

# SCREWS

The multi-purpose screw with a full thread is a real multi-talent and can be used universally.



The Hex-head wood screws are available in the key sizes 10 to 17.



Screws can be stored safely and securely in the **raaco**-assortment box, providing you with an optimal overview (Section 3).



Hex nuts are the most popular and common nuts used in electrical installation.



With the galvanised, serrated washers with external teeth, the surfaces lock in place when tightened.

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| Design | PU | Article no. |
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### Multi-purpose screws

Chipboard screws, galvanised, countersunk head with Pozidriv cross-head



| ø mm | Length mm          | For cross-head<br>Pozidriv size |     |         |
|------|--------------------|---------------------------------|-----|---------|
| 3.0  | 16                 | 1                               | 200 | 19 0005 |
|      | 20                 | 1                               | 200 | 19 0006 |
| 3.5  | 15 (machine screw) | 2                               | 200 | 19 0014 |
|      | 20                 | 2                               | 200 | 19 0015 |
|      | 25 (machine screw) | 2                               | 200 | 19 0016 |
|      | 30                 | 2                               | 200 | 19 0017 |
| 4.0  | 40 (machine screw) | 2                               | 200 | 19 0019 |
|      | 25                 | 2                               | 200 | 19 0026 |
|      | 30                 | 2                               | 200 | 19 0027 |
|      | 35                 | 2                               | 200 | 19 0028 |
|      | 40                 | 2                               | 200 | 19 0029 |
| 4.5  | 45                 | 2                               | 200 | 19 0030 |
|      | 50                 | 2                               | 200 | 19 0031 |
|      | 35                 | 2                               | 200 | 19 0040 |
|      | 40                 | 2                               | 200 | 19 0041 |
|      | 45                 | 2                               | 200 | 19 0042 |
| 5.0  | 50                 | 2                               | 100 | 19 0043 |
|      | 60                 | 2                               | 100 | 19 0044 |
|      | 30                 | 2                               | 200 | 19 0051 |
|      | 40                 | 2                               | 200 | 19 0053 |
| 6.0  | 50                 | 2                               | 100 | 19 0054 |
|      | 60                 | 2                               | 100 | 19 0055 |
|      | 80                 | 2                               | 100 | 19 0056 |
|      | 45                 | 3                               | 100 | 19 0062 |
| 6.0  | 50                 | 3                               | 100 | 19 0063 |
|      | 60                 | 3                               | 100 | 19 0064 |

### Multi-purpose screws

Chipboard screws, galvanised, round head (pan head) with Pozidriv cross-head



| ø mm | Length mm | For cross-head<br>Pozidriv size |     |         |
|------|-----------|---------------------------------|-----|---------|
| 3.5  | 16        | 2                               | 200 | 19 0088 |
|      | 20        | 2                               | 200 | 19 0089 |
|      | 25        | 2                               | 200 | 19 0090 |
|      | 30        | 2                               | 200 | 19 0091 |
|      | 35        | 2                               | 200 | 19 0092 |
| 4.0  | 40        | 2                               | 200 | 19 0093 |
|      | 20        | 2                               | 200 | 19 0098 |
|      | 25        | 2                               | 200 | 19 0099 |
|      | 30        | 2                               | 200 | 19 0100 |
|      | 35        | 2                               | 200 | 19 0101 |
| 4.5  | 40        | 2                               | 200 | 19 0102 |
|      | 45        | 2                               | 200 | 19 0103 |
|      | 50        | 2                               | 200 | 19 0104 |
|      | 25        | 2                               | 200 | 19 0108 |
|      | 30        | 2                               | 200 | 19 0109 |
| 5.0  | 35        | 2                               | 200 | 19 0110 |
|      | 40        | 2                               | 200 | 19 0111 |
|      | 45        | 2                               | 200 | 19 0112 |
|      | 50        | 2                               | 200 | 19 0113 |
|      | 30        | 2                               | 200 | 19 0118 |
| 5.0  | 35        | 2                               | 200 | 19 0119 |
|      | 40        | 2                               | 200 | 19 0120 |
|      | 50        | 2                               | 200 | 19 0121 |
| 6.0  | 60        | 2                               | 200 | 19 0122 |
|      | 60        | 3                               | 100 | 19 0126 |

| Design | PU | Article no. |
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### Multi-purpose screws

Chipboard screws, hardened steel, galvanised, round head (pan head) with internal serrated drive for TORX® tools

| ø mm | Length mm | For TORX® drive | PU  | Article no. |
|------|-----------|-----------------|-----|-------------|
| 3.0  | 20        | T 10            | 200 | 19 1201     |
| 3.5  | 16        | T 15            | 200 | 19 1205     |
|      | 20        | T 15            | 200 | 19 1206     |
|      | 30        | T 15            | 200 | 19 1208     |
|      | 40        | T 15            | 200 | 19 1210     |
| 4.0  | 30        | T 20            | 200 | 19 1215     |
|      | 35        | T 20            | 200 | 19 1216     |
|      | 40        | T 20            | 200 | 19 1217     |
|      | 50        | T 20            | 200 | 19 1219     |
| 4.5  | 40        | T 20            | 200 | 19 1227     |
|      | 45        | T 20            | 200 | 19 1228     |
|      | 50        | T 20            | 200 | 19 1229     |
| 5.0  | 40        | T 25            | 200 | 19 1235     |
|      | 50        | T 25            | 200 | 19 1237     |
|      | 60        | T 25            | 200 | 19 1238     |



### Multi-purpose screws

Chipboard screws, hardened steel, galvanised, countersunk head with internal serrated drive for TORX® tools

| ø mm | Length mm | For TORX® drive | PU  | Article no. |
|------|-----------|-----------------|-----|-------------|
| 3.0  | 16        | T 10            | 200 | 19 1500     |
|      | 20        | T 10            | 200 | 19 1501     |
| 3.5  | 25        | T 15            | 200 | 19 1507     |
|      | 30        | T 15            | 200 | 19 1508     |
|      | 40        | T 15            | 200 | 19 1510     |
| 4.0  | 30        | T 20            | 200 | 19 1515     |
|      | 35        | T 20            | 200 | 19 1516     |
|      | 40        | T 20            | 200 | 19 1517     |
| 4.5  | 45        | T 20            | 200 | 19 1528     |
| 5.0  | 40        | T 25            | 200 | 19 1535     |
|      | 50        | T 25            | 200 | 19 1537     |
|      | 60        | T 25            | 200 | 19 1538     |



### Multi-purpose screws SPAX®

Bright galvanised, countersunk head, T-Star plus

| ø mm | Length mm | Blade size T | PU  | Article no. |
|------|-----------|--------------|-----|-------------|
| 4.0  | 30        | 20           | 200 | 19 3027     |
|      | 35        | 20           | 200 | 19 3028     |
|      | 40        | 20           | 200 | 19 3029     |
| 4.5  | 45        | 20           | 200 | 19 3042     |
| 5.0  | 50        | 20           | 200 | 19 3054     |



### Multi-purpose screws SPAX®

Bright galvanised, round head, T-Star plus

| ø mm | Length mm | Blade size T | PU  | Article no. |
|------|-----------|--------------|-----|-------------|
| 3.5  | 20        | 15           | 200 | 19 3089     |
| 4.0  | 25        | 20           | 200 | 19 3099     |
|      | 30        | 20           | 200 | 19 3100     |
|      | 35        | 20           | 200 | 19 3101     |
|      | 40        | 20           | 200 | 19 3102     |
|      | 45        | 20           | 200 | 19 3103     |
|      | 50        | 20           | 200 | 19 3104     |
| 4.5  | 40        | 20           | 200 | 19 3111     |
|      | 45        | 20           | 200 | 19 3112     |
|      | 50        | 20           | 200 | 19 3113     |
| 5.0  | 40        | 20           | 200 | 19 3120     |
|      | 50        | 20           | 100 | 19 3121     |
|      | 60        | 20           | 100 | 19 3122     |



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### Hex-head wood screws (key screws)

according to DIN 571, galvanised, general requirements according to DIN 267 Part 1

| ø mm | Length mm | For hex<br>key size |    |         |
|------|-----------|---------------------|----|---------|
| 6.0  | 40        | Size 10             | 50 | 19 0210 |
|      | 60        | Size 10             | 25 | 19 0211 |
|      | 80        | Size 10             | 25 | 19 0212 |
| 8.0  | 50        | Size 13             | 50 | 19 0222 |
|      | 60        | Size 13             | 25 | 19 0223 |
|      | 80        | Size 13             | 25 | 19 0224 |
|      | 100       | Size 13             | 25 | 19 0225 |
|      | 120       | Size 13             | 25 | 19 0226 |
| 10.0 | 60        | Size 17             | 10 | 19 0235 |
|      | 80        | Size 17             | 10 | 19 0236 |
|      | 100       | Size 17             | 10 | 19 0237 |
|      | 120       | Size 17             | 10 | 19 0238 |



### Sheet metal screws (self-drilling screws)

according to DIN 7504M (previously N), self-drilling, hardened steel, galvanised, round head / raised head with Phillips cross-head, sheet metal screw thread according to DIN 7970

| ø mm | Length mm | For cross-head<br>Phillips size |     |         |
|------|-----------|---------------------------------|-----|---------|
| 3.5  | 9.5       | 2                               | 100 | 19 0410 |
|      | 13        | 2                               | 100 | 19 0411 |
|      | 16        | 2                               | 100 | 19 0412 |
|      | 19        | 2                               | 100 | 19 0413 |
| 3.9  | 13        | 2                               | 100 | 19 0416 |
|      | 16        | 2                               | 100 | 19 0417 |
|      | 19        | 2                               | 100 | 19 0418 |
|      | 25        | 2                               | 100 | 19 0419 |
| 4.2  | 13        | 2                               | 100 | 19 0422 |
|      | 16        | 2                               | 100 | 19 0423 |
|      | 19        | 2                               | 100 | 19 0424 |
|      | 22        | 2                               | 100 | 19 0425 |
| 4.8  | 25        | 2                               | 100 | 19 0426 |
|      | 13        | 2                               | 100 | 19 0432 |
|      | 16        | 2                               | 100 | 19 0433 |
|      | 19        | 2                               | 100 | 19 0434 |
|      | 22        | 2                               | 100 | 19 0435 |
|      | 25        | 2                               | 100 | 19 0436 |



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## Raised head sheet metal screws

according to ISO 7049, EN 27049, and DIN 7981, form H with point, galvanised, raised head with Phillips cross-head

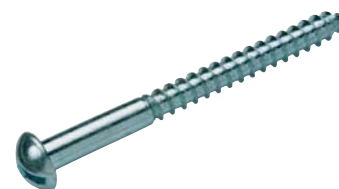
| ø mm | Length mm | For cross-head<br>Phillips size |         |         |
|------|-----------|---------------------------------|---------|---------|
| 3.5  | 9.5       | 2                               | 100     | 19 0300 |
|      | 13.0      | 2                               | 100     | 19 0301 |
|      | 16.0      | 2                               | 100     | 19 0302 |
|      | 19.0      | 2                               | 100     | 19 0303 |
|      | 22.0      | 2                               | 100     | 19 0304 |
| 3.9  | 25.0      | 2                               | 100     | 19 0305 |
|      | 13.0      | 2                               | 100     | 19 0313 |
|      | 16.0      | 2                               | 100     | 19 0314 |
|      | 19.0      | 2                               | 100     | 19 0315 |
|      | 25.0      | 2                               | 100     | 19 0317 |
| 4.2  | 32.0      | 2                               | 100     | 19 0318 |
|      | 9.5       | 2                               | 100     | 19 0324 |
|      | 13.0      | 2                               | 100     | 19 0325 |
|      | 16.0      | 2                               | 100     | 19 0326 |
|      | 19.0      | 2                               | 100     | 19 0327 |
| 4.8  | 22.0      | 2                               | 100     | 19 0328 |
|      | 25.0      | 2                               | 100     | 19 0329 |
|      | 13.0      | 2                               | 100     | 19 0336 |
|      | 16.0      | 2                               | 100     | 19 0337 |
|      | 19.0      | 2                               | 100     | 19 0338 |
|      | 22.0      | 2                               | 100     | 19 0339 |
|      | 25.0      | 2                               | 100     | 19 0340 |
| 32.0 | 2         | 100                             | 19 0341 |         |
|      | 38.0      | 2                               | 100     | 19 0342 |



## Wood screws

according to DIN 96, galvanised, round head with slot

| ø mm | Length mm | For slot-head screwdrivers<br>Slot size (mm) |     |         |
|------|-----------|--|-----|---------|
| 3.5  | 20        | 7.0 x 0.8                                    | 200 | 19 0149 |
| 4.0  | 30        | 8.0 x 1.0                                    | 200 | 19 0160 |
|      | 35        | 8.0 x 1.0                                    | 200 | 19 0161 |
| 5.0  | 40        | 8.0 x 1.0                                    | 200 | 19 0162 |
|      | 50        | 8.0 x 1.0                                    | 200 | 19 0164 |
|      | 30        | 10.0 x 1.2                                   | 200 | 19 0182 |
| 5.0  | 35        | 10.0 x 1.2                                   | 200 | 19 0183 |
|      | 40        | 10.0 x 1.2                                   | 200 | 19 0184 |
|      | 50        | 10.0 x 1.2                                   | 200 | 19 0186 |
|      | 60        | 10.0 x 1.2                                   | 100 | 19 0187 |



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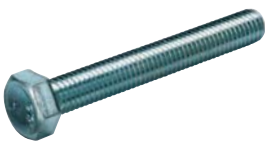
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### Hex-head machine screws

according to DIN 933, with thread up to the head, tempered steel, galvanised, Grade 8.8

ø mm      Length mm

|      |    |         |     |         |
|------|----|---------|-----|---------|
| M 4  | 20 | Size 7  | 100 | 19 0500 |
|      | 30 | Size 7  | 100 | 19 0504 |
|      | 40 | Size 7  | 100 | 19 0506 |
| M 5  | 10 | Size 8  | 100 | 19 0514 |
|      | 16 | Size 8  | 100 | 19 0516 |
|      | 25 | Size 8  | 100 | 19 0520 |
|      | 35 | Size 8  | 100 | 19 0522 |
|      | 45 | Size 8  | 100 | 19 0524 |
| M 6  | 60 | Size 8  | 100 | 19 0528 |
|      | 10 | Size 10 | 100 | 19 0535 |
|      | 16 | Size 10 | 100 | 19 0538 |
|      | 25 | Size 10 | 100 | 19 0542 |
|      | 35 | Size 10 | 100 | 19 0545 |
| M 8  | 45 | Size 10 | 100 | 19 0547 |
|      | 20 | Size 13 | 100 | 19 0562 |
|      | 25 | Size 13 | 100 | 19 0564 |
|      | 30 | Size 13 | 100 | 19 0566 |
|      | 35 | Size 13 | 100 | 19 0567 |
| M 10 | 40 | Size 13 | 100 | 19 0568 |
|      | 50 | Size 13 | 100 | 19 0570 |
|      | 60 | Size 13 | 100 | 19 0572 |
|      | 20 | Size 17 | 100 | 19 0588 |
|      | 30 | Size 17 | 100 | 19 0592 |
| M 12 | 40 | Size 17 | 100 | 19 0594 |
|      | 50 | Size 17 | 50  | 19 0596 |
|      | 70 | Size 17 | 25  | 19 0600 |
|      | 25 | Size 19 | 50  | 19 0614 |
|      | 30 | Size 19 | 50  | 19 0616 |
| M 12 | 40 | Size 19 | 50  | 19 0618 |
|      | 50 | Size 19 | 50  | 19 0620 |
|      | 60 | Size 19 | 50  | 19 0622 |



### Cylinder head screws

according to ISO 1207, EN 21207, and DIN 84, form A, with slot, made of tempered steel, galvanised, Grade 4.8

ø mm      Length mm      Slot size (mm)

|     |    |            |     |         |
|-----|----|------------|-----|---------|
| M 3 | 10 | 5.5 x 0.8  | 100 | 19 0800 |
|     | 16 | 5.5 x 0.8  | 100 | 19 0806 |
|     | 20 | 5.5 x 0.8  | 100 | 19 0808 |
|     | 30 | 5.5 x 0.8  | 100 | 19 0811 |
| M 4 | 10 | 7.0 x 1.2  | 100 | 19 0828 |
|     | 16 | 7.0 x 1.2  | 100 | 19 0832 |
|     | 20 | 7.0 x 1.2  | 100 | 19 0834 |
|     | 25 | 7.0 x 1.2  | 100 | 19 0836 |
|     | 30 | 7.0 x 1.2  | 100 | 19 0837 |
|     | 40 | 7.0 x 1.2  | 100 | 19 0839 |
| M 5 | 10 | 8.5 x 1.2  | 100 | 19 0848 |
|     | 16 | 8.5 x 1.2  | 100 | 19 0862 |
|     | 20 | 8.5 x 1.2  | 100 | 19 0864 |
|     | 25 | 8.5 x 1.2  | 100 | 19 0866 |
|     | 30 | 8.5 x 1.2  | 100 | 19 0867 |
| M 6 | 40 | 8.5 x 1.2  | 100 | 19 0869 |
|     | 10 | 10.0 x 1.6 | 100 | 19 0878 |
|     | 16 | 10.0 x 1.6 | 100 | 19 0882 |
|     | 20 | 10.0 x 1.6 | 100 | 19 0884 |
|     | 25 | 10.0 x 1.6 | 100 | 19 0887 |
|     | 30 | 10.0 x 1.6 | 100 | 19 0888 |
| M 8 | 40 | 10.0 x 1.6 | 100 | 19 0890 |
|     | 30 | 13.0 x 2.0 | 50  | 19 0908 |
|     | 40 | 13.0 x 2.0 | 50  | 19 0910 |



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## Threaded rods (threaded bolts)

according to DIN 976, steel, galvanised, Length 1000 mm

| ø mm |   |         |  |
|------|---|---------|--|
| 4    | 1 | 19 1104 |  |
| 5    | 1 | 19 1105 |  |
| 6    | 1 | 19 1106 |  |
| 8    | 1 | 19 1108 |  |
| 10   | 1 | 19 1110 |  |
| 12   | 1 | 19 1112 |  |



## Hex nuts

according to ISO 4032, EN 24032 and DIN 934, galvanised steel, Grade 8

| ø mm | For hex key size |     |         |
|------|------------------|-----|---------|
| M 3  | Size 5.5         | 100 | 19 2000 |
| M 4  | Size 7           | 100 | 19 2001 |
| M 5  | Size 8           | 100 | 19 2002 |
| M 6  | Size 10          | 100 | 19 2003 |
| M 8  | Size 13          | 100 | 19 2005 |
| M 10 | Size 17          | 100 | 19 2006 |
| M 12 | Size 19          | 50  | 19 2007 |



## Washers

according to ISO 7089, EN 27089, and DIN 125, form A without chamfer, galvanised steel

| For screws | Inner ø mm | Outer ø mm |     |         |
|------------|------------|------------|-----|---------|
| M 3        | 3.2        | 7          | 100 | 19 2600 |
| M 4        | 4.3        | 9          | 100 | 19 2602 |
| M 5        | 5.3        | 10         | 100 | 19 2603 |
| M 6        | 6.4        | 12         | 100 | 19 2604 |
| M 8        | 8.4        | 16         | 100 | 19 2606 |
| M 10       | 10.5       | 20         | 100 | 19 2607 |
| M 12       | 13.0       | 24         | 100 | 19 2608 |



## Washers

according to ISO 7093, EN 27093 and DIN 9021N (mudguard washers),

steel, galvanised, outer diameter = approx. 3 x thread ø

| For screws | Inner ø mm | Outer ø mm |     |         |
|------------|------------|------------|-----|---------|
| M 4        | 4.3        | 12         | 100 | 19 2650 |
| M 5        | 5.3        | 15         | 100 | 19 2651 |
| M 6        | 6.4        | 18         | 100 | 19 2652 |
| M 8        | 8.4        | 24         | 100 | 19 2654 |
| M 10       | 10.5       | 30         | 100 | 19 2656 |



## Serrated washers

according to DIN 6798, form A, with external teeth, steel, galvanised

| For screws | Inner ø mm | Outer ø mm |     |         |
|------------|------------|------------|-----|---------|
| M 3        | 3.2        | 6          | 100 | 19 2700 |
| M 4        | 4.3        | 8          | 100 | 19 2702 |
| M 5        | 5.3        | 9          | 100 | 19 2703 |
| M 6        | 6.4        | 11         | 100 | 19 2704 |
| M 8        | 8.4        | 14         | 100 | 19 2706 |
| M 10       | 10.5       | 18         | 100 | 19 2708 |
| M 12       | 13.0       | 20         | 100 | 19 2710 |



## Spring lock washers

according to DIN 127, form B (smooth), galvanised spring steel, steel

| For screws | Outer ø mm |     |         |
|------------|------------|-----|---------|
| M 3        | 6.2        | 100 | 19 2750 |
| M 4        | 7.6        | 100 | 19 2752 |
| M 5        | 9.2        | 100 | 19 2754 |
| M 6        | 11.8       | 100 | 19 2756 |
| M 8        | 14.8       | 100 | 19 2758 |
| M 10       | 18.1       | 100 | 19 2760 |
| M 12       | 21.1       | 100 | 19 2762 |

