



# Standard Part

## Hexagon Head Bolts - Metric Coarse Thread Miscellaneous - Non-Preferred

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87304422

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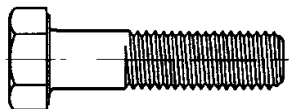
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### REFERENCE DOCUMENTS

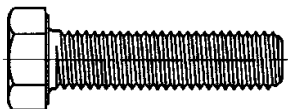
|               |                                                                                       |
|---------------|---------------------------------------------------------------------------------------|
| CNH STPA020   | Fastener Finishes and Material Specifications                                         |
| ISO 4014      | Hexagon head bolts – Product grades A and B                                           |
| ISO 4017      | Hexagon head bolts – Product grades A and B Full Thread                               |
| ISO 888       | Bolts screws and studs – Nominal lengths and thread lengths for general purpose bolts |
| ISO 898-1     | Mechanical properties of fasteners made of carbon steel and alloy steel               |
| ISO 6157-3    | Limits of Surface Discontinuities                                                     |
| ISO 3506-1    | Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1       |
| Iveco 18-1103 | Zinc-Nickel Electrolytic Coating for Ferrous Metal Parts                              |

When a standard is referenced in a drawing or specification, it is understood that the reference is to the latest revision of the standard, unless stated otherwise.

For cross reference listing of company part numbers, go to [PARTsolutions](#).



ISO 4014 Bolt with shank



ISO 4017 Bolt fully threaded

General Specifications: ISO 4014, 4017

Finish and Material Specifications: CNH STPA020

Stainless Steel Material A4-80 per ISO 3506-1

Typical part description for BOM's and CAD drawings

BOLT, M12X50 8.8 DAC

Bolts and screws shall be free from burrs, seams, laps, loose scale, irregular surfaces and any defects affecting their serviceability (ISO 6157-3).

Tables 1 - 3. Bolts with Heads per Current ISO Standards

Table 1. Coarse Thread Metric Hexagon Head Bolts – General Specifications

Table 2. Bolts Fully Threaded or have Special Thread Length.

Table 3. Bolts with Unthreaded Shanks.

Tables 4 - 6. Bolts with Heads per Obsolete DIN Standards

Table 4. General Specifications same as "ISO" except for Head Dimensions

Table 5. Bolts with Heads per DIN 933 – Fully Threaded

Table 6. Bolts with Heads per DIN 931 – Unthreaded Shanks

| AUTHOR            | APPROVED BY       | ECO NO.  | CNH INDUSTRIAL NUMBER |
|-------------------|-------------------|----------|-----------------------|
| D RAVI<br>23SEP26 | A KHAN<br>23SEP26 | 35533384 | <b>87304422</b>       |

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### Head Size Issues.

At the time of the merger, Case was already using ISO standards as a basis for standard hardware parts, while New Holland was generally using DIN standards. CNH standard parts will be specified to ISO standards whenever available.

When we began to combine Case and New Holland standard parts there were systems issues preventing the use of the former Case alpha-numeric part numbers in the New Holland systems. To resolve this problem, it was determined to use the New Holland number as the surviving number whenever one was available. If an all numeric format number was not available, one was created.

Cross references, were based on overall dimensions and performance characteristics. In the case of hex head screws, bolts and nuts, some dimensional mismatches resulted; namely head dimensions as follows:

| Bolt size | Across flats dimension |          |
|-----------|------------------------|----------|
|           | Old DIN                | CNH, ISO |
| M10       | 17                     | 16       |
| M12       | 19                     | 18       |
| M14       | 22                     | 21       |
| M22       | 32                     | 34       |

Bolts in this standard, which may have formerly been supplied to these old across flats dimensions must now be delivered with the current ISO dimensions, unless explicit engineering deviation to use bolts to the old dimensions has been granted.

It is important that all bolts of a given diameter on a product be to the same head size. Therefore, bolts to the old and current standard should not be mixed.

Part numbers that retain the DIN head sizes are shown in Tables 4, 5 and 6.

### Hydrogen Assisted Cracking.

Certain zinc electroplated and mechanical plated high hardness fasteners have been identified as being highly susceptible to hydrogen assisted cracking (HAC). Use of these fasteners is restricted: they shall not be used in new designs after 01OCT2011.



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**Table 1. Coarse Thread Metric Hexagon Head Bolts – General Specifications**

|                              |            |            |          |             |            |             |           |           |
|------------------------------|------------|------------|----------|-------------|------------|-------------|-----------|-----------|
| Bolt Nominal Diameter        | <b>4</b>   | <b>5</b>   | <b>6</b> | <b>8</b>    | <b>10</b>  | <b>12</b>   | <b>14</b> | <b>16</b> |
| Coarse Thread Pitch          | <b>0.7</b> | <b>0.8</b> | <b>1</b> | <b>1.25</b> | <b>1.5</b> | <b>1.75</b> | <b>2</b>  | <b>2</b>  |
| Length of thread for         |            |            |          |             |            |             |           |           |
| Bolt length to 125           | 14         | 16         | 18       | 22          | 26         | 30          | 34        | 38        |
| Bolt length 126 to 200       | 20         | 22         | 24       | 28          | 32         | 36          | 40        | 44        |
| Bolt length: >200            | 33         | 35         | 37       | 41          | 45         | 49          | 53        | 57        |
| Width across flats nom./ max | 7          | 8          | 10       | 13          | 16         | 18          | 21        | 24        |
| Width across corners min.    | 7.66       | 8.79       | 11.05    | 14.38       | 17.77      | 20.03       | 23.36     | 26.75     |
| Head height max.             | 2.93       | 3.85       | 4.16     | 5.45        | 6.58       | 7.68        | 8.98      | 10.18     |

|                              |            |            |            |           |           |            |           |            |
|------------------------------|------------|------------|------------|-----------|-----------|------------|-----------|------------|
| Bolt Nominal Diameter        | <b>18</b>  | <b>20</b>  | <b>22</b>  | <b>24</b> | <b>27</b> | <b>30</b>  | <b>36</b> | <b>42</b>  |
| Coarse Thread Pitch          | <b>2.5</b> | <b>2.5</b> | <b>2.5</b> | <b>3</b>  | <b>3</b>  | <b>3.5</b> | <b>4</b>  | <b>4.5</b> |
| Length of thread for         |            |            |            |           |           |            |           |            |
| Bolt length to 125           | 42         | 46         | 50         | 54        | 60        | 66         | 78        | 90         |
| Bolt length 126 to 200       | 48         | 52         | 56         | 60        | 66        | 72         | 84        | 96         |
| Bolt length: >200            | 61         | 65         | 69         | 73        | 79        | 85         | 97        | 109        |
| Width across flats nom./ max | 27         | 30         | 34         | 36        | 41        | 46         | 55        | 65         |
| Width across corners min.    | 30.14      | 32.95      | 37.72      | 39.55     | 45.2      | 50.85      | 60.79     | 71.3       |
| Head height max.             | 11.85      | 12.72      | 14.35      | 15.22     | 17.35     | 19.12      | 22.92     | 27.05      |



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### Thread Miscellaneous - Non-Preferred

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Table 2. Bolts Fully Threaded or Special Thread Length

| Table 2. Fully Threaded or Special |        |               |          |        |             |
|------------------------------------|--------|---------------|----------|--------|-------------|
| Nom Dia                            | Length | Thread Length | Material | Finish | Part Number |
| 4                                  | 10     | FULL          | A4-80    | PLN    | 51487105    |
| 4                                  | 10     | FULL          | 5.8      | ZND    | 10444511    |
| 4                                  | 10     | FULL          | 5.8      | DAC    | 10444514    |
| 4                                  | 12     | FULL          | 5.8      | DAC    | 10444614    |
| 4                                  | 12     | FULL          | 8.8      | DAC    | 90358566    |
| 4                                  | 14     | FULL          | 5.8      | ZND    | 10444711    |
| 4                                  | 14     | FULL          | 10.9     | DAC    | 10444734    |
| 4                                  | 16     | FULL          | 5.8      | DAC    | 10444814    |
| 4                                  | 20     | FULL          | 8.8      | BZN    | 10445027    |
| 4                                  | 35     | FULL          | 8.8      | DAC    | 15210624    |
| 4                                  | 40     | FULL          | 8.8      | DAC    | 47435322    |
| 4                                  | 40     | 10            | 8.8      | BZN    | 412572      |
| 5                                  | 8      | FULL          | 10.9     | DAC    | 10856834    |
| 5                                  | 10     | FULL          | 5.8      | DAC    | 10977514    |
| 5                                  | 10     | FULL          | 8.8      | DAC    | 10977524    |
| 5                                  | 10     | FULL          | 10.9     | DAC    | 10977534    |
| 5                                  | 10     | FULL          | SST      | PLN    | 47562757    |
| 5                                  | 12     | FULL          | 8.8      | DAC    | 10977624    |
| 5                                  | 14     | FULL          | 5.8      | DAC    | 10977714    |
| 5                                  | 14     | FULL          | 8.8      | DAC    | 10977724    |
| 5                                  | 16     | FULL          | 8.8      | BZN    | 10977827    |
| 5                                  | 16     | FULL          | 8.8      | DAC    | 90358243    |
| 5                                  | 16     | FULL          | 10.9     | DAC    | 10977834    |
| 5                                  | 16     | FULL          | A2       | PLN    | 47490768    |
| 5                                  | 18     | FULL          | 8.8      | DAC    | 10977924    |
| 5                                  | 20     | FULL          | 8.8      | PLN    | 10978020    |
| 5                                  | 20     | FULL          | 8.8      | DAC    | 10978024    |
| 5                                  | 22     | FULL          | 5.8      | DAC    | 10978114    |
| 5                                  | 25     | FULL          | 5.8      | ZND    | 10978211    |
| 5                                  | 25     | FULL          | A2-70    | PLN    | 10978280    |
| 5                                  | 25     | FULL          | 8.8      | DAC    | 90358569    |
| 5                                  | 25     | FULL          | 10.9     | DAC    | 10978234    |
| 5                                  | 28     | FULL          | 5.8      | ZND    | 10978311    |
| 5                                  | 30     | FULL          | SST      | PLN    | 87270794    |
| 5                                  | 30     | FULL          | SST      | BLO    | 90358582    |
| 5                                  | 40     | FULL          | 8.8      | DAC    | 15211824    |
| 6                                  | 10     | FULL          | BRS      | PLN    | 10979440    |
| 6                                  | 10     | FULL          | 5.8      | DAC    | 10979414    |
| 6                                  | 10     | FULL          | 8.8      | DAC    | 10979424    |
| 6                                  | 10     | FULL          | 8.8      | PLN    | 10979420    |
| 6                                  | 10     | FULL          | 10.9     | DAC    | 10979434    |
| 6                                  | 12     | FULL          | SST      | PLN    | 87391924    |
| 6                                  | 12     | FULL          | A4-80    | PLN    | 51473414    |

| Table 2. Fully Threaded or Special |        |               |          |        |             |
|------------------------------------|--------|---------------|----------|--------|-------------|
| Nom Dia                            | Length | Thread Length | Material | Finish | Part Number |
| 6                                  | 12     | FULL          | 5.8      | DAC    | 10902014    |
| 6                                  | 12     | FULL          | 8.8      | DAC    | 10902024    |
| 6                                  | 12     | FULL          | 10.9     | DAC    | 90358280    |
| 6                                  | 12     | FULL          | 10.9     | PLN    | 10902030    |
| 6                                  | 14     | FULL          | A4-80    | PLN    | 51473780    |
| 6                                  | 14     | FULL          | 5.8      | DAC    | 10902114    |
| 6                                  | 14     | FULL          | 8.8      | DAC    | 10902124    |
| 6                                  | 14     | FULL          | 10.9     | DAC    | 10902134    |
| 6                                  | 14     | FULL          | 10.9     | PLN    | 10902130    |
| 6                                  | 14     | FULL          | SST      | PLN    | 84600279    |
| 6                                  | 16     | FULL          | 5.8      | ZND    | 10902211    |
| 6                                  | 16     | FULL          | A2-70    | PLN    | 10902280    |
| 6                                  | 16     | FULL          | A4-80    | PLN    | 51473788    |
| 6                                  | 16     | FULL          | 8.8      | BGM    | 90347424    |
| 6                                  | 16     | FULL          | 8.8      | BZN    | 87020138    |
| 6                                  | 16     | FULL          | 8.8      | DAC    | 10902224    |
| 6                                  | 16     | FULL          | 8.8      | PHC    | 87552807    |
| 6                                  | 16     | FULL          | 8.8      | PLN    | 412114      |
| 6                                  | 16     | FULL          | 10.9     | PLN    | 10902230    |
| 6                                  | 16     | FULL          | 10.9     | DAC    | 10902234    |
| 6                                  | 18     | FULL          | 5.8      | PLN    | 10902310    |
| 6                                  | 18     | FULL          | 5.8      | ZND    | 10902311    |
| 6                                  | 18     | FULL          | 8.8      | DAC    | 10902324    |
| 6                                  | 18     | FULL          | 8.8      | BZN    | 10902329    |
| 6                                  | 18     | FULL          | 10.9     | DAC    | 10902334    |
| 6                                  | 20     | FULL          | 5.8      | ZND    | 10902411    |
| 6                                  | 20     | FULL          | 8.8      | PLN    | 10902420    |
| 6                                  | 20     | FULL          | 8.8      | DAC    | 10902424    |
| 6                                  | 20     | FULL          | 8.8      | BGM    | 90382046    |
| 6                                  | 20     | FULL          | 8.8      | BLO    | 47470376    |
| 6                                  | 20     | FULL          | 10.9     | DAC    | 10902434    |
| 6                                  | 20     | FULL          | 12.9     | DAC    | 10902474    |
| 6                                  | 20     | FULL          | A2-70    | PLN    | 51427417    |
| 6                                  | 20     | FULL          | A4-80    | PLN    | 51473794    |
| 6                                  | 22     | FULL          | 8.8      | DAC    | 10902524    |
| 6                                  | 22     | FULL          | 10.9     | DAC    | 10902534    |
| 6                                  | 25     | FULL          | 4.8      | ZND    | 51330015    |
| 6                                  | 25     | FULL          | 5.8      | ZND    | 10902611    |
| 6                                  | 25     | FULL          | 5.8      | DAC    | 10902614    |
| 6                                  | 25     | FULL          | 8.8      | PLN    | 10902620    |
| 6                                  | 25     | FULL          | A2-70    | PLN    | 10902680    |
| 6                                  | 25     | FULL          | A4-80    | PLN    | 51473796    |
| 6                                  | 25     | FULL          | 8.8      | BGM    | 90358860    |

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**Table 2. Fully Threaded or Special**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 6       | 25     | FULL          | 8.8      | BZN    | 84405130    |
| 6       | 25     | FULL          | 8.8      | DAC    | 10902624    |
| 6       | 25     | FULL          | 10.9     | DAC    | 10902634    |
| 6       | 25     | FULL          | 12.9     | DAC    | 10902674    |
| 6       | 28     | FULL          | 8.8      | BGM    | 92145873    |
| 6       | 28     | FULL          | 8.8      | DAC    | 10902724    |
| 6       | 28     | FULL          | 10.9     | DAC    | 10902734    |
| 6       | 30     | FULL          | 8.8      | BGM    | 92087985    |
| 6       | 30     | FULL          | 8.8      | DAC    | 16050624    |
| 6       | 30     | FULL          | 8.8      | DOR    | 87342145    |
| 6       | 30     | FULL          | A2-70    | PLN    | 51448940    |
| 6       | 35     | FULL          | 8.8      | BZN    | 87698769    |
| 6       | 37     | 15            | 8.8      | ZND    | 9815707     |
| 6       | 40     | FULL          | 5.8      | ZND    | 15212711    |
| 6       | 40     | FULL          | 8.8      | DAC    | 15212724    |
| 6       | 40     | FULL          | 8.8      | BZN    | 87698747    |
| 6       | 40     | FULL          | A2-70    | PLN    | 47810232    |
| 6       | 45     | FULL          | 8.8      | DAC    | 15212824    |
| 6       | 60     | FULL          | 8.8      | DOR    | 87342146    |
| 6       | 85     | FULL          | 12.9     | DAC    | 47889976    |
| 6       | 100    | FULL          | 8.8      | DAC    | 90358571    |
| 6       | 150    | 85            | 8.8      | PLN    | 120260      |
| 8       | 8      | FULL          | 8.8      | DAC    | 15857624    |
| 8       | 10     | FULL          | 8.8      | DAC    | 16042924    |
| 8       | 12     | FULL          | 8.8      | PHC    | 87015759    |
| 8       | 12     | FULL          | 5.8      | DAC    | 16043014    |
| 8       | 12     | FULL          | 8.8      | DAC    | 16043024    |
| 8       | 14     | FULL          | SST      | PLN    | 16043180    |
| 8       | 14     | FULL          | 5.8      | DAC    | 16043114    |
| 8       | 14     | FULL          | 8.8      | DAC    | 16043124    |
| 8       | 14     | FULL          | 10.9     | DAC    | 16043134    |
| 8       | 15     | FULL          | 8.8      | PLN    | 84989139    |
| 8       | 16     | FULL          | 5.8      | ZND    | 16043211    |
| 8       | 16     | FULL          | 5.8      | DAC    | 16043214    |
| 8       | 16     | FULL          | 8.8      | PLN    | 412116      |
| 8       | 16     | FULL          | 8.8      | DAC    | 16043224    |
| 8       | 16     | FULL          | 8.8      | BGM    | 5182280     |
| 8       | 16     | FULL          | A2-70    | PLN    | 16043280    |
| 8       | 16     | FULL          | A4-80    | PLN    | 51473821    |
| 8       | 16     | FULL          | 8.8      | PHC    | 87015760    |
| 8       | 16     | FULL          | 8.8      | BZN    | 412555      |
| 8       | 16     | FULL          | 10.9     | PLN    | 9515559     |
| 8       | 16     | FULL          | 10.9     | DAC    | 16043234    |
| 8       | 16     | FULL          | 12R      | DAC    | 16043274    |

**Table 2. Fully Threaded or Special**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 8       | 18     | FULL          | 5.8      | ZND    | 16043311    |
| 8       | 18     | FULL          | 5.8      | DAC    | 16043314    |
| 8       | 18     | FULL          | 8.8      | DAC    | 16043324    |
| 8       | 18     | FULL          | 10.9     | DAC    | 16043334    |
| 8       | 18.6   | 13            | 8.8      | ZND    | 336154      |
| 8       | 20     | FULL          | 5.8      | ZND    | 16043411    |
| 8       | 20     | FULL          | 5.8      | DAC    | 16043414    |
| 8       | 20     | FULL          | 8.8      | BZN    | 87015745    |
| 8       | 20     | FULL          | 8.8      | BGM    | 48063698    |
| 8       | 20     | FULL          | 8.8      | PLN    | 16043420    |
| 8       | 20     | FULL          | A2-70    | PLN    | 16043480    |
| 8       | 20     | FULL          | A4-80    | PLN    | 51473851    |
| 8       | 20     | FULL          | 8.8      | PHC    | 87015761    |
| 8       | 20     | FULL          | 8.8      | POL    | 87646159    |
| 8       | 20     | FULL          | 8.8      | DAC    | 16043424    |
| 8       | 20     | FULL          | 10.9     | DAC    | 16043434    |
| 8       | 20     | FULL          | 10.9     | PLN    | 16043430    |
| 8       | 20     | FULL          | 12R      | DAC    | 16043474    |
| 8       | 20     | FULL          | A2-70    | BLO    | 16043487    |
| 8       | 22     | FULL          | 5.8      | DAC    | 16043514    |
| 8       | 22     | FULL          | 8.8      | PLN    | 120160      |
| 8       | 22     | FULL          | 8.8      | DAC    | 16043524    |
| 8       | 22     | FULL          | 8.8      | BGM    | 5183645     |
| 8       | 22     | FULL          | 8.8      | BLO    | 47470379    |
| 8       | 22     | FULL          | 10.9     | DAC    | 16043534    |
| 8       | 25     | FULL          | 5.8      | ZND    | 16043611    |
| 8       | 25     | FULL          | 8.8      | BGM    | 90509396    |
| 8       | 25     | FULL          | 8.8      | BZN    | 87015747    |
| 8       | 25     | FULL          | 8.8      | DAC    | 16043624    |
| 8       | 25     | FULL          | 8.8      | ZND    | 16043628    |
| 8       | 25     | FULL          | 8.8      | PLN    | 412247      |
| 8       | 25     | FULL          | 8.8      | PHC    | 87023131    |
| 8       | 25     | FULL          | 10.9     | BGM    | 90347420    |
| 8       | 25     | FULL          | 10.9     | DAC    | 16043634    |
| 8       | 25     | FULL          | 10.9     | BZN    | 16043637    |
| 8       | 25     | FULL          | 12R      | DAC    | 16043674    |
| 8       | 25     | FULL          | A2-70    | PLN    | 16043680    |
| 8       | 25     | FULL          | A4-80    | PLN    | 51473855    |
| 8       | 25     | FULL          | 12.9     | PLN    | 440418      |
| 8       | 27.5   | 17            | 8.8      | ZND    | 336153      |
| 8       | 28     | FULL          | 8.8      | DAC    | 16043724    |
| 8       | 30     | FULL          | 5.8      | DAC    | 16043814    |
| 8       | 30     | FULL          | 8.8      | DAC    | 16043824    |
| 8       | 30     | FULL          | 8.8      | PLN    | 87040734    |



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**Table 2. Fully Threaded or Special**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 8       | 30     | FULL          | 8.8      | BZN    | 86637961    |
| 8       | 30     | FULL          | 10.9     | BGM    | 90350921    |
| 8       | 30     | FULL          | 10.9     | BZN    | 47450284    |
| 8       | 30     | FULL          | 10.9     | DAC    | 16043834    |
| 8       | 30     | FULL          | A2-70    | PLN    | 16043880    |
| 8       | 30     | FULL          | A4-80    | PLN    | 51473859    |
| 8       | 30     | FULL          | 10.9     | PLN    | 16043830    |
| 8       | 30     | FULL          | 12.9     | ZNM    | #412153     |
| 8       | 30     | FULL          | 12.9     | DAC    | 47609984    |
| 8       | 32     | FULL          | 8.8      | DAC    | 16042724    |
| 8       | 35     | FULL          | 5.8      | ZND    | 16043917    |
| 8       | 35     | FULL          | 8.8      | BZN    | 87015748    |
| 8       | 35     | FULL          | 8.8      | DAC    | 16043924    |
| 8       | 35     | FULL          | 10.9     | DAC    | 16043934    |
| 8       | 35     | FULL          | 10.9     | PLN    | 16043930    |
| 8       | 35     | FULL          | 10.9     | ZND    | 16043931    |
| 8       | 35     | FULL          | 12.9     | DAC    | 16043974    |
| 8       | 35     | 15            | 10.9     | ZND    | 385772      |
| 8       | 35     | FULL          | A4-80    | PLN    | 51473864    |
| 8       | 36     | 8             | 8.8      | ZND    | 564335      |
| 8       | 40     | FULL          | 4.8      | ZND    | 51333892    |
| 8       | 40     | FULL          | 4.8      | DAC    | 90391649    |
| 8       | 45     | 24            | 8.8      | PLN    | 396161      |
| 8       | 45     | FULL          | 8.8      | DOR    | 51684207    |
| 8       | 45     | FULL          | A2-70    | PLN    | 15213580    |
| 8       | 50     | FULL          | 4.8      | ZND    | 51334441    |
| 8       | 50     | FULL          | 8.8      | BZN    | 87020139    |
| 8       | 50     | FULL          | SST      | PLN    | 939327      |
| 8       | 50     | FULL          | 10.9     | DAC    | 16040734    |
| 8       | 55     | 18            | 8.8      | PLN    | 84191680    |
| 8       | 55     | 29            | 8.8      | ZND    | 9515541     |
| 8       | 60     | FULL          | 8.8      | PLN    | 84440528    |
| 8       | 60     | FULL          | 8.8      | DAC    | 15213724    |
| 8       | 60     | 16            | 8.8      | ZND    | 84005607    |
| 8       | 65     | FULL          | 8.8      | PLN    | 86639026    |
| 8       | 65     | FULL          | A2-70    | PLN    | 15213880    |
| 8       | 70     | FULL          | SST      | PLN    | 955804      |
| 8       | 70     | 49            | 8.8      | BGM    | 91741744    |
| 8       | 70     | 49            | 8.8      | ZND    | 920420      |
| 8       | 80     | FULL          | A2-70    | PLN    | 47968687    |
| 8       | 80     | FULL          | 8.8      | PLN    | 51449789    |
| 8       | 90     | FULL          | 8.8      | PLN    | 87560254    |
| 8       | 90     | FULL          | 8.8      | DAC    | 15214324    |
| 8       | 90     | FULL          | A2-70    | PLN    | 15214380    |
| 8       | 120    |               | 8.8      | ZND    | 336377      |

**Table 2. Fully Threaded or Special**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 8       | 130    | FULL          | A2       | PLN    | 47490766    |
| 10      | 16     | FULL          | 8.8      | PLN    | 412293      |
| 10      | 16     | FULL          | 8.8      | PHC    | 87032781    |
| 10      | 16     | FULL          | 10.9     | PLN    | 86624976    |
| 10      | 20     | FULL          | 8.8      | BGM    | 90347417    |
| 10      | 20     | FULL          | 8.8      | ZN     | 84593996    |
| 10      | 20     | FULL          | 8.8      | BZN    | 412576      |
| 10      | 20     | 10            | 10.9     | PHC    | 84214043    |
| 10      | 20     | FULL          | SST      | PLN    | 51414653    |
| 10      | 20     | FULL          | A4-80    | PLN    | 51473906    |
| 10      | 22     | FULL          | 8.8      | PLN    | 87520953    |
| 10      | 25     | FULL          | 8.8      | ZN     | 84593995    |
| 10      | 25     | FULL          | SST      | PLN    | 412463      |
| 10      | 25     | FULL          | A4-80    | PLN    | 51473907    |
| 10      | 25     | FULL          | 8.8      | PHC    | 87778873    |
| 10      | 25     | FULL          | 8.8      | PLN    | 87015750    |
| 10      | 25     | FULL          | 8.8      | BGM    | 90347414    |
| 10      | 25     | FULL          | 8.8      | BZN    | 87015749    |
| 10      | 25     | FULL          | 10.9     | PLN    | 382364      |
| 10      | 28     | 20            | 8.8      | ZND    | 486248      |
| 10      | 30     | FULL          | 8.8      | BGM    | 90354466    |
| 10      | 30     | FULL          | 8.8      | PHC    | 87032782    |
| 10      | 30     | FULL          | 8.8      | PLN    | 86050233    |
| 10      | 30     | FULL          | 10.9     | PLN    | 73175480    |
| 10      | 30     | FULL          | A4-80    | PLN    | 51473910    |
| 10      | 35     | FULL          | 8.8      | PLN    | 87015751    |
| 10      | 35     | FULL          | 8.8      | PHC    | 87032783    |
| 10      | 35     | FULL          | 8.8      | BZN    | 87015746    |
| 10      | 35     | FULL          | 8.8      | BGM    | 47455770    |
| 10      | 35     | FULL          | 8.8      | POL    | 87012915    |
| 10      | 35     | FULL          | 12.9     | ZNM    | #84078461   |
| 10      | 35     | FULL          | SST      | PLN    | 47461459    |
| 10      | 35     | FULL          | A4-80    | PLN    | 51473911    |
| 10      | 35     | 11            | 8.8      | ZND    | 9513808     |
| 10      | 40     | FULL          | 8.8      | PLN    | 87015564    |
| 10      | 40     | FULL          | 10.9     | DAC    | 90358282    |
| 10      | 40     | FULL          | 12.9     | PHC    | 84404452    |
| 10      | 40     | FULL          | A4-80    | PLN    | 51473912    |
| 10      | 45     | FULL          | 10.9     | PLN    | 92316782    |
| 10      | 50     | FULL          | 8.8      | PLN    | 412295      |
| 10      | 50     | FULL          | 8.8      | BZN    | 51641046    |
| 10      | 50     | FULL          | SST      | PLN    | 84480442    |
| 10      | 55     | 15            | 8.8      | PLN    | 120188      |
| 10      | 60     | FULL          | 8.8      | PLN    | 84018483    |

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# Standard Part

## Hexagon Head Bolts - Metric Coarse Thread Miscellaneous - Non-Preferred

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**Table 2. Fully Threaded or Special**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 10      | 60     | FULL          | 8.8      | DOR    | 87342143    |
| 10      | 64     | 23.5          | 8.8      | ZND    | 4433663     |
| 10      | 70     | FULL          | 8.8      | DOR    | 87535071    |
| 10      | 70     | FULL          | 10.9     | DOR    | 87556948    |
| 10      | 70     | FULL          | SST      | PLN    | 84346909    |
| 10      | 80     | FULL          | SST      | PLN    | 48116711    |
| 10      | 80     | FULL          | 8.8      | BGM    | 92138735    |
| 10      | 80     | FULL          | 10.9     | PLN    | 9515557     |
| 10      | 80     | 35            | 8.8      | PLN    | 555701      |
| 10      | 90     | 75            | 8.8      | ZND    | 522504      |
| 10      | 130    | 26            | 8.8      | ZND    | 84580734    |
| 10      | 130    | 26            | 10.9     | ZND    | 84577051    |
| 10      | 160    | FULL          | 5.6      | PLN    | 539868      |
| 10      | 230    | 80            | 8.8      | ZND    | 412579      |
| 10      | 254    | 55            | 8.8      | PLN    | 378714      |
| 10      | 260    | 80            | 8.8      | ZND    | 412702      |
| 12      | 20     | FULL          | 8.8      | PHC    | 87015757    |
| 12      | 20     | FULL          | 10.9     | PLN    | 9503840     |
| 12      | 20     | FULL          | 12.9     | PLN    | 440410      |
| 12      | 25     | FULL          | 8.8      | PLN    | 87015752    |
| 12      | 25     | FULL          | 10.9     | DAC    | 47418292    |
| 12      | 25     | FULL          | A4-80    | PLN    | 51474796    |
| 12      | 30     | FULL          | 8.8      | BGM    | 90347421    |
| 12      | 30     | FULL          | 8.8      | BZN    | 90333221    |
| 12      | 30     | FULL          | 8.8      | PHC    | 87032784    |
| 12      | 30     | FULL          | 8.8      | PLN    | 412700      |
| 12      | 30     | FULL          | 12.9     | ZNM    | #412677     |
| 12      | 30     | FULL          | 12.9     | PHC    | 47639597    |
| 12      | 30     | FULL          | A4-70    | PLN    | 48096941    |
| 12      | 30     | FULL          | A4-80    | PLN    | 51474805    |
| 12      | 35     | FULL          | 8.8      | PHC    | 87015758    |
| 12      | 35     | FULL          | 10.9     | DAC    | 90358288    |
| 12      | 35     | FULL          | 10.9     | PLN    | 379753      |
| 12      | 35     | FULL          | 12.9     | ZND    | #87672198   |
| 12      | 35     | FULL          | 12.9     | PHC    | 47639602    |
| 12      | 35     | FULL          | A4-80    | PLN    | 51474813    |
| 12      | 38     | FULL          | 8.8      | PLN    | 321716      |
| 12      | 40     | FULL          | 8.8      | BGM    | 90347425    |
| 12      | 40     | FULL          | 8.8      | BZN    | 412554      |
| 12      | 40     | FULL          | 8.8      | DAC    | 90395297    |
| 12      | 40     | FULL          | 8.8      | PLN    | 87015753    |
| 12      | 40     | 27            | 8.8      | ZND    | 9831367     |
| 12      | 40     | FULL          | 10.9     | PLN    | 84238737    |
| 12      | 40     | FULL          | 12.9     | ZNM    | #87376047   |

**Table 2. Fully Threaded or Special**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 12      | 40     | FULL          | A4-80    | PLN    | 51474814    |
| 12      | 44     | 25            | 8.8      | PLN    | 419177      |
| 12      | 45     | FULL          | 8.8      | DAC    | 90358216    |
| 12      | 45     | FULL          | 8.8      | PLN    | 84015507    |
| 12      | 45     | FULL          | 10.9     | BGM    | 51451696    |
| 12      | 45     | FULL          | 10.9     | DAC    | 90358292    |
| 12      | 45     | FULL          | A4-80    | PLN    | 51474816    |
| 12      | 47     | 21            | 8.8      | PLN    | 260049      |
| 12      | 48     | 22            | 8.8      | ZND    | 372975      |
| 12      | 48.5   | 22            | 8.8      | ZND    | 397539      |
| 12      | 50     | 20.5          | 8.8      | ZND    | 412392      |
| 12      | 50     | FULL          | 8.8      | DOR    | 87342144    |
| 12      | 50     | FULL          | 10.9     | DOR    | 90479201    |
| 12      | 55     | FULL          | 8.8      | BLO    | 47481689    |
| 12      | 55     | 19            | 8.8      | ZND    | 333976      |
| 12      | 65     | FULL          | 8.8      | PLN    | 412498      |
| 12      | 65     | 25            | 8.8      | ZND    | 382263      |
| 12      | 70     | 30            | 12.9     | DAC    | 84144655    |
| 12      | 70     | FULL          | 10.9     | ZNM    | 84025877    |
| 12      | 70     | FULL          | 10.9     | DOR    | 91764103    |
| 12      | 90     | FULL          | 8.8      | PHC    | 87022689    |
| 12      | 90     | FULL          | 10.9     | BZN    | 51513665    |
| 12      | 100    | 30            | 12.9     | DAC    | 84144656    |
| 12      | 180    | 115           | 10.9     | ZND    | 412676      |
| 12      | 180    | FULL          | 12.9     | ZND    | #84515565   |
| 12      | 200    | 85            | 12.9     | ZNM    | #84074911   |
| 12      | 200    | 170           | 10.9     | ZND    | 9839346     |
| 12      | 230    | 130           | 8.8      | ZND    | 9837782     |
| 12      | 240    | 73            | 8.8      | ZND    | 84439922    |
| 12      | 360    | 125           | 10.9     | ZND    | 84012195    |
| 12      | 41     | 21            | 8.8      | ZND    | 321488      |
| 14      | 60     | FULL          | 10.9     | PLN    | 4154686     |
| 14      | 65     | FULL          | 10.9     | PLN    | 440421      |
| 14      | 70     | FULL          | 10.9     | DAC    | 87333836    |
| 14      | 70     | FULL          | 10.9     | PLN    | 440422      |
| 16      | 25     | FULL          | 8R       | DAC    | 15013424    |
| 16      | 25     | FULL          | A4-80    | PLN    | 51474932    |
| 16      | 28     | FULL          | 10.9     | DAC    | 11127334    |
| 16      | 30     | FULL          | 10.9     | PLN    | 11127430    |
| 16      | 30     | FULL          | A4-80    | PLN    | 51474936    |
| 16      | 32     | FULL          | 10.9     | DAC    | 15219634    |
| 16      | 35     | FULL          | 8.8      | ZND    | 16249821    |
| 16      | 35     | FULL          | 8.8      | DAC    | 16249824    |
| 16      | 35     | FULL          | 10.9     | PLN    | 11127530    |



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**Table 2. Fully Threaded or Special**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 16      | 35     | FULL          | 10.9     | BZN    | 11127537    |
| 16      | 35     | FULL          | 10.9     | DAC    | 90445002    |
| 16      | 35     | FULL          | A4-80    | PLN    | 51474941    |
| 16      | 35     | 22            | 8.8      | PLN    | 80727814    |
| 16      | 40     | FULL          | 8.8      | DAC    | 90358559    |
| 16      | 40     | FULL          | 8.8      | PLN    | 87015754    |
| 16      | 40     | FULL          | 10.9     | DAC    | 90358535    |
| 16      | 40     | FULL          | 10.9     | DOR    | 87342036    |
| 16      | 40     | FULL          | 10.9     | PLN    | 9515558     |
| 16      | 40     | FULL          | 12.9     | PLN    | 9516481     |
| 16      | 40     | FULL          | A4-80    | PLN    | 51474944    |
| 16      | 40     | 24.5          | 8.8      | ZND    | 412091      |
| 16      | 45     | FULL          | 5.8      | ZND    | 11118711    |
| 16      | 45     | FULL          | 8.8      | DAC    | 90358227    |
| 16      | 45     | FULL          | 8.8      | PLN    | 87015755    |
| 16      | 45     | FULL          | 10.9     | DAC    | 11118734    |
| 16      | 45     | 28            | 10.9     | ZNM    | 84056523    |
| 16      | 45     | FULL          | 12.9     | DAC    | 11118774    |
| 16      | 45     | FULL          | A4-80    | PLN    | 51474951    |
| 16      | 50     | FULL          | BRS      | PLN    | 782864      |
| 16      | 50     | FULL          | 10.9     | PLN    | 99803       |
| 16      | 50     | FULL          | 10.9     | DOR    | 87342037    |
| 16      | 50     | FULL          | 10.9     | DAC    | 11118934    |
| %16     | 50     | FULL          | 10.9     | ZND    | 47635477    |
| 16      | 50     | 28            | 8.8      | PLN    | 80161948    |
| 16      | 50     | FULL          | A4-80    | PLN    | 51474954    |
| 16      | 55     | FULL          | SST      | PLN    | 421217      |
| 16      | 55     | FULL          | 10.9     | BGM    | 51451700    |
| 16      | 55     | FULL          | 10.9     | DAC    | 16041234    |
| 16      | 55     | FULL          | 10.9     | PLN    | 727734      |
| 16      | 55     | FULL          | 12.9     | PLN    | 11119070    |
| 16      | 55     | FULL          | A4-80    | PLN    | 51474958    |
| 16      | 60     | FULL          | 8.8      | PLN    | 87015569    |
| 16      | 60     | FULL          | 8.8      | DAC    | 15219824    |
| 16      | 60     | FULL          | 10.9     | DAC    | 15219834    |
| 16      | 60     | FULL          | 10.9     | BGM    | 51452914    |
| 16      | 60     | FULL          | A4-80    | PLN    | 51474961    |
| 16      | 60     | FULL          | 12.9     | DAC    | 91785097    |
| 16      | 68     | 33            | 8.8      | PLN    | 331831      |
| 16      | 70     | FULL          | 10.9     | DOR    | 90479202    |
| 16      | 70     | FULL          | 12.9     | DAC    | 92136229    |
| 16      | 71     | 29.85         | 8.8      | PLN    | 84032133    |
| 16      | 80     | FULL          | SST      | PLN    | 301618      |
| 16      | 80     | FULL          | 10.9     | PLN    | 9515555     |

**Table 2. Fully Threaded or Special**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 16      | 90     | FULL          | 12.9     | ZNM    | #9818268    |
| 16      | 100    | FULL          | 8.8      | BGM    | 91776276    |
| 16      | 100    | FULL          | 10.9     | PLN    | 84345501    |
| 16      | 100    | FULL          | A4-80    | PLN    | 90329579    |
| 16      | 110    | FULL          | 10.9     | DAC    | 15220734    |
| 16      | 132    | FULL          | 8.8      | PLN    | 332953      |
| 16      | 160    | FULL          | 8.8      | BGM    | 92087984    |
| 16      | 160    | FULL          | 8.8      | PLN    | 84000894    |
| 16      | 180    | 105           | 8.8      | ZND    | 84435244    |
| 16      | 180    | FULL          | 12.9     | DAC    | 92136228    |
| 16      | 190    | 118           | 8.8      | ZND    | 84431211    |
| 16      | 220    | 100           | 8.8      | ZND    | 84437496    |
| 16      | 340    | 100           | 8.8      | PLN    | 84441878    |
| 16      | 450    | FULL          | 10.9     | ZND    | 47864531    |
| 18      | 30     | FULL          | 8.8      | DAC    | 15221424    |
| 18      | 45     | FULL          | 10.9     | DAC    | 16162434    |
| 18      | 45     | FULL          | 10.9     | BZN    | 16162437    |
| 18      | 50     | FULL          | 8.8      | PLN    | 412715      |
| 18      | 50     | FULL          | 10.9     | DAC    | 16047034    |
| 18      | 50     | FULL          | 12.9     | ZNM    | #16047071   |
| 18      | 65     | FULL          | 8.8      | DAC    | 15222124    |
| 18      | 70     | FULL          | 8.8      | DAC    | 15222224    |
| 18      | 70     | FULL          | 10.9     | DAC    | 15222234    |
| 18      | 80     | FULL          | 8.8      | DAC    | 15222424    |
| 18      | 110    | FULL          | 8.8      | DAC    | 15223024    |
| 18      | 125    | FULL          | 10.9     | DAC    | 15223334    |
| 18      | 130    | FULL          | 10.9     | DAC    | 15223434    |
| 18      | 140    | FULL          | 10.9     | DAC    | 15223534    |
| 20      | 50     | FULL          | 10.9     | DAC    | 11124734    |
| 20      | 50     | FULL          | 12.9     | ZNM    | #87301412   |
| 20      | 10     | FULL          | 8.8      | PLN    | 2426835     |
| 20      | 20     | FULL          | SST      | PLN    | 156983      |
| 20      | 25     | FULL          | SST      | PLN    | 650177      |
| 20      | 28     | FULL          | 8.8      | DAC    | 15861224    |
| 20      | 30     | FULL          | 8.8      | DAC    | 47460505    |
| 20      | 30     | FULL          | 10.9     | DAC    | 15861334    |
| 20      | 35     | FULL          | 8.8      | BGM    | 91776675    |
| 20      | 35     | FULL          | 10.9     | DAC    | 11121334    |
| 20      | 35     | FULL          | 10.9     | DOR    | 87635862    |
| 20      | 40     | FULL          | 8.8      | DAC    | 90358232    |
| 20      | 40     | FULL          | 10.9     | BGM    | 92138736    |
| 20      | 40     | FULL          | 10.9     | DAC    | 90358613    |
| 20      | 40     | FULL          | 10.9     | DOR    | 87342055    |
| 20      | 40     | FULL          | 10.9     | PLN    | 87015762    |

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# Standard Part

## Hexagon Head Bolts - Metric Coarse

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**Table 2. Fully Threaded or Special**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 20      | 45     | FULL          | SST      | PLN    | 152729      |
| 20      | 45     | FULL          | 8.8      | DAC    | 11124524    |
| 20      | 45     | FULL          | 10.9     | PLN    | 11124530    |
| 20      | 50     | FULL          | 8.8      | DAC    | 90358233    |
| 20      | 50     | FULL          | 10.9     | BGM    | 92055439    |
| 20      | 50     | FULL          | 10.9     | PLN    | 11124730    |
| 20      | 55     | FULL          | 10.9     | DOR    | 87342045    |
| 20      | 55     | FULL          | 12.9     | DAC    | 11124874    |
| 20      | 55     | FULL          | 10.9     | DAC    | 11124834    |
| 20      | 60     | FULL          | 8.8      | DAC    | 90358604    |
| 20      | 60     | FULL          | 10.9     | BGM    | 92073532    |
| 20      | 60     | FULL          | 10.9     | BLO    | 92757635    |
| 20      | 60     | FULL          | 10.9     | BZN    | 11124937    |
| 20      | 60     | FULL          | 10.9     | DAC    | 11124934    |
| 20      | 60     | FULL          | 10.9     | DOR    | 87342039    |
| 20      | 60     | FULL          | 10.9     | PLN    | 48067940    |
| 20      | 60     | FULL          | 10.9     | ZND    | 87646162*   |
| 20      | 60     | FULL          | 12.9     | ZND    | #84139329   |
| 20      | 65     |               | 10.9     | PLN    | 11125030    |
| 20      | 65     |               | 10.9     | BZN    | 11125037    |
| 20      | 65     | FULL          | 10.9     | DAC    | 15224034    |
| 20      | 70     | FULL          | 10.9     | DAC    | 92089302    |
| 20      | 70     |               | 12.9     | DAC    | 11125174    |
| 20      | 80     | FULL          | 10.9     | BGM    | 92138737    |

**Table 2. Fully Threaded or Special**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 20      | 80     |               | 12.9     | DAC    | 11125374    |
| 20      | 85     | 60            | 10.9     | ZND    | 47862186    |
| 20      | 85     | FULL          | 12.9     | ZNM    | #87301411   |
| 20      | 130    | 95            | 10.9     | ZND    | 87439071    |
| 20      | 160    | 35            | 8.8      | ZND    | 84053832    |
| 20      | 260    | 60            | 8.8      | ZND    | 84037083    |
| 24      | 50     | FULL          | 10.9     | DAC    | 91730569    |
| 24      | 55     | FULL          | 10.9     | DAC    | 16039834    |
| 24      | 70     | FULL          | 10.9     | DAC    | 91701182    |
| 24      | 70     | FULL          | SST      | PLN    | 301621      |
| 24      | 75     | FULL          | SST      | PLN    | 301622      |
| 24      | 80     | FULL          | 10.9     | PLN    | 152614      |
| 24      | 80     | 32            | 8.8      | PLN    | 84022080    |
| 24      | 160    | FULL          | 10.9     | ZND    | 87610711    |
| 24      | 200    | FULL          | SST      | PLN    | 986789      |
| 24      | 200    | 140           | 8.8      | ZND    | 9837787     |
| 24      | 300    | FULL          | 10.9     | ZND    | 90405534    |
| 24      | 350    | 135           | 10.9     | ZND    | 47604116    |
| 24      | 355    | 95            | 10.9     | ZND    | 87015578    |
| 27      | 90     | FULL          | 10.9     | DAC    | 91867577    |
| 30      | 235    | 60            | 10.9     | ZND    | 91759711    |

% Left Hand Thread

\* Use Loctite #204 thread lock starts at end of thread and covers a length of 35mm

# Do not use on new designs after 01OCT2011 (Hydrogen Assisted Cracking-HAC)

**Table 2a. Bolts Fully Threaded or Special Thread Length**

| Table 2a. Fully Threaded or Special |        |               |          |         |             |
|-------------------------------------|--------|---------------|----------|---------|-------------|
| Nom Dia                             | Length | Thread Length | Material | Finish  | Part Number |
| 6                                   | 8      | FULL          | 8.8      | Zn-Ni   | 90506877    |
| 6                                   | 18     | FULL          | 8.8      | ZN-NI-6 | 92030892    |
| 20                                  | 100    | FULL          | 8.8      | ZN-NI-1 | 92272322    |
| 20                                  | 110    | FULL          | 8.8      | Zn-Ni   | 90509414    |
| 20                                  | 120    | FULL          | 8.8      | ZN-NI-1 | 92272323    |

Zn-Ni – Zinc Nickel per Iveco 18-1103 Fe/ZnNi 7 IV

ZN-NI-6 – Per STPA020

ZN-NI-1 – Per STPA020



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Table 3. Bolts with Shanks

| Table 3. Bolts with Shanks |        |               |          |        |             |
|----------------------------|--------|---------------|----------|--------|-------------|
| Nom Dia                    | Length | Thread Length | Material | Finish | Part Number |
| 4                          | 40     |               | 8.8      | DAC    | 90358239    |
| 5                          | 30     |               | 8.8      | DAC    | 10978424    |
| 5                          | 35     |               | 8.8      | BGM    | 91776673    |
| 5                          | 40     |               | 8.8      | PLN    | 87622770    |
| 5                          | 40     |               | 10.9     | PLN    | 10978630    |
| 5                          | 50     |               | 5.8      | ZND    | 10978811    |
| 5                          | 55     | 16            | 5.8      | ZND    | 15201011    |
| 5                          | 70     | 16            | 8.8      | DAC    | 15201224    |
| 6                          | 25     |               | 8.8      | BZN    | 84405129    |
| 6                          | 30     |               | 5.8      | ZND    | 10902811    |
| 6                          | 30     |               | 8.8      | PLN    | 10902820    |
| 6                          | 30     |               | A4-80    | PLN    | 51473802    |
| 6                          | 30     |               | 8.8      | DAC    | 10902824    |
| 6                          | 30     |               | 12.9     | DAC    | 10902874    |
| 6                          | 32     |               | 8.8      | DAC    | 10902924    |
| 6                          | 35     |               | 5.8      | ZND    | 10903011    |
| 6                          | 35     |               | 8.8      | DAC    | 10903024    |
| 6                          | 35     |               | 10.9     | PLN    | 10903030    |
| 6                          | 35     |               | 10.9     | DAC    | 10903034    |
| 6                          | 35     |               | A2-70    | PLN    | 48057050    |
| 6                          | 35     |               | A4-80    | PLN    | 51473813    |
| 6                          | 40     |               | 8.8      | DAC    | 10903224    |
| 6                          | 40     |               | 10.9     | DAC    | 10903234    |
| 6                          | 45     |               | 5.8      | ZND    | 91813732    |
| 6                          | 45     |               | 8.8      | DAC    | 10903424    |
| 6                          | 45     |               | 10.9     | DAC    | 10903434    |
| 6                          | 50     |               | 8.8      | DAC    | 10903624    |
| 6                          | 50     |               | A2-70    | PLN    | 10903680    |
| 6                          | 55     |               | 8.8      | DAC    | 10903724    |
| 6                          | 60     |               | A4-80    | PLN    | 51652973    |
| 6                          | 60     |               | 8.8      | DAC    | 90358199    |
| 6                          | 60     |               | 10.9     | PLN    | 10903830    |
| 6                          | 64     |               | 8.8      | ZND    | 51334956    |
| 6                          | 70     |               | 8.8      | DAC    | 90358244    |
| 6                          | 70     |               | 8.8      | PLN    | 48032860    |
| 6                          | 75     |               | A4-80    | PLN    | 51652978    |
| 6                          | 75     |               | 8.8      | DAC    | 90358245    |
| 6                          | 80     |               | BRS      | PLN    | 11030340    |
| 6                          | 80     |               | 8.8      | BZN    | 87015562    |
| 6                          | 80     |               | 8.8      | DAC    | 90358246    |
| 6                          | 80     |               | 10.9     | DAC    | 11030334    |
| 6                          | 80     |               | SST      | PLN    | 47562747    |
| 6                          | 90     |               | 8.8      | DAC    | 11032324    |

Table 3. Bolts with Shanks

| Table 3. Bolts with Shanks |        |               |          |        |             |
|----------------------------|--------|---------------|----------|--------|-------------|
| Nom Dia                    | Length | Thread Length | Material | Finish | Part Number |
| 6                          | 100    |               | 8.8      | DAC    | 90358258    |
| 6                          | 100    |               | BRS      | PLN    | 16038540    |
| 6                          | 110    |               | 8.8      | DAC    | 90358259    |
| 8                          | 35     |               | A2-70    | PLN    | 16043980    |
| 8                          | 40     |               | A2-70    | PLN    | 16044080    |
| 8                          | 40     |               | A4-80    | PLN    | 51473877    |
| 8                          | 40     |               | 8.8      | BGM    | 90408403    |
| 8                          | 40     |               | 8.8      | PLN    | 412234      |
| 8                          | 40     |               | 8.8      | DAC    | 16044024    |
| 8                          | 40     |               | 10.9     | BZN    | 16044037    |
| 8                          | 40     |               | 10.9     | DAC    | 90358281    |
| 8                          | 40     |               | 10.9     | PLN    | 16044030    |
| 8                          | 45     |               | 10.9     | PLN    | 16044130    |
| 8                          | 45     |               | 8.8      | DAC    | 16044124    |
| 8                          | 45     |               | 10.9     | DAC    | 16044134    |
| 8                          | 45     |               | A4-80    | PLN    | 51473880    |
| 8                          | 50     |               | A2-70    | PLN    | 16044280    |
| 8                          | 50     |               | A4-80    | PLN    | 51473881    |
| 8                          | 50     |               | R10      | DAC    | 16044234    |
| 8                          | 50     |               | 8.8      | PLN    | 412486      |
| 8                          | 50     |               | 8.8      | BGM    | 92112827    |
| 8                          | 50     |               | 8.8      | BZN    | 84431556    |
| 8                          | 50     |               | 8.8      | DAC    | 16044224    |
| 8                          | 55     |               | 8.8      | PLN    | 528801860   |
| 8                          | 55     |               | 8.8      | DAC    | 16044324    |
| 8                          | 55     |               | 10.9     | DAC    | 16044334    |
| 8                          | 60     |               | A2-70    | PLN    | 16044480    |
| 8                          | 60     |               | 5.8      | DAC    | 16044414    |
| 8                          | 60     |               | 8.8      | DAC    | 16044424    |
| 8                          | 60     |               | 8.8      | BZN    | 87015563    |
| 8                          | 60     |               | 10.9     | PLN    | 16044430    |
| 8                          | 60     |               | 12.9     | PHC    | 48097557    |
| 8                          | 65     |               | A2-70    | PLN    | 16044580    |
| 8                          | 65     |               | 8.8      | DAC    | 16044524    |
| 8                          | 65     |               | 10.9     | DAC    | 16044534    |
| 8                          | 65     |               | 10.9     | PLN    | 16044530    |
| 8                          | 70     |               | 8.8      | DAC    | 16044624    |
| 8                          | 70     |               | 10.9     | DAC    | 16044634    |
| 8                          | 75     |               | 8.8      | DAC    | 16044724    |
| 8                          | 75     |               | 10.9     | DAC    | 16044734    |
| 8                          | 75     |               | 10.9     | PLN    | 16044730    |
| 8                          | 75     |               | A4-80    | PLN    | 51611696    |
| 8                          | 80     |               | 5.8      | DAC    | 16044814    |



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**Table 3. Bolts with Shanks**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 8       | 80     |               | 8.8      | DAC    | 16044824    |
| 8       | 80     |               | 10.9     | PLN    | 16044830    |
| 8       | 80     |               | 10.9     | DAC    | 16044834    |
| 8       | 85     |               | 8.8      | DAC    | 16044924    |
| 8       | 85     |               | SST      | PLN    | 87375600    |
| 8       | 85     |               | A4-80    | PLN    | 51599989    |
| 8       | 90     |               | 8.8      | DAC    | 16045024    |
| 8       | 90     |               | 10.9     | DAC    | 16045034    |
| 8       | 95     |               | 8.8      | DAC    | 16045124    |
| 8       | 100    |               | 8.8      | DAC    | 16046124    |
| 8       | 100    |               | 10.9     | DAC    | 16046134    |
| 8       | 100    |               | A4-80    | PLN    | 51699675    |
| 8       | 105    |               | 10.9     | DAC    | 92817572    |
| 8       | 110    |               | 8.8      | DAC    | 16045424    |
| 8       | 110    |               | 10.9     | DAC    | 90358589    |
| 8       | 115    |               | 8.8      | PLN    | 336375      |
| 8       | 120    |               | 5.8      | DAC    | 16045614    |
| 8       | 120    |               | 8.8      | DAC    | 16045624    |
| 8       | 120    |               | 10.9     | PLN    | 16045630    |
| 8       | 130    |               | 8.8      | DAC    | 16045824    |
| 8       | 130    |               | SST      | PLN    | 84333570    |
| 8       | 140    |               | 8.8      | DAC    | 16046024    |
| 8       | 140    |               | 10.9     | DAC    | 16046034    |
| 8       | 150    |               | 8.8      | DAC    | 16046224    |
| 8       | 150    |               | 10.9     | PLN    | 16046230    |
| 8       | 155    |               | 8.8      | PLN    | 120066      |
| 8       | 170    |               | 10.9     | DAC    | 16046534    |
| 8       | 180    |               | A4-80    | PLN    | 51601595    |
| 10      | 45     |               | 8.8      | DAC    | 87639790    |
| 10      | 45     |               | 10.9     | DAC    | 90358284    |
| 10      | 45     |               | 12.9     | DAC    | 47615962    |
| 10      | 45     |               | A4-80    | PLN    | 51473913    |
| 10      | 50     |               | 8.8      | PLN    | 87015565    |
| 10      | 50     |               | A4-80    | PLN    | 51473914    |
| 10      | 55     |               | A4-80    | PLN    | 51473919    |
| 10      | 55     |               | 8.8      | BZN    | 90323821    |
| 10      | 55     |               | 8.8      | DAC    | 90358548    |
| 10      | 60     |               | A4-80    | PLN    | 51473920    |
| 10      | 60     |               | 8.8      | BZN    | 51692432    |
| 10      | 60     |               | 8.8      | PLN    | %47643998   |
| 10      | 60     | FULL          | 8.8      | PLN    | %47732852   |
| 10      | 60     |               | 10.9     | BGM    | 92065229    |
| 10      | 60     |               | 12.9     | PLN    | 9509358     |
| 10      | 65     |               | 8.8      | DAC    | 90358261    |

**Table 3. Bolts with Shanks**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 10      | 65     |               | 10.9     | PLN    | 56618       |
| 10      | 70     |               | 8.8      | DAC    | 90358555    |
| 10      | 70     |               | 12.9     | ZNM    | #84011764   |
| 10      | 75     |               | 8.8      | DAC    | 90358262    |
| 10      | 80     |               | 8.8      | BZN    | 90335622    |
| 10      | 80     |               | 8.8      | DAC    | 90358203    |
| 10      | 85     |               | 8.8      | PLN    | 84056952    |
| 10      | 85     |               | 12.9     | PLN    | 7120942     |
| 10      | 85     |               | A4-70    | PLN    | 47627332    |
| 10      | 95     |               | 10.9     | PLN    | 355690      |
| 10      | 100    |               | 8.8      | DAC    | 90358209    |
| 10      | 100    |               | 10.9     | DAC    | 90358286    |
| 10      | 110    |               | SST      | PLN    | 86982113    |
| 10      | 110    |               | 8.8      | DAC    | 90358263    |
| 10      | 110    |               | 12.9     | ZNM    | #2168783    |
| 10      | 120    |               | 8.8      | DAC    | 90358264    |
| 10      | 120    |               | 10.9     | DAC    | 90445000    |
| 10      | 120    |               | 12.9     | PLN    | 1520851     |
| 10      | 130    |               | 8.8      | PLN    | 87015566    |
| 10      | 130    |               | 10.9     | DAC    | 90358591    |
| 10      | 140    |               | 8.8      | DAC    | 90358265    |
| 10      | 150    |               | 8.8      | PLN    | 72183647    |
| 10      | 150    |               | 10.9     | DAC    | 90445001    |
| 10      | 215    |               | 10.9     | PLN    | 2186540     |
| 10      | 230    |               | 10.9     | PLN    | 2781585     |
| 12      | 50     |               | 8.8      | BLO    | 47481284    |
| 12      | 50     |               | 8.8      | DAC    | 90358217    |
| 12      | 50     |               | 8.8      | PLN    | 87015568    |
| 12      | 50     |               | A4-80    | PLN    | 51474901    |
| 12      | 50     |               | 10.9     | DAC    | 51535944    |
| 12      | 55     |               | 12.9     | ZNM    | #410532     |
| 12      | 60     |               | 8.8      | DAC    | 90358218    |
| 12      | 60     |               | 10.9     | BGM    | 92213936    |
| 12      | 60     |               | 10.9     | DAC    | 90358293    |
| 12      | 60     |               | 10.9     | PLN    | 72180205    |
| 12      | 70     |               | 8.8      | DAC    | 90358221    |
| 12      | 70     |               | 8.8      | PLN    | 87742348    |
| 12      | 70     |               | 10.9     | BGM    | 92087983    |
| 12      | 70     |               | 10.9     | DAC    | 90358524    |
| 12      | 70     |               | SST      | PLN    | 47732222    |
| 12      | 75     |               | 10.9     | PLN    | 70189       |
| 12      | 80     |               | 8.8      | PLN    | 394275      |
| 12      | 80     |               | 8.8      | BGM    | 51538975    |
| 12      | 80     |               | 8.8      | DAC    | 90395298    |



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Table 3. Bolts with Shanks

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 12      | 80     |               | 10.9     | BGM    | 51451698    |
| 12      | 90     |               | 10.9     | BZN    | 51454809    |
| 12      | 95     |               | 10.9     | BZN    | 87742347    |
| 12      | 100    |               | 8.8      | BGM    | 51532132    |
| 12      | 100    |               | A4-80    | PLN    | 51584397    |
| 12      | 110    |               | 8.8      | DAC    | 90358222    |
| 12      | 110    |               | 10.9     | DAC    | 90358530    |
| 12      | 120    |               | 8.8      | BGM    | 90411978    |
| 12      | 130    |               | 8.8      | DAC    | 90358266    |
| 12      | 150    |               | 8.8      | DAC    | 90358272    |
| 12      | 160    |               | 8.8      | DAC    | 90358273    |
| 12      | 160    |               | 8.8      | PLN    | 87573377    |
| 12      | 180    |               | 10.9     | PLN    | 87575687    |
| 12      | 200    |               | 8.8      | DAC    | 90358275    |
| 14      | 50     |               | 10.9     | DAC    | 11116234    |
| 14      | 55     |               | 10.9     | DAC    | 48090726    |
| 14      | 65     |               | 10.9     | DAC    | 11116534    |
| 14      | 65     |               | 12.9     | DOR    | 47741743    |
| 14      | 70     |               | 10.9     | DAC    | 90358597    |
| 14      | 85     |               | 10.9     | DAC    | 92214797    |
| 14      | 100    |               | 10.9     | DAC    | 92863092    |
| 14      | 181    |               | 8.8      | PLN    | 327404      |
| 14      | 391    |               | 8.8      | PLN    | 327406      |
| 16      | 50     |               | 8.8      | PLN    | 412324      |
| 16      | 55     |               | 12.9     | ZNM    | #84025474   |
| 16      | 55     |               | 10.9     | DAC    | 11119034    |
| 16      | 60     |               | 10.9     | ZND    | 11119131    |
| 16      | 65     |               | 8.8      | DAC    | 90358279    |
| 16      | 65     |               | 10.9     | DAC    | 11119234    |
| 16      | 65     |               | 10.9     | BZN    | 11119237    |
| 16      | 65     |               | 12.9     | DAC    | 11119274    |
| 16      | 65     |               | A4-80    | PLN    | 51474963    |
| 16      | 70     |               | 10.9     | PLN    | 11119330    |
| 16      | 70     |               | 10.9     | DAC    | 11119334    |
| 16      | 70     |               | 10.9     | BGM    | 51451701    |
| 16      | 75     |               | 10.9     | DAC    | 11119434    |
| 16      | 75     |               | 10.9     | BZN    | 11119437    |
| 16      | 80     |               | 8.8      | DAC    | 90489144    |
| 16      | 80     |               | 10.9     | DAC    | 11119534    |
| 16      | 80     |               | 12.9     | ZNM    | #84025473   |
| 16      | 85     |               | 8.8      | DAC    | 90370643    |
| 16      | 90     |               | 8.8      | DAC    | 90358601    |
| 16      | 90     |               | 8.8      | PLN    | 16615420    |
| 16      | 90     |               | 10.9     | DAC    | 92214798    |

Table 3. Bolts with Shanks

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 16      | 90     |               | 12.9     | DOR    | 47458174    |
| 16      | 95     |               | 10.9     | BZN    | 11119837    |
| 16      | 100    |               | 8.8      | BGM    | 92248811    |
| 16      | 100    |               | 8.8      | DAC    | 90358230    |
| 16      | 100    |               | 10.9     | BGM    | 92312002    |
| 16      | 100    |               | 10.9     | BZN    | 92300162    |
| 16      | 100    |               | 12.9     | DAC    | 84233555    |
| 16      | 110    |               | 8.8      | PLN    | 87015570    |
| 16      | 110    |               | 10.9     | BZN    | 11120137    |
| 16      | 110    |               | 12.9     | DAC    | 84227692    |
| 16      | 120    |               | 10.9     | DAC    | 90358540    |
| 16      | 120    |               | 10.9     | PLN    | 35085       |
| 16      | 130    |               | 10.9     | DAC    | 11120534    |
| 16      | 130    |               | 10.9     | BGM    | 51451702    |
| 16      | 130    |               | 12.9     | DAC    | 47988622    |
| 16      | 140    |               | 8.8      | PLN    | 87015571    |
| 16      | 140    |               | 10.9     | BGM    | 51451703    |
| 16      | 140    |               | 10.9     | DAC    | 47418295    |
| 16      | 145    |               | 8.8      | PLN    | 87015572    |
| 16      | 150    |               | 10.9     | DAC    | 11120934    |
| 16      | 150    |               | 10.9     | BGM    | 51451704    |
| 16      | 150    |               | 12.9     | BGM    | 51451705    |
| 16      | 150    |               | 12.9     | PHC    | 84233538    |
| 16      | 160    |               | 8.8      | PLN    | 87015573    |
| 16      | 160    |               | 8.8      | BLO    | 47481285    |
| 16      | 160    |               | 10.9     | DAC    | 90358541    |
| 16      | 160    |               | 10.9     | PLN    | 84026991    |
| 16      | 165    |               | 8.8      | PLN    | 87015574    |
| 16      | 180    |               | 8.8      | PLN    | 13092       |
| 16      | 180    |               | 10.9     | PLN    | 84026992    |
| 16      | 180    |               | 10.9     | BGM    | 51451706    |
| 16      | 180    |               | 12.9     | BGM    | 51451707    |
| 16      | 180    |               | 12.9     | PHC    | 84233539    |
| 16      | 185    |               | 8.8      | PLN    | 1675797     |
| 16      | 190    |               | 12.9     | BGM    | 51451708    |
| 16      | 190    |               | 12.9     | PHC    | 84233540    |
| 16      | 190    |               | 12.9     | ZNM    | #84007686   |
| 16      | 200    |               | 8.8      | DAC    | 15983024    |
| 16      | 220    |               | 12.9     | BGM    | 51451709    |
| 16      | 220    |               | 12.9     | DOR    | 47867743    |
| 16      | 220    |               | 12.9     | PHC    | 84233541    |
| 16      | 230    |               | 10.9     | DAC    | 92243585    |
| 16      | 260    |               | 10.9     | DAC    | 92688734    |
| 16      | 280    |               | 8.8      | BGM    | 92118149    |



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**Table 3. Bolts with Shanks**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 16      | 280    |               | 10.9     | DAC    | 92243584    |
| 16      | 320    |               | 10.9     | BGM    | 92207529    |
| 16      | 350    |               | 10.9     | BGM    | 51452285    |
| 16      | 350    |               | 12.9     | BGM    | 51451710    |
| 18      | 55     |               | 10.9     | DAC    | 15202934    |
| 18      | 60     |               | 8.8      | DAC    | 11122124    |
| 18      | 60     |               | 10.9     | DAC    | 11122134    |
| 18      | 65     |               | 10.9     | DAC    | 11122234    |
| 18      | 70     |               | 8.8      | DAC    | 11122324    |
| 18      | 75     |               | 10.9     | DAC    | 11122434    |
| 18      | 80     |               | 8.8      | DAC    | 11122524    |
| 18      | 90     |               | 10.9     | DAC    | 16040034    |
| 18      | 90     |               | 10.9     | BZN    | 16040037    |
| 18      | 90     |               | 10.9     | BGM    | 91834039    |
| 18      | 90     |               | 12.9     | PLN    | 2900425     |
| 18      | 100    |               | 8.8      | DAC    | 16040324    |
| 18      | 100    |               | 10.9     | DAC    | 16040334    |
| 18      | 110    |               | 10.9     | DAC    | 11123134    |
| 18      | 120    |               | 8.8      | DAC    | 15203024    |
| 18      | 120    |               | 10.9     | DAC    | 15203034    |
| 18      | 130    |               | 10.9     | DAC    | 15203134    |
| 18      | 150    |               | 10.9     | BGM    | 91834040    |
| 20      | 65     |               | 8.8      | DAC    | 11125024    |
| 20      | 65     |               | 10.9     | BGM    | 92055440    |
| 20      | 65     |               | 10.9     | DAC    | 11125034    |
| 20      | 65     |               | 12.9     | DAC    | 51435513    |
| 20      | 70     |               | 8.8      | DAC    | 11125124    |
| 20      | 70     |               | 8.8      | PLN    | 412532      |
| 20      | 70     |               | 10.9     | BGM    | 92055441    |
| 20      | 70     |               | 10.9     | PLN    | 412640      |
| 20      | 70     |               | 10.9     | DAC    | 11125134    |
| 20      | 75     |               | 10.9     | DAC    | 11125234    |
| 20      | 75     |               | 12.9     | DAC    | 11125274    |
| 20      | 75     |               | 10.9     | PLN    | 87742361    |
| 20      | 75     |               | 12.9     | ZNM    | #11125271   |
| 20      | 80     |               | 8.8      | DAC    | 11125324    |
| 20      | 80     |               | 10.9     | BGM    | 91903252    |
| 20      | 80     |               | 10.9     | DAC    | 11125334    |
| 20      | 80     |               | 10.9     | BZN    | 11125337    |
| 20      | 85     |               | 8.8      | DAC    | 11125424    |
| 20      | 85     |               | 10.9     | BGM    | 91903253    |
| 20      | 85     |               | 10.9     | DAC    | 11125434    |
| 20      | 85     |               | 12.9     | DAC    | 87380456    |
| 20      | 90     |               | 10.9     | BGM    | 47765036    |

**Table 3. Bolts with Shanks**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 20      | 90     |               | 10.9     | DAC    | 16050834    |
| 20      | 90     |               | 12.9     | DAC    | 87394754    |
| 20      | 95     |               | 8.8      | DAC    | 11125624    |
| 20      | 95     |               | 10.9     | BGM    | 91903254    |
| 20      | 95     |               | 12.9     | DAC    | 51435517    |
| 20      | 100    |               | 8.8      | DAC    | 90391644    |
| 20      | 100    |               | 10.9     | DAC    | 11125734    |
| 20      | 100    |               | 10.9     | BGM    | 47764148    |
| 20      | 100    | FULL          | 10.9     | BGM    | 47770123    |
| 20      | 105    |               | 10.9     | DAC    | 91844829    |
| 20      | 105    |               | 12.9     | DAC    | 11125874    |
| 20      | 110    |               | 8.8      | DAC    | 11125924    |
| 20      | 110    |               | 10.9     | DAC    | 11125934    |
| 20      | 110    |               | 10.9     | BGM    | 92089098    |
| 20      | 115    |               | 12.9     | DAC    | 87723036    |
| 20      | 120    |               | 10.9     | DAC    | 11126134    |
| 20      | 120    |               | 10.9     | BZN    | 11126137    |
| 20      | 120    |               | 10.9     | BGM    | 92251027    |
| 20      | 130    |               | 10.9     | DAC    | 16041834    |
| 20      | 130    |               | 10.9     | BGM    | 92097750    |
| 20      | 140    |               | 10.9     | BGM    | 51451711    |
| 20      | 140    |               | 10.9     | DAC    | 11126534    |
| 20      | 150    |               | 10.9     | BGM    | 92052285    |
| 20      | 150    |               | 10.9     | DAC    | 11126734    |
| 20      | 160    |               | 10.9     | BGM    | 92199238    |
| 20      | 160    |               | 10.9     | DAC    | 16039634    |
| 20      | 160    |               | 12.9     | PLN    | 9513378     |
| 20      | 170    |               | 10.9     | DAC    | 92293305    |
| 20      | 170    |               | 12.9     | PLN    | 1909090     |
| 20      | 180    |               | 8.8      | DAC    | 15204024    |
| 20      | 180    |               | 10.9     | BGM    | 92091403    |
| 20      | 180    |               | 10.9     | DAC    | 90358607    |
| 20      | 180    |               | 10.9     | PLN    | 422820      |
| 20      | 190    |               | 8.8      | DAC    | 15204124    |
| 20      | 190    |               | 10.9     | DAC    | 15204134    |
| 20      | 200    |               | 10.9     | DAC    | 16040434    |
| 20      | 200    |               | 10.9     | BGM    | 48002889    |
| 20      | 220    |               | 8.8      | DAC    | 16039224    |
| 20      | 230    |               | 10.9     | DAC    | 51564884    |
| 20      | 240    |               | 10.9     | DAC    | 92293306    |
| 20      | 280    |               | 10.9     | DAC    | 92260004    |
| 20      | 290    |               | 10.9     | DAC    | 92293307    |
| 20      | 300    |               | 10.9     | DAC    | 92879515    |
| 20      | 360    |               | 10.9     | PLN    | 2270640     |



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**Table 3. Bolts with Shanks**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 20      | 370    |               | 10.9     | ZND    | 91729892    |
| 22      | 60     |               | 12.9     | DOR    | 87023129    |
| 22      | 80     |               | 12.9     | DOR    | 91785088    |
| 22      | 110    |               | 12.9     | DOR    | 91785089    |
| 22      | 120    |               | 12.9     | DOR    | 91785090    |
| 24      | 60     |               | 10.9     | DAC    | 47418286    |
| 24      | 60     |               | 12.9     | ZNM    | #84075037   |
| 24      | 75     |               | 10.9     | BGM    | 47789833    |
| 24      | 80     |               | 10.9     | DAC    | 47418288    |
| 24      | 80     |               | 12.9     | DOR    | 91806442    |
| 24      | 85     |               | 10.9     | BGM    | 92823539    |
| 24      | 90     |               | 10.9     | DAC    | 47774558    |
| 24      | 90     |               | 10.9     | BGM    | 51451712    |
| 24      | 110    |               | 10.9     | DAC    | 48014362    |
| 24      | 110    |               | 12.9     | DAC    | 48135668    |
| 24      | 110    |               | 12.9     | DOR    | 91806443    |
| 24      | 120    |               | 10.9     | PLN    | 15206130    |
| 24      | 120    |               | 12.9     | DOR    | 91806444    |
| 24      | 130    |               | 10.9     | DAC    | 48021267    |
| 24      | 130    |               | 10.9     | PLN    | 15206330    |
| 24      | 130    |               | 12.9     | DOR    | 92175298    |
| 24      | 140    |               | 8.8      | PLN    | 87034472    |
| 24      | 140    |               | 10.9     | PLN    | 84074423    |
| 24      | 140    |               | 10.9     | PLN    | 84074462    |
| 24      | 140    |               | 10.9     | DAC    | 87329682    |
| 24      | 140    |               | 12.9     | DOR    | 92175299    |
| 24      | 170    |               | 10.9     | DAC    | 15206734    |
| 24      | 200    |               | 10.9     | BZN    | 16162537    |
| 24      | 200    |               | 12.9     | DOR    | 92648896    |

**Table 3. Bolts with Shanks**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 24      | 210    |               | 12.9     | DOR    | 92655242    |
| 24      | 220    |               | 12.9     | DOR    | 92648897    |
| 24      | 220    |               | 12.9     | DOR    | 92648897    |
| 24      | 220    |               | 10.9     | PLN    | 157672      |
| 24      | 245    |               | 10.9     | PLN    | 7120933     |
| 24      | 270    |               | 10.9     | PLN    | 302422      |
| 27      | 100    |               | 10.9     | PHC    | 92710851    |
| 27      | 130    |               | 10.9     | DAC    | 91751809    |
| 27      | 160    |               | 10.9     | DAC    | 91745931    |
| 27      | 170    |               | 10.9     | DAC    | 91760865    |
| 27      | 190    |               | 10.9     | DAC    | 91751810    |
| 27      | 210    |               | 12.9     | PLN    | 2270622     |
| 27      | 220    |               | 10.9     | DAC    | 91745932    |
| 27      | 230    |               | 10.9     | DAC    | 91760866    |
| 27      | 260    |               | 12.9     | PLN    | 2247481     |
| 27      | 280    |               | 12.9     | PLN    | 1589256     |
| 30      | 150    |               | 8.8      | PLN    | 87034473    |
| 30      | 200    |               | 8.8      | PLN    | 87034474    |
| 30      | 260    |               | 12.9     | PLN    | 1652579     |
| 30      | 260    |               | 12.9     | DOR    | 47677236    |
| 30      | 330    |               | 10.9     | PLN    | 1939780     |
| 36      | 140    |               | 8.8      | ZND    | 48135669    |
| 36      | 340    |               | 12.9     | PLN    | 2213609     |
| 42      | 300    |               | 12.9     | PLN    | 2213610     |

% Left Hand Thread (LH)

# Do not use on new designs after 01OCT2011  
(Hydrogen Assisted Cracking-HAC)**Table 3a. Bolts with Shanks****Table 3a. Bolts with Shanks**

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 20      | 95     |               | 8.8      | Zn-Ni  | 90509404    |
|         |        |               |          |        |             |

Zn-Ni – Zinc Nickel per Iveco 18-1103 Fe/ZnNi 7 IV



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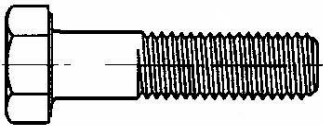
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### Tables 4, 5, and 6. Bolts With Heads per Obsolete DIN standards –

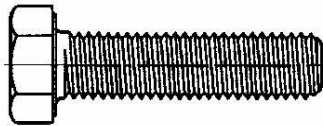
#### Do not use for new design

DIN 931 has been withdrawn and is replaced by ISO 4014

DIN 933 has been withdrawn and is replaced by ISO 4017



DIN 931 Bolt with shank



DIN 933 Bolt fully threaded

**Table 4.**

General specifications same as “ISO” except for head dimensions.

| Bolt Nominal Diameter     | 10    | 12    | 14    | 22    |
|---------------------------|-------|-------|-------|-------|
| Coarse Thread Pitch       | 1.5   | 1.75  | 2     | 2.5   |
| Length of thread for      |       |       |       |       |
| Bolt length to 125        | 26    | 30    | 34    | 50    |
| Bolt length 126 to 200    | 32    | 36    | 40    | 56    |
| Bolt length: >200         | 45    | 49    | 53    | 69    |
| Width across flats        | 17    | 19    | 22    | 32    |
| nom./ max                 | 18.90 | 21.10 | 24.49 | 36.72 |
| Width across corners min. | 6.58  | 7.68  | 8.98  | 14.35 |
| Head heightmax.           |       |       |       |       |

**Table 5. Bolts with Heads per DIN 933 – Fully Threaded**

| Table 5. DIN 933 Bolts Fully Threaded |        |               |          |        |             |
|---------------------------------------|--------|---------------|----------|--------|-------------|
| Nom Dia                               | Length | Thread Length | Material | Finish | Part Number |
| 10                                    | 14     | FULL          | 8.8      | DAC    | 10979324    |
| 10                                    | 16     | FULL          | 8.8      | DAC    | 10979224    |
| 10                                    | 16     | FULL          | 10.9     | DAC    | 10979234    |
| 10                                    | 16     | FULL          | 10.9     | PLN    | 10979230    |
| 10                                    | 18     | FULL          | 8.8      | BGM    | 91776278    |
| 10                                    | 18     | FULL          | 8.8      | DAC    | 11103024    |
| 10                                    | 20     | FULL          | 8.8      | PLN    | 300511      |
| 10                                    | 20     | FULL          | 8.8      | DAC    | 11106024    |
| 10                                    | 20     | FULL          | A2-70    | PLN    | 11106080    |
| 10                                    | 20     | FULL          | 10.9     | DAC    | 11106034    |
| 10                                    | 20     | FULL          | R10      | DAC    | 16204234    |
| 10                                    | 22     | FULL          | 8.8      | DAC    | 11106124    |
| 10                                    | 22     | FULL          | 10.9     | PLN    | 11106130    |
| 10                                    | 22     | FULL          | 10.9     | DAC    | 11106134    |
| 10                                    | 25     | FULL          | 8.8      | PLN    | 11106220    |
| 10                                    | 25     | FULL          | 8.8      | DAC    | 11106224    |

| Table 5. DIN 933 Bolts Fully Threaded |        |               |          |        |             |
|---------------------------------------|--------|---------------|----------|--------|-------------|
| Nom Dia                               | Length | Thread Length | Material | Finish | Part Number |
| 10                                    | 25     | FULL          | 12.9     | DAC    | 11106274    |
| 10                                    | 25     | FULL          | 10.9     | PLN    | 11106230    |
| 10                                    | 25     | FULL          | 10.9     | DAC    | 11106234    |
| 10                                    | 25     | FULL          | A2-70    | PLN    | 11106280    |
| 10                                    | 28     | FULL          | 5.8      | ZND    | 11106311    |
| 10                                    | 28     | FULL          | 10.9     | DAC    | 11106334    |
| 10                                    | 30     | FULL          | 8.8      | DAC    | 11106424    |
| 10                                    | 30     | FULL          | 10.9     | PLN    | 11106430    |
| 10                                    | 30     | FULL          | 10.9     | DAC    | 11106434    |
| 10                                    | 30     | FULL          | A2-70    | PLN    | 11106480    |
| 10                                    | 32     | FULL          | 10.9     | DAC    | 11106534    |
| 10                                    | 35     | FULL          | 8.8      | BGM    | 92118148    |
| 10                                    | 35     | FULL          | 8.8      | PLN    | 11106620    |
| 10                                    | 35     | FULL          | 8.8      | DAC    | 11106624    |
| 10                                    | 35     | FULL          | 10.9     | PLN    | 11106630    |
| 10                                    | 35     | FULL          | 12.9     | DAC    | 11106674    |

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Table 5. DIN 933 Bolts Fully Threaded

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 10      | 35     | FULL          | A2-70    | PLN    | 11106680    |
| 10      | 35     | FULL          | 10.9     | ZND    | 2975318     |
| 10      | 35     | FULL          | 10.9     | DAC    | 11106634    |
| 10      | 40     | FULL          | A4-70    | PLN    | 84413227    |
| 10      | 40     | FULL          | 8.8      | DAC    | 16040824    |
| 10      | 45     | FULL          | A4-70    | PLN    | 47372446    |
| 10      | 50     | FULL          | 8.8      | DAC    | 16160124    |
| 10      | 55     | FULL          | SST      | PLN    | 939080      |
| 10      | 70     | FULL          | 8.8      | DAC    | 11107624    |
| 10      | 70     | FULL          | SST      | PLN    | 155769      |
| 10      | 70     | FULL          | SST      | PLN    | 301613      |
| 10      | 80     | FULL          | 8.8      | DAC    | 15215224    |
| 10      | 90     | FULL          | SST      | PLN    | 953285      |
| 10      | 90     | FULL          | A4-70    | PLN    | 84390795    |
| 10      | 140    | FULL          | SST      | PLN    | 48078400    |
| 10      | 170    | FULL          | SST      | PLN    | 48124385    |
| 12      | 20     | FULL          | 5.8      | DAC    | 11112114    |
| 12      | 20     | FULL          | 8.8      | DAC    | 11112124    |
| 12      | 22     | FULL          | 8.8      | DAC    | 11109224    |
| 12      | 25     | FULL          | SST      | PLN    | 152726      |
| 12      | 25     | FULL          | 8.8      | DAC    | 11112224    |
| 12      | 25     | FULL          | 10.9     | DAC    | 11112234    |
| 12      | 25     | FULL          | 10.9     | PLN    | 11112230    |
| 12      | 30     | FULL          | 8.8      | DAC    | 11112424    |
| 12      | 30     | FULL          | 10.9     | DAC    | 11112434    |
| 12      | 30     | FULL          | 10.9     | PLN    | 11112430    |
| 12      | 35     | FULL          | 8.8      | BGM    | 90350938    |
| 12      | 35     | FULL          | 8.8      | DAC    | 11112624    |
| 12      | 35     | FULL          | 10.9     | BGM    | 92298375    |
| 12      | 35     | FULL          | 10.9     | PLN    | 11112630    |
| 12      | 40     | FULL          | 8.8      | DAC    | 11112824    |
| 12      | 40     | FULL          | 10.9     | DAC    | 11112834    |
| 12      | 45     | FULL          | 8.8      | PLN    | 11113020    |
| 12      | 45     | FULL          | 8.8      | ZND    | 11113021    |
| 12      | 50     | FULL          | 8.8      | DAC    | 15215724    |

Table 5. DIN 933 Bolts Fully Threaded

| Nom Dia | Length | Thread Length | Material | Finish | Part Number |
|---------|--------|---------------|----------|--------|-------------|
| 12      | 60     | FULL          | 8.8      | DAC    | 15215824    |
| 12      | 60     | FULL          | 10.9     | BGM    | 90393187    |
| 12      | 60     | FULL          | 10.9     | DAC    | 15215834    |
| 12      | 65     | FULL          | 10.9     | DAC    | 11113534    |
| 12      | 70     | FULL          | 8.8      | DAC    | 15216024    |
| 12      | 80     | FULL          | 10.9     | DAC    | 11113834    |
| 12      | 85     | FULL          | 10.9     | DAC    | 15216334    |
| 12      | 90     | FULL          | 10.9     | DAC    | 11114034    |
| 12      | 90     | FULL          | 10.9     | BGM    | 92118150    |
| 12      | 100    | FULL          | 10.9     | DAC    | 11114234    |
| 12      | 110    | FULL          | 10.9     | DAC    | 15216834    |
| 14      | 20     | FULL          | 8.8      | DAC    | 16050724    |
| 14      | 25     | FULL          | 10.9     | DAC    | 11115334    |
| 14      | 28     | FULL          | 8.8      | DAC    | 11115424    |
| 14      | 30     | FULL          | 8.8      | DAC    | 11115524    |
| 14      | 30     | FULL          | 10.9     | DAC    | 11115534    |
| 14      | 35     | FULL          | 10.9     | DAC    | 11115634    |
| 14      | 40     | FULL          | 10.9     | DAC    | 11115834    |
| 14      | 60     | FULL          | 10.9     | PLN    | 15217830    |
| 14      | 70     | FULL          | 8.8      | PLN    | 87609265    |
| 14      | 70     | FULL          | 12.9     | ZNM    | #87573378   |
| 14      | 80     | FULL          | 10.9     | DAC    | 15218234    |
| 14      | 105    | FULL          | 10.9     | DAC    | 15218734    |
| 22      | 60     | FULL          | 8.8      | DAC    | 15225924    |
| 22      | 60     | FULL          | 10.9     | DAC    | 91764446    |
| 22      | 65     | FULL          | 10.9     | DAC    | 11128134    |
| 22      | 80     | FULL          | 10.9     | DAC    | 15226334    |
| 22      | 70     | FULL          | 10.9     | DAC    | 15226134    |
| 22      | 115    | FULL          | 10.9     | DAC    | 15227034    |
| 22      | 120    | FULL          | 10.9     | DAC    | 15227134    |

# Do not use on new designs after 01OCT2011  
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Table 6. Bolts with Heads per DIN 931. Bolts with Unthreaded Shanks

| Table 6. DIN 931 Bolts with Shanks |        |               |          |        |             |
|------------------------------------|--------|---------------|----------|--------|-------------|
| Nom Dia                            | Length | Thread Length | Material | Finish | Part Number |
| 10                                 | 40     |               | 8.8      | DAC    | 11106824    |
| 10                                 | 40     |               | A2-70    | PLN    | 11106880    |
| 10                                 | 45     |               | 8.8      | DAC    | 11107024    |
| 10                                 | 50     |               | 8.8      | DAC    | 11107224    |
| 10                                 | 50     |               | 10.9     | DAC    | 11107234    |
| 10                                 | 50     |               | SST      | PLN    | 84253869    |
| 10                                 | 55     |               | 5.8      | ZND    | 11107311    |
| 10                                 | 55     |               | 10.9     | PLN    | 11107330    |
| 10                                 | 60     |               | 8.8      | DAC    | 11107424    |
| 10                                 | 60     |               | 10.9     | DAC    | 11107434    |
| 10                                 | 65     |               | 10.9     | DAC    | 11107534    |
| 10                                 | 70     |               | 12.9     | DAC    | 11107674    |
| 10                                 | 70     |               | A2-70    | PLN    | 11107680    |
| 10                                 | 75     |               | 8.8      | BZN    | 90328718    |
| 10                                 | 75     |               | 8.8      | BGM    | 90358861    |
| 10                                 | 75     |               | 12.9     | DAC    | 11107774    |
| 10                                 | 75     |               | 12.9     | PHC    | 47582654    |
| 10                                 | 80     |               | 5.8      | ZND    | 11107811    |
| 10                                 | 80     |               | 12.9     | DAC    | 11107874    |
| 10                                 | 90     |               | 8.8      | DAC    | 11108024    |
| 10                                 | 90     |               | 10.9     | DAC    | 11108034    |
| 10                                 | 90     |               | SST      | PLN    | 84299268    |
| 10                                 | 95     |               | 10.9     | DAC    | 11108134    |
| 10                                 | 110    |               | 10.9     | DAC    | 11108434    |
| 10                                 | 120    |               | 10.9     | DAC    | 11108634    |
| 10                                 | 150    |               | 10.9     | DAC    | 11133534    |
| 12                                 | 40     |               | 8.8      | PLN    | 11112820    |
| 12                                 | 50     |               | 10.9     | DAC    | 11113234    |
| 12                                 | 60     |               | 10.9     | PLN    | 11113430    |

Zn-Ni – Zinc Nickel per Iveco 18-1103 Fe/ZnNi 7 IV

| Table 6. DIN 931 Bolts with Shanks |        |               |          |        |             |
|------------------------------------|--------|---------------|----------|--------|-------------|
| Nom Dia                            | Length | Thread Length | Material | Finish | Part Number |
| 12                                 | 60     |               | 10.9     | DAC    | 11113434    |
| 12                                 | 75     |               | 10.9     | DAC    | 11113734    |
| 12                                 | 105    |               | 8.8      | DAC    | 11114324    |
| 12                                 | 110    |               | 10.9     | DAC    | 11114434    |
| 12                                 | 130    |               | 8.8      | DAC    | 90358267    |
| 12                                 | 130    |               | 10.9     | DAC    | 11114834    |
| 12                                 | 130    |               | 10.9     | PLN    | 11114830    |
| 12                                 | 150    |               | 10.9     | DAC    | 11115234    |
| 14                                 | 50     |               | 12.9     | PLN    | 11116270    |
| 14                                 | 60     |               | 10.9     | DAC    | 11116434    |
| 14                                 | 75     |               | 8.8      | DAC    | 11116724    |
| 14                                 | 80     |               | 10.9     | BGM    | 92070320    |
| 14                                 | 80     |               | 10.9     | Zn-Ni  | 90509424    |
| 14                                 | 85     |               | 10.9     | DAC    | 11116934    |
| 14                                 | 85     |               | 10.9     | BGM    | 92089073    |
| 14                                 | 90     |               | 8.8      | DAC    | 11117024    |
| 14                                 | 90     |               | 10.9     | DAC    | 11117034    |
| 14                                 | 115    |               | 10.9     | DAC    | 11117534    |
| 14                                 | 170    |               | 10.9     | DAC    | 15201934    |
| 14                                 | 270    |               | 10.9     | DAC    | 87363478    |
| 22                                 | 100    |               | 12.9     | DAC    | 15204674    |
| 22                                 | 110    |               | 10.9     | DAC    | 11129034    |
| 22                                 | 120    |               | 10.9     | DAC    | 15204934    |
| 22                                 | 180    |               | 8.8      | DAC    | 15205624    |
| 22                                 | 200    |               | 10.9     | DAC    | 11130334    |
| 22                                 | 230    |               | 12.9     | PLN    | 16039370    |