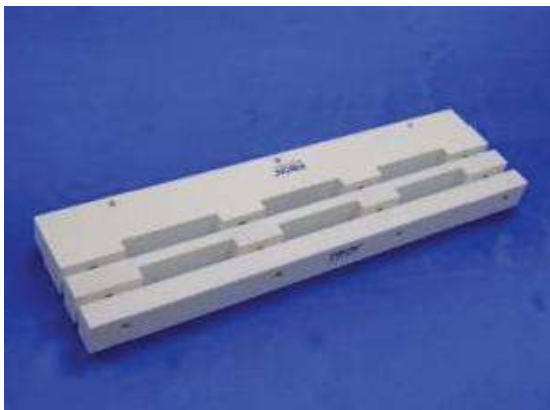


Horizontal Compact Support (3 poles)

HCS3P

Fibon offers Horizontal Compact Support (HSC) for high amperage switchboards up to 7000A. The compact design of clamping the conductors minimizes the space usage in the copper busbar compartment.

ITEM CODE	NO.OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT WIDTH (S)	SLOT DEPTH (E)	HOLE TO HOLE (HH)	BUSBAR WIDTH	THROUGH HOLE (TH)	HOLE DIAMETER (J)	NO.OF HOLE (K)
HCS3P050E	3	30	20	660	90	50.2	10.2	280	50	TH	9	4
HCS3P050F	3	30	20	660	90	-	-	280	-	TH	9	4
HCS3P060E	3	30	20	720	100	60.2	10.2	310	60	TH	9	4
HCS3P060F	3	30	20	720	100	-	-	310	-	TH	9	4
HCS3P080E	3	30	20	840	120	80.2	10.2	370	80	TH	9	4
HCS3P080F	3	30	20	840	120	-	-	370	-	TH	9	4
HCS3P100E	3	30	20	960	140	100.2	10.2	430	100	TH	9	4
HCS3P100F	3	30	20	960	140	-	-	430	-	TH	9	4
HCS3P120E	3	30	20	1080	160	120.2	10.2	490	120	TH	9	4
HCS3P120F	3	30	20	1080	160	-	-	490	-	TH	9	4
HCS3P160E	3	30	20	1320	200	160.2	10.2	610	160	TH	9	4
HCS3P160F	3	30	20	1320	200	-	-	610	-	TH	9	4

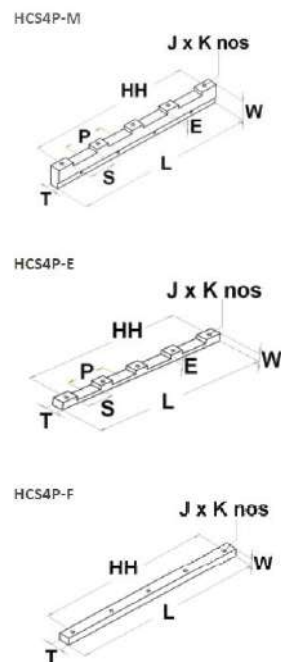
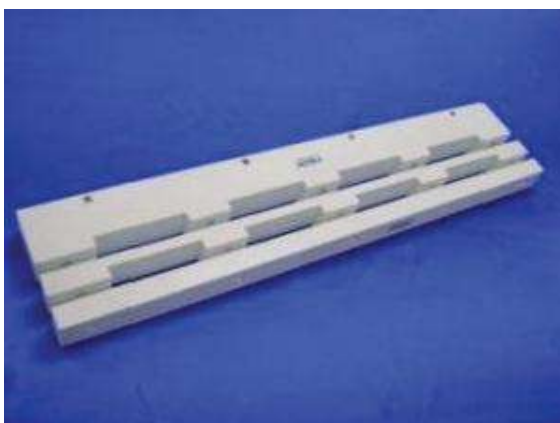


Horizontal Compact Support (4 poles)

HCS4P

Fibon offers Horizontal Compact Support (HSC) for high amperage switchboards up to 7000A. The compact design of clamping the conductors minimizes the space usage in the copper busbar compartment.

ITEM CODE	NO.OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT WIDTH (S)	SLOT DEPTH (E)	HOLE TO HOLE (HH)	BUSBAR WIDTH	THROUGH HOLE (TH)	HOLE DIAMETER (J)	NO.OF HOLE (K)
HCS4P050E	4	30	20	840	90	50.2	10.2	370	50	TH	9	5
HCS4P050F	4	30	20	840	90	-	-	370	-	TH	9	5
HCS4P060E	4	30	20	920	100	60.2	10.2	410	60	TH	9	5
HCS4P060F	4	30	20	920	100	-	-	410	-	TH	9	5
HCS4P080E	4	30	20	1080	120	80.2	10.2	490	80	TH	9	5
HCS4P080F	4	30	20	1080	120	-	-	490	-	TH	9	5
HCS4P100E	4	30	20	1240	140	100.2	10.2	570	100	TH	9	5
HCS4P100F	4	30	20	1240	140	-	-	570	-	TH	9	5
HCS4P120E	4	30	20	1400	160	120.2	10.2	650	120	TH	9	5
HCS4P120F	4	30	20	1400	160	-	-	650	-	TH	9	5
HCS4P160E	4	30	20	1720	200	160.2	10.2	810	160	TH	9	5
HCS4P160F	4	30	20	1720	200	-	-	810	-		9	5

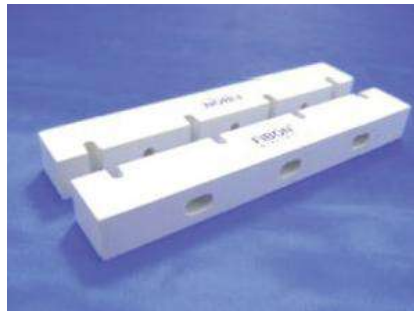


DBSM

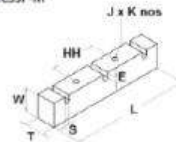
Fibon offers Drawer Busbar Support for withdrawable switchboard compartments. The DBS has been designed for 3 poles or 4 poles. the male and female conductors are supported by either DBSV within the removable drawer or DBSM for the dropper

ITEM CODE	NO. OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY/ POLE	BUSBAR THICKNESS	BUSBAR HEIGHT	HOLE TO HOLE (HH)	THROUGH HOLE (TH)	HOLE DIAMETER (J)	NO.OF HOLE (K)
DBSM3P03	3	25	32	420	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	2
DBSM3P05	3	25	32	420	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	2
DBSM3P07	3	25	32	450	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	2
DBSM3P09	3	25	32	450	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	2
DBSM4P03	4	25	32	600	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	3
DBSM4P05	4	25	32	600	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	3
DBSM4P07	4	25	32	645	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	3
DBSM4P09	4	25	32	645	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	3
DBSM6P03	6	25	32	890	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	5
DBSM6P05	6	25	32	890	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	5
DBSM6P07	6	25	32	950	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	5
DBSM6P09	6	25	32	950	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	5
DBSM8P03	8	25	32	1200	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	7
DBSM8P05	8	25	32	1200	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	7
DBSM8P07	8	25	32	1300	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	7
DBSM8P09	8	25	32	1300	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	7

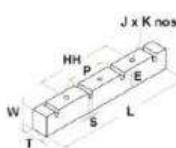
ITEM CODE	NO.OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY/ POLE	BUSBARTHICKNESS	BUSBAR HEIGHT	HOLETO HOLE (HH)	THROUGH HOLE (TH)	HOLE DIAMETER (J)	NO.OF HOLE (K)
DBSM3P03	3	35	40	375	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	2
DBSM3P05	3	35	40	375	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	2
DBSM3P07	3	35	40	400	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	2
DBSM3P09	3	35	40	400	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	2
DBSM4P03	4	35	40	525	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	3
DBSM4P05	4	35	40	525	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	3
DBSM4P07	4	35	40	575	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	3
DBSM4P09	4	35	40	575	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	3
DBSM6P03	6	35	40	800	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	5
DBSM6P05	6	35	40	800	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	5
DBSM6P07	6	35	40	850	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	5
DBSM6P09	6	35	40	850	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	5
DBSM8P03	8	35	40	1075	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	7
DBSM8P05	8	35	40	1075	55	1	6-6.5	40,50,63,80,100,125,160	55	TH	6.5	7
DBSM8P07	8	35	40	1150	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	7
DBSM8P09	8	35	40	1150	60	1	6-6.5	40,50,63,80,100,125,160	60	TH	6.5	7



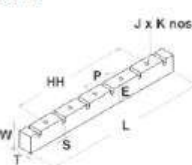
HCS3P-M



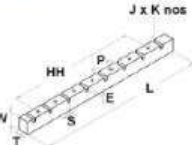
HCS3P-E



DBSM6P



DBSM8P



Load Centre Support (3 poles, 4 poles)

LCS3P, LCS4P

Fibon LCS is designed for use in the low voltage Load Centre Power Distribution Board. It has been made from Halogen Free Material being heat resistant up to 200 degrees Celsius continuously and either 3 or 4 poles option.

ITEM CODE	NO. OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY/ POLE	SLOT WIDTH (S)	SLOT DEPTH (E)	HOLE TO HOLE (HH)	THROUGH HOLE (TH)	HOLE DIAMETER (J)	HOLE QTY(K)
LCS3P03	3	20	30	165	30	3	7	12.5	30	TH	5	2
LCS3P05	3	20	30	165	30	3	7	15.5	30	TH	5	2
LCS3P07	3	20	30	165	30	3	7	20.5	30	TH	5	2

ITEM CODE	NO. OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY/ POLE	SLOT WIDTH (S)	SLOT DEPTH (E)	HOLE TO HOLE (HH)	THROUGH HOLE (TH)	HOLE DIAMETER (J)	HOLE QTY(K)
LCS4P03	4	20	30	220	30	4	7	12.5	30	TH	5	3
LCS4P05	4	20	30	220	30	4	7	15.5	30	TH	5	3
LCS4P07	4	20	30	220	30	4	7	20.5	30	TH	5	3

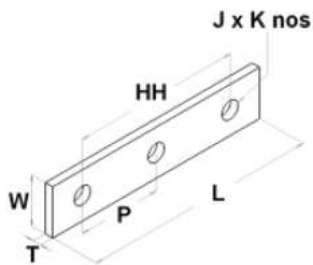
ITEM CODE	NO. OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY/ POLE	SLOT WIDTH (S)	SLOT DEPTH (E)	HOLE TO HOLE (HH)	THROUGH HOLE (TH)	HOLE DIAMETER (J)	HOLE QTY(K)
LCS3P03	3	20	40	180	30	3	7	12.5	30	TH	5	2
LCS3P05	3	20	40	180	30	3	7	15.5	30	TH	5	2
LCS3P07	3	20	40	180	30	3	7	20.5	30	TH	5	2

ITEM CODE	NO. OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY/ POLE	SLOT WIDTH (S)	SLOT DEPTH (E)	HOLE TO HOLE (HH)	THROUGH HOLE (TH)	HOLE DIAMETER (J)	HOLE QTY(K)
LCS4P03	4	20	40	240	30	4	7	12.5	30	TH	5	3
LCS4P05	4	20	40	240	30	4	7	15.5	30	TH	5	3
LCS4P07	4	20	40	240	30	4	7	20.5	30	TH	5	3

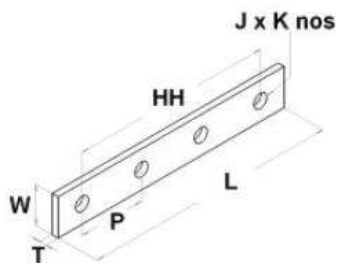
Breaker Protection Support (3 poles, 4 poles)

BPS3P, BPS4P

Fibon BPS has been designed to provide maximum protection to the incoming circuit breaker during the short circuit event explosion. Fibon provides ASTA certified BPS Insulator for MCCB and ACB protection.



ITEM CODE	NO. OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY/POLE	HOLE TO HOLE (HH)	BUSBARTHICKNESS	BUSBAR HEIGHT	HOLE DIAMETER (J1)	HOLE QTY (K1)
BPS3P03	3	5	30	80	25	1	25	3-5	10-15	11	3
BPS3P05	3	5	30	90	30	1	30	3-5	10-20	11	3
BPS3P07	3	5	30	100	35	1	35	3-5	10-25	11	3
BPS3P09	3	5	30	110	45	1	45	3-5	10-35	11	3
BPS3P11	3	5	30	125	50	1	50	3-10	40-40	11	3
BPS3P13	3	5	30	145	60	1	60	3-10	10-50	11	3
BPS3P15	3	5	30	160	70	1	70	3-10	10-60	11	3

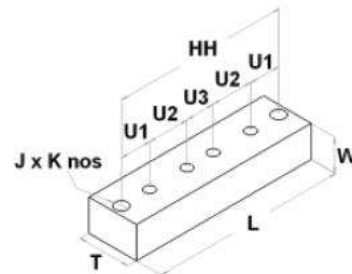
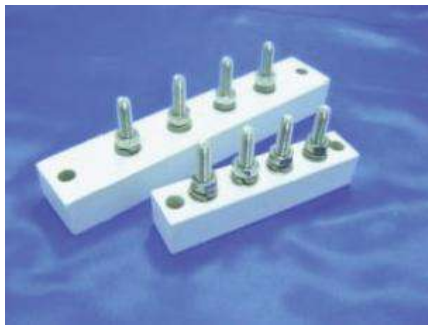


ITEM CODE	NO. OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	INTER-PHASE (P)	SLOT QTY/POLE	HOLE TO HOLE (HH)	BUSBARTHICKNESS	BUSBAR HEIGHT	HOLE DIAMETER (J1)	HOLE QTY (K1)
BPS4P03	4	5	30	105	25	1	25	3-5	10-15	11	4
BPS4P05	4	5	30	120	30	1	30	3-5	10-20	11	4
BPS4P07	4	5	30	130	35	1	35	3-5	10-25	11	4
BPS4P09	4	5	30	160	45	1	45	3-5	10-35	11	4
BPS4P11	4	5	30	170	50	1	50	3-10	10-40	11	4
BPS4P13	4	5	30	200	60	1	60	3-10	10-50	11	4
BPS4P15	4	5	30	225	70	1	70	3-10	10-60	11	4

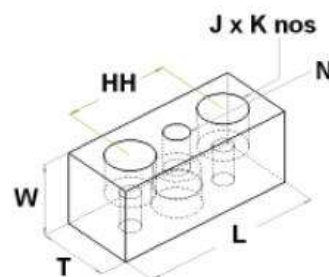
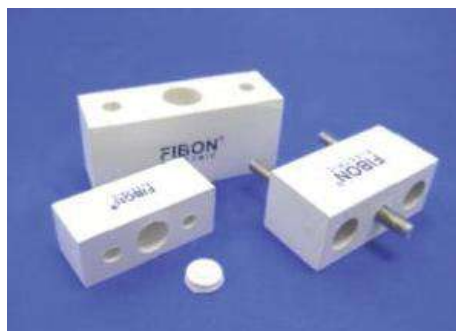
NLB, NLS

Fibon Neutral Link Base has been ASTA Tested, and is designed to replace the DMC compound material that no longer complies with the higher fault level demand of the modern world. The Neutral Link Base is offered in B and S series depending on amperage of the application.

ITEM CODE	NO.OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	(U1)	(U2)	(U3)	HOLE TO HOLE (HH)	THROUGH HOLE (TH)	HOLE DIAMETER (J)	NO.OF HOLE (K)
NLB10	1	25	25	400	14	28	22	106	TH	8	6
NLB12	1	25	30	450	22.5	30	21	126	TH	8	6
NLB14	1	25	40	600	37	35	36	180	TH	10	6

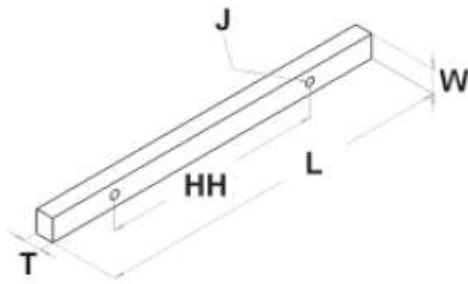
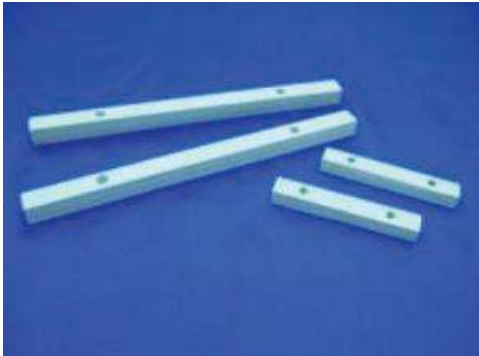


ITEM CODE	NO.OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	HOLE TO HOLE (HH)	THROUGH HOLE (TH)	MIDDLEHOLE DIAMETER (N)	HOLE DIAMETER (J)	NO.OF HOLE (K)
NLS10	1	30	30	160	40	TH	8.5	6.5	3
NLS12	1	30	35	175	45	TH	8.5	6.5	3
NLS14	1	30	35	225	65	TH	10.5	6.5	3



CT2H

Fibon Current Transformer Clamp is high elasticity glassfibre reinforcement polymer. The clamp provides continuous forces to secure and support the current transformer. It is used to replace the materials such as PVC, PP, PC, PS, or thermal plastic that generally degrade due to UV and especially temperature generated from the conductors.



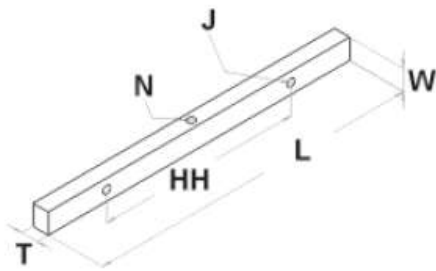
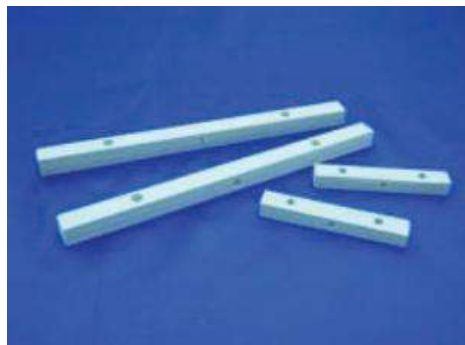
ITEM CODE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	HOLE TO HOLE (HH)	THROUGH HOLE (TH)	HOLE DIAMETER (J)
410150	10	20	60	40	TH	6.5
410151	10	20	75	50	TH	6.5
410152	10	20	75	60	TH	6.5
410153	10	20	90	70	TH	6.5
410154	10	20	90	90	TH	6.5
410155	10	20	135	110	TH	6.5
410156	10	20	135	135	TH	6.5
410157	10	20	150	160	TH	6.5
410100	10	40	100	40	TH	6.5
410101	10	40	120	50	TH	6.5
410102	10	40	120	60	TH	6.5
410103	10	40	215	70	TH	6.5
410104	10	40	215	90	TH	6.5
410105	10	40	225	110	TH	6.5
410106	10	40	225	135	TH	6.5
410107	10	40	250	160	TH	6.5

Current Transformer Clamp

CT3H

Fibon Current Transformer Clamp is high elasticity glass fibre reinforcement polymer. The clamp provides continuous forces to secure and support the current transformer. It is used to replace the materials such as PVC, PP, PC, PS or thermal plastic that generally degrade due to UV and especially temperature generated from the conductors.

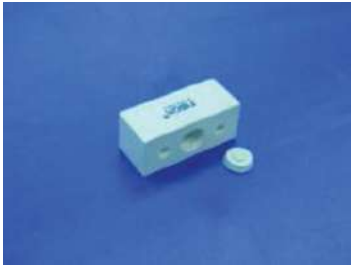
ITEM CODE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	HOLE TO HOLE (HH)	THROUGH H HOLE (TH)	HOLE DIAMETER (J)	MIDDLE HOLE DIAMETER (N)
410250	10	20	60	40	TH	6.5	4.5
410251	10	20	75	50	TH	6.5	4.5
410252	10	20	75	60	TH	6.5	4.5
410253	10	20	90	70	TH	6.5	4.5
410254	10	20	90	90	TH	6.5	4.5
410255	10	20	135	110	TH	6.5	4.5
410256	10	20	135	135	TH	6.5	4.5
410257	10	20	150	160	TH	6.5	4.5
410200	10	40	100	40	TH	6.5	4.5
410201	10	40	120	50	TH	6.5	4.5
410202	10	40	120	60	TH	6.5	4.5
410203	10	40	150	70	TH	6.5	4.5
410204	10	40	150	90	TH	6.5	4.5
410205	10	40	225	110	TH	6.5	4.5
410206	10	40	225	135	TH	6.5	4.5
410207	10	40	250	160	TH	6.5	4.5



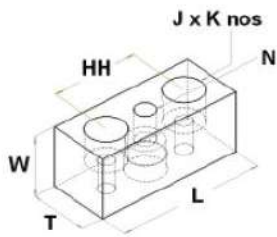
Dough/Sheet Moulding Compound Insulator

NT60, NT110

Fibon DMC/SMC insulators are suitable for use in low amperage equipment and generally used to make parts or housing of components that do not require high mechanical strength.



ITEM CODE	NO.OF POLE	THICKNESS (T)	WIDTH (W)	LENGTH (L)	HOLE TO HOLE (HH)	THROUGH HOLE (TH)	MIDDLE HOLE DIAMETER (N)	HOLE DIAMETER (J)	NO.OF HOLE (K)
NT60	1	25	25	60	35	TH	8	8.5	3



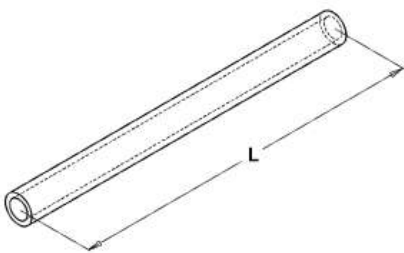
Insulation Tube

TBA-Insulation Tube

Fibon Insulation Tube is used to insulate the metal studs that are close to the conductors, thereby increasing the creepage & clearance distances between the stud or bolt and the conductor.

BUSBAR SUPPORT INSULATION TUBE BUSBAR SUPPORT HEIGHT

ITEM CODE	LENGTH (L)	COUNTER BORE DEPTH	SLOT DEPTH	INNER DIMENSION	OUTER DIMENSION	FROM	TO	BUSBAR HEIGHT
454001	13.5	2	10	9	13.5	45	50	30
454002	23.5	2	10	9	13.5	45	50	40
454003	33.5	2	10	9	13.5	45	50	50
454004	43.5	2	10	9	13.5	45	50	60
454005	53.5	2	10	9	13.5	45	50	70
454006	63.5	2	10	9	13.5	45	50	80
454007	83.5	2	10	9	13.5	45	50	100
454008	103.5	2	10	9	13.5	45	50	120
454009	143.5	2	10	9	13.5	45	50	160



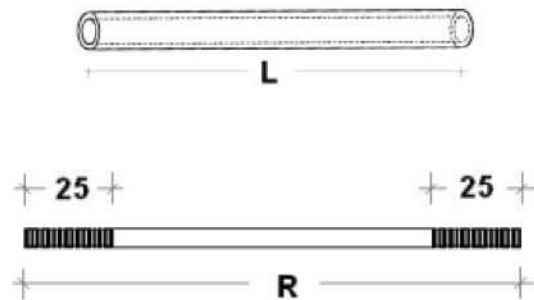
Insulation Stud Set

BUSBAR SUPPORT

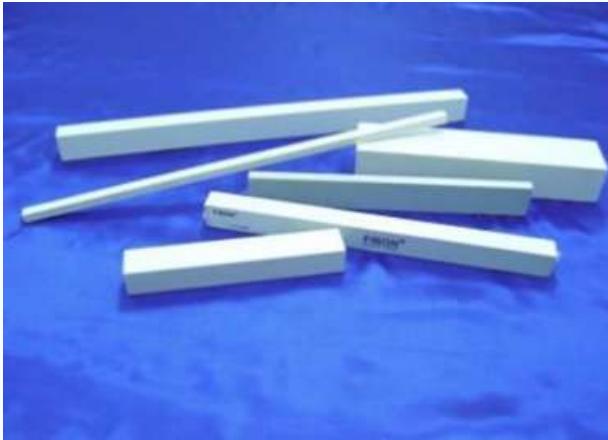
INSULATION TUBE

BUSBAR SUPPORT HEIGHT

ITEM CODE	AMP (A)	LENGT H (L)	COUNTER BORE DEPTH	SLOT DEPTH	INNER DIMENSION	OUTER DIMENSION	FROM	TO	BUSBAR HEIGHT	STUD(R)
809001	200A	13.5	2	10	9	13.5	45	50	30	130
809002	400A	23.5	2	10	9	13.5	45	50	40	140
809003	630A	33.5	2	10	9	13.5	45	50	50	150
809004	1600A	43.5	2	10	9	13.5	45	50	60	160
809005	2000A	53.5	2	10	9	13.5	45	50	70	170
809006	2500A	63.5	2	10	9	13.5	45	50	80	180
809007	3200A	83.5	2	10	9	13.5	45	50	100	200
809008	4000A	103.5	2	10	9	13.5	45	50	120	220
809009	4000A	103.5	2	10	9	13.5	45	50	120	230
809010	5000A/ 6000A	143.5	2	10	9	13.5	45	50	160	280

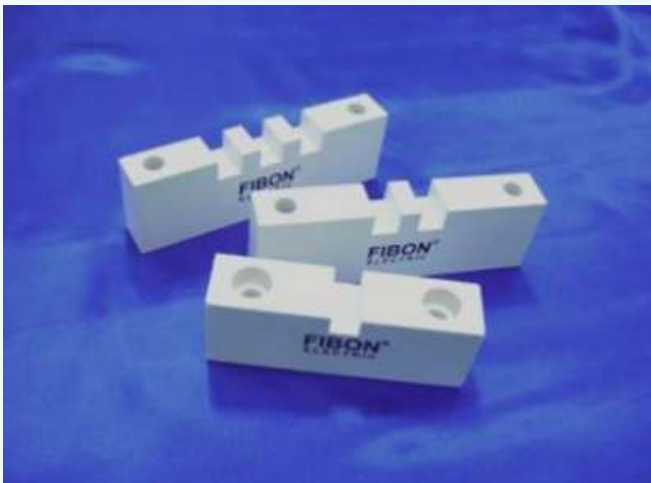


VFS 1P (B1)



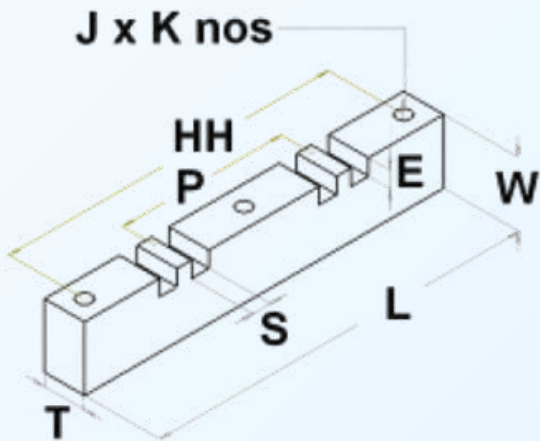
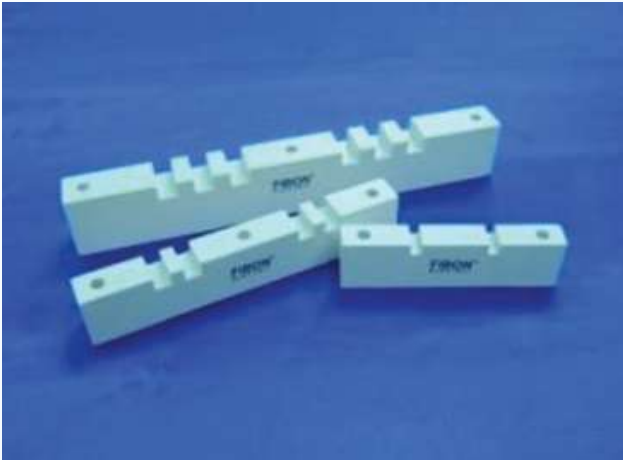
ITEM CODE	ราคา
WB 2025	2250
WB 2040	3750
WB 3540	5550

VFS 1P (C1)



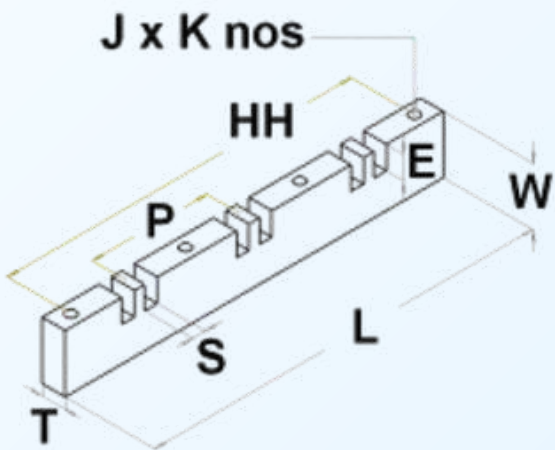
ITEM CODE	ราคา
VFS1PS073	220
VFS1PD073	240
VFS1PT073	240
VFS1PS113	260
VFS1PD112	280
VFS1PT113	440
VFS1PS133	480

VFS2P (C2)



ITEM CODE	ราคา
VFS2PQ053	500
VFS2PD075	430
VFS2PT073	510
VFS2PS115	1050
VFS2PD112	1050
VFS2PD113	1100
VFS2PD114	1150
VFS2PD116	1100
VFS2PD117	1300
VFS2PD118	1500
VFS2PS133	1400

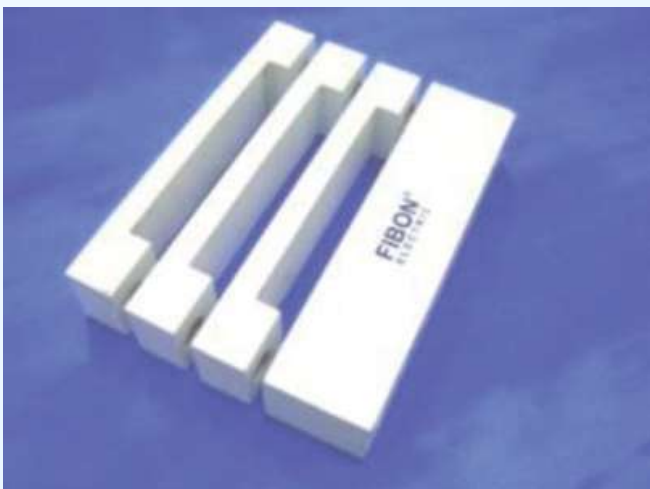
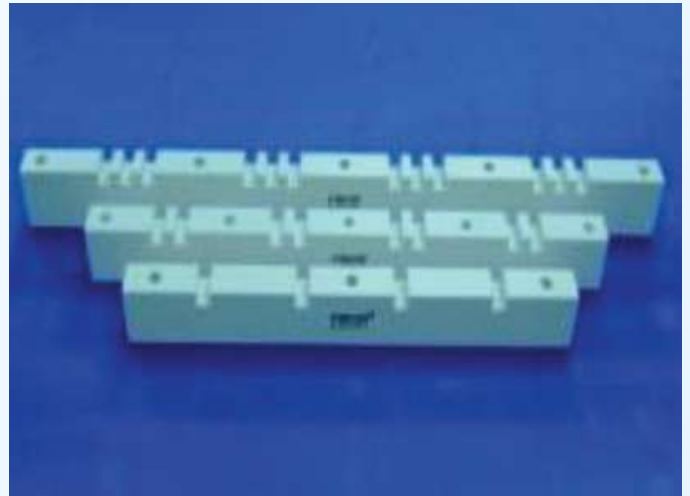
VFS3P (C3)



ITEM CODE	ราคา
VFS3PS073	550
VFS3PD073	550
VFS3PD075	700
VFS3PT073	700
VFS3PS113	700
VFS3PD112	600
VFS3PD113	1700
VFS3PD114	2000
VFSPT113	2000
VFS3PS133	700
VFS3PD133	1700
VFS3PD135	2000

VFS4P (C4)

ITEM CODE	ราคา
VFS4PS053	620
VFS4PD055	650
VFS4PT053	1100
VFS4PS075	620
VFS4PD073	620
VFS4PD075	800
VFS4PT075	1100
VFS4PS112	1750
VFS4PD113	2100



VASV (C5)

ITEM CODE	ราคา
VASV10S	205
VASV12S	240
VASV14S	270
VASV16S	315
VASV18S	330

VFTSF (C6)

ITEM CODE	ราคา
VFTSF10A	705
VFTSF12A	1065

ITEM CODE	ราคา
VFTSF10B	705
VFTSF12B	1065

HFS3P (D1)

ITEM CODE	ราคา
HFS3P120503	365
HFS3P120753	515
HFS3P120903	680
HFS3P121003	650
HFS3P121103	720
HFS3P201203	1110

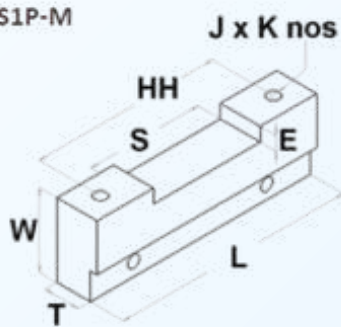
HFS4P (D2)

ITEM CODE	ราคา
HFS4P120503	455
HFS4P120753	650
HFS4P120903	735
HFS4P121003	820
HFS4P121103	910
HFS4P201203	1080

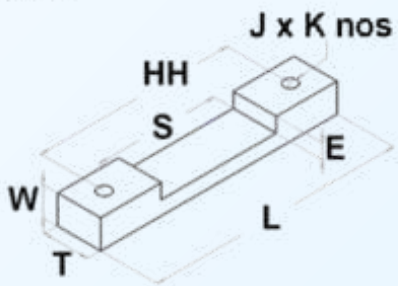
HCS1P (D3)



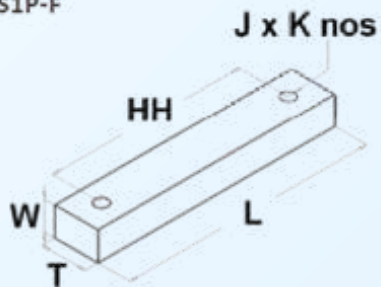
HCS1P-M



HCS1P-E

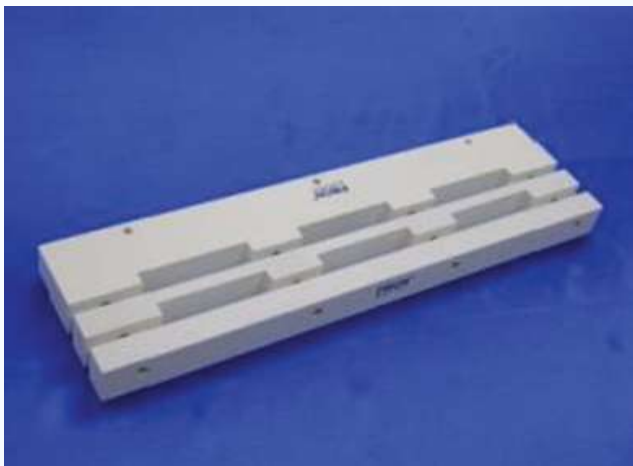


HCS1P-F

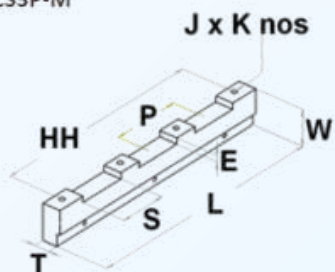


ITEM CODE	ราคา
HCS1P050E	720
HCS1P050F	245
HCS1P060E	260
HCS1P060F	260
HCS1P080E	300
HCS1P080F	300
HCS1P100E	335
HCS1P100F	335
HCS1P120E	370
HCS1P120F	370
HCS1P160E	440
HCS1P160F	440

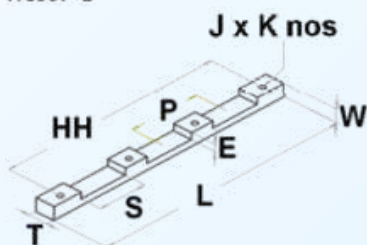
HCS3P (D4)



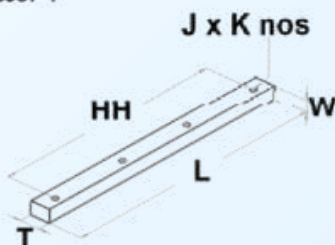
HCS3P-M



HCS3P-E

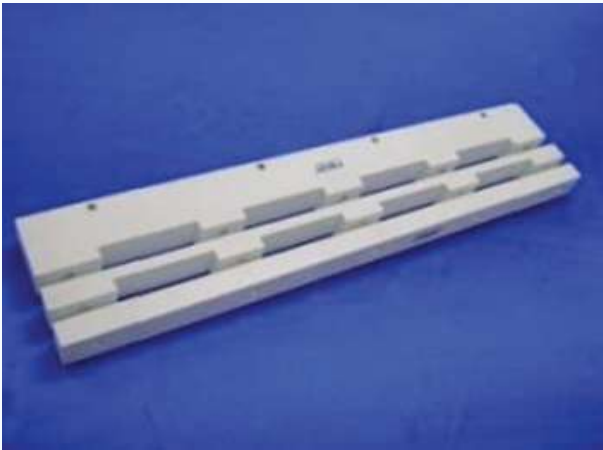


HCS3P-F

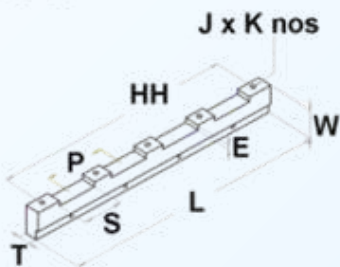


ITEM CODE	ราคา
HCS3P050E	660
HCS3P050F	660
HCS3P060E	720
HCS3P060F	720
HCS3P080E	840
HCS3P080F	840
HCS3P100E	960
HCS3P100F	960
HCS3P120E	1080
HCS3P120F	1080
HCS3P160E	1320
HCS3P160F	1320

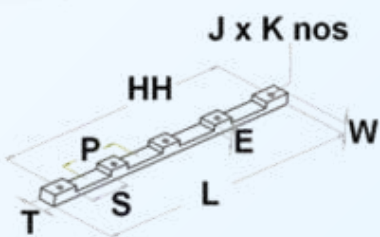
HCS4P (D5)



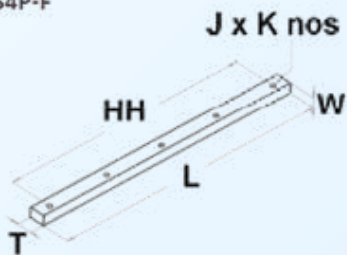
HCS4P-M



HCS4P-E



HCS4P-F



ITEM CODE	ราคา
HCS4P050E	840
HCS4P050F	840
HCS4P060E	920
HCS4P060F	920
HCS4P080E	1080
HCS4P080F	1080
HCS4P100E	1240
HCS4P100F	1240
HCS4P120E	1400
HCS4P120F	1400
HCS4P160E	1720
HCS4P160F	1720

DBSM (E1-E2)

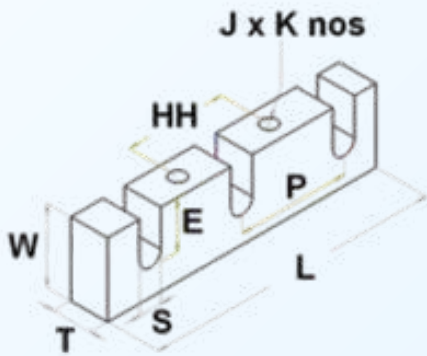
ITEM CODE	ราคา
DBSM3P03	800
DBSM3P05	800
DBSM3P07	880
DBSM3P09	880
DBSM4P03	1200
DBSM4P05	1200
DBSM4P07	1300
DBSM4P09	1300
DBSM6P03	1800
DBSM6P05	1800
DBSM6P07	1900
DBSM6P09	1900
DBSM8P03	2300
DBSM8P05	2300
DBSM8P07	2600
DBSM8P09	2600

ITEM CODE	ราคา
DBSM3P03	750
DBSM3P05	750
DBSM3P07	800
DBSM3P09	800
DBSM4P03	1100
DBSM4P05	1000
DBSM4P07	1100
DBSM4P09	1100
DBSM6P03	1600
DBSM6P05	1600
DBSM6P07	1700
DBSM6P09	1700
DBSM8P03	2150
DBSM8P05	2150
DBSM8P07	2150
DBSM8P09	2150

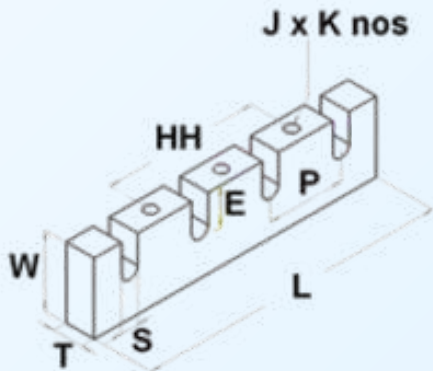
LCS3P, LCS4P (E3)



LCS3P



LCS4P



ITEM CODE	ราคา
LCS3P03	165
LCS3P05	165
LCS3P07	165
ITEM CODE	ราคา
LCS4P03	220
LCS4P05	220
LCS4P07	220
ITEM CODE	ราคา
LCS3P03	180
LCS3P05	180
LCS3P07	180
ITEM CODE	ราคา
LCS4P03	240
LCS4P05	240
LCS4P07	240

BPS3P, BPS4P (E4)



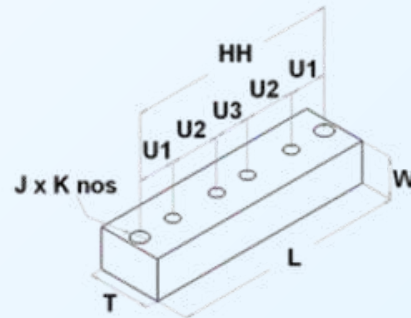
ITEM CODE	ราคา
BPS3P03	80
BPS3P05	90
BPS3P07	100
BPS3P09	110
BPS3P11	125
BPS3P13	145
BPS3P15	160



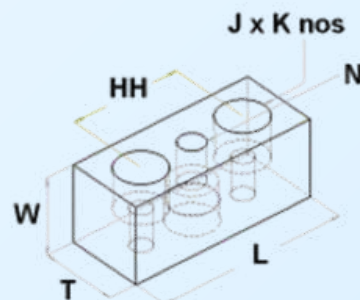
ITEM CODE	ราคา
BPS4P03	105
BPS4P05	120
BPS4P07	130
BPS4P09	160
BPS4P11	170
BPS4P13	200
PS4P15	225

NLB, NLS (F1)

ITEM CODE	ราคา
NLB10	800
NLB12	900
NLB14	1200



ITEM CODE	ราคา
NLS10	320
NLS12	350
NLS14	450



CT2H F2

ITEM CODE	ราคา
410150	100
410151	120
410152	120
410153	140
410154	140
410155	190
410156	190
410157	200
410100	180
410101	200
410102	200
410103	400
410104	400
410105	400
410106	400
410107	450

CT3H F3

ITEM CODE	ราคา
410250	100
410251	120
410252	120
410253	140
410254	140
410255	195
410256	190
410257	200
410200	180
410201	200
410202	200
410203	300
410204	300
410205	400
410206	400
410207	450



5/7 หมู่3 ตำบลลำลูกกา
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MAP

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