



# Accessories

Carefully selected accessories complement the Altech/Spelsberg Enclosure family. A full line, including connectors for wire, cable, or conduit; ground/neutral busbars, mounting plates and hardware, locks, hinge kits, DIN rails, terminal block assemblies and more are available to enhance the overall design capabilities.

Altech/Spelsberg has the right accessories to make your job easier.

- Liquid Tight Strain Relief connectors and connector assemblies
- Mounting plates
- DIN rail support racks
- DIN rails
- Enclosure mounting screws
- Key lock sets
- Hinge kits
- Cover plates
- Combination kits, flange type
- Ground/neutral busbars



**Combination Kits**

Used to combine series specific enclosures to make larger units. Connect horizontally or vertically.

**Fitting Type Combination Kit**

Threaded with locknut seal for connecting sidewalls. Fits standard Metric knockouts. Drilling template included to ensure enclosure ingress integrity.

**Pin Type Combination Set**

For combining AK and AKL Series Enclosures for 150mm and 300mm sides.



**Din Rails**

DIN rails allow for mounting DIN Terminal Blocks and other control components. All required hardware included.

**TS15x5 mm / for TK+Abox Series**

**TS15x5 mm / for TG Series**

(mounting hardware comes with enclosure)



**TS35x7.5 mm / for TK+Abox Series**

**TS35x7.5 mm / for TG Series**

(mounting hardware comes with enclosure)

**TS35x7.5 mm / Special Variants**

**TS35x7.5 mm / for AL Series**



**Component Mounting Screws**

For mounting DIN rails, mounting plates, etc. into molded base holes.

- Select appropriate length
- Self tapping

| Type    | Wall Thickness For Series | Cat. No. | Std. Pack |
|---------|---------------------------|----------|-----------|
| CK/M20  | 2x3 mm                    | 192-020  | 1         |
| CK/M25  | 2x3 mm                    | 192-025  | 1         |
| CK/M32  | 2x3.5 mm                  | 192-032  | 1         |
| CK/AKII | AK, AKL                   | 791-001  | 1         |

| Type      | For Series   | Cat. No. | Std. Pack |
|-----------|--------------|----------|-----------|
| TS15/49.5 | TK77, 97     | 197-049  | 1         |
| TS15/80   | TK97, 99     | 197-080  | 1         |
| TS15/92   | TK1111       | 197-092  | 1         |
| TS15/111  | TK1309, 1313 | 197-111  | 1         |
| TS15/154  | TK1809       | 197-154  | 1         |
| TS15/68   | TG88         | 197-069  | 1         |
| TS15/106  | TG1208       | 197-107  | 1         |
| TS15/110  | TG1212       | 197-110  | 1         |
| TS15/146  | TG1608, 1612 | 197-146  | 1         |
| TS15/186  | TG2012       | 197-186  | 1         |
| TS15/170  | TG2015       | 197-170  | 1         |
| TS15/222  | TG2516       | 197-222  | 1         |
| TS15/285  | TG3023       | 197-285  | 1         |

|          |                                 |         |   |
|----------|---------------------------------|---------|---|
| TS35/81  | TK1111, Abox060                 | 198-081 | 1 |
| TS35/106 | TK1309, 1313, Abox100, HP150    | 198-106 | 1 |
| TS35/144 | TK1809, 1811, 1813, 1818, HP190 | 198-144 | 1 |
| TS35/144 | Abox160                         | 894-016 | 1 |
| TS35/216 | TK2518                          | 198-216 | 1 |
| TS35/216 | Abox350                         | 894-035 | 1 |
| TS35/336 | TK3625                          | 198-336 | 1 |
| TS35/68  | TG88                            | 198-068 | 1 |
| TS35/106 | TG1208                          | 198-107 | 1 |
| TS35/110 | TG1212                          | 198-110 | 1 |
| TS35/146 | TG1608, 1612                    | 198-146 | 1 |
| TS35/186 | TG2012                          | 198-186 | 1 |
| TS35/170 | TG2015                          | 198-170 | 1 |
| TS35/222 | TG2516                          | 198-222 | 1 |
| TS35/285 | TG3023                          | 198-285 | 1 |

|            |                     |         |   |
|------------|---------------------|---------|---|
| CITS35/250 | AKII, AKL           | 562-735 | 1 |
| NS35/216-3 | AKII, AKL, EK12, 24 | 795-030 | 1 |

|          |        |         |   |
|----------|--------|---------|---|
| TS35/110 | AL1212 | 162-009 | 1 |
| TS35/208 | AL2212 | 162-010 | 1 |
| TS35/145 | AL1616 | 162-011 | 1 |
| TS35/245 | AL2616 | 162-012 | 1 |
| TS35/345 | AL3616 | 162-013 | 1 |
| TS35/186 | AL2023 | 162-014 | 1 |
| TS35/266 | AL2823 | 162-015 | 1 |
| TS35/316 | AL3323 | 162-016 | 1 |

| Type         | For Series  | Cat. No. | Std. Pack |
|--------------|-------------|----------|-----------|
| ST/3.9x9 mm  | For         | D-409    | 100       |
| ST/3.9x13 mm | All Plastic | D-413    | 100       |
| ST/3.9x17 mm | Series      | D-417    | 100       |
| ST/3.9x28 mm |             | D-428    | 100       |



**Hinge Kits**

Attach the enclosure cover and base together for easy opening and closing of the enclosure. All required hardware and instructions are included.

- Small Plastic**
- Large Plastic**
- TG Internal Plastic**
- Metal**



**Enclosure Lid Screws**

Replacements for existing screws.

- Short-Gray**
- Long-Gray**
- Short-Black**
- Long-Black**

**Thumb Screw Caps**



**Locksets**

Locksets prevent the unauthorized opening of enclosure lids or doors.

KL Locksets with two keys easily install into hinged transparent doors.

Enclosure Padlock and Hinge set with all mounting accessories.



**Mounting Tabs**

Enables enclosure to be surface mounted. 1 set = 4 mounting tabs

**Plastic**

**Metal**



**Snap In Double Membrane Entry Seals**

- Fits and seals removed Pg knockouts
- IP66
- Features two integral sealing membranes



**Universal Snap In Entry Seal**

- IP55
- Polyethylene
- Cut steps to fit desired cable size



**Snap In Air Vents**

- Allows moisture to escape from the enclosure
- Labyrinth seal to prevent water formation
- IPX4

**Threaded Vent - M12x1.5**

- Provides pressure compensation
- Air permeable and water-tight membrane
- Reduces condensation formation
- IP68

| Type  | For Series                          | Cat. No. | Std. Pack |
|-------|-------------------------------------|----------|-----------|
| HK1   | TK77 - 1809, EK002                  | 190-002  | 1         |
| HK2   | TK1811 - 3625, EK004 - 024, AK, AKL | 190-005  | 1         |
| TGISS | TGxx12 and TG2015-TG3023            | 182-001  | 1         |
| HK-AL | AL1212 - AL3323                     | 154-210  | 1         |

| Type    | For Series                   | Cat. No. | Std. Pack |
|---------|------------------------------|----------|-----------|
| TKLS-SG | TK - low cover, gray         | 190-010  | 1         |
| TKLS-LG | TK - high cover, gray        | 190-011  | 1         |
| TKLS-SB | TK - low cover, transparent  | 190-012  | 1         |
| TKLS-LB | TK - high cover, transparent | 190-013  | 1         |
| TS      | TK, EK, AK, AKL              | 190-001  | 1         |

| Type | For Series           | Cat. No. | Std. Pack |
|------|----------------------|----------|-----------|
| KL2  | AK                   | 706-102  | 1         |
| PL   | AK, AKL, TK1811 & up | 190-100  | 1         |

| Type   | For Series            | Cat. No. | Std. Pack |
|--------|-----------------------|----------|-----------|
| MT1    | TK, EK                | 194-001  | 1         |
| TGABL  | TG                    | 182-002  | 1         |
| MT2    | AKL, AK14 and up      | 793-004  | 1         |
| MT-AL1 | AL66-3 to AL1010-8    | 154-004  | 1         |
| MT-AL2 | AL1212-8 to AL3323-11 | 154-006  | 1         |

| Mounting Hole Type | Cable Dia. mm (in.)    | Cat. No. | Std. Pack |
|--------------------|------------------------|----------|-----------|
| M16                | 5 - 9 (.20 - .35)      | 260-416  | 50        |
| M20                | 7 - 12 (.28 - .47)     | 260-420  | 50        |
| M25                | 9 - 16 (.35 - .63)     | 260-425  | 50        |
| M32                | 14 - 21 (.55 - .83)    | 260-432  | 25        |
| M20                | 5 - 16 (.20 - .63)     | 216-420  | 100       |
| M25                | 5 - 21 (.20 - .83)     | 216-425  | 50        |
| M32                | 13 - 26.5 (.51 - 1.04) | 216-432  | 25        |
| M20                | N/A                    | 262-420  | 100       |
| M12                | N/A                    | 262-412  | 5         |

**Mounting Plates**

**TK Series**

Complete with screws.  
Hole patterns match mounting provisions in enclosure base.



**Plastic laminate** 2.5 mm (.10 in) thick.  
Color: Gray

**Steel** 2.0 mm (.08 in) thick.

**TG Series\***

**Plastic laminate** 2.5 mm (.10 in) thick.  
Color: Gray



**Steel** 2.0 mm (0.08 in) thick.

**Abox Series**

Plastic laminate  
Color: Gray



**Aluminum Series**

Steel plates for the mounting and installation of large / heavy devices and components.  
- For AL Series only



**AK Series**

**Plastic laminate** 4 mm (.16 in) thick  
Color: Gray

**Steel** 2.0 mm (0.08 in) thick.

| Type       | Enclosure Series | Size mm (in.)        | Cat. No. | Std. Pack |
|------------|------------------|----------------------|----------|-----------|
| TKMPI-55   | TK55             | 46x44 (1.81x1.73)    | 195-055  | 5         |
| TKMPI-75   | TK75             | 59x44 (2.32x1.73)    | 195-075  | 5         |
| TKMPI-77   | TK77             | 45x45 (1.77x1.77)    | 195-001  | 1         |
| TKMPI-97   | TK97             | 74x45 (2.91x1.77)    | 195-002  | 1         |
| TKMPI-99   | TK99             | 74x74 (2.91x2.91)    | 195-003  | 1         |
| TKMPI-1111 | TK1111           | 90x90 (3.54x3.54)    | 195-004  | 1         |
| TKMPI-1309 | TK1309           | 110x74 (4.33x2.91)   | 195-009  | 1         |
| TKMPI-1313 | TK1313           | 110x110 (4.33x4.33)  | 195-005  | 1         |
| TKMPI-1809 | TK1809           | 160x74 (6.30x2.91)   | 195-010  | 1         |
| TKMPI-1811 | TK1811           | 150x90 (5.91x3.54)   | 195-006  | 1         |
| TKMPI-1813 | TK1813           | 146x100 (5.75x3.94)  | 195-011  | 1         |
| TKMPI-1818 | TK1818           | 150x150 (5.91x5.91)  | 195-007  | 1         |
| TKMPI-2518 | TK2518           | 220x150 (8.66x5.91)  | 195-008  | 1         |
| TKMPI-3625 | TK3625           | 331x220 (13.03x8.66) | 195-012  | 1         |
| TKMPS-77   | TK77             | 45x45 (1.77x1.77)    | 197-001  | 1         |
| TKMPS-97   | TK97             | 75x45 (2.95x1.77)    | 197-002  | 1         |
| TKMPS-99   | TK99             | 74x74 (2.91x2.91)    | 197-003  | 1         |
| TKMPS-1111 | TK1111           | 90x90 (3.54x3.54)    | 197-004  | 1         |
| TKMPS-1309 | TK1309           | 110x74 (4.33x2.91)   | 197-009  | 1         |
| TKMPS-1313 | TK1313           | 110x110 (4.33x4.33)  | 197-005  | 1         |
| TKMPS-1809 | TK1809           | 160x74 (6.30x2.91)   | 197-010  | 1         |
| TKMPS-1811 | TK1811           | 150x90 (5.91x3.54)   | 197-006  | 1         |
| TKMPS-1813 | TK1813           | 146x100 (5.75x3.94)  | 197-011  | 1         |
| TKMPS-1818 | TK1818           | 150x150 (5.91x5.91)  | 197-007  | 1         |
| TKMPS-2518 | TK2518           | 220x150 (8.66x5.91)  | 197-008  | 1         |
| TKMPS-3625 | TK3625           | 331x220 (13.03x8.66) | 197-012  | 1         |
| TGMPI-88   | TG88             | 73x73 (2.87x2.87)    | 186-003  | 1         |
| TGMPI-1208 | TG1208           | 91x73 (3.58x2.87)    | 186-004  | 1         |
| TGMPI-1212 | TG1212           | 113x93 (4.45x3.58)   | 186-005  | 1         |
| TGMPI-1608 | TG1608           | 131x73 (5.16x2.87)   | 186-006  | 1         |
| TGMPI-1612 | TG1612           | 131x113 (5.16x4.45)  | 186-007  | 1         |
| TGMPI-2012 | TG2012           | 171x113 (6.73x4.45)  | 186-008  | 1         |
| TGMPI-2015 | TG2015           | 171x143 (6.73x5.63)  | 186-009  | 1         |
| TGMPI-2516 | TG2516           | 220x152 (8.66x5.98)  | 186-012  | 1         |
| TGMPI-3023 | TG3023           | 270x220 (10.63x5.98) | 186-013  | 1         |
| TGMPS-88   | TG88             | 73x73 (2.87x2.87)    | 187-003  | 1         |
| TGMPS-1208 | TG1208           | 91x73 (3.58x2.87)    | 187-004  | 1         |
| TGMPS-1212 | TG1212           | 113x93 (4.45x3.58)   | 187-005  | 1         |
| TGMPS-1608 | TG1608           | 131x73 (5.16x2.87)   | 187-006  | 1         |
| TGMPS-1612 | TG1612           | 131x113 (5.16x4.45)  | 187-007  | 1         |
| TGMPS-2012 | TG2012           | 171x113 (6.73x4.45)  | 187-008  | 1         |
| TGMPS-2015 | TG2015           | 171x143 (6.73x5.63)  | 187-009  | 1         |
| TGMPS-2516 | TG2516           | 220x152 (8.66x5.98)  | 187-012  | 1         |
| TGMPS-3023 | TG3023           | 270x220 (10.63x5.98) | 187-013  | 1         |
| MP060      | Abox060          | 83x83 (3.27x3.27)    | 895-006  | 1         |
| MP100      | Abox100          | 109x109 (4.29x4.29)  | 895-010  | 1         |
| MP160      | Abox160          | 149x149 (5.87x5.87)  | 895-016  | 1         |
| MP350      | Abox350          | 217x217 (8.54x8.54)  | 895-035  | 1         |
| ALMPS-88   | AL88             | 68.8x64 (2.71x2.52)  | 155-005  | 1         |
| ALMPS-1308 | AL1308           | 114x68.8 (4.49x2.71) | 155-006  | 1         |
| ALMPS-1808 | AL1808           | 164x68.8 (6.46x2.71) | 155-007  | 1         |
| ALMPS-1010 | AL1010           | 88x88 (3.46x3.46)    | 155-008  | 1         |
| ALMPS-1212 | AL1212           | 109x107 (4.29x4.21)  | 155-009  | 1         |
| ALMPS-2212 | AL2212           | 207x107 (8.15x4.21)  | 155-010  | 1         |
| ALMPS-1616 | AL1616           | 145x143 (5.71x5.63)  | 155-011  | 1         |
| ALMPS-2616 | AL2616           | 245x143 (9.65x5.63)  | 155-012  | 1         |
| ALMPS-3616 | AL3616           | 345x143 (13.6x5.63)  | 155-013  | 1         |
| ALMPS-2023 | AL2023           | 214x184 (8.43x7.24)  | 155-014  | 1         |
| ALMPS-2823 | AL2823           | 264x214 (10.4x8.43)  | 155-015  | 1         |
| ALMPS-3323 | AL3323           | 314x214 (12.4x8.43)  | 155-016  | 1         |
| AKMPI 1    | AK, AKL          | 240x112 (9.45x4.41)  | 795-001  | 1         |
| AKMPI 2    | AK, AKL          | 240x240 (9.45x9.45)  | 795-002  | 1         |
| AKMPI 3    | AK, AKL          | 240x390 (9.45x15.35) | 795-003  | 1         |
| AKMPI 4    | AK, AKL          | 240x540 (9.45x21.26) | 795-004  | 1         |
| AKMPS 2    | AK, AKL          | 240x240 (9.45x9.45)  | 795-012  | 1         |
| AKMPS 3    | AK, AKL          | 240x390 (9.45x15.35) | 795-013  | 1         |
| AKMPS 4    | AK, AKL          | 240x540 (9.45x21.26) | 795-014  | 1         |

\*Mounting hardware included with enclosure.

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- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А