



# NIK BEHDAD



## About Us

The company manufactures carbon steel products such as industrial and structural plain round bars, wire rods, fasteners (anchors, studs, threaded rods), as well as concrete formwork and related accessories.







## Hot Rolled Steel Bar

| Product name         | Diameter (mm)           | Lenght (mm) | Standard                     | Grade                        |
|----------------------|-------------------------|-------------|------------------------------|------------------------------|
| Hot Rolled Round Bar | 5.5, 6.5,<br>8 to 50    | 6000,12000  | DIN17100<br>DIN17100<br>ASTM | S235<br>st37<br>A36<br>st3sp |
| Hot Rolled wire rod  | 5.5, 6.5,<br>8,10,11,12 | Coil        | Gost380<br>Gost380           | st5sp<br>1008<br>Rst34       |



## Coiled & Straightened Wire Rod (Cold drawn)

| Product name           | Diameter (mm) | Lenght (mm) | Standard              | Grade                  |
|------------------------|---------------|-------------|-----------------------|------------------------|
| Coiled Wire Rod        | 3.12          | -           | DIN17100<br>DIN17100  | Rst 37<br>Rst 34       |
| Straightened round Rod | 3.12          | 200-6000    | SAE<br>SAE<br>Gost380 | 1008<br>10012<br>st3sp |



## Cold Drawn Carbon Steel Bar

| Product name | Diameter (mm) | Lenght (mm) | Standard                     | Grade               |
|--------------|---------------|-------------|------------------------------|---------------------|
| Shaft        | 10-60         | 1000-6000   | DIN17100<br>DIN17100<br>ASTM | S235<br>st37<br>A36 |
| Polished     | 30-100        | 1000-6000   | Gost380<br>Gost380           | st3sp<br>st5sp      |



**Base Plate** (square)



**L Bolt**

## Anchors & Base Plate

| Product name               | Dimension (mm)              | Thickness (mm)        | Standard                     | Grade                       |
|----------------------------|-----------------------------|-----------------------|------------------------------|-----------------------------|
| <b>L Bolt</b>              | M8 to M60                   | -                     | DIN 20898, DIN976<br>ISO 898 | 4.8, 5.8, 8.8<br>10.9, 12.9 |
| <b>Base Plate</b> (square) | 300*300<br>& based on order | 3, 6, 8<br>10, 15, 20 | DIN17100<br>DIN17100<br>ASTM | S235<br>st37<br>A36         |



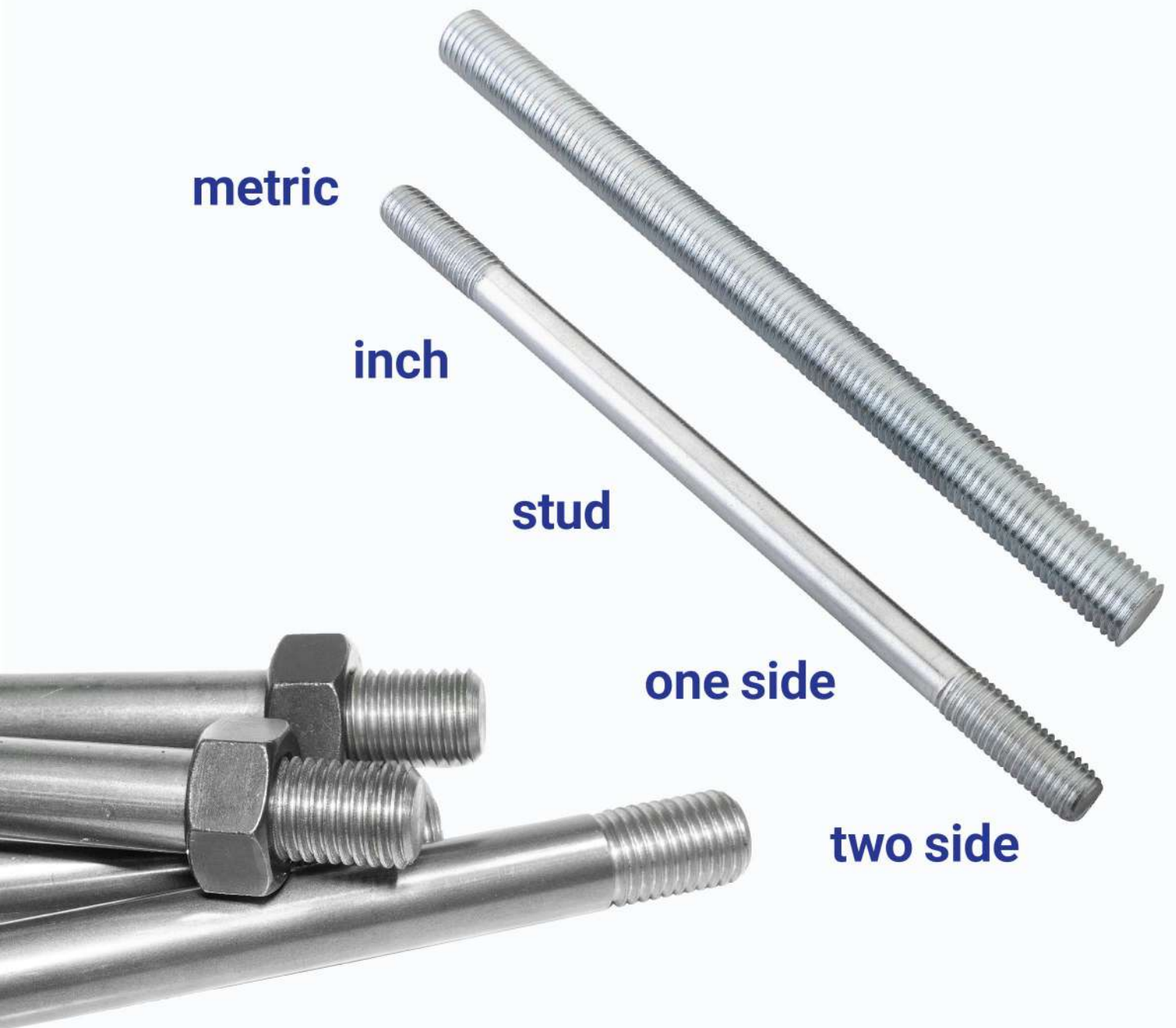
**U Bolt**



**J Bolt**

## Anchor bolts

| Product name | Dimension (mm) | Standard            | Grade                     |
|--------------|----------------|---------------------|---------------------------|
| J Bolt       | M8 to M60      | DIN 20898 / ISO 898 | 4.8, 5.8, 8.8, 10.9, 12.9 |
| U Bolt       | M8 to M60      | DIN 20898 / ISO 898 | 4.8, 5.8, 8.8, 10.9, 12.9 |



## Threaded rods

| Product name        | Dimension (mm)              | Standard                     | Grade                     |
|---------------------|-----------------------------|------------------------------|---------------------------|
| metric threaded rod | M6-M100                     | DIN 20898 / DIN976 / ISO 898 | 4.8, 5.8, 8.8, 10.9, 12.9 |
| one side & two side | M6-M100                     | DIN 20898 / DIN976 / ISO 898 | 4.8, 5.8, 8.8, 10.9, 12.9 |
| inch threaded rod   | $\frac{1}{4}$ inch - 4 inch | DIN 20898 / DIN976 / ISO 898 | 4.8, 5.8, 8.8, 10.9, 12.9 |
| Stud bolt           | $\frac{1}{4}$ inch - 4 inch | DIN 20898 / DIN976 / ISO 898 | 4.8, 5.8, 8.8, 10.9, 12.9 |

## Concrete & Accessories



**Wing washer nut**  
**Disc nut**  
**350<sub>gr</sub>, 450<sub>gr</sub>, 550<sub>gr</sub>**



**Tie Rod**



**flat square washer**  
**300<sub>gr</sub>, 370<sub>gr</sub>, 450<sub>gr</sub>**



**Water stopper**  
**440<sub>gr</sub>, 550<sub>gr</sub>**



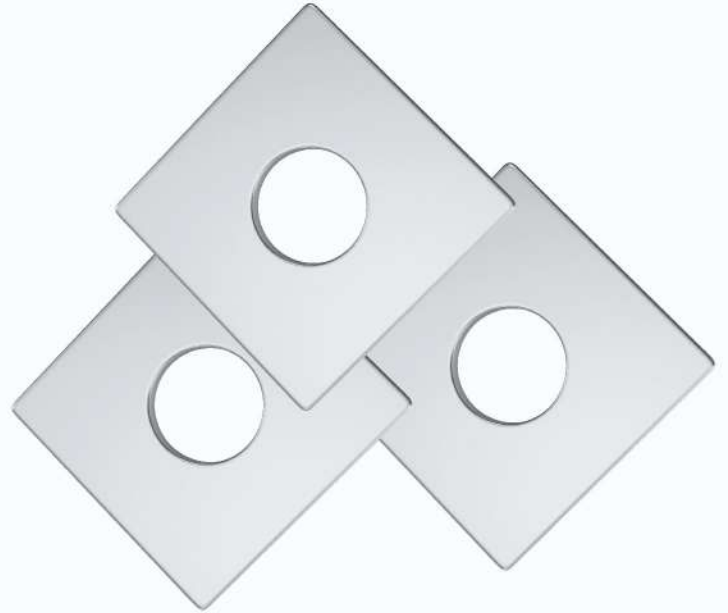
**Rib flat washer**  
**115<sub>gr</sub>**



**Wing nut**  
**170<sub>gr</sub>, 240<sub>gr</sub>**



**Flat washer**



**Square washer**

## Washers

| Product name  | Diameter (mm) | Standard |
|---------------|---------------|----------|
| Flat Washer   | 5-100         | DIN125   |
| Square Washer | 5-100         | DIN436   |



## Peeled & Grind Bar

| Product name | Diameter (mm) | Lenght (mm) | Standard                     | Grade               |
|--------------|---------------|-------------|------------------------------|---------------------|
| Peeled Bar   | 30 - 60       | 1000-6000   | DIN17100<br>DIN17100<br>ASTM | S235<br>st37<br>A36 |
| Grind Bar    | 30 - 100      | 1000-6000   | Gost380<br>Gost380           | st3sp<br>st5sp      |



**Hex Bolt**

**Nuts**



## Hex Bolts & Nuts

| Product name | Dimension (mm)    | Standard  | Grade                 |
|--------------|-------------------|-----------|-----------------------|
| Hex Bolt     | M12-M36           | DIN6914   | 4.8-6.8-8.8-10.9-12.9 |
|              | M8-M60            | DIN931    | 4.8-6.8-8.8-10.9-12.9 |
|              | M8-M60            | DIN933    | 4.8-6.8-8.8-10.9-12.9 |
| Hex Nuts     | M6-M100 (mm)      | DIN934    | 6.8-10-12             |
|              | 1/4 inch - 4 inch | ASTM A194 | 5-6-2H-2Hm-8-16       |



# Chemical Requirements

## Carbon, Alloy Steel and Stainless Steel Nuts for Bolts for High-Pressure and High Temperature Services ASTM Designation A 194

| Grade Symbol | Material                                   | Carbon %   | Manganese % | Phosphorus % | Sulfur %   | Silicon % | Chromium %  | Nickel %    | Molybdenum % | Titanium %              | Columbium & Tantalum %   | Selenium % | Vanadium % | Copper %  | Nitrogen % |
|--------------|--------------------------------------------|------------|-------------|--------------|------------|-----------|-------------|-------------|--------------|-------------------------|--------------------------|------------|------------|-----------|------------|
| 1            | Carbon                                     | 0.15 min.  | 1.00 max.   | 0.040 max.   | 0.050 max. | 0.40 max. |             |             |              |                         |                          |            |            |           |            |
| 2, 2H & 2HM  | Carbon                                     | 0.40 min.  | 1.00 max.   | 0.040 max.   | 0.050 max. | 0.40 max. |             |             |              |                         |                          |            |            |           |            |
| 3            | AlSi 510                                   | 0.10 min.  | 1.00 max.   | 0.040 max.   | 0.030 max. | 1.00 max. | 4.00-6.00   |             | 0.40-0.65    |                         |                          |            |            |           |            |
| 4            | Carbon, Molybdenum                         | 0.40-0.50  | 0.70-0.90   | 0.035 max.   | 0.040 max. | 0.15-0.35 |             |             | 0.20-0.30    |                         |                          |            |            |           |            |
| 6            | AlSi 410                                   | 0.15 max.  | 1.00 max.   | 0.040 max.   | 0.030 max. | 1.00 max. | 11.50-13.50 |             |              |                         |                          |            |            |           |            |
| 6F           | AlSi 416 + sulfur                          | 0.15 max.  | 1.25 max.   | 0.060 max.   | 0.15 min.  | 1.00 max. | 12.00-14.00 |             |              |                         |                          |            |            |           |            |
| 6F           | AlSi 416 + selenium                        | 0.15 max.  | 1.25 max.   | 0.060 max.   | 0.060 max. | 1.00 max. | 12.00-14.00 |             |              |                         |                          | 0.15 min.  |            |           |            |
| 7 & 7M       | AlSi 4140, 4142, 4145, 4140H, 4142H, 4145H | 0.37-0.49  | 0.65-1.00   | 0.040 max.   | 0.040 max. | 0.15-0.35 | 0.75-1.20   |             | 0.15-0.25    |                         |                          |            |            |           |            |
| 8 & 8A       | AlSi 304                                   | 0.08 max.  | 2.00 max.   | 0.045 max.   | 0.030 max. | 1.00 max. | 18.00-20.00 | 8.00-10.50  |              |                         |                          |            |            |           |            |
| 8C & 8CA     | AlSi 347                                   | 0.08 max.  | 2.00 max.   | 0.045 max.   | 0.030 max. | 1.00 max. | 17.00-19.00 | 9.00-13.00  |              |                         | 10 x carbon content min. |            |            |           |            |
| 8F & 8FA     | AlSi 303 + sulfur                          | 0.15 max.  | 2.00 max.   | 0.20 max.    | 0.15 min.  | 1.00 max. | 17.00-19.00 | 8.00-10.00  |              |                         |                          |            |            |           |            |
| 8F & 8FA     | AlSi 303 + selenium                        | 0.15 max.  | 2.00 max.   | 0.20 max.    | 0.060 max. | 1.00 max. | 17.00-19.00 | 8.00-10.00  |              |                         |                          | 0.15 min.  |            |           |            |
| 8M & 8MA     | AlSi 316                                   | 0.08 max.  | 2.00 max.   | 0.045 max.   | 0.030 max. | 1.00 max. | 16.00-18.00 | 10.00-14.00 | 2.00-3.00    |                         |                          |            |            |           |            |
| 8N & 8NA     | AlSi 304N                                  | 0.08 max.  | 2.00 max.   | 0.045 max.   | 0.030 max. | 1.00 max. | 18.00-20.00 | 8.00-10.50  |              |                         |                          |            |            |           | 0.10-0.16  |
| 8P & 8PA     | AlSi 305 + restricted carbon               | 0.08 max.  | 2.00 max.   | 0.045 max.   | 0.030 max. | 1.00 max. | 17.00-19.00 | 10.50-13.00 |              |                         |                          |            |            |           |            |
| 8R & 8RA     | XM19                                       | 0.06 max.  | 4.00-6.00   | 0.040 max.   | 0.030 max. | 1.00 max. | 20.50-23.50 | 11.50-13.50 | 1.50-3.00    |                         | 0.10-0.30                |            | 0.10-0.30  |           | 0.20-0.40  |
| 8S & 8SA     | S21800 + restricted phosphorus             | 0.10 max.  | 7.00-9.00   | 0.040 max.   | 0.040 max. | 3.50-4.50 | 16.00-18.00 | 8.00-9.00   |              |                         |                          |            |            |           | 0.08-0.18  |
| 8T & 8TA     | AlSi 321                                   | 0.08 max.  | 2.00 max.   | 0.045 max.   | 0.030 max. | 1.00 max. | 17.00-19.00 | 9.00-12.00  |              | 5 x carbon content min. |                          |            |            |           |            |
| 8LN & 8LNA   | AlSi 304N + restricted carbon              | 0.030 max. | 2.00 max.   | 0.045 max.   | 0.030 max. | 1.00 max. | 18.00-20.00 | 8.00-10.50  |              |                         |                          |            |            |           | 0.10-0.16  |
| 8MN & 8MNA   | AlSi 316N                                  | 0.08 max.  | 2.00 max.   | 0.045 max.   | 0.030 max. | 1.00 max. | 16.00-18.00 | 10.00-14.00 | 2.00-3.00    |                         |                          |            |            |           | 0.10-0.16  |
| 8MLN & 8MLNA | AlSi 316N + restricted carbon              | 0.030 max. | 2.00 max.   | 0.045 max.   | 0.030 max. | 1.00 max. | 16.00-18.00 | 10.00-14.00 | 2.00-3.00    |                         |                          |            |            |           | 0.10-0.16  |
| 8MLCuN       | S31254                                     | 0.020 max. | 1.00 max.   | 0.030 max.   | 0.010 max. | 0.80 max. | 19.50-20.50 | 17.50-18.50 | 6.00-6.50    |                         |                          |            |            | 0.50-1.00 | 0.18-0.22  |



Manufacturer of steel type Such as: plain bars, wire rod, structural steel, anchors, studs and Concrete formwork & Accessories.

+98 9392020264

info@nikbehdad.com

+98 2146822295

info@kabisteel.com

www.nikbehdad.com

www.kabisteel.com

Iran, Tehran, Qodscity, Kalhor Blvd, Golestan street, No. 51



website



instagram



whatsapp