

HEAVY HEX HEAD BOLTS FULL THREAD (MILD STEEL) (PLAIN)

สกรูเหลี่ยมเกลียวตลอด ไม่ชุบ (BSW) (สกรูกลิล)

| | | | | | | | |
|------------------------------------|-----------------|------|-------------------------|------|-----|-----|-----|
| | STANDARD | | ANSI B18.2.1, JIS B1180 | | | | |
| | MATERIAL | | MILD STEEL | | | | |
| | COATING | | PLAIN | | | | |
| | CODE | | AHI | | | | |
| Size (Diameter) (inch) | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
| <i>p</i> (Threads per inch) | 20 | 18 | 16 | 14 | 12 | 11 | 10 |
| <i>H</i> (Head Thickness) (mm.) | 4.2 | 5.5 | 6.5 | 7.5 | 8.4 | 11 | 13 |
| <i>F</i> (Width across flat) (mm.) | 11 | 14 | 17 | 19 | 21 | 26 | 32 |
| Tensile | all ≥ 60 ksi | | | | | | |

| <i>L</i> (Length), inch. | Size (inch.) | | | | | | |
|-----------------------------|--------------|------|------|------|-------|-------|-------|
| | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
| 1/2 | 0.80 | - | - | - | - | - | - |
| 3/4 | 0.80 | 1.60 | 2.60 | - | - | - | - |
| 1 | 0.98 | 1.80 | 3.00 | 4.00 | 5.50 | 8.00 | - |
| 1.1/4 | 1.20 | 2.00 | 3.10 | 4.25 | 5.75 | 8.50 | - |
| 1.1/2 | 1.40 | 2.25 | 3.30 | 4.70 | 6.25 | 9.00 | 15.00 |
| 2 | 1.50 | 2.70 | 3.90 | 5.30 | 7.25 | 11.00 | 18.00 |
| 1.1/2 | 1.80 | 3.20 | 4.50 | 6.00 | 8.70 | 12.50 | 20.00 |
| 3 | 2.20 | 3.50 | 5.00 | 6.80 | 9.40 | 14.00 | 22.00 |
| 3.1/2 | 2.50 | 4.00 | 5.60 | 7.80 | 10.50 | 15.00 | 24.00 |
| 4 | 3.00 | 4.50 | 6.30 | 8.60 | 11.20 | 17.00 | 26.00 |
| 4.1/2 | - | - | 7.25 | - | 13.00 | 19.00 | 30.00 |
| 5 | - | - | 8.75 | - | 13.60 | 20.00 | 32.00 |
| 5.1/2 | - | - | - | - | - | 22.00 | 34.00 |
| 6 | - | - | 10.0 | - | 17.25 | 25.00 | 36.00 |

| Assembly Item | Size (inch.) | | | | | | |
|------------------|--------------|------|------|------|------|------|------|
| | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
| หัวน็อต (BNH) | 0.40 | 0.80 | 1.60 | 2.20 | 2.40 | 4.80 | 8.00 |
| แหวนอีแปะ (BFP) | 0.50 | 0.60 | 0.75 | 1.15 | 1.15 | 1.40 | 1.90 |
| แหวนสปริง (BSP1) | 0.10 | 0.12 | 0.20 | 0.30 | 0.40 | 0.72 | 1.25 |

HEX BOLTS UNC, UNF (MILD STEEL HEX BOLTS-INCH SIZE)

สกรูมิลเก็ยวหยาบ (NC), เก็ยวละเอียด (NF)

| | | |
|--------------------------------------|---|----------------------|
| | STANDARD | ANSI B18.2.1 |
| | MATERIAL | SWRCH6R (MILD STEEL) |
| | COATING | BLACK |
| | CODE | ANC, ANF |
| Size (Diameter) (inch) | 1/4 5/16 3/8 7/16 1/2 9/16 | |
| <i>p</i> (Threads per inch) NC | 20 18 16 14 13 12 | |
| <i>p</i> (Threads per inch) NF | 28 24 24 20 20 18 | |
| <i>H</i> (Head Thickness) (mm.) | 4 5.2 6 7.1 7.9 9.1 | |
| <i>F</i> (Width across flat) (inch.) | 7/16 1/2 9/16 5/8 3/4 13/16 | |
| <i>b</i> (Thread Length) (mm.) | 19 22.2 25.4 28.5 31.7 34.9 | |
| Tensile | [1/4 - 3/4 ≥ 74 ksi], over 3/4 ≥ 60 ksi | |
| Hardness | [1/4 - 3/4 = 80 - 100 HRB], over 3/4 = 70 - 100 HRB | |

| L (Length), inch. | Size (inch.) | | | | | |
|-------------------|---------------------|---------------------|---------------------|--|---------------------|---------------------|
| | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 |
| 1/2 | 0.55 ₁₀₀ | - | - | บนเส้นคู่ = เก็ยวตลอด [FULL THREAD] | | |
| 1/4 | 0.61 ₂₀₀ | 0.93 ₁₀₀ | 1.34 ₁₀₀ | 1.95 ₁₀₀ | 3.02 ₅₀ | - |
| 1 | 0.73 ₁₀₀ | 1.07 ₁₀₀ | 1.49 ₁₀₀ | 2.19 ₁₀₀ | 3.14 ₅₀ | 4.55 ₅₀ |
| 1.1/4 | 0.95 ₁₀₀ | 1.27 ₁₀₀ | 1.76 ₁₀₀ | 2.53 ₁₀₀ | 3.52 ₅₀ | 5.15 ₅₀ |
| 1.1/2 | 1.06 ₁₀₀ | 1.48 ₁₀₀ | 2.06 ₁₀₀ | 2.88 ₁₀₀ | 3.95 ₅₀ | 5.41 ₅₀ |
| 1.3/4 | 1.13 ₁₀₀ | 1.87 ₁₀₀ | 2.56 ₁₀₀ | 3.73 ₁₀₀ | 4.84 ₅₀ | 6.99 ₅₀ |
| 2 | 1.38 ₁₀₀ | 1.94 ₁₀₀ | 2.63 ₁₀₀ | 3.67 ₅₀ | 4.86 ₅₀ | 6.63 ₅₀ |
| 2.1/2 | 1.66 ₁₀₀ | 2.39 ₁₀₀ | 3.27 ₁₀₀ | 4.63 ₅₀ | 5.91 ₅₀ | 7.97 ₂₅ |
| 3 | 1.95 ₁₀₀ | 2.80 ₁₀₀ | 3.87 ₁₀₀ | 5.35 ₅₀ | 6.91 ₅₀ | 9.6 ₂₅ |
| 3.1/2 | 2.24 ₁₀₀ | 3.25 ₁₀₀ | 4.56 ₅₀ | 6.16 ₅₀ | 8.34 ₅₀ | 11.36 ₂₅ |
| 4 | 2.53 ₁₀₀ | 3.68 ₁₀₀ | 5.17 ₅₀ | 6.94 ₅₀ | 9.4 ₅₀ | 12.67 ₂₅ |
| 4.1/2 | 4.14 ₅₀ | 5.11 ₅₀ | 5.77 ₅₀ | 8.07 ₅₀ | 10.89 ₅₀ | 15.07 ₂₅ |
| 5 | 5.04 ₅₀ | 6.59 ₅₀ | 6.44 ₅₀ | 9.06 ₅₀ | 12.17 ₅₀ | 17.49 ₂₅ |
| 5.1/2 | - | 7.30 ₅₀ | 7.81 ₅₀ | 10.32 ₋ | 13.69 ₅₀ | 19.43 ₂₅ |
| 6 | 5.59 ₅₀ | 7.91 ₅₀ | 8.63 ₅₀ | 13.20 ₅₀ | 14.37 ₂₅ | 20.93 ₂₅ |

ใต้เส้นคู่ = เก็ยวครึ่ง [PATIAL THREAD]

| | | | | | | | |
|--------------------------------------|--|--|--|--|--|--|--|
| หัวน๊อต UNC, UNF | | | | | | | |
| Size (Diameter) (inch) | 1/4 5/16 3/8 7/16 1/2 9/16 | | | | | | |
| <i>p</i> (Threads per inch) NC | 20 18 16 14 13 12 | | | | | | |
| <i>p</i> (Threads per inch) NF | 28 24 24 20 20 18 | | | | | | |
| <i>H</i> (Head Thickness) (mm.) | 5.6 6.7 8.3 9.5 11.1 12.3 | | | | | | |
| <i>F</i> (Width across flat) (inch.) | 7/16 1/2 9/16 11/16 3/4 7/8 | | | | | | |

| Assembly Item | CODE | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 |
|----------------|----------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------|---------------------|
| หัวน๊อต NC, NF | BNC, BNF | 0.35 ₅₀₀ | 0.50 ₄₀₀ | 0.70 ₂₀₀ | 1.20 ₁₀₀ | 1.55 ₁₀₀ | 2.50 ₁₀₀ |
| แหวนน๊อต | BFP | 0.50 ₅₀₀ | 0.60 ₄₀₀ | 0.75 ₂₀₀ | 1.15 ₁₀₀ | 1.15 ₁₀₀ | 1.40 ₁₀₀ |
| แหวนสปริง | BSZ1 | 0.10 _{4,000} | 0.12 _{2,500} | 0.20 _{1,500} | 0.30 _{1,000} | 0.40 ₇₀₀ | 0.55 ₁₀₀ |

HEX BOLTS UNC, UNF (MILD STEEL HEX BOLTS-INCH SIZE) GRADE 4.8

สกรูมิลเกียวยหยาบ (NC), เกียวยละเอียด (NF) เกรด 4.8

| | | | | | | | | |
|--------------------------------------|---|----------------------|------------|------------|----------|--------------|--------------|--------------|
| | STANDARD | ANSI B18.2.1 | | | | | | |
| | MATERIAL | SWRCH6R (MILD STEEL) | | | | | | |
| | COATING | BLACK | | | | | | |
| | CODE | ANC, ANF | | | | | | |
| Size (Diameter) (inch) | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/8 | 1.1/4 | 1.1/2 |
| <i>p</i> (Threads per inch) NC | 13 | 11 | 10 | 9 | 8 | 7 | 7 | 6 |
| <i>p</i> (Threads per inch) NF | 20 | 18 | 16 | 14 | 12 | 12 | 12 | 12 |
| <i>H</i> (Head Thickness) (mm.) | 7.9 | 9.9 | 11.9 | 13.9 | 15.5 | 17.5 | 19.8 | 23.8 |
| <i>F</i> (Width across flat) (inch.) | 3/4 | 15/16 | 1.1/8 | 1.5/16 | 1.1/2 | 1.11/16 | 1.7/8 | 2.1/4 |
| <i>b</i> ≤ 6" (Thread Length) (mm.) | 31.7 | 38.1 | 44.4 | 50.8 | 57.1 | | | |
| <i>b</i> > 6" (Thread Length) (mm.) | 38.1 | 44.4 | 50.8 | 57.1 | 63.5 | | | |
| Tensile | [1/4 - 3/4 ≥ 74 ksi], over 3/4 ≥ 60 ksi | | | | | | | |
| Hardness | [1/4 - 3/4 = 80 - 100 HRB], over 3/4 = 70 - 100 HRB | | | | | | | |

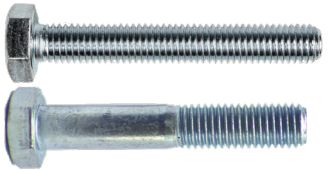
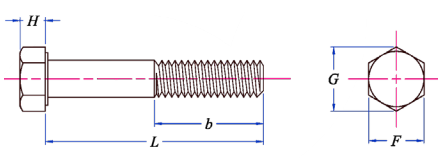
| <i>L</i> (Length), inch. | Size (inch.) | | | | | | | | |
|--------------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|--|
| | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/8 | 1.1/4 | 1.1/2 | |
| 1.1/2 | - | 6.60 ₅₀ | 10.40 ₂₅ | - | - | - | - | - | |
| 2 | - | 7.90 ₅₀ | 12.40 ₂₅ | 19.00 ₂₅ | 26.00 ₂₅ | - | - | - | |
| 2.1/2 | - | 9.80 ₂₅ | 14.75 ₂₅ | 22.50 ₂₅ | 31.00 ₂₅ | 52.00 ₁₀ | 74.00 ₁₀ | - | |
| 3 | - | 11.00 ₂₅ | 16.75 ₂₅ | 25.00 ₂₅ | 33.00 ₂₅ | 54.00 ₁₀ | 80.00 ₁₀ | 113.00 ₁₀ | |
| 3.1/2 | - | 12.65 ₂₅ | 19.00 ₂₅ | 29.00 ₂₅ | 39.00 ₁₅ | 58.00 ₁₀ | 85.00 ₁₀ | 116.00 ₁₀ | |
| 4 | - | 14.30 ₂₅ | 21.25 ₂₅ | 32.00 ₂₀ | 44.00 ₁₅ | 64.00 ₁₀ | 90.00 ₁₀ | 125.00 ₅ | |
| 4.1/2 | - | 16.00 ₂₅ | 24.25 ₂₅ | 35.50 ₂₀ | 48.00 ₁₅ | 71.00 ₁₀ | 96.00 ₁₀ | 136.00 ₅ | |
| 5 | - | 17.60 ₂₅ | 25.75 ₂₅ | 39.00 ₁₅ | 52.00 ₁₀ | 78.00 ₁₀ | 105.00 ₁₀ | 147.00 ₅ | |
| 5.1/2 | - | 19.25 ₂₅ | 28.60 ₂₅ | 42.00 ₁₅ | 56.00 ₁₀ | 84.00 ₁₀ | 115.00 ₁₀ | 160.00 ₅ | |
| 6 | - | 19.80 ₂₅ | 30.00 ₂₅ | 44.00 ₁₅ | 60.00 ₁₀ | 90.00 ₁₀ | 125.00 ₁₀ | 170.00 ₅ | |
| 6.1/2 | 16.00 ₂₅ | 23.00 ₂₅ | 32.00 ₂₅ | 50.00 ₁₅ | 68.00 ₁₀ | 97.00 ₁₀ | 135.00 ₅ | 180.00 ₅ | |
| 7 | 18.00 ₂₅ | 25.00 ₂₅ | 36.00 ₂₀ | 54.00 ₁₅ | 71.00 ₁₀ | 102.00 ₁₀ | 145.00 ₅ | 193.00 ₅ | |
| 7.1/2 - 8 | 22.00 ₂₅ | 27.00 ₂₅ | 41.00 ₁₅ | 58.00 ₁₅ | 81.00 ₁₀ | 117.00 ₅ | 165.00 ₅ | 221.00 ₅ | |
| 9 | 25.00 ₂₅ | 30.00 ₃₂ | 45.00 ₁₅ | 64.00 ₁₅ | 94.00 ₁₀ | 131.00 ₅ | 190.00 ₅ | 249.00 ₅ | |
| 10 | 27.00 ₂₅ | 35.00 ₃₂ | 49.00 ₁₅ | 70.00 ₁₅ | 105.00 ₁₀ | 146.00 ₅ | 212.00 ₅ | 278.00 ₅ | |
| 11 | 32.00 ₂₅ | 37.00 | 54.00 | 78.00 | 113.00 | 158.00 | 230.00 | 305.00 ₅ | |
| 12 | 36.00 ₂₅ | 42.00 | 59.00 | 83.00 | 121.00 | 173.00 | 254.00 | 336.00 | |
| 12.1/2 - 13 | 40.00 ₂₅ | 52.00 | 66.00 | 88.00 | 132.00 | - | 290.00 | - | |
| 14 | 46.00 ₂₅ | 54.00 | 71.00 | 95.00 | 145.00 | - | - | - | |
| 15 | 52.00 ₂₅ | 58.00 | 75.00 | 100.00 | 157.00 | - | - | - | |
| 16 | - | 70.00 | - | 140.00 | 180.00 | - | - | - | |
| 17 | - | 85.00 | - | 170.00 | 210.00 | - | - | - | |
| 17.1/2 - 18 | - | 100.00 | - | 200.00 | 240.00 | - | - | - | |
| 20 - 20.1/2 | - | - | - | 240.00 | - | - | - | - | |

| | | | | | | | | | |
|--------------------------------------|------------|------------|------------|------------|----------|--------------|--------------|--------------|--|
| หัวน็อต UNC, UNF | | | | | | | | | |
| Size (Diameter) (inch) | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/8 | 1.1/4 | 1.1/2 | |
| <i>p</i> (Threads per inch) NC | 13 | 11 | 10 | 9 | 8 | 7 | 7 | 6 | |
| <i>p</i> (Threads per inch) NF | 20 | 18 | 16 | 14 | 12 | 12 | 12 | 12 | |
| <i>H</i> (Head Thickness) (mm.) | 11.1 | 13.9 | 16.3 | 19 | 21.8 | 24.6 | 27 | 32.5 | |
| <i>F</i> (Width across flat) (inch.) | 3/4 | 15/16 | 1.1/8 | 1.5/16 | 1.1/2 | 1.11/16 | 1.7/8 | 2.1/4 | |

| Assembly Item | CODE | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/8 | 1.1/4 | 1.1/2 | 1.3/4 | 2 |
|----------------|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|----------|
| หัวน็อต NC, NF | BNC, BNF | 1.55 ₁₀₀ | 2.10 ₁₀₀ | 3.30 ₁₀₀ | 6.50 ₁₀₀ | 8.00 ₅₀ | 20.0 ₅₀ | 24.0 ₅₀ | 38.0 ₅₀ | 100 | 130 |
| แหวนน๊อต | BFP | 1.15 _{10 kg} | 1.40 _{10 kg} | 1.90 _{10 kg} | 2.20 _{10 kg} | 2.50 _{10 kg} | 6.50 _{10 kg} | 7.50 _{10 kg} | 13.5 _{10 kg} | 18.0 | 25.0 |
| แหวนสปริง | BSZ1 | 0.40 ₇₀₀ | 0.72 ₃₅₀ | 1.25 ₂₀₀ | 1.80 ₁₅₀ | 2.70 ₁₀₀ | 7.00 ₅₀ | 7.50 ₅₀ | 16.0 ₃₀ | 52.0 | 72.0 |

HEX BOLTS WHITE ZINC GALVANISED (MILD STEEL) GRADE 4.6

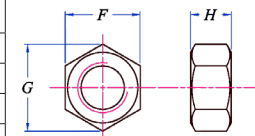

สกรูมิลเหลี่ยมขาว (เกรด 4.6)

| | | | |
|--|---|-----------------|------------|
|  |  | STANDARD | JIS B1180 |
| | | MATERIAL | MILD STEEL |
| | | COATING | WHITE ZINC |
| | | CODE | ABH |

| | | | | | |
|------------------------------|-----------|-----------|-----------|------------|------------|
| Size (Diameter) | M5 | M6 | M8 | M10 | M12 |
| <i>p</i> (pitch) | 0.8 | 1.0 | 1.25 | 1.25 | 1.5 |
| <i>H</i> (Head Thickness) | 3.5 | 4.0 | 5.3 | 6.4 | 7.5 |
| <i>F</i> (Width across flat) | 8 | 10 | 12 | 14 | 17 |
| <i>b</i> (Thread Length) | 16 | 18 | 22 | 26 | 30 |

| | |
|----------|--------------------|
| Tensile | all \geq 400 MPa |
| Hardness | all max. 95.0 HRB |

| <i>L</i> (Length), mm. | Size | | | | | | | | | |
|------------------------|------------------------|-------|------|-------|------|-----|-------|-----|-------|-----|
| | M5 | | M6 | | M8 | | M10 | | M12 | |
| 10 | 0.30 | 1,000 | 0.39 | 1,000 | 0.73 | 600 | - | - | - | - |
| 12 | 0.33 | 1,000 | 0.43 | 700 | 0.76 | 600 | - | - | - | - |
| 15 - 16 | 0.36 | 1,000 | 0.46 | 600 | 0.81 | 500 | - | - | - | - |
| 20 | 0.41 | 1,000 | 0.53 | 500 | 0.92 | 400 | 1.55 | 300 | - | - |
| 25 | 0.48 | 1,000 | 0.60 | 400 | 1.05 | 300 | 1.70 | 200 | 2.84 | 200 |
| 30 | 0.56 | 1,000 | 0.68 | 300 | 1.19 | 300 | 1.93 | 200 | 3.10 | 100 |
| 35 | 0.64 | 1,000 | 0.77 | 300 | 1.36 | 200 | 2.22 | 200 | 3.40 | 100 |
| 40 | 0.71 | 300 | 0.85 | 200 | 1.49 | 200 | 2.45 | 200 | 3.81 | 100 |
| 45 | 0.79 | 500 | 0.97 | 200 | 1.67 | 200 | 2.73 | 200 | 4.27 | 100 |
| 50 | 0.84 | 600 | 1.04 | 300 | 1.81 | 200 | 2.95 | 200 | 4.65 | 100 |
| 55 | - | - | 1.58 | 400 | 2.38 | 250 | 3.86 | 150 | 6.00 | 100 |
| 60 | - | - | 1.68 | 400 | 2.58 | 200 | 4.17 | 150 | 6.30 | 100 |
| 65 | - | - | 1.80 | 300 | 2.76 | 200 | 4.50 | 150 | 6.86 | 100 |
| 70 | - | - | 1.92 | 300 | 3.00 | 200 | 4.80 | 150 | 7.40 | 100 |
| 75 | - | - | 2.06 | 300 | 3.13 | 200 | 5.10 | 150 | 8.00 | 100 |
| 80 | - | - | 2.35 | 300 | 3.31 | 200 | 5.40 | 100 | 9.00 | 100 |
| 90 | - | - | 2.54 | 300 | 3.70 | 200 | 6.00 | 100 | 10.00 | 50 |
| 100 | - | - | 2.88 | 300 | 4.00 | 150 | 6.60 | 100 | 10.56 | 50 |
| 110 | - | - | - | - | 6.40 | 150 | 9.40 | 100 | - | - |
| 120 | - | - | - | - | 6.60 | 100 | 9.70 | 100 | - | - |
| 125 | ใต้เส้นคู่ = ขนาดพิเศษ | | | | 6.80 | 100 | 10.00 | 80 | - | - |
| 130 | - | - | - | - | 7.10 | 100 | 10.20 | 80 | - | - |
| 140 | - | - | - | - | 7.70 | 100 | 10.50 | 80 | - | - |
| 150 | - | - | - | - | 8.80 | 100 | 11.60 | 80 | - | - |

| | | | | | | | | | | |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|---|---|
| หัวน็อตมิลขาว | | | | | | | | |  |  |
| Size (Diameter) | M2 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | |
| <i>p</i> (pitch) | - | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.25 | 1.5 | | |
| <i>H</i> (Head Thickness) | - | 2.3 | 3.1 | 3.5 | 4.0 | 5.3 | 6.4 | 7.5 | | |
| <i>F</i> (Width across flat) | - | 5 | 7 | 8 | 10 | 12 | 14 | 17 | | |

| Assembly Item | CODE | M2 | M3 | M4 | M5 | M6 | M8 | M10 | M12 |
|---------------|------|------------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------|
| หัวน็อตมิลขาว | BBH | 0.16 _{15,000} | 0.11 _{5,000} | 0.14 _{2,000} | 0.20 _{2,000} | 0.25 _{1,000} | 0.40 _{1,000} | 0.65 _{1,000} | 1.20 ₅₀₀ |
| แหวนน๊อประขาว | BFW | - | 0.11 _{5,000} | 0.11 _{3,000} | 0.11 _{2,000} | 0.12 _{2,000} | 0.20 _{2,000} | 0.33 _{1,000} | 0.55 ₅₀₀ |
| แหวนสปริงขาว | BSZ1 | - | 0.10 _{10,000} | 0.10 _{15,000} | 0.11 _{8,000} | 0.12 _{4,000} | 0.13 _{2,500} | 0.22 _{1,500} | 0.44 ₇₀₀ |

HEX BOLTS WHITE ZINC GALVANISED (MILD STEEL) GRADE 4.6

สกรูมิลเหลี่ยมขาว (เกรด 4.6)

| | | |
|--|-----------------|------------|
| | STANDARD | JIS B1180 |
| | MATERIAL | MILD STEEL |
| | COATING | WHITE ZINC |
| | CODE | ABH |

| | | | | | |
|------------------------------|--------------------|-----------|-----------|------------|------------|
| Size (Diameter) | M5 | M6 | M8 | M10 | M12 |
| <i>p</i> (pitch) | 0.8 | 1.0 | 1.25 | 1.25 | 1.5 |
| <i>H</i> (Head Thickness) | 3.5 | 4.0 | 5.3 | 6.4 | 7.5 |
| <i>F</i> (Width across flat) | 8 | 10 | 12 | 14 | 17 |
| <i>b</i> (Thread Length) | 16 | 18 | 22 | 26 | 30 |
| Tensile | all ≥ 400 MPa | | | | |
| Hardness | all max. 95.0 HRB | | | | |

| L (Length), mm. | Size | | | | | | | | | |
|-----------------|------------------------|-------|------|-------|------|-----|-------|-----|-------|-----|
| | M5 | | M6 | | M8 | | M10 | | M12 | |
| 10 | 0.30 | 1,000 | 0.39 | 1,000 | 0.73 | 600 | - | - | - | - |
| 12 | 0.33 | 1,000 | 0.43 | 700 | 0.76 | 600 | - | - | - | - |
| 15 - 16 | 0.36 | 1,000 | 0.46 | 600 | 0.81 | 500 | - | - | - | - |
| 20 | 0.41 | 1,000 | 0.53 | 500 | 0.92 | 400 | 1.55 | 300 | - | - |
| 25 | 0.48 | 1,000 | 0.60 | 400 | 1.05 | 300 | 1.70 | 200 | 2.84 | 200 |
| 30 | 0.56 | 1,000 | 0.68 | 300 | 1.19 | 300 | 1.93 | 200 | 3.10 | 100 |
| 35 | 0.64 | 1,000 | 0.77 | 300 | 1.36 | 200 | 2.22 | 200 | 3.40 | 100 |
| 40 | 0.71 | 300 | 0.85 | 200 | 1.49 | 200 | 2.45 | 200 | 3.81 | 100 |
| 45 | 0.79 | 500 | 0.97 | 200 | 1.67 | 200 | 2.73 | 200 | 4.27 | 100 |
| 50 | 0.84 | 600 | 1.04 | 300 | 1.81 | 200 | 2.95 | 200 | 4.65 | 100 |
| 55 | - | - | 1.58 | 400 | 2.38 | 250 | 3.86 | 150 | 6.00 | 100 |
| 60 | - | - | 1.68 | 400 | 2.58 | 200 | 4.17 | 150 | 6.30 | 100 |
| 65 | - | - | 1.80 | 300 | 2.76 | 200 | 4.50 | 150 | 6.86 | 100 |
| 70 | - | - | 1.92 | 300 | 3.00 | 200 | 4.80 | 150 | 7.40 | 100 |
| 75 | - | - | 2.06 | 300 | 3.13 | 200 | 5.10 | 150 | 8.00 | 100 |
| 80 | - | - | 2.35 | 300 | 3.31 | 200 | 5.40 | 100 | 9.00 | 100 |
| 90 | - | - | 2.54 | 300 | 3.70 | 200 | 6.00 | 100 | 10.00 | 50 |
| 100 | - | - | 2.88 | 300 | 4.00 | 150 | 6.60 | 100 | 10.56 | 50 |
| 110 | - | - | - | - | 6.40 | 150 | 9.40 | 100 | - | - |
| 120 | - | - | - | - | 6.60 | 100 | 9.70 | 100 | - | - |
| 125 | ได้เส้นคู่ = ขนาดพิเศษ | | | | 6.80 | 100 | 10.00 | 80 | - | - |
| 130 | - | - | - | - | 7.10 | 100 | 10.20 | 80 | - | - |
| 140 | - | - | - | - | 7.70 | 100 | 10.50 | 80 | - | - |
| 150 | - | - | - | - | 8.80 | 100 | 11.60 | 80 | - | - |

| | | | | | | | | | | |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|--|--|
| หัวน็อตมิลขาว | | | | | | | | | | |
| Size (Diameter) | M2 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | |
| <i>p</i> (pitch) | - | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.25 | 1.5 | | |
| <i>H</i> (Head Thickness) | - | 2.3 | 3.1 | 3.5 | 4.0 | 5.3 | 6.4 | 7.5 | | |
| <i>F</i> (Width across flat) | - | 5 | 7 | 8 | 10 | 12 | 14 | 17 | | |

| Assembly Item | CODE | M2 | M3 | M4 | M5 | M6 | M8 | M10 | M12 |
|---------------|------|------------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------|
| หัวน็อตมิลขาว | BBH | 0.16 _{15,000} | 0.11 _{5,000} | 0.14 _{2,000} | 0.20 _{2,000} | 0.25 _{1,000} | 0.40 _{1,000} | 0.65 _{1,000} | 1.20 ₅₀₀ |
| แหวนน็อตปะขาว | BFW | - | 0.11 _{5,000} | 0.11 _{3,000} | 0.11 _{2,000} | 0.12 _{2,000} | 0.20 _{2,000} | 0.33 _{1,000} | 0.55 ₅₀₀ |
| แหวนสปริงขาว | BSZ1 | - | 0.10 _{10,000} | 0.10 _{15,000} | 0.11 _{8,000} | 0.12 _{4,000} | 0.13 _{2,500} | 0.22 _{1,500} | 0.44 ₇₀₀ |

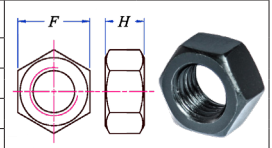
HEXAGON HEAD BOLTS GRADE 8.8 (HIGH TENSILE BOLTS)

สกรูมิลด้า เหล็กแข็ง เกรด 8.8

| | | | | | | | | | | | | | | | | | | |
|-----------------------|---------------------------------|----------------|----------------------------|------|-----|------|-----|------|-----|-----|------|------|------|------|------|------|-----|-----|
| | STANDARD | DIN931, DIN933 | | | | | | | | | | | | | | | | |
| | MATERIAL | 8.8 | | | | | | | | | | | | | | | | |
| | COATING | BLACK | | | | | | | | | | | | | | | | |
| | CODE | AKM | | | | | | | | | | | | | | | | |
| Size (Diameter) | M5 | M6 | M8 | M10 | M10 | M12 | M12 | M12 | M14 | M14 | M16 | M16 | M18 | M18 | M20 | M20 | M22 | M24 |
| p (pitch) | 0.8 | 1.0 | 1.25 | 1.25 | 1.5 | 1.25 | 1.5 | 1.75 | 1.5 | 2.0 | 1.5 | 2.0 | 1.5 | 2.5 | 1.5 | 2.5 | 2.5 | 3.0 |
| H (Head Thickness) | 3.5 | 4.0 | 5.3 | 6.4 | 6.4 | 7.5 | 7.5 | 7.5 | 8.8 | 8.8 | 10.0 | 10.0 | 11.5 | 11.5 | 12.5 | 12.5 | 14 | 15 |
| F (Width across flat) | 8 | 10 | 13 | 14 | 17 | 17 | 19 | 22 | 22 | 24 | 24 | 27 | 27 | 30 | 30 | 32 | 36 | 36 |
| b (Thread Length) | L ≤ 125 mm. | | | | | | | | | | | | | | | | | |
| | 16 | 18 | 22 | 26 | 26 | 30 | 30 | 30 | 34 | 34 | 38 | 38 | 42 | 42 | 46 | 46 | 50 | 54 |
| | 125 mm. < L ≤ 200 mm. | | | | | | | | | | | | | | | | | |
| | | | | | | 36 | 36 | 36 | 40 | 40 | 44 | 44 | 48 | 48 | 52 | 52 | 56 | 60 |
| Tensile | [d ≤ 16 mm. = min.800 MPa] | | [d > 16 mm. = min.800 MPa] | | | | | | | | | | | | | | | |
| Yield | [d ≤ 16 mm. = min.640 MPa] | | [d ≤ 16 mm. = min.660 MPa] | | | | | | | | | | | | | | | |
| Hardness | [d ≤ 16 mm. = 22 - 32 HRC] | | [d ≤ 16 mm. = 23 - 34 HRC] | | | | | | | | | | | | | | | |

| Size | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 |
|---------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| เกลียวหยาน | 0.8 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 |
| เกลียวละเอียด | - | - | - | 1.25 | 1.25, 1.5 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| 10 | 0.50 ₅₀₀ | 0.49 ₅₀₀ | 0.98 ₂₀₀ | - | - | - | - | - | - | - | - |
| 12 | 0.53 ₅₀₀ | 0.50 ₅₀₀ | 1.05 ₂₀₀ | - | - | - | - | - | - | - | - |
| 15 - 16 | 0.61 ₅₀₀ | 0.59 ₃₀₀ | 1.14 ₁₀₀ | 2.15 | - | - | - | - | - | - | - |
| 20 | 0.71 ₅₀₀ | 0.66 ₂₀₀ | 1.23 ₁₀₀ | 2.18 ₁₀₀ | 3.29 ₅₀ | 5.57 ₅₀ | - | - | - | - | - |
| 25 | 0.77 ₅₀₀ | 0.76 ₂₀₀ | 1.39 ₁₀₀ | 2.34 ₁₀₀ | 3.41 ₅₀ | 5.57 ₅₀ | 6.88 ₂₅ | - | - | - | - |
| 30 | 0.90 ₅₀₀ | 0.89 ₂₀₀ | 1.55 ₁₀₀ | 2.59 ₁₀₀ | 3.69 ₅₀ | 5.85 ₅₀ | 7.26 ₂₅ | - | - | - | - |
| 35 | 1.01 ₄₀₀ | 1.03 ₁₀₀ | 1.84 ₁₀₀ | 2.84 ₁₀₀ | 4.05 ₅₀ | 6.40 ₅₀ | 7.97 ₂₅ | - | 16.43 ₂₅ | - | - |
| 40 | 1.17 ₄₀₀ | 1.11 ₁₀₀ | 2.05 ₁₀₀ | 3.30 ₁₀₀ | 4.40 ₅₀ | 6.99 ₅₀ | 8.60 ₂₅ | 13.49 ₂₅ | 16.43 ₂₅ | - | - |
| 45 | 1.29 ₂₀₀ | 1.33 ₁₀₀ | 2.24 ₁₀₀ | 3.66 ₁₀₀ | 5.06 ₅₀ | 7.52 ₅₀ | 9.21 ₂₅ | 13.79 ₂₅ | 16.70 ₂₅ | - | - |
| 50 | 1.45 ₂₀₀ | 1.45 ₁₀₀ | 2.44 ₁₀₀ | 3.95 ₁₀₀ | 5.47 ₅₀ | 8.38 ₅₀ | 9.87 ₂₅ | 14.38 ₂₅ | 17.57 ₂₅ | 23.42 ₂₅ | 29.59 ₁₀₀ |
| 55 | 1.58 ₂₀₀ | 1.57 ₁₀₀ | 2.76 ₁₀₀ | 4.33 ₁₀₀ | 6.03 ₅₀ | 8.99 ₅₀ | 10.71 ₂₅ | 15.33 ₂₅ | 18.47 ₂₅ | 24.71 ₂₅ | 31.14 ₁₀₀ |
| 60 | 1.81 ₂₀₀ | 1.70 ₁₀₀ | 2.91 ₁₀₀ | 4.63 ₁₀₀ | 6.47 ₅₀ | 9.79 ₅₀ | 11.57 ₂₅ | 16.22 ₂₅ | 19.29 ₂₅ | 25.13 ₂₅ | 31.39 ₈₀ |
| 65 | 1.96 ₂₀₀ | 1.87 ₁₀₀ | 3.22 ₁₀₀ | 4.93 ₅₀ | 6.86 ₅₀ | 10.47 ₅₀ | 12.23 ₂₅ | 17.49 ₂₅ | 20.81 ₂₅ | 26.39 ₂₅ | 32.52 ₈₀ |
| 70 | 2.05 ₂₀₀ | 2.02 ₁₀₀ | 3.38 ₁₀₀ | 5.48 ₅₀ | 7.46 ₅₀ | 11.19 ₅₀ | 13.13 ₂₅ | 18.48 ₂₅ | 22.48 ₂₅ | 28.34 ₁₀₀ | 33.40 ₇₀ |
| 75 | - | 2.15 ₁₀₀ | 3.60 ₁₀₀ | 5.70 ₅₀ | 7.88 ₅₀ | 11.65 ₂₅ | 13.89 ₂₅ | 19.45 ₂₅ | 23.88 ₂₅ | 30.60 ₁₀₀ | 36.00 ₆₀ |
| 80 | - | 2.27 ₁₀₀ | 3.83 ₁₀₀ | 6.06 ₅₀ | 8.32 ₅₀ | 12.22 ₂₅ | 14.76 ₂₅ | 22.11 ₂₅ | 25.38 ₂₅ | 32.49 ₁₀₀ | 37.50 ₆₀ |
| 85 | - | 2.34 ₁₀₀ | 4.14 ₁₀₀ | 6.42 ₅₀ | 9.17 ₅₀ | 13.45 ₂₅ | 15.65 ₂₅ | 23.26 ₂₅ | 26.04 ₂₅ | 35.99 ₈₀ | 40.55 ₆₀ |
| 90 | - | 2.53 ₁₀₀ | 4.29 ₁₀₀ | 6.73 ₅₀ | 9.57 ₅₀ | 13.82 ₂₅ | 16.45 ₂₅ | 24.30 ₂₅ | 27.86 ₂₅ | 37.18 ₈₀ | 42.82 ₆₀ |
| 95 - 100 | - | 2.78 ₁₀₀ | 4.69 ₁₀₀ | 7.40 ₅₀ | 10.50 ₅₀ | 15.38 ₂₅ | 18.09 ₂₅ | 31.01 ₂₅ | 30.27 ₂₅ | 40.64 ₈₀ | 46.76 ₆₀ |
| 110 | - | - | 5.29 ₁₀₀ | 8.43 ₅₀ | 11.42 ₅₀ | 17.89 ₂₅ | 20.40 ₂₅ | 34.14 ₂₅ | 34.54 ₂₀ | 44.88 ₆₀ | 51.32 ₅₀ |
| 120 | ใต้เส้นคู่ = เกลียวครึ่ง | | 5.73 ₁₀₀ | 9.05 ₅₀ | 12.33 ₅₀ | 19.34 ₂₅ | 22.07 ₂₅ | 36.58 ₂₅ | 36.55 ₂₀ | 48.09 ₆₀ | 54.16 ₅₀ |
| 130 | (PARTIAL THREAD) | | 6.95 ₁₀₀ | 9.63 ₅₀ | 13.13 ₅₀ | 20.56 ₂₅ | 23.50 ₂₅ | 38.87 ₂₅ | 39.19 ₂₀ | 52.59 ₆₀ | 59.28 ₄₀ |
| 140 | - | - | 7.96 ₁₀₀ | 10.16 ₅₀ | 14.15 ₅₀ | 21.99 ₂₅ | 24.98 ₂₅ | 41.76 ₂₅ | 41.71 ₂₀ | 56.47 ₆₀ | 63.59 ₄₀ |
| 150 | - | - | 8.48 ₅₀ | 11.03 ₅₀ | 15.07 ₅₀ | 23.48 ₂₅ | 26.78 ₂₅ | 44.11 ₂₅ | 44.92 ₂₀ | 59.92 ₆₀ | 67.37 ₄₀ |

| Hex Nuts C1.8 | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------|-----------|-----------------------|-----------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----|-----|-----|-----|-----|-----|
| Size (Diameter) | M5 | M6 | M8 | M10 | M10 | M12 | M12 | M12 | M14 | M14 | M16 | M16 | M18 | M18 | M20 | M20 | M22 | M24 |
| p (pitch) | 0.8 | 1.0 | 1.25 | 1.25 | 1.5 | 1.25 | 1.5 | 1.75 | 1.5 | 2.0 | 1.5 | 2.0 | 1.5 | 2.5 | 1.5 | 2.5 | 2.5 | 3.0 |
| H (Head Thickness) | 1.5 | 5 | 6.5 | 8 | 8 | 10 | 10 | 10 | 11 | 11 | 13 | 13 | 15 | 15 | 16 | 16 | 18 | 19 |
| F (Width across flat) | 8 | 10 | 13 | 14 | 17 | 17 | 17 | 19 | 22 | 22 | 24 | 24 | 27 | 27 | 30 | 30 | 32 | 36 |
| Assembly Item | CODE | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | | | | | | |
| หัวน็อตด้า [SS400] | BBH | 0.22 | 0.25 _{1,000} | 0.50 ₅₀₀ | 0.90 ₄₀₀ | 1.40 ₃₀₀ | 2.20 ₁₀₀ | 2.10 ₁₀₀ | 3.20 ₁₀₀ | 4.00 ₇₀ | 5.50 ₅₀ | 6.70 ₅₀ | | | | | | |
| แหวนน๊อตด้า [SS400] | BFW | - | 0.11 _{2,000} | 0.18 _{2,000} | 0.30 _{1,000} | 0.50 ₅₀₀ | 0.60 ₅₀₀ | 0.77 ₅₀₀ | 1.10 ₂₀₀ | 1.20 ₂₀₀ | 1.30 ₂₀₀ | 1.40 ₂₀₀ | | | | | | |
| แหวนสปริงด้า [SS400] | BSZ1 | - | 0.10 _{4,000} | 0.12 _{2,500} | 0.20 _{1,500} | 0.40 ₇₀₀ | 0.55 ₃₅₀ | 0.72 ₃₅₀ | 1.25 ₂₀₀ | 1.25 ₂₀₀ | 1.80 ₁₅₀ | 2.70 ₁₀₀ | | | | | | |
| หัวน็อตด้า [Class 8] | - | - | - | 1.80 | 2.00 ₄₀₀ | 2.00 ₃₀₀ | 3.50 ₁₀₀ | 3.80 ₁₀₀ | 6.50 ₁₀₀ | 6.50 ₇₀ | 8.50 ₅₀ | 11.0 ₅₀ | | | | | | |
| แหวนน๊อตด้า [HV200, 300, 400] | - | - | - | 0.50 | 0.60 | 0.70 | - | 1.20 | 2.00 | 2.00 | 2.40 | 3.00 | | | | | | |



HEXAGON HEAD BOLTS GRADE 8.8 (HIGH TENSILE BOLTS)

สกรูมิลด้า เหล็กแข็ง เกรด 8.8

| | | | | | | | | | | | | | | | | |
|------------------------------|---------------------------------|----------------|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | STANDARD | DIN931, DIN933 | | | | | | | | | | | | | | |
| | MATERIAL | 8.8 | | | | | | | | | | | | | | |
| | COATING | BLACK | | | | | | | | | | | | | | |
| | CODE | AKM | | | | | | | | | | | | | | |
| Size (Diameter) | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M42 | M45 | M48 | |
| <i>p</i> (pitch) | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | | | | | | | | |
| <i>H</i> (Head Thickness) | 6.4 | 7.5 | 8.8 | 10.0 | 11.5 | 12.5 | 14 | 15 | | | | | | | | |
| <i>F</i> (Width across flat) | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | | | | | | | | |
| <i>b</i> (Thread Length) | L ≤ 125 mm. | | | | | | | | | | | | | | | |
| | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 | | | | | | | | |
| | 125 mm. < L ≤ 200 mm. | | | | | | | | | | | | | | | |
| | 36 | 40 | 44 | 48 | 52 | 56 | 60 | | | | | | | | | |
| | L > 200 mm. | | | | | | | | | | | | | | | |

| Size | M10 | M12 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M42 | M45 | M48 | |
|-----------|------|--|------|------|------|------|------|------|------|---|-------|-------|-------|-------|---|
| 65 | - | - | - | - | - | - | - | 56.0 | - | บนเส้นดู่ = เกลียวตลอด (FULL THREAD) | | | | | - |
| 70 | - | - | - | - | - | - | - | 56.0 | 71.0 | 100 | 125 | - | - | - | |
| 75 | - | - | - | - | - | - | - | 60.0 | 75.0 | 103 | 130 | - | - | - | |
| 80 | - | - | - | - | - | - | - | 64.0 | 80.0 | 105 | 133 | - | - | - | |
| 85 - 90 | - | - | - | - | - | - | - | 68.0 | 86.0 | 111 | 140 | - | - | - | |
| 95 - 100 | - | - | - | - | - | - | - | 72.0 | 92.0 | 119 | 144 | - | - | - | |
| 110 | - | - | - | - | - | - | - | 78.0 | 99.0 | 126 | 155 | - | - | - | |
| 120 | - | - | - | - | - | - | - | 84.0 | 105 | 134 | 165 | 363 | - | - | |
| 130 | - | ใต้เส้นดู่ = เกลียวครึ่ง (PARTIAL THREAD) | | | | | | - | 89.0 | 112 | 142 | 175 | 385 | - | - |
| 140 | - | - | - | - | - | - | - | 94.0 | 117 | 150 | 182 | 400 | - | - | |
| 150 | - | - | - | - | - | - | - | 97.0 | 124 | 155 | 192 | 422 | - | 550 | |
| 160 | 15.0 | 23.0 | 35.0 | 53.0 | 59.0 | 72.0 | 80.0 | 103 | 130 | 165 | 200 | 440 | - | 575 | |
| 170 | 16.0 | 25.0 | 36.0 | 57.0 | 62.0 | 76.0 | 84.0 | 109 | 136 | 173 | 210 | 462 | - | 605 | |
| 180 | 17.0 | 26.0 | 37.0 | 60.0 | 65.0 | 80.0 | 87.0 | 114 | 142 | 180 | 220 | 484 | - | 630 | |
| 190 | 18.0 | 27.0 | 39.0 | 62.0 | 67.0 | 83.0 | 90.0 | 118 | 149 | 189 | 228 | 502 | 578 | 665 | |
| 200 | 19.0 | 28.0 | 41.0 | 66.0 | 71.0 | 87.0 | 94.0 | 123 | 155 | 204 | 249 | 548 | 632 | 725 | |
| 210 | 20.0 | 30.0 | 45.0 | 67.0 | 72.0 | 96.0 | 100 | 130 | 168 | 238 | 262 | 576 | 662 | 765 | |
| 220 | 21.0 | 31.0 | 48.0 | 71.0 | 76.0 | 101 | 104 | 136 | 176 | 263 | 276 | 607 | 700 | 810 | |
| 230 | 22.0 | 33.0 | 51.0 | 76.0 | 81.0 | 106 | 112 | 143 | 185 | 278 | 290 | 640 | 736 | 850 | |
| 240 | 23.0 | 34.0 | 55.0 | 82.0 | 87.0 | 112 | 117 | 150 | 195 | 293 | 305 | 670 | 772 | 890 | |
| 250 | 24.0 | 35.0 | 57.0 | 87.0 | 92.0 | 118 | 124 | 157 | 205 | 309 | 320 | 700 | 810 | 935 | |
| 260 | - | 55.0 | 61.0 | - | 97.0 | 123 | 130 | 165 | 215 | 328 | 336 | 740 | 850 | 980 | |
| 270 | - | 55.0 | 65.0 | - | 103 | 128 | 138 | 173 | 225 | 343 | 350 | 770 | 886 | 1,020 | |
| 280 | - | 55.0 | 69.0 | - | 108 | 134 | 146 | 182 | 235 | 360 | 368 | 810 | 932 | 1,075 | |
| 290 | - | 55.0 | 74.0 | - | 115 | 141 | 155 | 191 | 245 | 377 | 385 | 850 | 980 | 1,130 | |
| 300 | - | 55.0 | 79.0 | - | 123 | 148 | 164 | 200 | 255 | 402 | 410 | 900 | 1,035 | 1,190 | |
| 310 - 350 | - | 69.0 | 100 | - | 157 | 188 | 200 | 256 | 305 | 510 | 520 | 1,140 | 1,312 | 1,510 | |
| 360 - 400 | - | 80.0 | 125 | - | 185 | 225 | 248 | 310 | 360 | 610 | 620 | 1,365 | 1,565 | 1,800 | |
| 410 - 430 | - | - | 130 | - | 190 | 230 | 257 | 317 | 370 | 660 | 670 | 1,474 | 1,695 | 1,950 | |
| 440 - 450 | - | - | 140 | - | 227 | 240 | 293 | 345 | 410 | 710 | 720 | 1,580 | 1,820 | 2,095 | |
| 460 - 480 | - | - | 150 | - | 232 | 250 | 300 | 352 | 420 | 760 | 770 | 1,655 | 1,950 | 2,245 | |
| 490 - 500 | - | - | 165 | - | 252 | 275 | 335 | 380 | 460 | 810 | 820 | 1,805 | 2,080 | 2,395 | |
| 510 - 520 | - | - | 180 | - | 272 | 300 | 365 | 410 | 500 | 860 | 870 | 1,915 | 2,225 | 2,540 | |
| 530 - 550 | - | - | 190 | - | 292 | 325 | 395 | 440 | 540 | 910 | 920 | 2,025 | 2,330 | 2,680 | |
| 560 - 580 | - | - | 210 | - | 320 | 350 | 425 | 470 | 580 | 960 | 970 | 2,135 | 2,455 | 2,825 | |
| 590 - 600 | - | - | 225 | - | 350 | 380 | 460 | 500 | 620 | 1,010 | 1,020 | 2,245 | 2,582 | 2,970 | |

| Assembly Item | M27 | M30 | M33 | M36 | M39 | M42 | M45 | M48 | M52 | M56 | M60 | M64 | M72 | M80 | M100 |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-------|
| หัวน็อตด้า [SS400] | 16.0 | 23.0 | 32.0 | 36.0 | 56.0 | 75.0 | 85.0 | 100 | 185 | 195 | 200 | 260 | - | - | - |
| แหวนน๊อปะด้า [SS400] | 6.0 | 7.0 | 12.0 | 13.0 | 20.0 | 23.0 | 28.0 | 36.0 | - | - | - | - | - | - | - |
| แหวนสปริงด้า [SS400] | 7.0 | 7.5 | 16.0 | 16.0 | 50.0 | 52.0 | 52.0 | 72.0 | - | - | - | - | - | - | - |
| หัวน็อตด้า [Class 8] | 22.0 | 30.0 | 38.0 | 50.0 | 92.0 | 105 | 130 | 150 | 240 | 260 | 380 | 400 | 520 | 700 | 1,000 |
| แหวนน๊อปะ [HV200, 300, 400] | 7.5 | 10.0 | 14.0 | 17.0 | 22.0 | 25.0 | 35.0 | 40.0 | 48.0 | 52.0 | - | - | - | - | - |

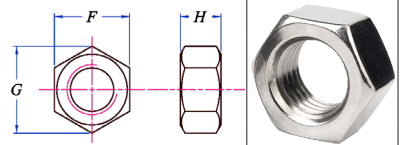
HEX HEAD BOLTS FULL THREAD STAINLESS STEEL 304

สกรูหัวเหลี่ยมเกลียวตลอด สแตนเลส 304 (มิล)

| | | | | | | | | | | | | | | | | |
|------------------------------------|-----------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | STANDARD | | DIN933 | | | | | | | | | | | | | |
| | MATERIAL | | SUS304 | | | | | | | | | | | | | |
| | COATING | | | | | | | | | | | | | | | |
| | CODE | | CHFL | | | | | | | | | | | | | |
| Size (Diameter) (mm.) | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 |
| <i>p</i> (Pitch) | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 |
| <i>H</i> (Head Thickness) (mm.) | 2.8 | 3.5 | 4.0 | 5.3 | 6.4 | 7.5 | 8.8 | 10 | 11.5 | 12.5 | 14 | 15 | 17 | 18.7 | 21 | 22.5 |
| <i>F</i> (Width across flat) (mm.) | 7 | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | 50 | 55 |

| <i>L</i> (Length), mm. | Size | | | | | | | | | | | | | | | |
|---------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 |
| 8 | 1.8 | 1.7 | 1.9 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | 1.8 | 1.7 | 1.9 | 3.8 | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 1.8 | 1.6 | 1.9 | 3.7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 15-16 | 1.9 | 1.9 | 2.2 | 4.2 | 8.2 | 12.3 | - | - | - | - | - | - | - | - | - | - |
| 20 | 2.1 | 2.2 | 2.3 | 4.7 | 8.7 | 12.3 | - | - | - | - | - | - | - | - | - | - |
| 25 | 2.4 | 2.4 | 2.6 | 5.3 | 9.5 | 13.8 | 33.0 | 31.0 | - | - | - | - | - | - | - | - |
| 30 | 2.7 | 2.7 | 3.0 | 5.8 | 10.5 | 15.4 | 35.0 | 33.0 | 71.0 | - | - | - | - | - | - | - |
| 35 | 3.1 | 3.2 | 3.4 | 6.5 | 11.5 | 16.8 | 36.0 | 36.0 | 78.0 | - | - | - | - | - | - | - |
| 40 | 3.5 | 3.6 | 3.7 | 7.1 | 12.6 | 18.2 | 38.0 | 38.0 | 86.0 | 68.0 | - | - | - | - | - | - |
| 45 | 3.9 | 3.9 | 4.1 | 7.8 | 13.7 | 19.8 | 41.0 | 41.0 | 93.0 | 71.0 | - | - | - | - | - | - |
| 50 | 4.2 | 4.4 | 4.4 | 8.4 | 14.6 | 21.1 | 43.0 | 43.0 | 100 | 77.0 | 183 | 213 | 300 | - | - | - |
| 55 | 8.0 | 8.0 | 4.9 | 9.2 | 15.4 | 22.3 | 44.0 | 44.0 | 104 | 80.0 | 196 | 224 | 305 | - | - | - |
| 60 | 9.0 | 9.0 | 5.4 | 9.7 | 16.4 | 24.1 | 45.0 | 47.0 | 109 | 85.0 | 200 | 233 | 310 | - | - | - |
| 65 | 10.0 | 10.0 | 5.9 | 10.7 | 17.5 | 25.4 | 50.0 | 50.0 | 113 | 90.0 | 210 | 241 | 320 | - | - | - |
| 70 | 11.0 | 11.0 | 6.1 | 11.2 | 18.4 | 26.7 | 54.0 | 53.0 | 120 | 99.0 | 217 | 250 | 330 | 402 | - | - |
| 75 | 12.0 | 12.0 | 7.3 | 12.1 | 19.6 | 28.1 | 56.0 | 57.0 | 134 | 109 | 225 | 260 | 340 | 410 | - | - |
| 80 | 13.0 | 13.0 | 8.3 | 12.7 | 20.5 | 29.7 | 63.0 | 61.0 | 148 | 112 | 233 | 270 | 360 | 420 | 820 | 820 |
| 90 | 14.0 | 14.0 | 9.4 | 14.2 | 22.3 | 32.4 | 69.0 | 68.0 | 161 | 124 | 245 | 295 | 380 | 450 | 850 | 850 |
| 100 | 15.0 | 15.0 | 10.1 | 15.4 | 24.6 | 35.4 | 73.0 | 73.0 | 175 | 139 | 258 | 320 | 400 | 500 | 900 | 900 |
| 110 | - | - | - | 34.0 | 36.0 | 49.0 | 95.0 | 85.0 | 188 | 154 | 278 | 340 | 430 | 540 | 950 | 950 |
| 120 | - | - | - | 37.0 | 39.0 | 55.0 | 105 | 91.0 | 202 | 162 | 303 | 370 | 459 | 580 | 1000 | 1000 |
| 130 | - | - | - | 39.0 | 41.0 | 61.0 | 110 | 99.0 | 215 | 170 | 316 | 390 | 475 | 610 | 1050 | 1050 |
| 140 | - | - | - | 44.0 | 46.0 | 63.0 | 120 | 103 | 242 | 185 | 335 | 410 | 505 | 650 | 1100 | 1100 |
| 150 | - | - | - | 47.0 | 49.0 | 71.0 | 130 | 114 | 256 | 201 | 360 | 430 | 534 | 690 | 1200 | 1200 |

| หัวน็อต SUS 304 | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Size (Diameter) | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | |
| <i>p</i> (Pitch) | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 | |
| <i>H</i> (Head Thickness) | 3.2 | 4.5 | 5.0 | 6.5 | 8.0 | 10 | 11 | 13 | 15 | 16 | 18 | 19 | 22 | 24 | 26 | 29 | |
| <i>F</i> (Width across flat) | 7 | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | 50 | 55 | |
| Assembly Item | CODE | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 |
| หัวน็อต SUS 304 | DNU | 0.95 | 0.95 | 1.15 | 2.8 | 5.3 | 7.6 | 16 | 18 | 35 | 31 | 55 | 70 | 210 | 230 | 330 | 360 |
| แหวนอีแปะ SUS304 | DFW | 0.35 | 0.45 | 0.50 | 1.1 | 2.0 | 3.8 | 5.5 | 5.5 | 7.5 | 7.5 | 14 | 17 | 56 | 60 | 75 | 75 |
| แหวนสปริง SUS304 | DSW | 0.50 | 0.60 | 0.60 | 1.1 | 1.8 | 3.6 | 6.0 | 6.0 | 9.5 | 9.5 | 17 | 20 | 85 | 100 | 110 | 110 |



HEX HEAD BOLTS FULL THREAD STAINLESS STEEL 304

สกรูหัวเหลี่ยมเกลียวตลอด สแตนเลส 304 (หุ่น)

| | | | | | | | | | | | | | | |
|------------------------------------|-----------------|------------|-------------------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|----------|
| | STANDARD | | ANSI B18.2.1, JIS B1180 | | | | | | | | | | | |
| | MATERIAL | | SUS304 | | | | | | | | | | | |
| | COATING | | | | | | | | | | | | | |
| | CODE | | CHFL | | | | | | | | | | | |
| Size (Diameter) (inch) | 3/16 BSW | 1/4 BSW | 5/16 BSW | 3/8 BSW | 3/8 UNC | 7/16 UNC | 1/2 BSW | 1/2 UNC | 5/8 BSW | 5/8 UNC | 3/4 BSW | 3/4 UNC | 7/8 UNC | 1 UNC |
| <i>p</i> (Threads per inch) | 24 | 20 | 18 | 16 | 16 | 14 | 12 | 13 | 11 | 11 | 10 | 10 | 9 | 8 |
| <i>H</i> (Head Thickness) (mm.) | 3.5 | 5.0 | 6.0 | 6.5 | 6.0 | 7.0 | 9.0 | 8.0 | 11 | 10 | 13 | 12 | 14 | 15.5 |
| <i>F</i> (Width across flat) (mm.) | 8 | 11 | 14 | 17 | 14.3 | 16 | 22 | 19 | 27 | 24 | 32 | 28 | 33.3 | 38 |

| <i>L</i> (Length), inch. | Size (inch.) | | | | | | | | | | | | | |
|--------------------------|--------------|-----|------|---------|------|------|------|------|------|------|------|-----|-----|--|
| | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | | 5/8 | | 3/4 | | 7/8 | 1 | |
| | BSW | BSW | BSW | BSW/UNC | BSW | BSW | UNC | BSW | UNC | BSW | UNC | UNC | UNC | |
| 3/8 | 1.9 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1/2 | 1.9 | 2.3 | 4.6 | - | - | - | - | - | - | - | - | - | - | |
| 5/8 | 2.3 | 2.4 | 4.9 | - | - | - | - | - | - | - | - | - | - | |
| 3/4 | 2.3 | 2.4 | 4.9 | 7.9 | - | - | - | - | - | - | - | - | - | |
| 1 | 2.6 | 2.9 | 5.5 | 8.4 | 14.0 | 17.5 | 17.5 | 37.8 | 34.5 | - | - | - | - | |
| 1.1/4 | 3.1 | 3.4 | 6.4 | 9.9 | 16.0 | 19.8 | 19.8 | 39.8 | 35.8 | - | - | - | - | |
| 1.1/2 | 3.7 | 3.8 | 6.9 | 10.6 | 18.0 | 21.3 | 21.3 | 43.8 | 39.3 | - | - | - | - | |
| 2 | 4.4 | 5.1 | 8.6 | 12.9 | 21.0 | 25.6 | 25.6 | 44.8 | 40.3 | 75.0 | 64.0 | - | - | |
| 2.1/2 | - | 6.4 | 10.7 | 15.2 | 26.0 | 29.8 | 29.8 | 52.8 | 47.8 | 84.0 | 72.0 | 208 | 313 | |
| 3 | - | 6.9 | 12.4 | 17.4 | 29.0 | 33.5 | 33.5 | 61.5 | 55.3 | 93.0 | 81.0 | 220 | 330 | |
| 3.1/2 | - | 8.4 | 13.9 | 20.9 | 34.0 | 38.3 | 38.3 | 69.8 | 62.8 | 104 | 91.0 | 247 | 345 | |
| 4 | - | 9.6 | 16.9 | 22.4 | 37.0 | 41.8 | 41.8 | 76.5 | 68.8 | 116 | 100 | 267 | 368 | |
| 4.1/2 | - | - | 40.0 | 33.7 | - | 50.7 | 50.7 | 81.5 | 73.3 | 126 | 109 | 297 | 405 | |
| 5 | - | - | 48.0 | 38.7 | - | 54.8 | 54.8 | 90.3 | 81.3 | 132 | 120 | 319 | 440 | |
| 5.1/2 | - | - | 58.0 | 43.7 | - | 61.8 | 61.8 | 101 | 90.0 | 145 | 130 | 347 | 473 | |
| 6 | - | - | 68.0 | 44.7 | - | 64.7 | 64.7 | 106 | 95.0 | 152 | 137 | 374 | 495 | |

| หัวน็อต SUS 304 | | | | | | | | | | | | | | | |
|------------------------------------|-------|-------------|------------|-------------|----------------|-------------|----------------|-------|----------------|-------|----------------|-------|------------|----------|--|
| Size (Diameter) (inch) | 3/16w | 1/4w | 5/16w | 3/8w | 3/8c | 7/16w | 1/2w | 1/2c | 5/8w | 5/8c | 3/4w | 3/4c | 7/8c | 1c | |
| <i>p</i> (Threads per inch) | 24 | 20 | 18 | 16 | 16 | 14 | 12 | 13 | 11 | 11 | 10 | 10 | 9 | 8 | |
| <i>H</i> (Head Thickness) (mm.) | 3.6 | 5.0 | 6.0 | 8.0 | 8.3 | 9.0 | 10 | 11 | 13 | 13.9 | 16 | 16.3 | 18 | 20 | |
| <i>F</i> (Width across flat) (mm.) | 10 | 11 | 14 | 17 | 14.3 | 19 | 21 | 19 | 26 | 24 | 32 | 27 | 36 | 41 | |
| Assembly Item | CODE | 3/16 BSW | 1/4 BSW | 5/16 BSW | 3/8 BSW/UNC | 7/16 BSW | 1/2 BSW UNC | | 5/8 BSW UNC | | 3/4 BSW UNC | | 7/8 UNC | 1 UNC | |
| หัวน็อต SUS 304 | DNU | 0.95 | 1.15 | 3.20 | 5.20 | 7.20 | 10.30 | 10.30 | 22.00 | 19.00 | 38.00 | 34.00 | 60.00 | 80.00 | |
| แหวนอีแปะ SUS304 | DFW | 0.45 | 0.50 | 1.10 | 2.00 | 3.80 | 3.80 | 3.80 | 5.50 | 5.50 | 7.50 | 7.50 | 14.00 | 17.00 | |
| แหวนสปริง SUS304 | DSW | 0.60 | 0.60 | 1.10 | 1.80 | 3.60 | 3.60 | 3.60 | 6.00 | 6.00 | 9.50 | 9.50 | 17.00 | 20.00 | |

HEX HEAD BOLTS PART THREAD STAINLESS STEEL 304

สกรูหัวเหลี่ยมเกลียวครึ่ง สแตนเลส 304 (มิล)

| | | |
|--|-----------------|--------|
| | STANDARD | DIN931 |
| | MATERIAL | SUS304 |
| | COATING | |
| | CODE | CHHL |

| | | | | | | | | | | | | | | | | |
|---|-----|-----|-----|------|-----|------|-----|-----|------|------|-----|-----|-----|------|-----|------|
| Size (Diameter) (mm.) | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 |
| <i>p</i> (Pitch) | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 |
| <i>H</i> (Head Thickness) (mm.) | 2.8 | 3.5 | 4.0 | 5.3 | 6.4 | 7.5 | 8.8 | 10 | 11.5 | 12.5 | 14 | 15 | 17 | 18.7 | 21 | 22.5 |
| <i>F</i> (Width across flat) (mm.) | 7 | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | 50 | 55 |
| <i>b</i> (Thread Length) <i>L</i> ≤ 125 mm. | 14 | 16 | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 | 60 | 66 | 72 | 76 |
| <i>L</i> > 125 mm. | | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 66 | 72 | 78 | 84 |

| <i>L</i> (Length), mm. | Size | | | | | | | | | | | | | | | |
|---------------------------|------|------|------|-------|------|------|------|------|-----|------|-----|-----|-----|------|------|------|
| | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 |
| 25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | - | - | 3.0 | 5.8 | - | - | - | - | - | - | - | - | - | - | - | - |
| 35 | - | 3.2 | 3.4 | 6.5 | 11.5 | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | 3.6 | 3.7 | 7.1 | 12.6 | 18.2 | - | - | - | - | - | - | - | - | - | - |
| 45 | - | 3.9 | 4.1 | 7.8 | 13.7 | 19.8 | - | - | - | - | - | - | - | - | - | - |
| 50 | - | 4.4 | 4.4 | 8.4 | 14.6 | 21.1 | - | - | - | - | - | - | - | - | - | - |
| 55 | 8.0 | 8.0 | 4.9 | 9.15 | 15.4 | 22.3 | 44.0 | - | - | - | - | - | - | - | - | - |
| 60 | 9.0 | 9.0 | 5.4 | 9.7 | 16.4 | 24.1 | 45.0 | 47.0 | - | - | - | - | - | - | - | - |
| 65 | 10.0 | 10.0 | 5.9 | 10.65 | 17.5 | 25.4 | 50.0 | 50.0 | - | 90.0 | - | - | - | - | - | - |
| 70 | 11.0 | 11.0 | 6.1 | 11.2 | 18.4 | 26.7 | 54.0 | 53.0 | 120 | 99.0 | 217 | - | - | - | - | - |
| 75 | 12.0 | 12.0 | 7.3 | 12.1 | 19.6 | 28.1 | 56.0 | 57.0 | 134 | 109 | 225 | 260 | 340 | - | - | - |
| 80 | 13.0 | 13.0 | 8.3 | 12.7 | 20.5 | 29.7 | 63.0 | 61.0 | 148 | 112 | 233 | 270 | 360 | 420 | 820 | 820 |
| 90 | 14.0 | 14.0 | 9.4 | 14.2 | 22.3 | 32.4 | 69.0 | 68.0 | 161 | 124 | 245 | 295 | 380 | 450 | 850 | 850 |
| 100 | 15.0 | 15.0 | 10.1 | 15.4 | 24.6 | 35.4 | 73.0 | 73.0 | 175 | 139 | 258 | 320 | 400 | 500 | 900 | 900 |
| 110 | - | - | - | 34.0 | 36.0 | 49.0 | 95.0 | 85.0 | 188 | 154 | 278 | 340 | 430 | 540 | 950 | 950 |
| 120 | - | - | - | 37.0 | 39.0 | 55.0 | 105 | 91.0 | 202 | 162 | 303 | 370 | 459 | 580 | 1000 | 1000 |
| 130 | - | - | - | 39.0 | 41.0 | 61.0 | 110 | 99.0 | 215 | 170 | 316 | 390 | 475 | 610 | 1050 | 1050 |
| 140 | - | - | - | 44.0 | 46.0 | 63.0 | 120 | 103 | 242 | 185 | 335 | 410 | 505 | 650 | 1100 | 1100 |
| 150 | - | - | - | 47.0 | 49.0 | 71.0 | 130 | 114 | 256 | 201 | 360 | 430 | 534 | 690 | 1200 | 1200 |
| 160 | - | - | - | - | - | - | - | 170 | 300 | 280 | 380 | 450 | 564 | 730 | 1300 | 1300 |
| 170 | - | - | - | - | - | - | - | 190 | 315 | 300 | 400 | 470 | 595 | 760 | 1400 | 1400 |
| 180 | - | - | - | - | - | - | - | 200 | 330 | 310 | 420 | 480 | 642 | 800 | 1500 | 1500 |
| 190 | - | - | - | - | - | - | - | 210 | 245 | 325 | 440 | 500 | 658 | 850 | 1600 | 1600 |
| 200 | - | - | - | - | - | - | - | 220 | 360 | 340 | 460 | 530 | 685 | 900 | 1700 | 1700 |
| 220 | - | - | - | - | - | - | - | 230 | 375 | 355 | 500 | 560 | 730 | 950 | 1800 | 1800 |
| 240 | - | - | - | - | - | - | - | 240 | 390 | 370 | 530 | 610 | 790 | 1000 | 1900 | 1900 |
| 260 | - | - | - | - | - | - | - | 250 | 405 | 385 | 570 | 650 | 850 | 1050 | 2000 | 2000 |

| หัวน็อต SUS 304 | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Size (Diameter) | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | |
| <i>p</i> (Pitch) | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 | |
| <i>H</i> (Head Thickness) | 3.2 | 4.5 | 5.0 | 6.5 | 8.0 | 10 | 11 | 13 | 15 | 16 | 18 | 19 | 22 | 24 | 26 | 29 | |
| <i>F</i> (Width across flat) | 7 | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | 50 | 55 | |
| Assembly Item | CODE | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 |
| หัวน็อต SUS 304 | DNU | 0.95 | 0.95 | 1.15 | 2.8 | 5.3 | 7.6 | 16 | 18 | 35 | 31 | 55 | 70 | 210 | 230 | 330 | 360 |
| แหวนอีแปะ SUS304 | DFW | 0.35 | 0.45 | 0.50 | 1.1 | 2.0 | 3.8 | 5.5 | 5.5 | 7.5 | 7.5 | 14 | 17 | 56 | 60 | 75 | 75 |
| แหวนสปริง SUS304 | DSW | 0.50 | 0.60 | 0.60 | 1.1 | 1.8 | 3.6 | 6.0 | 6.0 | 9.5 | 9.5 | 17 | 20 | 85 | 100 | 110 | 110 |

HEX HEAD BOLTS PART THREAD STAINLESS STEEL 304


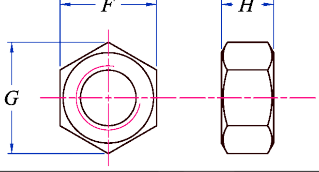
สกรูหัวเหลี่ยมเกลียวครึ่ง สแตนเลส 304 (หุ่น)

| | | | | | | | | | | | | | |
|------------------------------------|-----------------|-------------|-------------------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|----------|
| | STANDARD | | ANSI B18.2.1, JIS B1180 | | | | | | | | | | |
| | MATERIAL | | SUS304 | | | | | | | | | | |
| | COATING | | | | | | | | | | | | |
| | CODE | | CHHL | | | | | | | | | | |
| Size (Diameter) (inch) | 1/4 UNC | 5/16 UNC | 3/8 BSW | 3/8 UNC | 7/16 UNC | 1/2 BSW | 1/2 UNC | 5/8 BSW | 5/8 UNC | 3/4 BSW | 3/4 UNC | 7/8 UNC | 1 UNC |
| <i>p</i> (Threads per inch) | 20 | 18 | 16 | 16 | 14 | 12 | 13 | 11 | 11 | 10 | 10 | 9 | 8 |
| <i>H</i> (Head Thickness) (mm.) | 4.0 | 5.2 | 6.5 | 6.0 | 7.0 | 9.0 | 8.0 | 11 | 10 | 13 | 12 | 14 | 15.5 |
| <i>F</i> (Width across flat) (mm.) | 11 | 12.7 | 17 | 14.3 | 16 | 22 | 19 | 27 | 24 | 32 | 28 | 33.3 | 38 |
| <i>L</i> (Length), inch. | Size (inch.) | | | | | | | | | | | | |
| | 1/4 UNC | 5/16 UNC | 3/8 BSW | 3/8 UNC | 7/16 UNC | 1/2 BSW | 1/2 UNC | 5/8 BSW | 5/8 UNC | 3/4 BSW | 3/4 UNC | 7/8 UNC | 1 UNC |
| 5/8 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3/4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 2.9 | - | - | - | - | - | - | - | - | - | - | - | |
| 1.1/4 | 3.4 | - | - | - | - | - | - | - | - | - | - | - | |
| 1.1/2 | 3.75 | 6.9 | - | - | - | - | - | - | - | - | - | - | |
| 2 | 5.1 | 8.6 | 12.9 | 12.9 | 21.0 | - | 25.6 | - | - | - | - | - | |
| 2.1/2 | 6.4 | 10.7 | 15.2 | 15.2 | 26.0 | - | 29.8 | 52.8 | 47.8 | - | - | - | |
| 3 | 6.9 | 12.4 | 17.4 | 17.4 | 29.0 | - | 33.5 | 61.5 | 55.3 | 85.5 | 81.0 | - | |
| 3.1/2 | 8.4 | 13.9 | 20.9 | 20.9 | 34.0 | - | 38.3 | 69.8 | 62.8 | 97 | 91.0 | 247 | |
| 4 | 9.6 | 16.9 | 22.4 | 22.4 | 37.0 | - | 41.8 | 76.5 | 68.8 | 106 | 100 | 267 | |
| 4.1/2 | - | 40.0 | 33.7 | 33.7 | - | 50.7 | 50.7 | 81.5 | 73.3 | 115 | 109 | 297 | |
| 5 | - | 48.0 | 38.7 | 38.7 | - | 54.8 | 54.8 | 90.3 | 81.3 | 127 | 120 | 319 | |
| 5.1/2 | - | 58.0 | 43.7 | 43.7 | - | 61.8 | 61.8 | 101 | 90.0 | 138 | 130 | 347 | |
| 6 | - | 68.0 | 44.7 | 44.7 | - | 64.7 | 64.7 | 106 | 95.0 | 145 | 137 | 374 | |
| 6.1/2 | - | - | 72.0 | 60.0 | - | 113 | 95.0 | 181 | 145 | 260 | 225 | - | |
| 7 | - | - | 80.0 | 65.0 | - | 122 | 99.0 | 192 | 150 | 280 | 247 | 437 | |
| 7.1/2 | - | - | - | - | - | - | 112 | - | 160 | 300 | 260 | - | |
| 8 | - | - | 92.0 | - | - | 138 | 112 | 220 | 180 | 320 | 280 | 460 | |
| 9 | - | - | 104 | - | - | 156 | 126 | 242 | 200 | 363 | 300 | 470 | |
| 10 | - | - | 115 | - | - | 174 | 140 | 269 | 220 | 400 | 330 | 570 | |
| 11 | - | - | 133 | - | - | 198 | 158 | 302 | 240 | 450 | 360 | 610 | |
| 12 | - | - | 143 | - | - | 212 | 170 | 330 | - | 484 | 390 | 660 | |
| 13 | - | - | 158 | - | - | 234 | - | 350 | - | 520 | 420 | 710 | |
| 14 | - | - | 168 | - | - | 250 | - | 379 | - | 560 | 450 | 1,075 | |
| 15 | - | - | 180 | - | - | 167 | - | 407 | - | 595 | 480 | - | |
| 16 | - | - | 191 | - | - | 283 | - | 430 | - | 675 | - | - | |
| 17 | - | - | 205 | - | - | 310 | - | 484 | - | 720 | - | - | |

| | | | | | | | | | | | | | | | |
|------------------------------------|-------------|---------------------|--------------------|---------------------|------------------------|---------------------|------------|-------|------------|-------|------------|-------|--------------------|------------------|----|
| หัวน็อต SUS 304 | | | | | | | | | | | | | | | |
| Size (Diameter) (inch) | 3/16w | 1/4w | 5/16w | 3/8w | 3/8c | 7/16w | 1/2w | 1/2c | 5/8w | 5/8c | 3/4w | 3/4c | 7/8c | | 1c |
| <i>p</i> (Threads per inch) | 24 | 20 | 18 | 16 | 16 | 14 | 12 | 13 | 11 | 11 | 10 | 10 | 9 | | 8 |
| <i>H</i> (Head Thickness) (mm.) | 3.6 | 5.0 | 6.0 | 8.0 | 8.3 | 9.0 | 10 | 11 | 13 | 13.9 | 16 | 16.3 | 18 | | 20 |
| <i>F</i> (Width across flat) (mm.) | 10 | 11 | 14 | 17 | 14.3 | 19 | 21 | 19 | 26 | 24 | 32 | 27 | 36 | 41 | |
| Assembly Item | CODE | 3/16 BSW | 1/4 BSW | 5/16 BSW | 3/8 BSW/UNC | 7/16 BSW | 1/2 | | 5/8 | | 3/4 | | 7/8 UNC | 1 UNC | |
| หัวน็อต SUS 304 | DNU | 0.95 | 1.15 | 3.20 | 5.20 | 7.20 | 10.30 | 10.30 | 22.00 | 19.00 | 38.00 | 34.00 | 60.00 | 80.00 | |
| แหวนอีปะ SUS304 | DFW | 0.45 | 0.50 | 1.10 | 2.00 | 3.80 | 3.80 | 3.80 | 5.50 | 5.50 | 7.50 | 7.50 | 14.00 | 17.00 | |
| แหวนสปริง SUS304 | DSW | 0.60 | 0.60 | 1.10 | 1.80 | 3.60 | 3.60 | 3.60 | 6.00 | 6.00 | 9.50 | 9.50 | 17.00 | 20.00 | |

HEX NUT [BSW, UNC, UNF]

หัวน็อต [BSW, UNC, UNF]

| | | | |
|---|---|-----------------|---------------|
|  |  | STANDARD | ANSI B18.2.2 |
| | | MATERIAL | STEEL |
| | | COATING | |
| | | CODE | BNH, BNC, BNF |


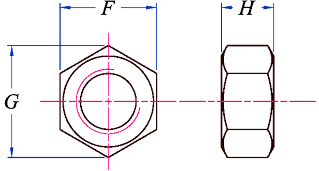
| BSW | BSW Price per KG. | | | | | | | | | |
|-------------------|-------------------|-----|------|-----|------|-----|-----|-----|-----|-----|
| Size (inch) | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 |
| เกลียว (p) | 24 | 20 | 18 | 16 | 14 | 12 | 11 | 10 | 9 | 8 |
| ขอบ (F), mm. | 8 | 11 | 14 | 17 | 19 | 21 | 26 | 32 | 35 | 41 |
| หนา (H), mm. | 4.5 | 5 | 7 | 8 | 9 | 10 | 13 | 16 | 18 | 22 |
| ราคา กิโลละ (บาท) | 130 | 86 | 83 | 80 | 79 | 78 | 80 | 80 | 125 | 125 |

| UNC | UNC Price per KG. | | | | | | | | | |
|-------------------|-------------------|------|------|-------|------|------|-------|-------|--------|-------|
| Size (inch) | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 |
| เกลียว (p) | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 10 | 9 | 8 |
| ขอบ (F), inch. | 7/16 | 1/2 | 9/16 | 11/16 | 3/4 | 7/8 | 15/16 | 1.1/8 | 1.5/16 | 1.1/2 |
| หนา (H), mm. | 5.6 | 6.7 | 8.3 | 9.5 | 11.1 | 12.3 | 13.9 | 16.3 | 19.0 | 21.8 |
| ราคา กิโลละ (บาท) | 102 | 100 | 99 | 98 | 98 | 100 | - | - | - | - |

| UNF | UNF Price per KG. | | | | | | | | | |
|-------------------|-------------------|------|------|-------|------|------|-------|-------|--------|-------|
| Size (inch) | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 |
| เกลียว (p) | 28 | 24 | 24 | 20 | 20 | 18 | 18 | 16 | 14 | 12 |
| ขอบ (F), inch. | 7/16 | 1/2 | 9/16 | 11/16 | 3/4 | 7/8 | 15/16 | 1.1/8 | 1.5/16 | 1.1/2 |
| หนา (H), mm. | 5.6 | 6.7 | 8.3 | 9.5 | 11.1 | 12.3 | 13.9 | 16.3 | 19.0 | 21.8 |
| ราคา กิโลละ (บาท) | 105 | 103 | 102 | 101 | 101 | 103 | - | - | - | - |

HEXAGON NUT [BLACK]


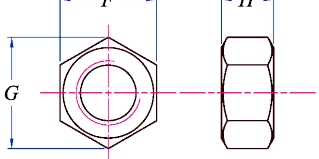
หัวน็อตมิลดำ [เกลียวมิลชุบดำ]

| | | | |
|---|---|-----------------|---------|
|  |  | STANDARD | DIN 934 |
| | | MATERIAL | STEEL |
| | | COATING | BLACK |
| | | CODE | BKM |

| Size (mm.) | Price per KG. | | | | | | | | | |
|-------------------|---------------|------|------|-----|------|-----|------|-----|-----|--|
| | M6 | M8 | M10 | M10 | M12 | M12 | M12 | M14 | M14 | |
| เกลียว (p), mm. | 1.0 | 1.25 | 1.25 | 1.5 | 1.23 | 1.5 | 1.75 | 1.5 | 2.0 | |
| ขอบ (F), mm. | 10 | 13 | 14 | 17 | 17 | 17 | 19 | 22 | 22 | |
| หนา (H), mm. | 5 | 6.5 | 8 | 8 | 10 | 10 | 10 | 11 | 11 | |
| ราคา กิโลละ (บาท) | 100 | 97 | 95 | 94 | 95 | 95 | 94 | 102 | 102 | |

HEXAGON NUT [WHITE ZINC]


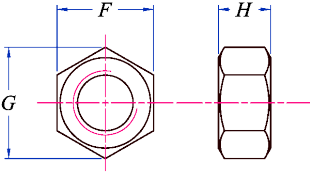
หัวน็อตมิลขาว [เกลียวมิลชุบขาว]

| | | | |
|---|---|-----------------|------------|
|  |  | STANDARD | JIS B1181 |
| | | MATERIAL | STELL |
| | | COATING | WHITE ZINC |
| | | CODE | BBH |

| Size (mm.) | Price per KG. | | | | | | |
|-------------------|---------------|-----|-----|-----|------|------|-----|
| | M3 | M4 | M5 | M6 | M8 | M10 | M12 |
| เกลียว (p), mm. | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.25 | 1.5 |
| ขอบ (F), mm. | 5 | 7 | 8 | 10 | 12 | 14 | 17 |
| หนา (H), mm. | 2.3 | 3.1 | 4.5 | 5 | 6.5 | 8 | 10 |
| ราคา กิโลละ (บาท) | 185 | 140 | 125 | 100 | 97 | 95 | 95 |

HEXAGON NUT CLASS 8 [BLACK, HDG]

หัวน็อตมิลตา เกรด 8.8 [ชุดดำ, ชุดกัลกนาไนซ์]

| | | | | |
|---|---|--|-----------------|------------|
|  |  | | STANDARD | DIN 934 |
| | | | MATERIAL | 8.8 |
| | | | COATING | BLACK, HDG |
| | | | CODE | BKM8 |


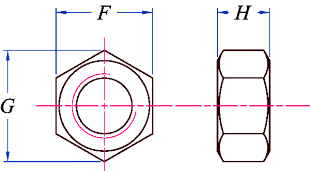
| | | | | | | | | | | | | | | | | | | |
|----------------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Size (Diameter) | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M39 | M42 | M48 | M56 | M60 | M64 |
| p (pitch), mm. | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 | 4.0 | 4.5 | 5.0 | 5.5 | 5.5 | 6.0 |
| H (Head Thickness), mm. | 8 | 10 | 11 | 13 | 15 | 16 | 18 | 19 | 22 | 24 | 26 | 29 | 31 | 34 | 38 | 45 | 48 | 51 |
| F (Width across flat), mm. | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | 50 | 55 | 60 | 65 | 75 | 85 | 90 | 95 |

| Size (mm.) | Price per pcs. | | | | | | | | | |
|--------------|----------------|------|------|------|------|------|------|-------|------|------|
| | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 |
| ดำ Class 8. | 1.80 | 2.00 | 2.00 | 3.50 | 3.80 | 6.50 | 6.50 | 8.50 | 11.0 | 22.0 |
| HDG Class 8. | 2.60 | 2.70 | 2.70 | 4.80 | 5.00 | 8.60 | 8.60 | 11.50 | 15.0 | 30.0 |

| Size (mm.) | Price per pcs. | | | | | | | | | |
|--------------|----------------|------|-----------|---------|------|-----|-----|-----|-----|-----|
| | M30 | M33 | *M36x3.0* | M36x4.0 | M39 | M42 | M45 | M48 | M56 | M60 |
| ดำ Class 8. | 30.0 | 38.0 | 62.0 | 50.0 | 92.0 | 105 | 130 | 150 | 260 | 380 |
| HDG Class 8. | 40.0 | 53.0 | - | 68.0 | 122 | 140 | 175 | 210 | 360 | 530 |

HEXAGON UNC NUT CLASS 8 [BLACK, HDG]

หัวน็อต UNC เกรด 8.8 [ชุดดำ, ชุดกัลกนาไนซ์]

| | | | | |
|--|--|--|-----------------|--------------|
|  |  | | STANDARD | ANSI B18.2.2 |
| | | | MATERIAL | 8.8 |
| | | | COATING | BLACK, HDG |
| | | | CODE | BKM8 |

| | | | | | | | | | |
|----------------------------|------|------|-------|-------|--------|-------|---------|-------|-------|
| Size (Diameter), inch. | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/8 | 1.1/4 | 1.1/2 |
| p (pitch), mm. | 16 | 13 | 11 | 10 | 9 | 8 | 7 | 7 | 6 |
| H (Head Thickness), mm. | 8.3 | 11.1 | 13.9 | 16.3 | 19 | 21.8 | 24.6 | 27 | 32.5 |
| F (Width across flat), mm. | 9/16 | 3/4 | 15/16 | 1.1/8 | 1.5/16 | 1.1/2 | 1.11/16 | 1.7/8 | 2.1/4 |

| Size (inch.) | Price per pcs. | | | | | | | | | |
|--------------|----------------|-----|-----|-----|------|------|-------|-------|-------|--|
| | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/8 | 1.1/4 | 1.1/2 | |
| ดำ Class 8. | 2.0 | 2.5 | 4.0 | 6.5 | 10.0 | 13.0 | 28.0 | 34.0 | 52.0 | |
| HDG Class 8. | 2.7 | 3.2 | 5.3 | 8.5 | 14.0 | 17.0 | 39.0 | 45.0 | 65.0 | |

PLAIN WASHER [mm.]

แหวนเหล็ก [มิล] ชุบขาว - ไม่ชุบ

| | | | |
|--|--|-----------------|-------------------|
| | | STANDARD | DIN 125-A |
| | | MATERIAL | STEEL |
| | | COATING | WHITE ZINC, BLACK |
| | | CODE | BFP, BFW |

| Size, I.D. (mm.) | ขอบนอก O.D. (mm) | หนา H (mm) | Pcs./Box จำนวนกล่องละ | ราคาต่อตัว | | ราคาต่อกิโล | |
|---------------------|---------------------|---------------|--------------------------|------------|--------|-------------|--------|
| | | | | ไม่ชุบ | ชุบขาว | ไม่ชุบ | ชุบขาว |
| 3 | 8 | 0.8 | 5,000 | - | 0.11 | - | 132.00 |
| 4 | 10 | 0.8 - 0.9 | 3,000 | - | 0.11 | - | 95.00 |
| 5 | 12 | 0.8 - 0.9 | 2,000 | 0.10 | 0.11 | - | 86.00 |
| 6 | 13 | 1.0 | 2,000 | 0.11 | 0.12 | 70.00 | 81.00 |
| 6 | 14 | 1.0 | 2,000 | 0.11 | 0.12 | 70.00 | 81.00 |
| 6 | 16 | 1.0 | 2,000 | 0.15 | 0.16 | 70.00 | 80.00 |
| 8 | 16 | 1.2 | 2,000 | 0.18 | 0.20 | 65.00 | 76.00 |
| 8 | 18 | 1.2 | 2,000 | 0.18 | 0.20 | 58.00 | 69.00 |
| 10 | 18 | 1.6 | 2,000 | 0.20 | 0.22 | 65.00 | 76.00 |
| 10 | 22 | 1.6 | 1,000 | 0.30 | 0.33 | 55.00 | 65.00 |
| 12 | 24 | 2.0 | 500 | 0.50 | 0.55 | 50.00 | 60.00 |
| 14 | 28 | 2.0 - 2.2 | 500 | 0.60 | 0.65 | 49.00 | 59.00 |
| 16 | 30 - 32 | 2.2 - 2.5 | 500 | 0.77 | 0.85 | 48.00 | 58.00 |
| 18 | 34 - 36 | 3.0 - 3.2 | 200 | 1.10 | 1.20 | 48.00 | 58.00 |
| 20 | 38 - 40 | 3.0 - 3.2 | 200 | 1.20 | 1.30 | 48.00 | 58.00 |
| 22 | 39 - 44 | 3.0 - 3.2 | 200 | 1.30 | 1.40 | 48.00 | 58.00 |
| 24 | 45 | 3.0 - 3.2 | 200 | 1.40 | 0.50 | 48.00 | 58.00 |
| 27 | 48 | 4.0 | - | 6.00 | - | - | - |
| 30 | 56 | 4.0 | - | 7.00 | - | - | - |
| 33 | 60 | 5.0 | - | 12.00 | - | - | - |
| 36 | 66 | 5.0 | - | 13.00 | - | - | - |
| 42 | 78 | 7.0 | - | 23.00 | - | - | - |
| 45 | 84 | 7.0 | - | 28.00 | - | - | - |
| 48 | 89 | 8.0 | - | 36.00 | - | - | - |

PLAIN WASHER [inch.]

แหวนเหล็ก [หนุ่] ชุบขาว - ไม่ชุบ

| | | | |
|--|--|-----------------|-------------------|
| | | STANDARD | DIN 125-A |
| | | MATERIAL | STEEL |
| | | COATING | WHITE ZINC, BLACK |
| | | CODE | BFP, BFW |

| Size, I.D. (inch.) | ขอบนอก O.D. (mm) | หนา H (mm) | แบบไม่ชุบ ราคาต่อกิโล | | ชุบขาว ราคาต่อกิโล | |
|-----------------------|---------------------|---------------|-----------------------|---------------------|--------------------|---------------------|
| | | | ปลีก | ราคา 50 กิโล ขึ้นไป | ปลีก | ราคา 50 กิโล ขึ้นไป |
| 1/4 | - | 1.6 | 39.00 | 35.00 | 46.00 | 41.00 |
| 5/16 | - | 1.6 | 39.00 | 35.00 | 46.00 | 41.00 |
| 3/8 | 28 | 2.3 | 33.00 | 27.00 | 39.00 | 33.00 |
| 1/2 | 32 | 2.3 | 33.00 | 27.00 | 39.00 | 33.00 |
| 5/8 | 40 | 2.5 | 33.00 | 27.00 | 39.00 | 33.00 |
| 3/4 | 46 | 2.5 | 33.00 | 27.00 | 39.00 | 33.00 |
| 7/8 | 53 | 2.5 | 33.00 | 27.00 | 39.00 | 33.00 |
| 1 | 56 | 2.5 | 34.00 | 28.00 | 40.00 | 34.00 |
| 1.1/8 | 63 | 2.5 | 40.00 | 34.00 | 45.00 | 39.00 |
| 1.1/4 | 67 | 2.5 | 40.00 | 34.00 | 45.00 | 39.00 |
| 1.1/2 | 76 | 2.5 | 40.00 | 34.00 | 45.00 | 39.00 |
| 1.3/4 | 90 | 3.2 | 40.00 | 34.00 | 45.00 | 39.00 |
| 2 | 96 | 3.2 | 40.00 | 34.00 | 45.00 | 39.00 |

SPRING WASHER [#1]

แหวนสปริงดำ - ชุบขาว [เบอร์ 1]

| | | | | STANDARD | DIN 127B | | |
|------------|-------|---------------------|---------------|--------------------------|---------------------------|-----------|----------|
| | | | | MATERIAL | SPRING STEEL | | |
| | | | | COATING | WHITE ZINC, BLACK | | |
| | | | | CODE | BSP1, BSZ1 | | |
| Size, I.D. | | ขอบนอก O.D. (mm) | หนา S (mm) | Pcs./Box จำนวนกล่องละ | Price./Box ราคากล่องละ | ราคาตัวละ | |
| (inch.) | (mm.) | | | | | สปริงดำ | สปริงขาว |
| 1/8 | M3 | 5.8 | 0.9 | 30,000 | 1,550.00 | - | 0.10 |
| 5/32 | M4 | 7.0 | 1.0 | 15,000 | 900.00 | - | 0.10 |
| 3/16 | M5 | 9.0 | 1.3 | 8,000 | 580.00 | - | 0.11 |
| 1/4 | M6 | 12.0 | 1.8 | 4,000 | 245.00 | 0.10 | 0.12 |
| 5/16 | M8 | 14.5 | 2.0 | 2,500 | 210.00 | 0.12 | 0.13 |
| 3/8 | M10 | 18.0 | 2.2 | 1,500 | 190.00 | 0.20 | 0.22 |
| 7/16 | M11 | 19.0 | 2.6 | 1,000 | 180.00 | 0.30 | 0.33 |
| 1/2 | M12 | 21.8 | 2.6 | 700 | 180.00 | 0.40 | 0.44 |
| 9/16 | M14 | 23.8 | 3.0 | 500 | 175.00 | 0.55 | 0.60 |
| 5/8 | M16 | 26.5 | 3.4 | 350 | 175.00 | 0.72 | 0.80 |
| | M18 | 30.0 | 3.8 | 250 | 175.00 | 1.25 | 1.50 |
| 3/4 | M20 | 32.0 | 4.0 | 200 | 175.00 | 1.25 | 1.50 |
| 7/8 | M22 | 36.0 | 4.5 | 150 | 185.00 | 1.80 | 2.00 |
| 1 | M24 | 40.0 | 5.1 | 100 | 180.00 | 2.70 | 3.00 |

SPRING WASHER [#2]

แหวนสปริงดำ - ชุบขาว - สีทอง [เบอร์ 2]

| | | | | | STANDARD | DIN 127B | |
|------------|-------|---------------------|---------------|--------------------------|---------------------------|----------------------|--|
| | | | | | MATERIAL | SPRING STEEL | |
| | | | | | COATING | BLACK, WHITE, YELLOW | |
| | | | | | CODE | BSP2, BSZ2 | |
| Size, I.D. | | ขอบนอก O.D. (mm) | หนา S (mm) | Pcs./Box จำนวนกล่องละ | Price./Box ราคากล่องละ | ราคาตัวละ | |
| (inch.) | (mm.) | | | | | | |
| 1/4 | M6 | 12.0 | 2.0 | 3,000 | 340.00 | 0.61 | |
| 5/16 | M8 | 14.5 | 2.0 | 2,000 | 350.00 | 0.26 | |
| 3/8 | M10 | 18.0 | 2.9 | 1,000 | 275.00 | 0.40 | |
| 7/16 | M11 | 19.0 | 2.9 | 700 | 290.00 | 0.60 | |
| 1/2 | M12 | 21.8 | 3.0 | 600 | 255.00 | 0.60 | |
| 9/16 | M14 | 23.8 | 3.6 | 400 | 270.00 | 1.00 | |
| 5/8 | M16 | 26.5 | 4.2 | 300 | 290.00 | 1.40 | |
| | M18 | 30.0 | 5.1 | 200 | 260.00 | 1.90 | |
| 3/4 | M20 | 32.0 | 5.5 | 150 | 280.00 | 2.65 | |
| 7/8 | M22 | 36.0 | 6.0 | 120 | 270.00 | 3.20 | |
| | M24 | 40.0 | 6.3 | 100 | 290.00 | 4.00 | |
| 1 | M25 | 40.0 | 6.3 | 80 | 265.00 | 4.60 | |
| 1.1/8 | M27 | 45.5 | 6.8 | 50 | 270.00 | 7.00 | |
| 1.1/4 | M30 | 49.5 | 6.8 | 50 | 280.00 | 7.50 | |
| 1.1/2 | M36 | 57.3 | 7.0 | 30 | 350.00 | 16.00 | |
| 1.5/8 | M42 | - | - | 20 | 750.00 | 48.00 | |
| 1.3/4 | M45 | 69.4 | 10.0 | 20 | 765.00 | 52.00 | |
| 2 | M50 | 75.6 | 10.0 | 15 | 800.00 | 72.00 | |

HEX NUTS STAINLESS STEEL [SUS304, SUS316]

หัวน๊อต สแตนเลส 304, 316


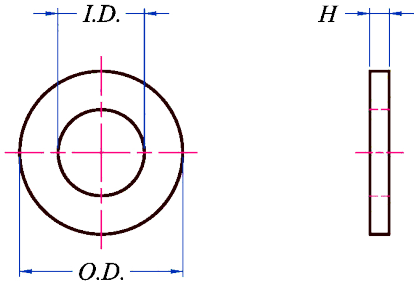
| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----------------|------|--------------------------|-------------------|------|------------------|------------------|------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|-----|-----|-------|-------|-------|-----|-----|-----|
| | STANDARD | | DIN 934, ASME | | | | | | | | | | | | | | | | | | | | |
| | MATERIAL | | STAINLESS STEEL 304, 316 | | | | | | | | | | | | | | | | | | | | |
| | COATING | | | | | | | | | | | | | | | | | | | | | | |
| | CODE | | DNU, DNT | | | | | | | | | | | | | | | | | | | | |
| Size (Diameter) | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M39 | M42 | M45 | M48 | M52 | M56 |
| <i>p</i> (pitch) | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 | 4.0 | 4.5 | 4.5 | 5.0 | 5.0 | 5.5 |
| <i>H</i> (Head Thickness) | 2.4 | 3.2 | 4.5 | 5 | 6.5 | 8 | 10 | 11 | 13 | 15 | 16 | 18 | 19 | 22 | 24 | 26 | 29 | 31 | 34 | 36 | 38 | 42 | 45 |
| <i>F</i> (Width across flat) | 5.5 | 7 | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
| Size (Diameter) (inch) | 1/8 | 3/16 | 1/4 | 1/4 _{NF} | 5/16 | 3/8 _w | 3/8 _c | 7/16 | 1/2 _w | 1/2 _c | 1/2 _{NF} | 5/8 _w | 5/8 _c | 3/4 _w | 3/4 _c | 7/8 | 1 | 1.1/8 | 1.1/4 | 1.1/2 | | | |
| <i>p</i> (Threads per inch) | | 40 | 24 | 20 | 28 | 18 | 16 | 16 | 14 | 12 | 13 | 20 | 11 | 11 | 10 | 10 | 9 | 8 | 7 | 7 | 6 | | |
| <i>H</i> (Head Thickness) (mm.) | 2.4 | 3.6 | 5.0 | 5.0 | 6.0 | 8.0 | 8.3 | 9.0 | 10 | 11 | 11 | 13 | 13.9 | 16 | 16.3 | 18 | 20 | 22 | 25 | 32.5 | | | |
| <i>F</i> (Width across flat) (mm.) | 5.5 | 10 | 11 | 11 | 14 | 17 | 14.3 | 19 | 21 | 19 | 19 | 26 | 24 | 32 | 27 | 36 | 41 | 42 | 46 | 56 | | | |

| Size | SUS304 | SUS316 |
|------|----------|----------|
| M2 | 0.65 | |
| M2.5 | 0.80 | |
| M3 | 0.75 | 2.00 |
| M4 | 0.95 | 2.00 |
| M5 | 0.95 | 2.00 |
| M6 | 1.15 | 2.40 |
| M8 | 2.80 | 5.00 |
| M10 | 5.30 | 19.00 |
| M12 | 7.60 | 15.00 |
| M14 | 16.00 | 28.00 |
| M16 | 18.00 | 31.00 |
| M18 | 35.00 | 58.00 |
| M20 | 31.00 | 56.00 |
| M22 | 55.00 | 95.00 |
| M24 | 70.00 | 125.00 |
| M27 | 210.00 | 360.00 |
| M30 | 230.00 | 380.00 |
| M33 | 330.00 | 460.00 |
| M36 | 360.00 | 600.00 |
| M39 | 600.00 | 950.00 |
| M42 | 740.00 | 1,200.00 |
| M45 | 920.00 | 1,400.00 |
| M48 | 1,120.00 | 1,700.00 |
| M52 | 1,450.00 | |
| M56 | 1,800.00 | |

| Size | SUS304 | SUS316 |
|---------|----------|--------|
| 1/8 | 1.40 | - |
| 5/32 | 1.40 | - |
| 3/16BSW | 0.95 | 2.00 |
| 1/4BSW | 1.15 | 2.40 |
| 5/16BSW | 3.20 | 5.00 |
| 3/8BSW | 5.20 | - |
| 3/8NC | 5.20 | 9.00 |
| 7/16NC | 7.20 | - |
| 1/2BSW | 10.30 | - |
| 1/2NC | 10.30 | 16.00 |
| 5/8BSW | 22.00 | - |
| 5/8NC | 19.00 | 31.00 |
| 3/4BSW | 38.00 | - |
| 3/4NC | 34.00 | 58.00 |
| 7/8NC | 60.00 | 95.00 |
| 1"NC | 80.00 | 125.00 |
| 1.1/8 | 220.00 | 360.00 |
| 1.1/4 | 240.00 | 460.00 |
| 1.3/8 | 380.00 | - |
| 1.1/2 | 380.00 | 600 |
| 2" | 1,200.00 | - |

PLAIN WASHERS STAINLESS STEEL

แหวนอีแปะ สแตนเลส 304, 316

| | |
|-----------------|-------------|
| STANDARD | |
| MATERIAL | SUS304, 316 |
| COATING | |
| CODE | DFW, DFT |

| Size | SUS304 | SUS316 |
|------|--------|--------|
| M2 | 0.35 | |
| M2.5 | 0.35 | |
| M3 | 0.30 | 1.20 |
| M4 | 0.35 | 1.20 |
| M5 | 0.45 | 1.20 |
| M6 | 0.50 | 1.80 |
| M8 | 1.10 | 2.00 |
| M10 | 2.00 | 4.00 |
| M12 | 3.80 | 6.00 |
| M14 | 5.50 | 9.00 |
| M16 | 5.50 | 10.00 |
| M18 | 7.50 | 14.00 |


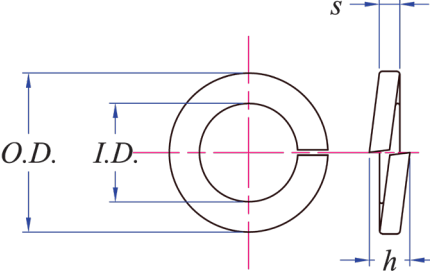
| Size | SUS304 | SUS316 |
|------|--------|--------|
| M20 | 7.50 | 14.00 |
| M22 | 14.00 | 24.00 |
| M24 | 17.00 | 28.00 |
| M27 | 56.00 | 90.00 |
| M30 | 60.00 | 100.00 |
| M33 | 75.00 | 120.00 |
| M36 | 75.00 | 130.00 |
| M39 | 90.00 | 150.00 |
| M42 | 90.00 | 160.00 |
| M45 | 100.00 | 180.00 |
| M48 | 120.00 | 200.00 |
| M52 | 120.00 | - |

| Size | SUS304 | SUS316 |
|------|--------|--------|
| 3/32 | 0.35 | - |
| 1/8 | 0.30 | 1.20 |
| 5/32 | 0.35 | 1.20 |
| 3/16 | 0.45 | 1.20 |
| 1/4 | 0.50 | 1.80 |
| 5/16 | 1.10 | 2.00 |
| 3/8 | 2.00 | 4.00 |
| 7/16 | 3.80 | - |
| 1/2 | 3.80 | 10.00 |

| Size | SUS304 | SUS316 |
|-------|--------|--------|
| 5/8 | 5.50 | 14.00 |
| 3/4 | 7.50 | 24.00 |
| 7/8 | 14.00 | 28.00 |
| 1" | 17.00 | 90.00 |
| 1.1/8 | 56.00 | 120.00 |
| 1.1/4 | 60.00 | 95.00 |
| 1.3/8 | 75.00 | - |
| 1.1/2 | 75.00 | 130.00 |

SPRING WASHERS STAINLESS STEEL

แหวนสปริง สแตนเลส 304, 316

| | |
|-----------------|-------------|
| STANDARD | |
| MATERIAL | SUS304, 316 |
| COATING | |
| CODE | DSW, DST |

| Size | SUS304 | SUS316 |
|------|--------|--------|
| M2 | 0.60 | - |
| M2.5 | 0.60 | - |
| M3 | 0.45 | 1.00 |
| M4 | 0.50 | 1.00 |
| M5 | 0.60 | 1.20 |
| M6 | 0.60 | 1.80 |
| M8 | 1.10 | 2.50 |
| M10 | 1.80 | 3.50 |
| M12 | 3.60 | 5.00 |
| M14 | 6.00 | 7.50 |
| M16 | 6.00 | 9.60 |
| M18 | 9.50 | 14.00 |

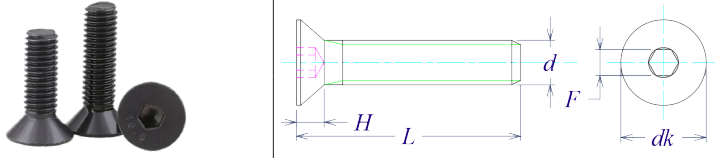
| Size | SUS304 | SUS316 |
|------|--------|--------|
| M20 | 9.50 | 14.00 |
| M22 | 17.00 | 27.00 |
| M24 | 20.00 | 28.00 |
| M27 | 85.00 | 95.00 |
| M30 | 100.00 | 110.00 |
| M33 | 110.00 | 130.00 |
| M36 | 110.00 | 14.00 |
| M39 | - | 150.00 |
| M42 | - | 160.00 |
| M45 | - | 180.00 |
| M48 | - | 200.00 |

| Size | SUS304 | SUS316 |
|------|--------|--------|
| 3/32 | 0.60 | - |
| 1/8 | 0.45 | 1.00 |
| 5/32 | 0.50 | 1.00 |
| 3/16 | 0.60 | 1.20 |
| 1/4 | 0.60 | 1.80 |
| 5/16 | 1.10 | 2.50 |
| 3/8 | 1.80 | 3.50 |
| 7/16 | 3.60 | - |
| 1/2 | 3.60 | 5.00 |

| Size | SUS304 | SUS316 |
|-------|--------|--------|
| 5/8 | 6.00 | 9.60 |
| 3/4 | 9.50 | 14.00 |
| 7/8 | 17.00 | 27.00 |
| 1" | 20.00 | 28.00 |
| 1.1/8 | 85.00 | 95.00 |
| 1.1/4 | 100.00 | 130.00 |
| 1.3/8 | 110.00 | - |
| 1.1/2 | 110.00 | 14.00 |

HEXAGON SOCKET COUNTERSUNK HEAD SCREWS Gr. 10.9, 12.9

สกรูหัวจมเตเปอร์ดำ เกลียวมิล-หุ่น เกรด 10.9-12.9

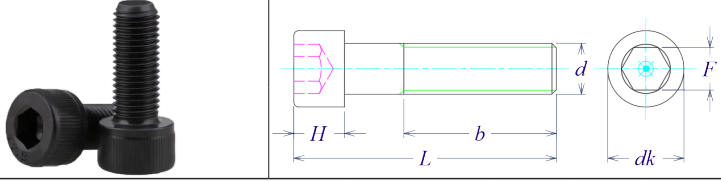
| | | | | | | | | | | | | | | |
|---|-----------------|-----------|------------|-----------|-----------|------------|------------|------------|------------|--------------|-------------|--------------|-------------|---------------|
|  | STANDARD | | DIN 7991 | | | | | | | | | | | |
| | MATERIAL | | 10.9, 12.9 | | | | | | | | | | | |
| | COATING | | BLACK | | | | | | | | | | | |
| | CODE | | AMSF, ACSF | | | | | | | | | | | |
| Size (Diameter) | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" c |
| <i>p</i> (mm, Threads per inch) | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | 24 | 20 | 18 | 16 | 13 |
| <i>dk</i> (Width Head) (mm.) (inch) | 6 | 8 | 10 | 12 | 16 | 20 | 24 | 30 | 36 | | 13.4 | 16.6 | 19.8 | 23.8 |
| <i>H</i> (Head Thickness) (mm.) | 1.7 | 2.3 | 2.8 | 3.3 | 4.4 | 5.5 | 6.5 | 7.5 | 8.5 | | 4.1 | 5 | 5.9 | 7.8 |
| <i>F</i> (Hex Key) (mm.) | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 1/8 | 5/32 | 3/16 | 7/32 | 5/16 |

| <i>L</i> (Length), mm. | Size | | | | | | | | | | | | | | | | | |
|------------------------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|------------|-----|------------|-----|------------|----|------------|----|
| | M3 | | M4 | | M5 | | M6 | | M8 | | M10 | | M12 | | M16 | | M20 | |
| 6 | 0.80 | 500 | 0.92 | 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | 0.80 | 500 | 0.92 | 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | 0.80 | 500 | 0.92 | 200 | 1.02 | 200 | 1.45 | 200 | - | - | - | - | - | - | - | - | - | - |
| 12 | 0.80 | 500 | 0.92 | 200 | 1.02 | 200 | 1.45 | 200 | - | - | - | - | - | - | - | - | - | - |
| 15 | 0.92 | 500 | 1.02 | 200 | 1.12 | 200 | 1.70 | 200 | 2.90 | 100 | 4.00 | 100 | - | - | - | - | - | - |
| 20 | 1.20 | 500 | 1.25 | 200 | 1.35 | 200 | 2.00 | 200 | 3.20 | 100 | 4.00 | 100 | 7.00 | 100 | - | - | - | - |
| 25 | 1.40 | 500 | 1.40 | 200 | 1.45 | 200 | 2.30 | 200 | 3.45 | 100 | 4.50 | 100 | 7.00 | 100 | 20.00 | 50 | - | - |
| 30 | 1.67 | 500 | 1.70 | 200 | 1.90 | 200 | 2.60 | 200 | 3.75 | 100 | 4.70 | 100 | 8.50 | 100 | 21.00 | 50 | 92.00 | 25 |
| 35 | - | - | 2.00 | 200 | 2.25 | 200 | 2.90 | 200 | 4.00 | 100 | 5.30 | 100 | 9.25 | 100 | 23.00 | 50 | 95.00 | 25 |
| 40 | - | - | 2.20 | 200 | 2.75 | 200 | 3.50 | 200 | 4.50 | 100 | 6.00 | 100 | 9.75 | 100 | 25.00 | 50 | 99.00 | 25 |
| 45 | - | - | 2.50 | 200 | 3.50 | 200 | 4.00 | 200 | 4.75 | 100 | 6.25 | 100 | 10.50 | 100 | 26.50 | 50 | 99.00 | 25 |
| 50 | - | - | 2.70 | 200 | 4.00 | 200 | 4.50 | 200 | 5.20 | 100 | 6.50 | 100 | 10.75 | 100 | 27.50 | 50 | 99.00 | 25 |
| 55 | - | - | - | - | 4.50 | 200 | 5.50 | 200 | 6.00 | 100 | 8.00 | 100 | 12.50 | 50 | 30.00 | 50 | 106.00 | 25 |
| 60 | - | - | - | - | 5.00 | 200 | 5.50 | 200 | 6.00 | 100 | 8.00 | 100 | 12.50 | 50 | 30.00 | 25 | 106.00 | 25 |
| 65 | - | - | - | - | - | - | 6.00 | 200 | 8.50 | 100 | 9.50 | 100 | 13.50 | 50 | 32.00 | 25 | 112.00 | 25 |
| 70 | - | - | - | - | - | - | 7.00 | 200 | 9.00 | 100 | 9.75 | 100 | 15.50 | 50 | 35.00 | 25 | 118.00 | 25 |
| 75 | - | - | - | - | - | - | 8.00 | 200 | 9.50 | 100 | 10.50 | 50 | 18.00 | 50 | 38.00 | 25 | 125.00 | 25 |
| 80 | - | - | - | - | - | - | 9.00 | 200 | 10.00 | 100 | 11.00 | 50 | 20.00 | 50 | 40.00 | 25 | 130.00 | 25 |
| 90 | - | - | - | - | - | - | - | - | 15.00 | 100 | 16.00 | 50 | 26.00 | 50 | 57.00 | 25 | 140.00 | 25 |
| 100 | - | - | - | - | - | - | - | - | 18.00 | 100 | 18.50 | 50 | 30.00 | 50 | 68.00 | 25 | 150.00 | 25 |
| 110 | - | - | - | - | - | - | - | - | - | - | - | - | 45.00 | - | 80.00 | - | 160.00 | - |
| 120 | - | - | - | - | - | - | - | - | - | - | - | - | 55.00 | - | 90.00 | - | 170.00 | - |
| 130 | - | - | - | - | - | - | - | - | - | - | - | - | 65.00 | - | 100.00 | - | 180.00 | - |
| 140 | - | - | - | - | - | - | - | - | - | - | - | - | 75.00 | - | 110.00 | - | 190.00 | - |
| 150 | - | - | - | - | - | - | - | - | - | - | - | - | 85.00 | - | 120.00 | - | 200.00 | - |

| <i>L</i> (Length), inch. | Size | | | | | | | | | | | | | |
|--------------------------|-------------------|-----|------------|-----|-------------|-----|------------|-----|-----------------|-----|------------|----|------------|----|
| | 3/16 (#10) | | 1/4 | | 5/16 | | 3/8 | | 1/2 - 13 | | 5/8 | | 3/4 | |
| 3/8 | 1.75 | 200 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1/2 | 1.75 | 200 | 2.25 | 200 | 3.50 | 100 | - | - | - | - | - | - | - | - |
| 5/8 | 2.25 | 200 | 2.50 | 200 | 3.50 | 100 | - | - | - | - | - | - | - | - |
| 3/4 | 2.50 | 200 | 2.75 | 200 | 3.50 | 100 | 4.50 | 100 | - | - | - | - | - | - |
| 1 | 2.75 | 200 | 3.25 | 200 | 4.00 | 100 | 5.00 | 100 | 13.00 | 100 | - | - | - | - |
| 1.1/4 | 3.00 | 200 | 3.50 | 200 | 4.50 | 100 | 5.50 | 100 | 15.00 | 100 | - | - | - | - |
| 1.1/2 | 3.50 | 200 | 4.00 | 200 | 5.00 | 100 | 6.00 | 100 | 17.00 | 100 | 25.00 | 50 | - | - |
| 2 | - | - | 4.50 | 200 | 5.50 | 100 | 6.50 | 100 | 18.00 | 50 | 28.00 | 50 | 95.00 | 25 |
| 2.1/2 | - | - | - | - | - | - | - | - | 22.00 | 50 | 30.00 | 25 | 105.00 | 25 |
| 3 | - | - | - | - | - | - | - | - | 26.00 | 50 | 35.00 | 25 | 115.00 | 25 |
| 3.1/2 | - | - | - | - | - | - | - | - | - | - | 50.00 | 25 | 130.00 | 25 |
| 4 | - | - | - | - | - | - | - | - | - | - | 60.00 | 25 | 140.00 | 25 |

HEXAGON SOCKET HEAD CAP SCREWS Gr. 12.9

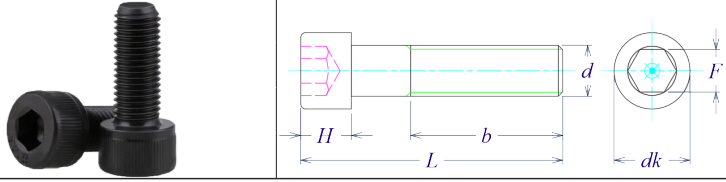
สกรูหัวจมด้า เกลียวหุน BSW เกรด 12.9

| | | | | | | | | | | | | | |
|---|-----------------|------|------------|-------|-------|------|------|-------|------|-----|-----|-------|-------|
|  | STANDARD | | ANSI B18.3 | | | | | | | | | | |
| | MATERIAL | | 12.9 | | | | | | | | | | |
| | COATING | | BLACK | | | | | | | | | | |
| | CODE | | ASCW | | | | | | | | | | |
| Size (Diameter) | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2w | 1/2c | 5/8 | 3/4 | 7/8 | 1 | 1.1/4 | 1.1/2 |
| <i>p</i> (Threads per inch) | 24 | 20 | 18 | 16 | 14 | 12 | 13 | 11 | 10 | 9 | 8 | 7 | 6 |
| <i>dk</i> (Width Head) (mm.) | 7.9 | 9.5 | 11.7 | 14.2 | 16.5 | 19 | 19 | 23.6 | 28.3 | 33 | 38 | 47 | 57 |
| <i>H</i> (Head Thickness) (inch.) | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/4 | 1.1/2 |
| <i>F</i> (Hex Key) (inch.) | 5/32 | 3/16 | 1/4 | 5/16 | 3/8 | 3/8 | 3/8 | 1/2 | 5/8 | 3/4 | 3/4 | 7/8 | 1 |
| <i>b</i> (Thread) (mm.) | | 25.4 | 28.45 | 31.75 | 35.05 | 38.1 | 38.1 | 44.45 | 50.8 | | | | |

| <i>L</i> (Length), inch | Size, inch | | | | | | | | | | | | |
|-------------------------|------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2w | 1/2c | 5/8 | 3/4 | 7/8 | 1 | 1.1/4 | 1.1/2 |
| 3/8 | 1.25 | 1.25 | 3.00 | - | - | - | - | - | - | - | - | - | - |
| 1/2 | 1.28 | 1.25 | 2.05 | - | - | - | - | - | - | - | - | - | - |
| 5/8 | 1.35 | 1.40 | 2.15 | 3.40 | - | - | - | - | - | - | - | - | - |
| 3/4 | 1.40 | 1.50 | 2.30 | 3.70 | - | 9.50 | - | - | - | - | - | - | - |
| 1 | 1.60 | 1.75 | 2.55 | 4.20 | 7.70 | 9.25 | 10.00 | 16.25 | - | - | - | - | - |
| 1.1/4 | 2.15 | 2.10 | 2.85 | 4.75 | 8.00 | 10.25 | 11.00 | 17.10 | - | - | - | - | - |
| 1.1/2 | 2.85 | 2.40 | 3.30 | 5.55 | 8.40 | 11.75 | 12.50 | 18.50 | 33.00 | - | - | - | - |
| 1.3/4 | 3.20 | 2.85 | 3.70 | 5.90 | 9.05 | 12.50 | 13.25 | 20.50 | 36.00 | - | - | - | - |
| 2 | 3.50 | 3.25 | 4.40 | 6.65 | 10.20 | 13.50 | 14.25 | 22.00 | 38.00 | 83.00 | 127.00 | - | - |
| 2.1/2 | - | 4.30 | 5.25 | 8.20 | 13.00 | 16.75 | 17.75 | 27.00 | 44.00 | 96.00 | 133.00 | - | - |
| 3 | - | 5.00 | 6.55 | 9.60 | 14.50 | 19.60 | 20.75 | 30.00 | 51.00 | 104.00 | 144.00 | 298.00 | 539.00 |
| 3.1/2 | - | 9.25 | 9.25 | 11.75 | 16.00 | 22.10 | 23.25 | 35.00 | 57.00 | 120.00 | 163.00 | 336.00 | 592.00 |
| 4 | - | 10.50 | 11.40 | 12.80 | 17.50 | 24.60 | 25.75 | 39.25 | 64.00 | 127.00 | 179.00 | 351.00 | 637.00 |
| 4.1/2 | - | - | 13.90 | 15.00 | 19.00 | 27.80 | 29.25 | 42.75 | 70.00 | 133.00 | 203.00 | 395.00 | 679.00 |
| 5 | - | - | 15.00 | 17.50 | 20.50 | 30.60 | 32.00 | 51.30 | 77.00 | 150.00 | 216.00 | 395.00 | 730.00 |
| 6 | - | - | 24.25 | 22.80 | 32.00 | 35.60 | 37.00 | 65.00 | 88.00 | 171.00 | 246.00 | 448.00 | 805.00 |
| 7 | - | - | - | - | - | 71.00 | 71.00 | 104.00 | 139.00 | 193.00 | 258.00 | 524.00 | 903.00 |
| 8 | - | - | - | - | - | 82.00 | 82.00 | 119.00 | 157.00 | 225.00 | 284.00 | 560.00 | 1,002.- |
| 9 | - | - | - | - | - | 98.00 | 98.00 | 129.00 | 172.00 | 246.00 | 343.00 | 613.00 | 1,079.- |
| 10 | - | - | - | - | - | 104.00 | 104.00 | 144.00 | 193.00 | 277.00 | 389.00 | 673.00 | 1,214.- |
| 11 | - | - | - | - | - | 124.00 | 140.00 | 157.00 | 229.00 | 336.00 | 448.00 | 733.00 | 1,303.- |
| 12 | - | - | - | - | - | 144.00 | 170.00 | 183.00 | 275.00 | 395.00 | 493.00 | 808.00 | 1,414.- |

HEXAGON SOCKET HEAD CAP SCREWS Gr. 12.9

สกรูหัวจมต่า เกลียวมิล เกรต 12.9

| | | | | | | | | | | | |
|---|-----------|-------------|-----------|-----------|-----------|-----------|-----------------|------------|------------|------------|------------|
|  | | | | | | | STANDARD | | DIN 912 | | |
| | | | | | | | MATERIAL | | 12.9 | | |
| | | | | | | | COATING | | BLACK | | |
| | | | | | | | CODE | | ASCD | | |
| Size (Diameter) | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |
| <i>p</i> (mm.) | 0.4 | 0.45 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 |
| <i>dk</i> (Width Head) (mm.) | 3.8 | 4.5 | 5.5 | 7 | 8.5 | 10 | 13 | 16 | 18 | 21 | 24 |
| <i>H</i> (Head Thickness) (mm.) | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 |
| <i>F</i> (Hex Key) (mm.) | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 |
| <i>b</i> (Thread) (mm.) | 16 | 17 | 18 | 20 | 22 | 24 | 28 | 32 | 36 | 40 | 44 |

| <i>L</i> (Length), mm. | Size | | | | | | | | | | |
|------------------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|
| | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |
| 4 | 2.50 | 2.75 | - | - | - | - | - | - | - | - | - |
| 5 | 2.50 | 2.75 | - | - | - | - | - | - | - | - | - |
| 6 | 2.50 | 2.75 | 1.05 | 1.15 | 1.25 | - | - | - | - | - | - |
| 8 | 2.50 | 2.75 | 1.05 | 1.15 | 1.25 | 1.45 | - | - | - | - | - |
| 10 | 2.65 | 3.00 | 1.05 | 1.15 | 1.25 | 1.35 | 2.70 | - | - | - | - |
| 12 | 2.65 | 3.00 | 1.15 | 1.20 | 1.25 | 1.45 | 2.70 | - | - | - | - |
| 15 | 3.00 | 3.75 | 1.20 | 1.20 | 1.30 | 1.45 | 2.70 | 5.00 | - | - | - |
| 20 | 3.75 | 4.50 | 1.30 | 1.30 | 1.45 | 1.60 | 2.60 | 4.60 | 7.90 | - | - |
| 25 | 4.00 | 5.25 | 1.45 | 1.45 | 1.60 | 1.70 | 2.80 | 5.15 | 7.50 | 16.00 | 17.50 |
| 30 | - | - | 1.70 | 1.70 | 1.70 | 2.00 | 3.35 | 5.70 | 8.25 | 16.00 | 17.50 |
| 35 | - | - | 1.85 | 1.85 | 1.85 | 2.35 | 3.70 | 6.20 | 9.00 | 16.40 | 18.25 |
| 40 | - | - | 2.65 | 2.65 | 2.65 | 2.70 | 4.15 | 6.70 | 9.75 | 16.5 | 19.60 |
| 45 | - | - | 3.20 | 3.20 | 3.20 | 3.20 | 4.60 | 7.50 | 10.75 | 17.85 | 21.00 |
| 50 | - | - | 4.00 | 4.00 | 4.00 | 3.60 | 5.00 | 8.40 | 11.75 | 19.60 | 22.80 |
| 55 | - | - | - | 4.00 | 4.25 | 4.00 | 5.30 | 9.00 | 12.50 | 20.75 | 23.50 |
| 60 | - | - | - | 4.25 | 4.50 | 4.50 | 5.70 | 9.55 | 13.65 | 21.10 | 26.50 |
| 65 | - | - | - | 5.00 | 5.50 | 5.50 | 6.15 | 10.00 | 14.25 | 22.80 | 27.80 |
| 70 | - | - | - | 5.50 | 6.00 | 6.00 | 6.50 | 10.75 | 14.70 | 24.25 | 30.00 |
| 75 | - | - | - | 7.00 | 8.00 | 6.50 | 6.85 | 11.15 | 16.70 | 25.75 | 31.35 |
| 80 | - | - | - | 8.00 | 9.00 | 7.00 | 7.50 | 11.90 | 17.15 | 27.00 | 33.00 |
| 90 | - | - | - | 15.00 | 15.25 | 9.00 | 11.00 | 13.90 | 19.60 | 28.50 | 36.50 |
| 100 | - | - | - | 18.00 | 19.00 | 11.00 | 11.40 | 15.00 | 21.50 | 30.00 | 39.25 |
| 110 | - | - | - | 22.00 | 22.00 | 22.00 | 15.70 | 22.80 | 24.25 | 38.50 | 42.75 |
| 120 | - | - | - | - | 24.00 | 25.00 | 18.50 | 24.50 | 26.50 | 41.50 | 46.50 |
| 125 | - | - | - | - | - | - | 21.00 | 25.65 | 33.00 | 44.25 | 55.00 |
| 130 | - | - | - | - | 30.00 | - | 22.80 | 27.00 | 34.25 | 44.25 | 56.00 |
| 140 | - | - | - | - | 35.00 | - | 24.25 | 28.50 | 37.00 | 49.50 | 61.00 |
| 150 | - | - | - | - | 40.00 | - | 25.70 | 30.00 | 40.00 | 50.00 | 70.00 |
| 155 | - | - | - | - | - | - | - | 44.00 | - | - | - |
| 160 | - | - | - | - | - | 46.00 | 35.00 | 44.00 | 59.00 | 65.00 | 97.00 |
| 170 | - | - | - | - | 45.00 | - | 56.00 | 62.00 | 63.00 | 72.00 | 105.00 |
| 175 | - | - | - | - | 49.00 | - | - | - | - | - | - |
| 180 | - | - | - | - | - | 50.00 | 56.00 | 68.00 | 69.00 | 81.00 | 112.00 |
| 190 | - | - | - | - | - | 53.00 | 68.00 | 73.00 | 76.00 | 91.00 | 120.00 |
| 200 | - | - | - | - | - | 56.00 | 68.00 | 75.00 | 82.00 | 98.00 | 127.00 |

HEXAGON SOCKET HEAD CAP SCREWS Gr. 12.9


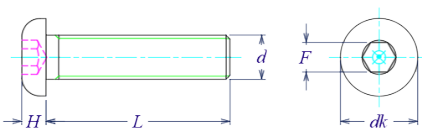
สกรูหัวจมด้า เกลียวมิล เกรด 12.9

| | | | | | | | | | | | | |
|---------------------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | STANDARD | | DIN 912 | | | | | | | | | |
| | MATERIAL | | 12.9 | | | | | | | | | |
| | COATING | | BLACK | | | | | | | | | |
| | CODE | | ASCD | | | | | | | | | |
| Size (Diameter) | M12 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M42 | M48 |
| <i>p</i> (mm.) | 1.75 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 | 4.5 | 5.0 |
| <i>dk</i> (Width Head) (mm.) | 18 | 24 | 27 | 30 | 33 | 36 | 40 | 45 | 50 | 54 | 63 | 72 |
| <i>H</i> (Head Thickness) (mm.) | 12 | 16 | 18 | 20 | 22 | 24 | 27 | 30 | 33 | 36 | 42 | 48 |
| <i>F</i> (Hex Key) (mm.) | 10 | 14 | 14 | 17 | 17 | 19 | 19 | 22 | 24 | 27 | 32 | 36 |
| <i>b</i> (Thread) (mm.) | 36 | 44 | 48 | 52 | 56 | 60 | 66 | 72 | 78 | 84 | 96 | 108 |

| <i>L</i> (Length), mm. | Size | | | | | | | | | | | |
|---------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | M10 | M12 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M42 |
| 40 | - | - | - | 42.00 | 42.00 | - | - | - | - | - | - | - |
| 45 | - | - | - | 45.00 | 45.00 | - | - | - | - | - | - | - |
| 50 | - | - | - | 47.00 | 47.00 | 72.00 | 86.00 | 203.00 | 229.00 | - | - | - |
| 55 | - | - | - | 48.00 | 48.00 | 76.00 | 92.00 | 209.00 | - | - | - | - |
| 60 | - | - | - | 50.00 | 50.00 | 80.00 | 97.00 | 216.00 | 238.00 | - | - | - |
| 65 | - | - | - | 52.00 | 52.00 | 86.00 | 100.00 | 229.00 | - | - | - | - |
| 70 | - | - | - | 53.50 | 53.50 | 88.50 | 104.00 | 229.00 | 262.00 | - | - | - |
| 75 | - | - | - | 56.00 | 56.00 | 95.00 | 112.00 | 242.00 | 273.00 | - | - | - |
| 80 | - | - | - | 60.00 | 60.00 | 97.00 | 116.00 | 242.00 | 268.00 | 475.00 | 432.00 | - |
| 90 | - | - | - | 78.00 | 78.00 | 107.00 | 125.00 | 255.00 | 281.00 | 518.00 | 471.00 | - |
| 100 | - | - | - | 88.00 | 88.00 | 112.00 | 133.00 | 268.00 | 305.00 | 568.00 | 517.00 | 780.00 |
| 110 | - | - | - | 96.00 | 96.00 | 120.00 | 144.00 | 288.00 | 314.00 | 580.00 | 530.00 | 800.00 |
| 120 | - | - | - | 105.00 | 105.00 | 128.00 | 157.00 | 301.00 | 340.00 | 633.00 | 576.00 | 865.00 |
| 125 | - | - | - | - | 112.00 | 135.00 | 163.00 | 312.00 | 362.00 | 650.00 | 585.00 | 880.00 |
| 130 | - | - | - | 114.00 | 114.00 | 137.00 | 164.00 | 314.00 | 360.00 | 655.00 | 596.00 | 895.00 |
| 140 | - | - | - | 122.00 | 122.00 | 144.00 | 179.00 | 353.00 | 373.00 | 690.00 | 628.00 | 942.00 |
| 150 | - | - | - | 128.00 | 128.00 | 150.00 | 186.00 | 366.00 | 389.00 | 734.00 | 668.00 | 1,000.- |
| 160 | - | - | - | 157.00 | 157.00 | 183.00 | 193.00 | 386.00 | 403.00 | 770.00 | 700.00 | 1,050.- |
| 170 | - | - | - | 172.00 | 172.00 | 199.00 | 209.00 | 412.00 | 419.00 | 800.00 | 727.00 | 1,090.- |
| 180 | - | - | - | 179.00 | 179.00 | 212.00 | 224.00 | 438.00 | 445.00 | 834.00 | 759.00 | 1,130.- |
| 190 | - | - | - | 193.00 | 193.00 | 225.00 | 238.00 | 452.00 | 471.00 | 878.00 | 799.00 | 1,195.- |
| 200 | - | - | - | 202.00 | 202.00 | 238.00 | 252.00 | 458.00 | 484.00 | 914.00 | 831.00 | 1,246.- |
| 210 | 115.00 | 125.00 | 144.00 | - | 222.00 | 305.00 | 312.00 | 1,090.- | 552.00 | 962.00 | 858.00 | 1,281.- |
| 220 | 115.00 | 125.00 | 161.00 | - | 230.00 | 330.00 | 347.00 | 1,090.- | 598.00 | 994.00 | 890.00 | 1,335.- |
| 230 | 115.00 | 150.00 | 179.00 | 250.00 | 260.00 | 346.00 | 364.00 | 1,090.- | 624.00 | 1,040.- | 923.00 | 1,384.- |
| 240 | 115.00 | 150.00 | 193.00 | - | 286.00 | 377.00 | 377.00 | 1,090.- | 700.00 | 1,050.- | 949.00 | 1,423.- |
| 250 | 115.00 | 150.00 | 224.00 | 312.00 | 312.00 | 386.00 | 399.00 | 1,090.- | 715.00 | 1,080.- | 968.00 | 1,452.- |
| 260-270 | 120.00 | 150.00 | 242.00 | - | 330.00 | 416.00 | 468.00 | 1,090.- | 728.00 | 1,090.- | 981.00 | 1,472.- |
| 280 | 120.00 | 150.00 | 242.00 | 360.00 | 340.00 | 438.00 | 484.00 | 1,090.- | 780.00 | 1,130.- | 1,014.- | 1,521.- |
| 300 | 120.00 | 150.00 | 262.00 | 390.00 | 366.00 | 471.00 | 524.00 | 1,090.- | 838.00 | 1,170.- | 1,050.- | 1,575.- |
| 310-400 | - | - | 340.00 | 572.00 | 572.00 | 800.00 | 715.00 | 1,090.- | 1,400.- | 1,600.- | 1,690.- | 2,535.- |

HEXAGON SOCKET ROUND HEAD CAP SCREWS Gr. 12.9

สกรูหัวจมกลมดำ เกลียวมิล - รุ่น เกรด 12.9

| | | | | | | | | | | | | |
|---|---|-----------|-----------------|-----------|-----------|------------|------------|-------------------|------------|-------------|------------|--|
|  |  | | STANDARD | | ISO 7380 | | | | | | | |
| | | | MATERIAL | | 12.9 | | | | | | | |
| | | | COATING | | BLACK | | | | | | | |
| | | | CODE | | ASB | | | | | | | |
| Size (Diameter) | M3 | M4 | M5 | M6 | M8 | M10 | M12 | 3/16 (#10) | 1/4 | 5/16 | 3/8 | |
| <i>p</i> (mm, Threads per inch) | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 1.5 | 1.75 | 24 | 20 | 18 | 16 | |
| <i>dk</i> (Width Head) (mm.) | 5.7 | 7.6 | 9.5 | 10.5 | 14 | 17.5 | 21 | 9 | 11 | 13.6 | 16.4 | |
| <i>H</i> (Head Thickness) (mm.) | 1.65 | 2.2 | 2.75 | 3.3 | 4.4 | 5.5 | 6.6 | 2.4 | 3.2 | 4 | 4.9 | |
| <i>F</i> (Hex Key) (mm.)(inch) | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 1/8 | 5/32 | 3/16 | 7/32 | |
| L (Length), mm. | SIZE | | | | | | | | | | | |
| | M3 | M4 | M5 | M6 | M8 | M10 | M12 | | | | | |
| 6 | 1.50 | 1.50 | 1.50 | - | - | - | - | | | | | |
| 8 | 1.50 | 1.50 | 1.50 | 2.00 | - | - | - | | | | | |
| 10 | 1.50 | 1.50 | 1.50 | 1.50 | 3.00 | - | - | | | | | |
| 12 | 1.50 | 1.50 | 1.50 | 2.00 | 3.00 | 5.00 | - | | | | | |
| 16 | 1.50 | 1.50 | 1.50 | 2.50 | 4.00 | 5.00 | - | | | | | |
| 20 | 2.00 | 2.00 | 2.00 | 3.00 | 5.00 | 6.00 | - | | | | | |
| 25 | 3.00 | 3.00 | 2.50 | 4.00 | 6.00 | 7.00 | 9.00 | | | | | |
| 30 | - | 4.00 | 3.50 | 5.00 | 7.00 | 8.00 | 10.00 | | | | | |
| 35 | - | - | 4.50 | 6.00 | 8.00 | 9.00 | 12.00 | | | | | |
| 40 | - | - | 5.50 | 7.00 | 9.00 | 10.00 | 14.00 | | | | | |
| 45 | - | - | 6.50 | 8.00 | 10.00 | 11.00 | - | | | | | |
| 50 | - | - | 7.50 | 8.00 | 10.00 | 12.00 | 16.00 | | | | | |
| 60 | - | - | - | 12.00 | 15.00 | 18.00 | 25.00 | | | | | |

| | | | | |
|--------------------------|-------------------|------------|-------------|------------|
| L (Length), inch. | SIZE | | | |
| | 3/16 (#10) | 1/4 | 5/16 | 3/8 |
| 1/4 | 2.00 | - | - | - |
| 3/8 | 2.00 | - | - | - |
| 1/2 | 2.25 | 2.75 | 4.50 | - |
| 5/8 | 2.75 | 3.00 | 4.50 | - |
| 3/4 | 3.00 | 3.25 | 4.50 | 6.00 |
| 1 | 3.25 | 3.75 | 5.00 | 6.50 |
| 1.1/4 | - | 4.50 | 6.00 | 7.00 |
| 1.1/2 | - | 5.00 | 7.00 | 8.00 |
| 2 | - | - | - | 9.00 |

CROSS PAN / FLAT / TRUSS HEAD MACHINE SCREWS

สกรูมีลแฉก ขลุบยาว/ขลุบดำ JP(กลมมน) JF(เตปเปอร์) JT(กระตะ)

| | | | | | | | | | | | | | | |
|---------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|
| | STANDARD | | | | | | | | | | | | JIS B1111 | |
| | MATERIAL | | | | | | | | | | | | STEEL SWRCH6R | |
| | COATING | | | | | | | | | | | | WHITE ZINC, BLACK | |
| | CODE | | | | | | | | | | | | AWJP, AWJF, AWJT | |
| <i>d</i> Size (Diameter) | M3 JP | M4 JP | M5 JP | M6 JP | M8 JP | M3 JF | M4 JF | M5 JF | M6 JF | M8 JF | M3 JT | M4 JT | M5 JT | M6 JT |
| <i>p</i> (mm.) | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 0.5 | 0.7 | 0.8 | 1.0 | 1.25 | 0.5 | 0.7 | 0.8 | 1.0 |
| <i>dk</i> (Width Head) (mm.) | 5.5 | 7.8 | 9.5 | 11.5 | 15.5 | 6 | 9 | 10 | 12 | 16 | 6.5 | 9.4 | 11.8 | 14 |
| <i>k</i> (Head Thickness) (mm.) | 2.3 | 2.92 | 3.52 | 4.3 | 5.7 | 1.65 | 2.3 | 2.7 | 3.3 | 4.5 | 2 | 2.5 | 3.1 | 3.7 |

| <i>L</i> (Length), mm. | Size | | | | | | | | | | | | | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|--|--|--|--|
| | M3 | | M4 | | M5 | | M6 | | M8 | | | | | |
| 6 | 0.102 | 4,000 | 0.124 | 2,000 | - | - | 0.281 | - | - | - | | | | |
| 8 | 0.102 | 4,000 | 0.128 | 2,000 | 0.214 | 2,000 | 0.310 | - | - | - | | | | |
| 10 | 0.111 | 2,000 | 0.140 | 1,000 | 0.224 | 1,000 | 0.324 | - | - | - | | | | |
| 12 | 0.111 | 2,000 | 0.150 | 1,000 | 0.250 | 1,000 | 0.350 | 1,000 | - | - | | | | |
| 15 | 0.120 | 2,000 | 0.173 | 1,000 | 0.282 | 1,000 | 0.392 | 500 | 0.762 | 400 | | | | |
| 18 | 0.133 | 2,000 | 0.198 | 1,000 | 0.319 | 1,000 | 0.443 | 500 | 0.831 | 400 | | | | |
| 20 | 0.141 | 1,000 | 0.218 | 1,000 | 0.335 | 500 | 0.457 | 500 | 0.925 | 400 | | | | |
| 25 | 0.165 | 1,000 | 0.254 | 1,000 | 0.399 | 500 | 0.533 | 500 | 1.054 | 300 | | | | |
| 30 | 0.227 | 1,000 | 0.294 | 500 | 0.458 | 500 | 0.616 | 500 | 1.126 | 300 | | | | |
| 35 | 0.273 | 1,000 | 0.333 | 500 | 0.505 | 500 | 0.690 | 500 | 1.296 | 200 | | | | |
| 40 | 0.340 | 1,000 | 0.374 | 500 | 0.568 | 500 | 0.765 | 500 | 1.451 | 200 | | | | |
| 45 | 0.385 | 1,000 | 0.412 | 500 | 0.645 | 500 | 0.813 | 200 | 1.632 | 200 | | | | |
| 50 | 0.425 | 1,000 | 0.452 | 500 | 0.687 | 500 | 0.902 | 200 | 1.744 | 200 | | | | |
| 55 | - | - | 0.575 | 600 | 0.805 | 500 | 1.081 | 400 | - | - | | | | |
| 60 | - | - | 0.644 | 600 | 0.897 | 500 | 1.150 | 400 | - | - | | | | |
| 65 | - | - | 0.725 | 600 | 0.966 | 500 | 1.265 | 300 | - | - | | | | |
| 70 | - | - | 0.805 | 600 | 1.035 | 500 | 1.323 | 300 | - | - | | | | |
| 75 | - | - | 0.886 | 600 | 1.081 | 500 | 1.380 | 300 | - | - | | | | |
| 80 | - | - | 1.058 | 600 | 1.265 | 500 | 1.610 | 300 | - | - | | | | |
| 90 | - | - | 1.277 | 600 | 1.518 | 400 | 1.990 | 300 | - | - | | | | |
| 100 | - | - | 1.518 | 500 | 1.875 | 400 | 2.438 | 300 | - | - | | | | |

| Assembly Item | CODE | M3 | | M4 | | M5 | | M6 | | M8 <small>1.25 x 12</small> | |
|---------------|------|------|--------|------|--------|------|-------|------|-------|--------------------------------|-------|
| หัวน๊อตมีลขาว | BBH | 0.11 | 5,000 | 0.14 | 2,000 | 0.20 | 2,000 | 0.25 | 1,000 | 0.40 | 1,000 |
| แหวนอีแปะขาว | BFW | 0.11 | 5,000 | 0.11 | 3,000 | 0.11 | 2,000 | 0.12 | 2,000 | 0.20 | 2,000 |
| แหวนสปริงขาว | BSZ1 | 0.10 | 10,000 | 0.10 | 15,000 | 0.11 | 8,000 | 0.12 | 4,000 | 0.13 | 2,500 |

SELF DRILLING SCREWS JF+, JP+

สกรูปลายสว่าน ชูบรู้ง JF+(เตปอริ), JP+(กลมหนู)

| | | | | | | |
|------------------------------|--------------|--------------|-----------------|---------------|--------------|---------------|
| | | | STANDARD | DIN7981, 7982 | | |
| | | | MATERIAL | STEEL | | |
| | | | COATING | YELLOW ZINC | | |
| | | | CODE | ADDF, ADDP | | |
| <i>d</i> Size (Diameter) | #6 JF | #8 JF | #10 JF | #6 JP | #8 JP | #10 JP |
| <i>p</i> (mm.) | 1.3 | 1.4 | 1.6 | 1.3 | 1.4 | 1.6 |
| <i>dk</i> (Width Head) (mm.) | 6.8 | 8.1 | 9.5 | 6.9 | 8.2 | 9.5 |
| <i>m</i> (mm.) | 4.2 | 4.7 | 5.1 | 4.2 | 4.6 | 5.0 |

| <i>L</i> (Length), Inch. | Size | | | | | |
|--------------------------|--------------|-------|--------------|-------|---------------|-------|
| | #6 (3.6 mm.) | | #8 (4.2 mm.) | | #10 (4.8 mm.) | |
| 3/8 | 0.30 | 1,000 | 0.35 | 1,000 | - | |
| 1/2 | 0.30 | 1,000 | 0.35 | 1,000 | 0.40 | 1,000 |
| 5/8 | 0.32 | 1,000 | 0.38 | 1,000 | 0.40 | 1,000 |
| 3/4 | 0.35 | 1,000 | 0.40 | 1,000 | 0.45 | 1,000 |
| 1 | 0.38 | 1,000 | 0.45 | 1,000 | 0.55 | 1,000 |
| 1.1/4 | 0.40 | 1,000 | 0.55 | 1,000 | 0.65 | 1,000 |
| 1.1/2 | - | - | 0.60 | 1,000 | 0.80 | 500 |
| 2 | - | - | 0.90 | 500 | 1.00 | 500 |
| 2.1/2 | - | - | 1.50 | 500 | 2.00 | 500 |
| 3 | - | - | 2.00 | 500 | 2.50 | 500 |
| 3.1/2 | - | - | 2.25 | 500 | 2.75 | 500 |
| 4 | - | - | 2.50 | 500 | 3.00 | 500 |

SELF DRILLING SCREWS, HEXAGON HEAD WITH COLLAR

สกรูหัวเหลี่ยมปลายสว่าน ชูบรู้ง

| | | | | | | |
|--|--|--|-----------------|-------------|--|--|
| | | | STANDARD | DIN7504 | | |
| | | | MATERIAL | STEEL | | |
| | | | COATING | YELLOW ZINC | | |
| | | | CODE | ADDX | | |

| | | | | |
|-----|----------------|------------------|-----------------|--------------|
| #10 | <i>d</i> = 4.8 | <i>dc</i> = 10.5 | <i>k</i> = 4.45 | <i>s</i> = 8 |
| #12 | <i>d</i> = 5.5 | <i>dc</i> = 11.0 | <i>k</i> = 5.45 | <i>s</i> = 8 |
| #14 | <i>d</i> = 6.3 | <i>dc</i> = 13.2 | <i>k</i> = 6.45 | <i>s</i> = 8 |

| <i>L</i> (Length), Inch. | Size | | | | | <i>L</i> (Length), Inch. | Size (หัวใหญ่) | | | | |
|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|-------------------|-------------------|-------|-------|-------|
| | #10x16G (4.8 mm.) | #10x24G (4.8 mm.) | #12x14G (5.5 mm.) | #12x24G (5.5 mm.) | #14x14G (6.3 mm.) | | #10x16G (4.8 mm.) | #10x24G (4.8 mm.) | | | |
| 5/8 (16mm.) | 0.60 | 1,000 | 0.60 | 1,000 | - | 5/8 (16mm.) | 0.78 | 1,000 | 0.78 | 1,000 | |
| 3/4 (20mm.) | 0.70 | 1,000 | 0.70 | 1,000 | 1.40 | 500 | 3/4 (20mm.) | 0.91 | 1,000 | 0.91 | 1,000 |
| 1 (25mm.) | 0.80 | 1,000 | 0.80 | 1,000 | 1.60 | 500 | 1 (25mm.) | 1.04 | 1,000 | 1.04 | 1,000 |
| 1.1/4 (35mm.) | 0.90 | 500 | 0.90 | 500 | 1.80 | 500 | 1.1/4 (35mm.) | 1.17 | 500 | 1.17 | 500 |
| 1.1/2 (40mm.) | 1.00 | 500 | 1.00 | 500 | 1.90 | 250 | 1.1/2 (40mm.) | 1.30 | 500 | 1.30 | 500 |
| 1.3/4 (45mm.) | - | - | - | - | 2.00 | 250 | 1.3/4 (45mm.) | - | - | - | - |
| 2 (50mm.) | 1.20 | 500 | 1.20 | 500 | 2.10 | 250 | 2 (50mm.) | 1.56 | 500 | 1.56 | 500 |
| 2.1/4 (55mm.) | 1.30 | 500 | 1.30 | 500 | 2.20 | 250 | 2.1/4 (55mm.) | - | - | - | - |
| 2.1/2 (65mm.) | 1.50 | 250 | 1.50 | 250 | 2.40 | 250 | 2.1/2 (65mm.) | 1.95 | 250 | 1.95 | 250 |
| 3 (75mm.) | 2.00 | 250 | 2.00 | 250 | 2.60 | 250 | 3 (75mm.) | 2.25 | 250 | 2.25 | 250 |
| 3.1/2 (90mm.) | 2.50 | 250 | 2.50 | 250 | 3.00 | 250 | 3.1/2 (90mm.) | 2.75 | 250 | 2.75 | 250 |
| 3.3/4 (95mm.) | 2.75 | 250 | 2.75 | 250 | - | - | 3.3/4 (95mm.) | 3.00 | 250 | 3.00 | 250 |
| 4 (100mm.) | 3.00 | 250 | 3.00 | 250 | 3.50 | 250 | 4 (100mm.) | 3.25 | 250 | 3.25 | 250 |

SELF DRILLING COUNTERSUNK HEAD WHIT WING TEK

สกรูหัวปลายสว่านหัวเตเปอร์ มีปีก ขุบขาว

| | | |
|--------------|-------------------|------------------------------|
| | STANDARD | DIN7504P (7982) |
| | MATERIAL | STEEL |
| | COATING | +CR3 |
| | CODE | AZWF(มีปีก), AZFN (ไม่มีปีก) |
| d (Diameter) | #7 (3.9) #8 (4.2) | |
| dk | 7.5 8.1 | |
| m | 4.6 4.7 | |

| d (Size)-p x L | #7-19Gx1" (27 mm.) | #7-19Gx1.1/4" (32 mm.) | #7-19Gx1.1/2" | | #8-18Gx1.1/4" (32 mm.) |
|----------------|--------------------|------------------------|---------------|------------|------------------------|
| | | | (38 mm.) | (45 mm.) | |
| Unit Price | 0.48 1,000 | 0.54 1,000 | 0.80 1,000 | 0.83 1,000 | 0.58 1,000 |

SELF DRILLING WAFER HEAD SCREWS

สกรูหัวปลายสว่านหัวเวเฟอร์ ขุบขาว

| | | | | |
|------------|-----------------|-------------|-------------|-------------|
| | STANDARD | | | |
| | MATERIAL | STEEL | | |
| | COATING | WHITE ZINC | | |
| | CODE | ADW | | |
| Size | #10x16x16mm | #10x16x22mm | #10x24x16mm | #10x24x22mm |
| Unit Price | 0.45 1,000 | 0.55 1,000 | 0.45 1,000 | 0.55 1,000 |

DRYWALL SCREWS

เกลียวปล้องยิบขั้มนต์ หัวเตเปอร์ JF+

| | | | | | |
|-----------|-----------------|----------------|------------------|----------------|--------------|
| | STANDARD | | | | |
| | MATERIAL | STEEL | | | |
| | COATING | BLACK | | | |
| | CODE | AKY | | | |
| Size | #6x3/4" | #6x1" | #6x1.1/4" | #6x1.1/2" | #6x2" |
| Price/Box | 72.00 850 หนีบ | 72.00 850 หนีบ | 180.00 1,000 pcs | 0.55 1,000 pcs | 0.55 500 pcs |

CROSS PAN / FLAT / TRUSS HEAD CUT-THREAD FLAT-END SCREWS

สกรูมีสแฉกปลายตัดผ่าร่อง ขุบรุ่ง/ขุดำ JP(กลมทูน) JF(เตเปอร์) JT(กระตะ)

| | | |
|--|-----------------|--------------------|
| | STANDARD | |
| | MATERIAL | STEEL |
| | COATING | YEELOW ZINC, BLACK |
| | CODE | AYPT, AYPP, AYPF |

| L (Length), mm. | Size | | | |
|-----------------|-------|-------|-------|-------|
| | M3 | M3.5 | M4 | M5 |
| 6 | 0.152 | 0.190 | 0.246 | - |
| 8 | 0.160 | 0.190 | 0.246 | 0.370 |
| 10 | 0.170 | 0.204 | 0.270 | 0.400 |
| 12 | 0.180 | 0.216 | 0.290 | 0.430 |
| 14 | 0.196 | 0.224 | 0.310 | 0.460 |
| 16 | 0.220 | 0.240 | 0.330 | 0.520 |
| 18 | 0.230 | 0.250 | 0.360 | 0.560 |
| 20 | 0.250 | 0.304 | 0.390 | 0.600 |
| 22 | 0.280 | 0.340 | 0.440 | 0.680 |
| 24 | 0.300 | 0.380 | 0.500 | 0.790 |
| 26 | 0.330 | 0.420 | 0.560 | 0.830 |
| 28 | - | 0.460 | 0.640 | 0.900 |
| 30 | - | 0.520 | 0.700 | 1.000 |

CEOSS PAN/FLAT HEAD TAPPING SCREWS (JF+, JP+)

เกลียวเหล็ก ขุดนึ้เกลส/ขุดนึ้ดำ JF+(เตปอจึ), JP+(ถลนูน)

| | | | | | | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|--------|--------|--------|-----------------|----------------------|-------|-------|--------|--------|--------|
| | | | | | | | | STANDARD | | | | | | |
| | | | | | | | | MATERIAL | STEEL | | | | | |
| | | | | | | | | COATING | NICKLE PLATED, BLACK | | | | | |
| | | | | | | | | CODE | ANKP, ANKF | | | | | |
| Size | #4 JP | #6 JP | #7 JP | #8 JP | #10 JP | #12 JP | #14 JP | #4 JF | #6 JF | #7 JF | #8 JF | #10 JF | #12 JF | #14 JF |
| <i>d</i> (Diameter)(mm.) | 2.9 | 3.5 | 3.9 | 4.2 | 4.8 | 5.5 | 6.3 | 2.9 | 3.5 | 3.9 | 4.2 | 4.8 | 5.5 | 6.3 |
| <i>p</i> (mm.) | 1.1 | 1.3 | 1.3 | 1.4 | 1.6 | 1.8 | 1.8 | 1.1 | 1.3 | 1.3 | 1.4 | 1.6 | 1.8 | 1.8 |
| <i>dk</i> (Width Head) (mm.) | 5.6 | 6.9 | 7.5 | 8.2 | 9.5 | 10.8 | 12.5 | 5.5 | 6.8 | 7.5 | 8.1 | 9.5 | 10.8 | 12.4 |
| <i>k</i> (mm.) | 2.2 | 2.6 | 2.8 | 3.05 | 3.55 | 3.95 | 4.55 | 1.7 | 2.1 | 2.3 | 2.5 | 3 | 3.4 | 3.8 |
| <i>m</i> (mm.) | 3 | 4.2 | 4.4 | 4.6 | 5 | 6.5 | 7.1 | 3 | 4.2 | 4.6 | 4.7 | 5.1 | 6.8 | 7.1 |

| <i>L</i> (Length), Inch. | Size | | | | | | | |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | #2 | #4 | #6 | #7 | #8 | #10 | #12 | #14 |
| 1/4 | 0.085 | 0.088 | 0.121 | - | - | - | - | - |
| 5/16 | 0.088 | 0.090 | 0.121 | - | - | - | - | - |
| 3/8 | 0.091 | 0.092 | 0.125 | 0.145 | 0.172 | 0.254 | - | - |
| 1/2 | - | 0.101 | 0.131 | 0.152 | 0.185 | 0.279 | 0.380 | 0.520 |
| 5/8 | - | 0.115 | 0.139 | 0.175 | 0.203 | 0.307 | 0.430 | 0.550 |
| 3/4 | - | 0.127 | 0.158 | 0.198 | 0.230 | 0.343 | 0.475 | 0.610 |
| 1 | - | 0.152 | 0.198 | 0.246 | 0.280 | 0.410 | 0.570 | 0.730 |
| 1.1/4 | - | 0.182 | 0.245 | 0.295 | 0.340 | 0.495 | 0.680 | 0.880 |
| 1.1/2 | - | 0.222 | 0.283 | 0.345 | 0.391 | 0.570 | 0.780 | 1.010 |
| 2 | - | - | 0.368 | 0.450 | 0.500 | 0.730 | 0.980 | 1.260 |
| 2.1/2 | - | - | - | - | 0.745 | 0.976 | 1.300 | 1.800 |
| 3 | - | - | - | - | 0.864 | 1.147 | 1.530 | 2.100 |

CEOSS TRUSS HEAD TAPPING SCREWS (JT+)

เกลียวเหล็ก ขุดนึ้จึ้/ขุดนึ้ดำ JT+(หัวกะทะ)

| | | | | | | |
|-------------------------------|-----|------|------|-----------------|--------------------|--|
| | | | | STANDARD | | |
| | | | | MATERIAL | STEEL | |
| | | | | COATING | YELLOW ZINC, BLACK | |
| | | | | CODE | AYTF | |
| Size <i>d</i> (Diameter)(mm.) | #7 | #8 | #10 | | | |
| <i>dk</i> (Width Head) (mm.) | 9.4 | 10.6 | 11.8 | | | |
| <i>k</i> (mm.) | 2.5 | 2.8 | 3.1 | | | |
| <i>m</i> (mm.) | 4.3 | 4.7 | 5.0 | | | |

| <i>L</i> (Length), Inch. | Size | | |
|--------------------------|-------|-------|-------|
| | #7 | #8 | #10 |
| 3/8 | 0.145 | 0.172 | 0.254 |
| 1/2 | 0.152 | 0.185 | 0.279 |
| 5/8 | 0.175 | 0.203 | 0.307 |
| 3/4 | 0.198 | 0.230 | 0.343 |
| 1 | 0.246 | 0.280 | 0.410 |

SELF DRILLING SCREWS, HEXAGON DOUBLE THREAD

สกรูปลายสว่าน หัวเหลี่ยมเกลียว 2 ย่าง ชุบร้อน/ชุบขาว

| | | |
|--|-----------------|-------------------------|
| | STANDARD | |
| | MATERIAL | STEEL |
| | COATING | YELLOW ZINC, WHITE ZINC |
| | CODE | AYDX |

| | |
|-------------------------------|--------------------|
| Size <i>d</i> (Diameter)(mm.) | #14(6.3), #12(5.5) |
| <i>dc</i> (Width Head) (mm.) | 14.5 |
| <i>L1</i> (mm.) | 8 |
| <i>k</i> (mm.) | 4 |
| <i>s</i> (mm.) | 8 |

| Size | L (Length), mm. | | | |
|-----------|-----------------|------|------|------|
| | 45 | 50 | 55 | 65 |
| #14 - #12 | 2.40 | 2.50 | 2.60 | 2.70 |

HEX FLANGE HEAD SELF DRILLING SCREWS

สกรูปลายสว่าน หัวตาโกเท

| | | |
|--|-----------------|-------------------------|
| | STANDARD | |
| | MATERIAL | STEEL |
| | COATING | YELLOW ZINC, WHITE ZINC |
| | CODE | AYDX |

| | | |
|-------------------------------|----------|----------|
| Size <i>d</i> (Diameter)(mm.) | #12(5.5) | #10(4.8) |
| <i>dc</i> (Width Head) (mm.) | 11 | 10.5 |
| <i>L1</i> (mm.) | 10 | 8 |
| <i>k</i> (mm.) | 5.45 | 4.45 |
| <i>s</i> (mm.) | 8 | 8 |

| Size | L (Length), mm. | | | | | | |
|---------|-----------------|------|------|------|------|------|------|
| | 20 | 25 | 35 | 40 | 45 | 50 | 55 |
| #12x24G | 1.40 | 1.60 | 1.80 | 2.00 | 2.20 | 2.40 | 2.60 |

| | |
|--------------|------|
| #10x16Gx3/4" | 0.90 |
|--------------|------|

WALL PLUGS PVC

ปลั๊ก PVC

| | | |
|--|-----------------|-------|
| | STANDARD | |
| | MATERIAL | NYLON |
| | COATING | |
| | CODE | PPVW |

| Size | สีขาว | | | | |
|----------------------|---------|---------|---------|---------|---------|
| | #5 | #6 | #7 | #8 | #10 |
| ราคา ก่อ่งละ | 6.00 | 7.00 | 9.00 | 10.00 | 10.00 |
| บรรจุ ก่อ่งละ -(ตัว) | 80 - 90 | 80 - 90 | 70 - 80 | 70 - 80 | 40 - 50 |
| ราคา กิโลละ | 130.00 | 105.00 | 105.00 | 105.00 | 105.00 |
| บรรจุ ถุงละ (Kg.) | 30 | 30 | 30 | 30 | 30 |

| Size | สีดำ | | | | |
|----------------------|---------|---------|---------|---------|-------|
| | #5 | #6 | #7 | #8 | #10 |
| ราคา ก่อ่งละ | 4.00 | 5.00 | 6.00 | 7.00 | 7.00 |
| บรรจุ ก่อ่งละ -(ตัว) | 65 - 70 | 65 - 70 | 65 - 70 | 65 - 70 | 35 |
| ราคา กิโลละ | 120.00 | 95.00 | 95.00 | 95.00 | 95.00 |
| บรรจุ ถุงละ (Kg.) | 30 | 30 | 30 | 30 | 30 |

LIFTING EYE BOLTS

อายโบลท์ (รู้ง) DIN

| | | | |
|--|--|-----------------|--------|
| | | STANDARD | DIN580 |
| | | MATERIAL | STEEL |
| | | COATING | YELLOW |
| | | CODE | AEBD |

| Size, d1 | h | L | d2 | d3 | d4 | บรรจุ | ราคา |
|------------|----|------|----|----|----|-------|--------|
| 1/4" - 20 | 36 | 13 | 20 | 36 | 20 | 100 | 20.00 |
| 5/16" - 18 | 36 | 13 | 20 | 36 | 20 | 100 | 23.00 |
| 3/8" - 16 | 45 | 17 | 25 | 45 | 25 | 50 | 29.00 |
| 1/2" - 12 | 53 | 20.5 | 30 | 54 | 30 | 25 | 34.00 |
| 5/8" - 11 | 62 | 27 | 35 | 63 | 35 | 25 | 52.00 |
| 3/4" - 10 | 71 | 30 | 40 | 72 | 40 | 25 | 80.00 |
| 1" - 8 | 90 | 36 | 50 | 90 | 50 | 10 | 190.00 |

| | | | | | | | |
|-----|----|------|----|----|----|-----|--------|
| M6 | 36 | 13 | 20 | 36 | 20 | 100 | 20.00 |
| M8 | 36 | 13 | 20 | 36 | 20 | 100 | 23.00 |
| M10 | 45 | 17 | 25 | 45 | 25 | 50 | 29.00 |
| M12 | 53 | 20.5 | 30 | 54 | 30 | 25 | 34.00 |
| M14 | 62 | 27 | 35 | 63 | 35 | 25 | 47.00 |
| M16 | 62 | 27 | 35 | 63 | 35 | 25 | 52.00 |
| M20 | 71 | 30 | 40 | 72 | 40 | 25 | 80.00 |
| M22 | 90 | 36 | 50 | 90 | 50 | 10 | 205.00 |
| M24 | 90 | 36 | 50 | 90 | 50 | 10 | 190.00 |

LIFTING EYE NUTS

อายนัท (รู้ง) DIN

| | | | |
|--|--|-----------------|--------|
| | | STANDARD | DIN582 |
| | | MATERIAL | STEEL |
| | | COATING | YELLOW |
| | | CODE | BEND |

| Size, d1 | h | L | d2 | d3 | d4 | บรรจุ | ราคา |
|------------|----|------|----|----|----|-------|--------|
| 1/4" - 20 | 36 | 13 | 20 | 36 | 20 | 100 | 23.00 |
| 5/16" - 18 | 36 | 13 | 20 | 36 | 20 | 100 | 25.00 |
| 3/8" - 16 | 45 | 17 | 25 | 45 | 25 | 50 | 32.00 |
| 1/2" - 12 | 53 | 20.5 | 30 | 54 | 30 | 25 | 42.00 |
| 5/8" - 11 | 62 | 27 | 35 | 63 | 35 | 25 | 57.00 |
| 3/4" - 10 | 71 | 30 | 40 | 72 | 40 | 25 | 92.00 |
| 1" - 8 | 90 | 36 | 50 | 90 | 50 | 10 | 210.00 |

| | | | | | | | |
|-----|----|------|----|----|----|-----|--------|
| M6 | 36 | 13 | 20 | 36 | 20 | 100 | 23.00 |
| M8 | 36 | 13 | 20 | 36 | 20 | 100 | 25.00 |
| M10 | 45 | 17 | 25 | 45 | 25 | 50 | 32.00 |
| M12 | 53 | 20.5 | 30 | 54 | 30 | 25 | 42.00 |
| M14 | 62 | 27 | 35 | 63 | 35 | 25 | 45.00 |
| M16 | 62 | 27 | 35 | 63 | 35 | 25 | 57.00 |
| M20 | 71 | 30 | 40 | 72 | 40 | 25 | 92.00 |
| M24 | 90 | 36 | 50 | 90 | 50 | 10 | 210.00 |

LIFTING EYE BOLTS

สายโบลท์ ดัวยาว (รู้ง) JIS

| | | | |
|--|--|-----------------|--------|
| | | STANDARD | JIS |
| | | MATERIAL | STEEL |
| | | COATING | YELLOW |
| | | CODE | AEBDJ |

| Size, d | | a | b | load (kg.) | L | ราคา |
|------------|-----|------|------|------------|------|--------|
| 5/16" - 18 | M8 | 32.6 | 20.0 | 80 | 50.0 | 35.00 |
| 3/8" - 16 | M10 | 41.0 | 25.0 | 150 | 50.0 | 40.00 |
| 1/2" - 12 | M12 | 50.0 | 30.0 | 220 | 50.0 | 55.00 |
| 5/8" - 11 | M16 | 60.0 | 35.0 | 450 | 50.0 | 70.00 |
| 3/4" - 10 | M20 | 72.0 | 40.0 | 630 | 50.0 | 160.00 |
| 1" - 8 | M24 | 90.0 | 50.0 | 950 | 65.0 | 300.00 |

LIFTING EYE NUTS

สายนัท ห่วงเล็ก (รู้ง) JIS

| | | | |
|--|--|-----------------|--------|
| | | STANDARD | JIS |
| | | MATERIAL | STEEL |
| | | COATING | YELLOW |
| | | CODE | AEBDJ |

| Size, d | | a | b | load (kg.) | ราคา |
|------------|-----|------|------|------------|--------|
| 5/16" - 18 | M8 | 32.6 | 20.0 | 80 | 25.00 |
| 3/8" - 16 | M10 | 41.0 | 25.0 | 150 | 32.00 |
| 1/2" - 12 | M12 | 50.0 | 30.0 | 220 | 42.00 |
| 5/8" - 11 | M16 | 60.0 | 35.0 | 450 | 57.00 |
| 3/4" - 10 | M20 | 72.0 | 40.0 | 630 | 92.00 |
| 1" - 8 | M24 | 90.0 | 50.0 | 950 | 210.00 |

HEXAGON CONNECTION NUTS

ข้อต่อสตัด

| | | | |
|--|--|-----------------|-----------------|
| | | STANDARD | |
| | | MATERIAL | STEEL |
| | | COATING | WHITE ZINC, HDG |
| | | CODE | ARC, ARD |


| Size d (Diameter) | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" | M6 | M8 | M10 | M12 | M16 | M20 |
|-------------------|------|-------|------|------|------|-----|------|-----|------|-----|-----|
| pitch (mm.) | 20 | 18 | 16 | 12 | 11 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 2.0 |
| L (mm.) | 38.5 | 44 | 44 | 44 | 53.9 | 40 | 40 | 40 | 40 | 40 | 60 |
| s (mm.) | | | | | | 10 | 13 | 17 | 19 | 24 | 30 |

| Size x pitch x L, Inch. | Unit Price | |
|-------------------------|------------|-------|
| | ชุบขาว | HDG |
| 1/4 x 20 x 1.1/2 | 9.00 | - |
| 5/16 x 18 x 1.3/4 | 10.00 | - |
| 3/8 x 16 x 1.3/4 | 12.00 | 14.00 |
| 1/2 x 12 x 1.3/4 | 13.00 | 23.00 |
| 1/2 x 13 x 1.3/4 | 15.00 | 25.00 |
| 5/8 x 11 x 2.1/8 | 22.00 | 35.00 |
| 3/4 x 10 x 2.1/4 | 50.00 | 70.00 |
| 3/4 x 10 x 2.3/4 | 50.00 | 70.00 |

| Size x pitch x L, mm. | Unit Price | |
|-----------------------|------------|--------|
| | ชุบขาว | HDG |
| M6 x 1.0 x 40 | 9.00 | - |
| M8 x 1.25 x 40 | 10.00 | - |
| M10 x 1.5 x 40 | 12.00 | 17.00 |
| M12 x 1.75 x 40 | 16.00 | 24.00 |
| M16 x 2.0 x 40 | 22.00 | 33.00 |
| M20 x 2.5 x 60 | 40.00 | 58.00 |
| M24 x 3.0 x 80 | 90.00 | 135.00 |

THREAD ROD

สตั๊ดเกลียวตลอด (หุน)

| | | |
|--|-----------------|-------------|
|  | STANDARD | DIN975 |
| | MATERIAL | STEEL SS400 |
| | COATING | ZINC, PLAIN |
| | CODE | ATZ, ATP |

| Size | Pitch | ชุบซิงค์ | | | | ไม่ชุบ | | | |
|-------|-------|----------|---------|---------|---------|--------|---------|---------|---------|
| | | 1 m | 1.5 m | 2 m | 3 m | 1 m | 1.5 m | 2 m | 3 m |
| 1/4 | 20 | 17.00 | 27.00 | 50.00 | 80.00 | 16.00 | 25.00 | 47.00 | 77.00 |
| 5/16 | 18 | 25.00 | 39.00 | 73.00 | - | 24.00 | 38.00 | 71.00 | - |
| 3/8 | 16 | 31.00 | 50.00 | 100.00 | 150.00 | 30.00 | 49.00 | 97.00 | 146.00 |
| 7/16 | 14 | 60.00 | - | - | - | 59.00 | - | - | - |
| 1/2 | 12 | 58.00 | 94.00 | 150.00 | 250.00 | 57.00 | 92.00 | 148.00 | 247.00 |
| 5/8 | 11 | 99.00 | 156.00 | 240.00 | 400.00 | 98.00 | 154.00 | 238.00 | 397.00 |
| 3/4 | 10 | 145.00 | 230.00 | 350.00 | 580.00 | 143.00 | 227.00 | 347.00 | 576.00 |
| 7/8 | 9 | 200.00 | 310.00 | 500.00 | 780.00 | 197.00 | 307.00 | 496.00 | 775.00 |
| 1" | 8 | 258.00 | 420.00 | 650.00 | 1,060.- | 255.00 | 417.00 | 645.00 | 1,050.- |
| 1.1/8 | 7 | 390.00 | 610.00 | 970.00 | 1,550.- | 387.00 | 605.00 | 965.00 | 1,540.- |
| 1.1/4 | 7 | 500.00 | 760.00 | 1,170.- | 1,950.- | 496.00 | 755.00 | 1,164.- | 1,940.- |
| 1.1/2 | 6 | 700.00 | 1,070.- | 1,630.- | 2,550.- | 695.00 | 1,065.- | 1,620.- | 2,540.- |

THREAD ROD

สตั๊ดเกลียวตลอด (มิล)

| | | |
|--|-----------------|-------------|
|  | STANDARD | DIN975 |
| | MATERIAL | STEEL SS400 |
| | COATING | ZINC, PLAIN |
| | CODE | ATZ, ATP |

| Size | Pitch | ชุบซิงค์ | | | | ไม่ชุบ | | | |
|------|-------|----------|--------|---------|---------|--------|--------|--------|---------|
| | | 1 m | 1.5 m | 2 m | 3 m | 1 m | 1.5 m | 2 m | 3 m |
| M6 | 1.0 | 17.00 | 27.00 | 50.00 | 80.00 | 16.00 | 25.00 | 47.00 | 77.00 |
| M8 | 1.25 | 26.00 | 40.00 | 74.00 | 125.00 | 25.00 | 39.00 | 72.00 | 122.00 |
| M10 | 1.5 | 39.00 | 62.00 | 110.00 | 170.00 | 38.00 | 61.00 | 108.00 | 166.00 |
| M12 | 1.75 | 56.00 | 67.00 | 140.00 | 230.00 | 55.00 | 86.00 | 138.00 | 227.00 |
| M14 | 2.0 | 84.00 | 133.00 | 235.00 | 370.00 | 82.00 | 131.00 | 232.00 | 366.00 |
| M16 | 2.0 | 102.00 | 163.00 | 260.00 | 420.00 | 100.00 | 161.00 | 258.00 | 415.00 |
| M18 | 2.5 | 135.00 | 230.00 | 430.00 | 645.00 | 133.00 | 227.00 | 426.00 | 640.00 |
| M20 | 2.5 | 165.00 | 260.00 | 450.00 | 680.00 | 162.00 | 257.00 | 445.00 | 675.00 |
| M22 | 2.5 | 200.00 | 310.00 | 500.00 | 700.00 | 197.00 | 306.00 | 495.00 | 696.00 |
| M24 | 3.0 | 235.00 | 382.00 | 580.00 | 900.00 | 233.00 | 380.00 | 576.00 | 895.00 |
| M27 | 3.0 | 370.00 | 580.00 | 800.00 | 1,300.- | 366.00 | 575.00 | 795.00 | 1,294.- |
| M30 | 3.5 | 450.00 | 680.00 | 1,000.- | 1,800.- | 446.00 | 675.00 | 995.00 | 1,794.- |

U - BOLTS [+2 NUTS]

ยูโบลท์ + หัวน็อต ชุบขาว/HDG

| | | | | | | STANDARD | | | |
|--------|-----------|-------------|---------|-------------|---------------|-----------------|--------------|------------------|---------------|
| | | | | | | MATERIAL | | STEEL | |
| | | | | | | COATING | | WHITE ZINC, HDG | |
| | | | | | | CODE | | AUB, AUD | |
| Size | ใช้รัดท่อ | วัดวงใน (D) | แกน (d) | ความยาว (c) | เกลียวยาว (b) | บรรจุ ถุง | บรรจุ กระสอบ | ราคาชุดละ ชุบขาว | ราคาชุดละ HDG |
| 3/8 | 3/8 | 3/4 | 1/4 | 1.1/2 | 7/8 | 100 | 1,500 | 4.70 | - |
| 1/2 | 1/2 | 7/8 | 1/4 | 1.1/2 | 7/8 | 100 | 1,500 | 4.70 | - |
| 3/4 | 3/4 | 1.1/8 | 1/4 | 1.3/4 | 1" | 100 | 1,500 | 4.80 | - |
| 1" | 1" | 1.3/8 | 1/4 | 2.3/8 | 1.1/4 | 100 | 1,000 | 7.50 | 19.00 |
| 1" | 1" | 1.3/8 | 5/16 | 2.1/4 | 1.1/8 | 100 | 600 | 7.50 | 19.00 |
| 1.1/4 | 1.1/8 | 1.1/2 | 5/16 | 2.1/4 | 1.1/8 | 100 | 600 | 8.00 | 21.00 |
| 1.1/2 | 1.1/4 | 1.3/4 | 5/16 | 2.1/2 | 1.1/4 | 100 | 600 | 8.20 | 21.50 |
| 1.3/4 | 1.1/2 | 2" | 5/16 | 3" | 1.1/2 | 100 | 600 | 8.40 | 22.00 |
| 2" | 1.3/4 | 2.1/4 | 5/16 | 3" | 1.1/2 | 100 | 500 | 8.70 | 22.50 |
| 2.1/4 | 2" | 2.1/2 | 5/16 | 3.1/2 | 1.5/8 | 100 | 500 | 9.00 | 23.00 |
| 2.1/2 | 2.1/4 | 2.3/4 | 5/16 | 3.1/2 | 1.3/4 | 100 | 400 | 9.60 | 24.50 |
| 2.3/4 | 2.1/2 | 3" | 5/16 | 4.1/4 | 1.3/4 | 100 | 400 | 10.70 | 27.00 |
| 3" | 2.3/4 | 3.1/4 | 5/16 | 4.1/4 | 2" | 100 | 300 | 11.30 | 29.00 |
| 3.1/2 | 3" | 3.1/2 | 3/8 | 4.1/2 | 2" | 50 | 200 | 17.50 | 45.00 |
| 4" | 3.1/2 | 4" | 3/8 | 5" | 2" | 50 | 200 | 19.00 | 50.00 |
| 4.1/2 | 4" | 4.1/2 | 3/8 | 5.3/4 | 2" | 25 | 150 | 19.50 | 51.00 |
| 5" | 4.1/2 | 5" | 3/8 | 6.3/4 | 2.1/4 | 25 | 200 | 21.75 | 55.00 |
| 5.1/2 | 5" | 5.1/2 | 3/8 | 6.3/4 | 2.1/4 | 25 | 200 | 22.50 | 57.00 |
| 6" | 5.1/2 | 6" | 3/8 | 8" | 2.1/2 | 25 | 200 | 24.00 | 60.00 |
| 6.1/2 | 6" | 6.1/2 | 3/8 | 8" | 2.1/2 | 25 | 200 | 25.30 | 62.00 |
| 7" | 6.1/2 | 7" | 3/8 | 8.1/4 | 2.3/4 | 10 | 100 | 27.60 | 66.00 |
| 7.1/2 | 7" | 7.1/2 | 3/8 | 9" | 2.3/4 | 10 | 100 | 30.00 | 72.00 |
| 8" | 7.1/2 | 8" | 3/8 | 9.1/4 | 3" | 10 | 100 | 32.00 | 77.00 |
| 8.1/2 | 8" | 8.1/2 | 3/8 | 10.1/2 | 3" | 10 | 100 | 34.00 | 82.00 |
| 9" | 8.1/2 | 9" | 3/8 | 11" | 3" | 10 | 100 | 42.00 | 100.00 |
| 9.1/2 | 9" | 9.1/2 | 3/8 | 11" | 3" | 10 | 100 | 44.00 | 105.00 |
| 10" | 9.1/2 | 10 | 3/8 | 12" | 3.1/2 | 10 | 50 | 51.00 | 122.00 |
| 10.1/2 | 10" | 10.1/2 | 3/8 | 12" | 3.1/2 | 10 | 50 | 54.00 | 130.00 |
| 11" | 10.1/2 | 11" | 3/8 | 12.3/4 | 3.1/2 | 10 | 50 | 59.00 | 142.00 |
| 12 | 11" | 12" | 3/8 | 15" | 4" | 10 | 50 | 64.00 | 154.00 |
| 12.1/2 | 12" | 12.1/2 | 3/8 | 15" | 4" | 10 | 50 | 67.00 | 160.00 |

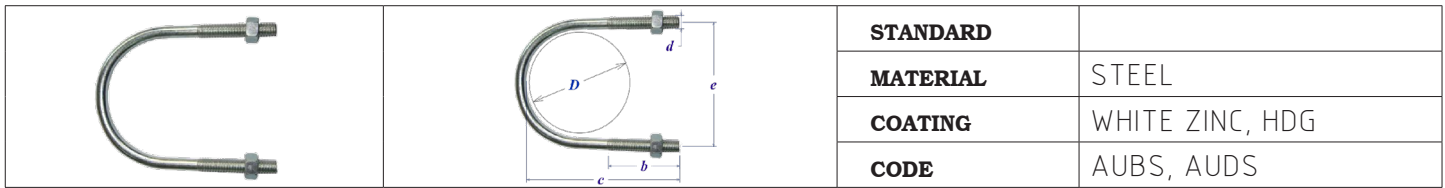
WIRE CLAMP

เหล็กรัดท่อไอเสีย

| | | | | | | | STANDARD | | | |
|------------|--------|--------|--------|-------|--------|-------|-----------------|--|------------|--|
| | | | | | | | MATERIAL | | STEEL | |
| | | | | | | | COATING | | WHITE ZINC | |
| | | | | | | | CODE | | AUT | |
| Size | 1.1/4" | 1.1/2" | 1.3/4" | 2" | 2.1/2" | 3" | | | | |
| Unit Price | 15.00 | 16.00 | 17.00 | 18.50 | 20.00 | 24.50 | | | | |

HEAVY U - BOLTS [+2 NUTS]

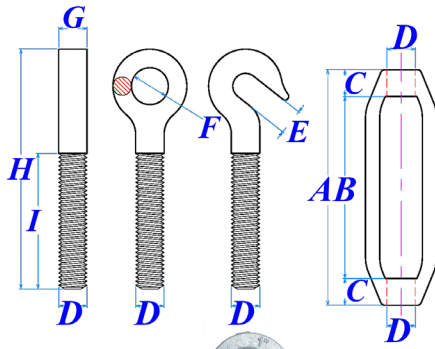
ยูโบลทแกนใหญ่ + หัวน๊อต ชุบยา/HDG (สั่งทำ)



| Size | วัดวงใน (D) | แกน (d) | ความยาว (c) | เกลียวยาว (b) | ราคาชุดละ | |
|-------|-------------|---------|-------------|---------------|-----------|----------|
| | | | | | ชุบยา | HDG |
| 1/2 | 3/8"NC | 1" | 60 mm | 35 mm | 14.00 | 35.00 |
| 3/4 | 3/8"NC | 1.1/8 | 60 mm | 35 mm | 14.00 | 35.00 |
| 1" | 3/8"NC | 1.1/2 | 75 mm | 35 mm | 15.00 | 38.00 |
| 1.1/4 | 3/8"NC | 1.3/4 | 75 mm | 35 mm | 15.00 | 38.00 |
| 1.1/2 | 3/8"NC | 2" | 80 mm | 45 mm | 18.00 | 45.00 |
| 2" | 3/8"NC | 2.1/2 | 100 mm | 50 mm | 22.00 | 55.00 |
| 2.1/2 | 3/8"NC | 3" | 110 mm | 50 mm | 23.00 | 58.00 |
| 2.1/2 | 1/2"BSW | 3" | 110 mm | 50 mm | 40.00 | 100.00 |
| 3" | 1/2"BSW | 3.1/2 | 140 mm | 75 mm | 40.00 | 100.00 |
| 4" | 1/2"BSW | 4.1/2 | 165 mm | 90 mm | 44.00 | 100.00 |
| 4" | 5/8"NC | 4.1/2 | 165 mm | 91 mm | 61.00 | 140.00 |
| 5" | 1/2"BSW | 5.1/2 | 190 mm | 90 mm | 58.00 | 135.00 |
| 5" | 5/8"NC | 5.1/2 | 190 mm | 90 mm | 84.00 | 185.00 |
| 6" | 1/2"BSW | 6.3/4 | 215 mm | 75 mm | 70.00 | 155.00 |
| 6" | 5/8"NC | 6.3/4 | 230 mm | 100 mm | 96.00 | 212.00 |
| 7" | 1/2"BSW | 7.1/2 | 225 mm | 100 mm | 90.00 | 200.00 |
| 7" | 5/8"NC | 7.1/2 | 225 mm | 100 mm | 106.00 | 235.00 |
| 8" | 1/2"BSW | 8.3/4 | 255 mm | 100 mm | 91.00 | 200.00 |
| 8" | 5/8"NC | 8.3/4 | 280 mm | 100 mm | 120.00 | 300.00 |
| 8" | 3/4"NC | 8.3/4 | 280 mm | 100 mm | 192.00 | 480.00 |
| 10" | 1/2"BSW | 10.3/4 | 320 mm | 110 mm | 107.00 | 255.00 |
| 10" | 5/8"NC | 10.3/4 | 320 mm | 110 mm | 150.00 | 330.00 |
| 10" | 3/4"NC | 10.3/4 | 320 mm | 110 mm | 228.00 | 500.00 |
| 12" | 1/2"BSW | 12.3/4 | 392 mm | 110 mm | 126.00 | 277.00 |
| 12" | 5/8"NC | 12.3/4 | 392 mm | 110 mm | 182.00 | 400.00 |
| 12" | 3/4"NC | 12.3/4 | 392 mm | 110 mm | 264.00 | 580.00 |
| 12" | 7/8"NC | 12.3/4 | 392 mm | 110 mm | 502.00 | 1,140.00 |
| 14" | 5/8"NC | 14.1/2 | 436 mm | 110 mm | 202.00 | 445.00 |
| 14" | 3/4"NC | 14.1/2 | 436 mm | 110 mm | 297.00 | 655.00 |
| 14" | 7/8"NC | 14.1/2 | 436 mm | 110 mm | 515.00 | 1,133.00 |
| 14" | 1"NC | 14.1/2 | 436 mm | 110 mm | 620.00 | 1,364.00 |
| 16" | 3/4"NC | 16.1/2 | 486 mm | 110 mm | 321.00 | 706.00 |
| 16" | 7/8"NC | 16.1/2 | 486 mm | 110 mm | 450.00 | 990.00 |
| 16" | 1"NC | 16.1/2 | 486 mm | 110 mm | 630.00 | 1,385.00 |
| 18" | 3/4"NC | 18.1/2 | 558 mm | 110 mm | 360.00 | 792.00 |
| 18" | 7/8"NC | 18.1/2 | 558 mm | 110 mm | 535.00 | 1,177.00 |
| 18" | 1" | 18.1/2 | 558 mm | 110 mm | 690.00 | 1,518.00 |
| 24" | 3/4"NC | 24.1/2 | 698 mm | 110 mm | 460.00 | 1,012.00 |
| 24" | 7/8"NC | 24.1/2 | 698 mm | 110 mm | 790.00 | 1,738.00 |
| 24" | 1"NC | 24.1/2 | 698 mm | 110 mm | 970.00 | 2,134.00 |

TURNBUCKLE

เกลียวแรง



| | |
|-----------------|-------------|
| STANDARD | |
| MATERIAL | STEEL |
| COATING | YELLOW ZINC |
| CODE | AWGP |



Eye & Eye



JIS Frame
Hook & Eye



JIS-TH
Hook & Eye

| Size | | Body | | | | Eye & Eye | | Hook & Hook | | Hook & Eye | With Stubs | | | ราคาต่อตัว |
|------|-------|------|-----|------|-------|-----------|-------|-------------|-------|------------|------------|-----|------|------------|
| | | A | B | C | M.T.L | F | M.T.L | E | M.T.L | M.T.L | H | I | G | |
| mm. | inch. | mm. | mm. | mm. | Ton | mm. | Ton | mm. | Ton | Ton | mm. | mm. | mm. | |
| 6 | 1/4 | 100 | 78 | 11.0 | 1 | 10 | 0.1 | 9 | 0.04 | 0.04 | 80 | 80 | 5.3 | |
| 8 | 5/16 | 125 | 100 | 12.5 | 1.2 | 12 | 0.2 | 9 | 0.08 | 0.08 | 100 | 63 | 6.9 | |
| 9 | 3/8 | 150 | 120 | 12.5 | 1.5 | 16 | 0.5 | 11 | 0.15 | 0.15 | 130 | 75 | 8.3 | |
| 12 | 1/2 | 200 | 164 | 18.0 | 2 | 20 | 2.0 | 16 | 0.35 | 0.35 | 150 | 100 | 11.2 | |
| 16 | 5/8 | 250 | 202 | 21.5 | 3 | 22 | 3.0 | 19 | 0.70 | 0.70 | 180 | 125 | 14.2 | |
| 19 | 3/4 | 300 | 250 | 25.0 | 4 | 28 | 4.0 | 20 | 1.00 | 1.00 | 220 | 150 | 17.2 | |
| 22 | 7/8 | 325 | 267 | 28.0 | 5 | 33 | 5.0 | 21 | 1.50 | 1.50 | 250 | 165 | 20.3 | |
| 25 | 1 | 350 | 285 | 32.5 | 6 | 35 | 6.0 | 26 | 2.00 | 2.00 | 270 | 175 | 23.3 | |
| 32 | 1 1/4 | 400 | 310 | 45.0 | 8 | 36x70 | 10.0 | 34 | 3.00 | 3.00 | 300 | 200 | 29.0 | |
| 38 | 1 1/2 | 450 | 350 | 55.0 | 10 | 40x80 | 15.0 | 35 | 4.00 | 4.00 | 330 | 225 | 38.0 | |

HOSE CLAMP

เหล็กรัด ORBIT

| | | | | STANDARD | |
|------|-----------------|---------------|-----------|-----------------|-------------------------|
| | | | | MATERIAL | STEEL |
| | | | | COATING | YELLOW ZINC, WHITE ZINC |
| | | | | CODE | AWGP |
| Size | ระยะขยาย (inch) | ระยะขยาย (mm) | Pcs / Ctn | Pcs / Box | Unit Price |
| 000 | 3/8-1/2 | 9-13 | 1,500 | 100 | 7.50 |
| M00 | 1/2-5/8 | 13-16 | 2,000 | 100 | 7.50 |
| 00 | 1/2-3/4 | 13-19 | 2,000 | 100 | 7.50 |
| 0 | 5/8-7/8 | 16-22 | 1,200 | 100 | 8.50 |
| 0X | 3/4-1" | 19-25 | 1,200 | 100 | 8.50 |
| 1A | 7/8-1.1/8 | 22-29 | 1,200 | 100 | 9.25 |
| 1 | 1"-1.3/8 | 25-35 | 1,000 | 50 | 9.25 |
| 1X | 1.1/8-1.5/8 | 28-41 | 1,000 | 50 | 9.25 |
| 2A | 1.1/4-1.7/8 | 31-48 | 600 | 50 | 10.5 |
| 2 | 1.1/2-2.1/8 | 38-54 | 600 | 50 | 10.5 |
| 2X | 1.3/4-2.3/8 | 44-60 | 600 | 50 | 10.5 |
| 3 | 2"-2.3/4 | 50-70 | 600 | 50 | 12.00 |
| 3X | 2.3/8-3.1/8 | 60-80 | 600 | 50 | 12.00 |
| 4 | 2.3/4-3.1/2 | 70-90 | 300 | 25 | 13.50 |
| 4X | 3.1/4-4" | 83-102 | 300 | 25 | 13.50 |
| 5 | 3.3/4-4.1/4 | 95-115 | 300 | 25 | 15.50 |
| 6 | 4.1/8-5" | 104-127 | 300 | 25 | 17.00 |
| 6X | 5"-5.3/4 | 127-146 | 300 | 25 | 17.00 |
| 7 | 5.3/4-6.1/4 | 146-159 | 150 | - | 19.50 |
| 8 | 5.7/8-7" | 149-178 | 150 | - | 23.00 |
| 9 | 6.7/8-8" | 175-203 | 100 | - | 27.00 |
| 10 | 7.7/8-9" | 200-229 | 100 | - | 31.00 |
| 11 | 8.7/8-10" | 225-254 | 100 | - | 35.00 |
| 12 | 9.7/8-11" | 251-281 | 100 | - | 42.00 |

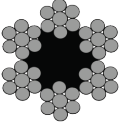
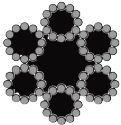
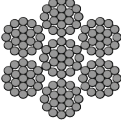
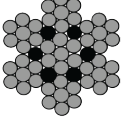
CHAIN SLING

โซ่เหล็ก

| | | | | STANDARD | |
|----------|--------------|-------------------|-----------------|-----------------|-------------------------|
| | | | | MATERIAL | STEEL |
| | | | | COATING | YELLOW ZINC, WHITE ZINC |
| | | | | CODE | AWGP |
| Size (d) | เมตร / 50kg. | โซ่เหล็ก ชูบซิงค์ | โซ่เหล็ก ไม่ชูบ | โซ่เหล็ก ชูบHDG | |
| M3 | 1/8 | 312 | 90.00 | 80.00 | 107.00 |
| M3.5 | | 170 | 88.00 | - | - |
| M4 | 5/32 | 227 | 84.00 | 73.00 | 100.00 |
| M4.5 | 11/64 | 110 | 75.00 | 68.00 | 94.00 |
| M5 | 13/16 | 128 | 71.00 | 60.00 | 94.00 |
| M5.5 | 7/32 | 76 | 71.00 | 60.00 | 94.00 |
| M6 | 1/4 | 92 | 71.00 | 60.00 | 94.00 |
| M7 | 9/32 | 41 | 71.00 | 60.00 | 94.00 |
| M8 | 5/16 | 55 | 71.00 | 60.00 | 94.00 |
| M9 | 3/8 | 33 | 71.00 | 60.00 | 94.00 |
| M12 | 1/2 | 16 | 71.00 | 60.00 | 94.00 |

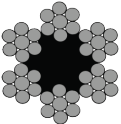
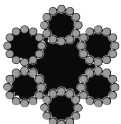
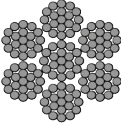
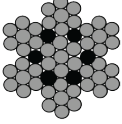
WIRE ROPE SLING

ลวดสลิง ไส้เชือก - ไส้เหล็ก

|  | | | |  | | | |  | | | |  | | | | STANDARD | | | |
|---|------|--------|----------|---|------|---------------------|--------|---|--|------------|--|---|--|----------------|--|-----------------|--|--|--|
| 6x7 | | 6x12 | | 7x19 | | 7x7 | | | | | | MATERIAL | | STEEL (+FIBER) | | | | | |
| | | | | | | | | | | | | COATING | | | | | | | |
| | | | | | | | | | | | | CODE | | FRCL, FWRST | | | | | |
| Size (d) (ไส้เชือก) | | เกลียว | | ราคาม้วน (200m.) ละ | | Size (d) (ไส้เหล็ก) | | เกลียว | | ราคาเมตรละ | | ราคา กิโลละ | | | | | | | |
| M1.5 | 1/16 | 6x7 | 600.00 | M3 | 1/8 | 7x7 | 9.00 | - | | | | | | | | | | | |
| M2 | 3/32 | 6x7 | 700.00 | M4 | 5/32 | 7x7 | 15.00 | - | | | | | | | | | | | |
| M2.5 | 7/64 | 6x7 | 720.00 | M5 | 3/16 | 7x7 | 18.00 | - | | | | | | | | | | | |
| M3 | 1/8 | 6x7 | 720.00 | M6 | 1/4 | 7x19 | 26.00 | - | | | | | | | | | | | |
| M4 | 5/32 | 6x12 | 1,150.00 | M8 | 5/16 | 7x19 | 42.00 | - | | | | | | | | | | | |
| M5 | 3/16 | 6x12 | 1,500.00 | M9 | 3/8 | 7x19 | 48.00 | - | | | | | | | | | | | |
| M6 | 1/4 | 6x12 | 1,800.00 | M12 | 1/2 | 7x19 | 80.00 | - | | | | | | | | | | | |
| M8 | 5/16 | 6x12 | 3,100.00 | M16 | 5/8 | 6x36 | 115.00 | 105.00 | | | | | | | | | | | |
| M9 | 3/8 | 6x12 | 3,700.00 | M19 | 3/4 | 6x36 | 160.00 | 108.00 | | | | | | | | | | | |
| M12 | 1/2 | 6x12 | 7,000.00 | M22 | 7/8 | - | 220.00 | 105.00 | | | | | | | | | | | |
| | | | | M26 | 1" | - | 275.00 | 105.00 | | | | | | | | | | | |


WIRE ROPE SLING STAINLESS STEEL

ลวดสลิงสแตนเลส ไส้เชือก - ไส้เหล็ก

|  | | | |  | | | |  | | | |  | | | | STANDARD | | | |
|---|------|--------|--------|---|------|-------------|------|---|--|--------|--|---|--|--------------------------|--|-----------------|--|--|--|
| 6x7 | | 6x12 | | 7x19 | | 7x7 | | | | | | MATERIAL | | STAINLESS STEEL (+FIBER) | | | | | |
| | | | | | | | | | | | | COATING | | | | | | | |
| | | | | | | | | | | | | CODE | | CCS | | | | | |
| Size (d) (ไส้เชือก) | | เกลียว | | ราคาเมตรละ | | ราคา กิโลละ | | Size (d) (ไส้เหล็ก) | | เกลียว | | ราคาเมตรละ | | | | | | | |
| M1.2 | - | 6x7 | 6.00 | 700.00 | M1.2 | 1/16 | 7x7 | 30.00 | | | | | | | | | | | |
| M1.5 | 1/16 | 6x7 | 8.00 | 900.00 | M1.5 | 3/32 | 7x7 | 30.00 | | | | | | | | | | | |
| M2 | 3/32 | 6x7 | 10.00 | 1,250.00 | M2 | 1/8 | 7x7 | 30.00 | | | | | | | | | | | |
| M3 | 1/8 | 6x12 | 17.00 | 2,100.00 | M3 | 5/32 | 7x7 | 45.00 | | | | | | | | | | | |
| M4 | 5/32 | 6x12 | 26.00 | 3,250.00 | M4 | 3/16 | 7x19 | 50.00 | | | | | | | | | | | |
| M5 | 3/16 | 6x12 | 36.00 | 4,400.00 | M5 | 1/4 | 7x19 | 75.00 | | | | | | | | | | | |
| M6 | 1/4 | 6x12 | 50.00 | 6,300.00 | M6 | 5/16 | 7x19 | 90.00 | | | | | | | | | | | |
| M8 | 5/16 | 6x12 | 80.00 | 10,000.00 | M8 | 3/8 | 7x19 | 170.00 | | | | | | | | | | | |
| M9 | 3/8 | 6x12 | 100.00 | 12,500.00 | M9 | 1/2 | 7x19 | 220.00 | | | | | | | | | | | |
| M12 | 1/2 | 6x12 | 176.00 | 22,000.00 | M12 | 7/8 | 7x19 | 520.00 | | | | | | | | | | | |

WIRE ROPE CLIPS

คลิปสลิง

|  | | | | | | | | | | | | STANDARD | | DIN741 | |
|---|------|------|------|------|-------|-------|-------|-------|-------|-------|--------|-----------------|--|--------|--|
| | | | | | | | | | | | | MATERIAL | | STEEL | |
| | | | | | | | | | | | | COATING | | WHITE | |
| | | | | | | | | | | | | CODE | | ACL | |
| Size | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1.1/4 | 1.1/2 | | | |
| ขนาด | 2.20 | 2.60 | 3.50 | 4.80 | 7.80 | 11.50 | 18.00 | 24.00 | 36.00 | 43.00 | 100.00 | 140.00 | | | |
| ขนาด HDG | - | - | - | - | 13.00 | - | - | - | - | - | - | - | | | |

DROP-IN ANCHOR

พุกสอดปอน SANKO CR3

| | | | STANDARD | | | | | | |
|------|----|--------|-------------------|-------|---------|-------|---------|-------|-----------|
| | | | MATERIAL | | STEEL | | | | |
| | | | COATING | | CR3 | | | | |
| | | | CODE | | PCT | | | | |
| Size | | | เส้นผ่านศูนย์กลาง | | ความยาว | | กล่องละ | ลังละ | ราคาตัวละ |
| | | | เกลียว | ปลั๊ก | เกลียว | ปลั๊ก | | | |
| 5/16 | CT | - 2530 | w5/16 | 10.0 | 30.0 | 10.5 | 100 | 1000 | 6.00 |
| 3/8 | CT | - 3040 | w3/8 | 12.0 | 40.0 | 15.0 | 50 | 1000 | 6.50 |
| 1/2 | CT | - 4050 | w1/2 | 16.0 | 50.0 | 20.0 | 50 | 500 | 12.00 |
| 5/8 | CT | - 5060 | w5/8 | 21.0 | 60.0 | 25.0 | 25 | 250 | 50.00 |
| M8 | CT | - 830 | 8 | 10.0 | 30.0 | 10.5 | 100 | 1000 | 7.00 |
| M10 | CT | - 1040 | 10 | 12.0 | 40.0 | 15.0 | 50 | 1000 | 7.50 |
| M12 | CT | - 1250 | 12 | 16.0 | 50.0 | 20.0 | 50 | 500 | 13.00 |
| M16 | CT | - 1660 | 16 | 21.0 | 60.0 | 25.0 | 25 | 250 | 58.00 |

GRIP ANCHOR

พุกคัท SANKO CR3

| | | | STANDARD | | | | | | | | |
|------|----|------|-----------------|------|---------|------|---------------|----------------------|---------|-------|-----------|
| | | | MATERIAL | | | | | | | | |
| | | | COATING | | | | | | | | |
| | | | CODE | | PGA | | | | | | |
| Size | | | d | D | ความยาว | | แรงดึง kgf | ความลึก รูคอนกรีต | กล่องละ | ลังละ | ราคาตัวละ |
| | | | | | L | l | | | | | |
| 5/16 | GA | - 25 | w5/16 | 12.0 | 35.0 | 13.0 | 1300 | 10.5 | 100 | 800 | 9.50 |
| 3/8 | GA | - 30 | w3/8 | 14.0 | 40.0 | 17.0 | 1520 | 15.0 | 100 | 800 | 11.00 |
| 1/2 | GA | - 40 | w1/2 | 17.3 | 50.0 | 20.0 | 2285 | 20.0 | 50 | 400 | 17.00 |

BOLT ANCHOR


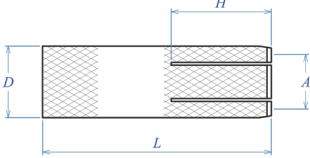
พุก BA SANKO

| | | | STANDARD | | | | | | | | |
|---------|----|------|-----------------|----|-------|---------------|------------------|----------|---------|-------|-----------|
| | | | MATERIAL | | STEEL | | | | | | |
| | | | COATING | | CR3 | | | | | | |
| | | | CODE | | PBA | | | | | | |
| Size | d | D | L | H | Drill | Shear Load | Pull Out Figures | | กล่องละ | ลังละ | ราคาตัวละ |
| | | | | | | | Initial | Ultimate | | | |
| BA-1070 | 10 | 14.0 | 70 | 40 | 14.5 | 1820 | 1820 | 1797 | 50 | 300 | 22.00 |
| BA-1080 | 10 | 14.0 | 80 | 40 | 14.5 | 1820 | 1820 | 1797 | 50 | 200 | 23.00 |
| BA-1010 | 10 | 14.0 | 100 | 40 | 14.5 | 1820 | 1820 | 1797 | 50 | 200 | 24.00 |
| BA-1012 | 10 | 14.0 | 120 | 40 | 14.5 | 1820 | 1820 | 1797 | 50 | 200 | 30.00 |
| BA-1210 | 12 | 17.3 | 100 | 50 | 18.0 | 2750 | 2750 | 2822 | 30 | 120 | 39.00 |
| BA-1212 | 12 | 17.3 | 120 | 50 | 18.0 | 2750 | 2750 | 2822 | 30 | 120 | 42.00 |
| BA-1215 | 12 | 17.3 | 150 | 50 | 18.0 | 2750 | 2750 | 2822 | 30 | 100 | 48.00 |
| BA-1610 | 16 | 21.7 | 100 | 50 | 22.0 | 4820 | 4820 | 3705 | 30 | 60 | 70.00 |
| BA-1612 | 16 | 21.7 | 120 | 60 | 22.0 | 4820 | 4820 | 3705 | 30 | 60 | 77.00 |
| BA-1615 | 16 | 21.7 | 150 | 60 | 22.0 | 4820 | 4820 | 3705 | 30 | 60 | 84.00 |

| HDG | | | | | | | | | | | |
|----------|----|------|-----|----|------|------|------|------|----|-----|--------|
| BA-1210D | 12 | 17.3 | 100 | 50 | 18.0 | 2750 | 1150 | 2822 | 30 | 120 | 50.00 |
| BA-1612D | 16 | 21.7 | 120 | 60 | 22.0 | 4820 | 1610 | 3705 | 30 | 60 | 100.00 |

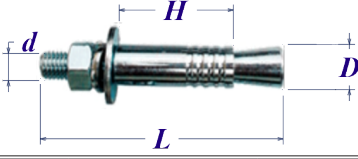
DROP-IN ANCHOR

ปลุกตรอบป็น

|  | | |  | | | | | STANDARD | | | | | | |
|---|-------------------|------|---|------|--------|----------|------|-----------------|----|------------|---------|--------|-----------|--|
| | | | | | | | | MATERIAL | | STEEL | | | | |
| | | | | | | | | COATING | | WHITE ZINC | | | | |
| | | | | | | | | CODE | | PCT | | | | |
| Size | เส้นผ่านศูนย์กลาง | | ความยาว | | แรงดึง | แรงเฉือน | A | D | L | H | กล่องละ | ตั้งละ | ราคาตัวละ | |
| | เกลียว | ปลัก | เกลียว | ปลัก | kN | kN | | | | | | | | |
| 1/4 | w1/4 | 6.0 | 25.0 | 10.0 | 2.7 | 1.3 | 1/4 | 8 | 25 | 10 | 100 | 4,000 | 2.70 | |
| 5/16 | w5/16 | 10.0 | 30.0 | 10.5 | 3.3 | 2.4 | 5/16 | 10 | 30 | 12 | 100 | 1,000 | 3.00 | |
| 3/8 | w3/8 | 12.0 | 40.0 | 15.0 | 5.0 | 3.8 | 3/8 | 12 | 40 | 19 | 50 | 1,000 | 4.00 | |
| 1/2 | w1/2 | 16.0 | 50.0 | 20.0 | 7.6 | 5.5 | 1/2 | 16 | 50 | 24 | 50 | 500 | 7.50 | |
| 5/8 | w5/8 | 22.0 | 65.0 | 22.0 | 10.2 | 10.2 | 5/8 | 20 | 65 | 30 | 25 | 250 | 25.00 | |
| 3/4 | w3/4 | 25.0 | 85.0 | 25.0 | 15.4 | 15.9 | 3/4 | 25 | 85 | 35 | 20 | 120 | 55.00 | |

SET ANCHOR

ปลุก SET

|  | | | | | STANDARD | | | |
|---|----------|--------|-------|---------------|-----------------|-----------|------------|--|
| | | | | | MATERIAL | | STEEL | |
| | | | | | COATING | | WHITE ZINC | |
| | | | | | CODE | | PS | |
| Size | Out Side | Sleeve | Drill | Pull Out (kg) | กล่องละ | ราคาตัวละ | | |
| 6 x 50 | 9.5 | 30 | 9.5 | 890 | 200 | 6.50 | | |
| 8 x 65 | 12.0 | 35 | 12 | 1390 | 100 | 8.00 | | |
| 10 x 70 | 14.0 | 40 | 14.5 | 1600 | 100 | 11.00 | | |
| 10 x 80 | 14.0 | 40 | 14.5 | 1600 | 50 | 12.00 | | |
| 10 x 100 | 14.0 | 40 | 14.5 | 1600 | 50 | 13.00 | | |
| 12 x 100 | 17.3 | 50 | 18 | 2540 | 30 | 20.00 | | |
| 12 x 120 | 17.3 | 50 | 18 | 2540 | 30 | 22.00 | | |
| 12 x 160 | 17.3 | 50 | 18 | 2540 | 25 | 25.00 | | |
| 12 x 200 | 17.3 | 50 | 18 | 2540 | 20 | 30.00 | | |
| 16 x 100 | 21.7 | 50 | 22 | 3300 | 20 | 34.00 | | |
| 16 x 120 | 21.7 | 50 | 22 | 3300 | 10 | 35.00 | | |
| 16 x 160 | 21.7 | 50 | 22 | 3300 | 10 | 40.00 | | |
| 16 x 200 | 21.7 | 50 | 22 | 3300 | 10 | 51.00 | | |
| 20 x 160 | 25.4 | 80 | 26 | 4950 | 10 | 68.50 | | |
| 20 x 200 | 25.4 | 80 | 26 | 4950 | 10 | 80.00 | | |

ปลุกเหล็ก ธรรมดา FASTENIC

| | | | | | | | STANDARD | | | | | |
|------|--------|----------|------|------|-----|-----|----------|-------|-----------|-------|----------|----------|
| | | | | | | | MATERIAL | | STEEL | | | |
| | | | | | | | COATING | | | | | |
| | | | | | | | CODE | | PST | | | |
| Size | แรงดึง | แรงเฉือน | A | D | L | H | กล่องละ | ลังละ | ราคาตัวละ | | | |
| | kN | kN | | | | | | | ธรรมดา | VK | Fastenic | Dacromet |
| 3/6 | 1.1 | 1.2 | 3/16 | 6.5 | 40 | 28 | 400 | 4,000 | 1.75 | 1.75 | 2.25 | 3.50 |
| 1/4 | 2.5 | 2.0 | 1/4 | 8.0 | 50 | 38 | 200 | 2,000 | 2.00 | 2.00 | 2.75 | 4.00 |
| 5/16 | 4.0 | 3.3 | 5/16 | 10.0 | 65 | 45 | 100 | 1,000 | 3.50 | 3.50 | 4.75 | 7.00 |
| 3/8 | 7.8 | 4.1 | 3/8 | 12.0 | 70 | 50 | 75 | 750 | 5.50 | 5.50 | 7.25 | 11.00 |
| 1/2 | 10.0 | 6.5 | 1/2 | 16.0 | 95 | 65 | 30 | 300 | 11.00 | 11.00 | 14.00 | 22.00 |
| 5/8 | 12.0 | 12.5 | 5/8 | 20.0 | 110 | 85 | 20 | 200 | 28.00 | 28.00 | 35.00 | 56.00 |
| 3/4 | 14.5 | 20.0 | 3/4 | 25.0 | 160 | 120 | 10/8 | 80 | 75.00 | 75.00 | 90.00 | - |

ปลุกตะกั่ว ธรรมดา FASTENIC

| | | | | | | | STANDARD | | | | | |
|------|--------|----------|------|-------|-----|---------|----------|-----------|----------|--|--|--|
| | | | | | | | MATERIAL | | STEEL | | | |
| | | | | | | | COATING | | | | | |
| | | | | | | | CODE | | PDB | | | |
| Size | แรงดึง | แรงเฉือน | A | D | L | กล่องละ | ลังละ | ราคาตัวละ | | | | |
| | kN | kN | | | | | | ธรรมดา | Fastenic | | | |
| 1/4 | 2.2 | 3.2 | 1/4 | 1/2 | 35 | 100 | - | 7.50 | 7.50 | | | |
| 5/16 | 2.3 | 4.2 | 5/16 | 5/8 | 41 | 100 | - | 13.00 | 13.00 | | | |
| 3/8 | 4.5 | 5.2 | 3/8 | 3/4 | 51 | 50/60 | - | 20.00 | 20.00 | | | |
| 1/2 | 5.4 | 10.8 | 1/2 | 7/8 | 64 | 25 | - | 30.00 | 30.00 | | | |
| 5/8 | 7.0 | 15.5 | 5/8 | 1" | 70 | 15 | 300 | - | 68.00 | | | |
| 3/4 | 11.0 | 19.0 | 3/4 | 1.1/4 | 100 | 10 | 100 | - | 98.00 | | | |

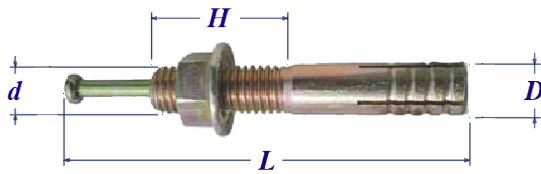
ปลุกเวจด์ WEDGE ANCHOR

| | | | | | | | | | | | | |
|--|--|--|--|--|--|--|----------|--|-------|--|--|--|
| | | | | | | | STANDARD | | | | | |
| | | | | | | | MATERIAL | | STEEL | | | |
| | | | | | | | COATING | | | | | |
| | | | | | | | CODE | | PWA | | | |

| ขนาดเกลียว, A, D (mm.) | แรงดึง (Pull-Out) (kN) | แรงเฉือน (Shear) (kN) | ความยาว เกลียว, H (mm.) | ความยาว ทั้งตัว, L (mm.) | ราคาตัวละ | ขนาดเกลียว, A, D (mm.) | แรงดึง (Pull-Out) (kN) | แรงเฉือน (Shear) (kN) | ความยาว เกลียว, H (mm.) | ความยาว ทั้งตัว, L (mm.) | ราคาตัวละ |
|---------------------------|------------------------------|-----------------------------|-------------------------------|--------------------------------|-----------|---------------------------|------------------------------|-----------------------------|-------------------------------|--------------------------------|-----------|
| M6 | 2.0 | 2.0 | 17 | 45 | | M12 | 9.4 | 6.7 | 69 | 180 | |
| M6 | 2.0 | 2.0 | 26 | 65 | | M16 | 13.4 | 11.8 | 35 | 100 | |
| M8 | 4.2 | 3.6 | 16 | 50 | | M16 | 13.4 | 11.8 | 49 | 125 | |
| M8 | 4.2 | 3.6 | 25 | 75 | | M16 | 13.4 | 11.8 | 49 | 145 | |
| M8 | 4.2 | 3.6 | 59 | 115 | | M16 | 13.4 | 11.8 | 61 | 170 | |
| M10 | 5.3 | 4.5 | 20 | 60 | | M16 | 13.4 | 11.8 | 64 | 220 | |
| M10 | 5.3 | 4.5 | 42 | 90 | | M20 | 19.0 | 18.9 | 41 | 120 | |
| M10 | 5.3 | 4.5 | 44 | 100 | | M20 | 19.0 | 18.9 | 68 | 145 | |
| M10 | 5.3 | 4.5 | 44 | 110 | | M20 | 19.0 | 18.9 | 78 | 170 | |
| M10 | 5.3 | 4.5 | 54 | 120 | | M20 | 19.0 | 18.9 | 88 | 200 | |
| M10 | 5.3 | 4.5 | 79 | 150 | | M20 | 19.0 | 18.9 | 98 | 240 | |
| M12 | 9.4 | 6.7 | 23 | 70 | | M20 | 19.0 | 18.9 | 108 | 300 | |
| M12 | 9.4 | 6.7 | 41 | 100 | | BSW 1" | 23.0 | 32.0 | 65 | 190 | |
| M12 | 9.4 | 6.7 | 44 | 110 | | BSW 1" | 23.0 | 32.0 | 69 | 240 | |
| M12 | 9.4 | 6.7 | 54 | 120 | | | | | | | |

HAMMER DRIVE ANCHOR

พุกตะปู



| | |
|-----------------|-------|
| STANDARD | |
| MATERIAL | STEEL |
| COATING | CR3 |
| CODE | PC |

| Size | เส้นผ่านศูนย์กลาง | | | ความยาว | | แรงดึง kg | | แรงเหวี่ยง | ความลึก | กล่องละ | ตั้งละ | ราคาหัวละ |
|----------|-------------------|----------|------|-----------|----------|-----------|-------|------------|-----------|---------|--------|-----------|
| | เกลียว(d) | ปลั๊ก(D) | ส่วน | เกลียว(L) | ปลั๊ก(H) | Start | End | kg | รูคอนกรีต | | | |
| C - 645 | 6 | 6 | 6.4 | 45 | 15 | 300 | 475 | 652 | 30 | 50 | 800 | 14.50 |
| C - 660 | 6 | 6 | 6.4 | 60 | 20 | 300 | 475 | 652 | 30 | 50 | 800 | 15.60 |
| C - 840 | 8 | 8 | 8.5 | 40 | 20 | 450 | 705 | 1,030 | 35 | 50 | 800 | 17.00 |
| C - 850 | 8 | 8 | 8.5 | 50 | 20 | 450 | 705 | 1,030 | 35 | 50 | 800 | 17.50 |
| C - 870 | 8 | 8 | 8.5 | 70 | 25 | 450 | 705 | 1,030 | 35 | 50 | 400 | 19.00 |
| C - 890 | 8 | 8 | 8.5 | 90 | 30 | 450 | 705 | 1,030 | 35 | 50 | 400 | 21.50 |
| C - 1050 | 10 | 10 | 10.5 | 50 | 20 | 732 | 1,180 | 1,640 | 40 | 50 | 400 | 21.50 |
| C - 1060 | 10 | 10 | 10.5 | 60 | 25 | 732 | 1,180 | 1,640 | 40 | 50 | 400 | 22.00 |
| C - 1070 | 10 | 10 | 10.5 | 70 | 25 | 732 | 1,180 | 1,640 | 40 | 50 | 300 | 24.50 |
| C - 1080 | 10 | 10 | 10.5 | 80 | 25 | 732 | 1,180 | 1,640 | 40 | 50 | 300 | 27.50 |
| C - 1090 | 10 | 10 | 10.5 | 90 | 30 | 732 | 1,180 | 1,640 | 40 | 50 | 300 | 29.00 |
| C - 1010 | 10 | 10 | 10.5 | 100 | 30 | 732 | 1,180 | 1,640 | 40 | 50 | 300 | 34.00 |
| C - 1012 | 10 | 10 | 10.5 | 120 | 30 | 732 | 1,180 | 1,640 | 40 | 50 | 200 | 39.50 |
| C - 1260 | 12 | 12 | 12.7 | 60 | 20 | 1,360 | 1,826 | 2,380 | 50 | 30 | 240 | 32.00 |
| C - 1270 | 12 | 12 | 12.7 | 70 | 25 | 1,360 | 1,826 | 2,380 | 50 | 30 | 240 | 34.50 |
| C - 1280 | 12 | 12 | 12.7 | 80 | 25 | 1,360 | 1,826 | 2,380 | 50 | 30 | 180 | 41.50 |
| C - 1290 | 12 | 12 | 12.7 | 90 | 30 | 1,360 | 1,826 | 2,380 | 50 | 30 | 180 | 43.50 |
| C - 1210 | 12 | 12 | 12.7 | 100 | 40 | 1,360 | 1,826 | 2,380 | 50 | 30 | 180 | 49.00 |
| C - 1212 | 12 | 12 | 12.7 | 120 | 50 | 1,360 | 1,826 | 2,380 | 50 | 30 | 120 | 56.00 |
| C - 1215 | 12 | 12 | 12.7 | 150 | 50 | 1,360 | 1,826 | 2,380 | 50 | 30 | 120 | 74.00 |
| C - 1680 | 16 | 16 | 17.0 | 80 | 40 | 2,425 | 3,215 | 4,890 | 60 | 15 | 90 | 76.00 |
| C - 1610 | 16 | 16 | 17.0 | 100 | 40 | 2,425 | 3,215 | 4,890 | 60 | 15 | 90 | 88.00 |
| C - 1612 | 16 | 16 | 17.0 | 120 | 40 | 2,425 | 3,215 | 4,890 | 60 | 15 | 90 | 108.00 |
| C - 1615 | 16 | 16 | 17.0 | 150 | 50 | 2,425 | 3,215 | 4,890 | 60 | 15 | 60 | 138.00 |
| C - 1619 | 16 | 16 | 17.0 | 190 | 50 | 2,425 | 3,215 | 4,890 | 60 | 15 | 60 | 173.00 |
| C - 2010 | 20 | 20 | 21.5 | 100 | 50 | 3,320 | 4,450 | 7,510 | 80 | 10 | 40 | 210.00 |
| C - 2013 | 20 | 20 | 21.5 | 130 | 50 | 3,320 | 4,450 | 7,510 | 80 | 10 | 40 | 236.00 |
| C - 2015 | 20 | 20 | 21.5 | 150 | 50 | 3,320 | 4,450 | 7,510 | 80 | 10 | 40 | 280.00 |
| C - 2019 | 20 | 20 | 21.5 | 190 | 50 | 3,320 | 4,450 | 7,510 | 80 | 10 | 40 | 343.00 |
| C - 2023 | 20 | 20 | 21.5 | 230 | 50 | 3,320 | 4,450 | 7,510 | 80 | 10 | 30 | 505.00 |