



# 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**

| 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 |

**Component Mounting Screws**

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

- Select appropriate length
- Self tapping



| 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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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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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:

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