

# DSR / FE.DSR / OS.DSR



## LOAD ANGLE CHART

$\alpha$  max : 90° /  $\beta$  max : 60°  
L : Load

4:1

| METRIC THREADS                |                        | Torque (Nm) |       |      |       |       |          |           |            |          |           |            |
|-------------------------------|------------------------|-------------|-------|------|-------|-------|----------|-----------|------------|----------|-----------|------------|
| Number of rings               | Lifting angle $\beta$  |             | 1     | 2    | 1     | 2     | 2        | 2         | Asymmetric | 3 → 4    | 3 → 4     | Asymmetric |
|                               | Loading angle $\alpha$ |             | 0°    | 0°   | 90°   | 90°   | 0° → 45° | 45° → 60° |            | 0° → 45° | 45° → 60° |            |
| DSR M 5 UP                    | 3                      | 0,30        | 0,60  | 0,10 | 0,20  | 0,14  | 0,10     | 0,10      | 0,21       | 0,15     | 0,10      |            |
| DSR M 6 UP                    | 4                      | 0,40        | 0,80  | 0,20 | 0,40  | 0,28  | 0,20     | 0,20      | 0,42       | 0,30     | 0,20      |            |
| DSR / FE.DSR M 8 UP           | 6                      | 1,00        | 2,00  | 0,50 | 1,00  | 0,70  | 0,50     | 0,50      | 1,05       | 0,75     | 0,50      |            |
| DSR / FE.DSR / OS.DSR M 10 UP | 10                     | 1,50        | 3,00  | 0,90 | 1,80  | 1,26  | 0,90     | 0,90      | 1,89       | 1,35     | 0,90      |            |
| DSR / FE.DSR / OS.DSR M 12 UP | 15                     | 1,50        | 3,00  | 1,30 | 2,60  | 1,82  | 1,30     | 1,30      | 2,73       | 1,95     | 1,30      |            |
| DSR / FE.DSR M 14 UP          | 30                     | 2,60        | 5,20  | 1,80 | 3,60  | 2,52  | 1,80     | 1,80      | 3,78       | 2,70     | 1,80      |            |
| DSR / FE.DSR / OS.DSR M 16 UP | 50                     | 2,80        | 5,60  | 2,30 | 4,60  | 3,22  | 2,30     | 2,30      | 4,83       | 3,45     | 2,30      |            |
| DSR / FE.DSR M 18 UP          | 70                     | 2,50        | 5,00  | 2,30 | 4,60  | 3,22  | 2,30     | 2,30      | 4,83       | 3,45     | 2,30      |            |
| DSR / FE.DSR M 20 UP 2t5      | 100                    | 2,80        | 5,60  | 2,50 | 5,00  | 3,50  | 2,50     | 2,50      | 5,25       | 3,75     | 2,50      |            |
| DSR / OS.DSR M 20 3t2 UP      | 100                    | 3,20        | 6,40  | 3,20 | 6,40  | 4,48  | 3,20     | 3,20      | 6,72       | 4,80     | 3,20      |            |
| DSR / FE.DSR M 22 UP          | 120                    | 6,00        | 12,00 | 4,50 | 9,00  | 6,30  | 4,50     | 4,50      | 9,45       | 6,75     | 4,50      |            |
| DSR / OS.DSR M 24 UP          | 160                    | 6,50        | 13,00 | 5,50 | 11,00 | 7,70  | 5,50     | 5,50      | 11,55      | 8,25     | 5,50      |            |
| DSR M 27 UP                   | 200                    | 6,50        | 13,00 | 6,00 | 12,00 | 8,40  | 6,00     | 6,00      | 12,60      | 9,00     | 6,00      |            |
| DSR / OS.DSR M 30 6t3 UP      | 250                    | 6,50        | 13,00 | 6,30 | 12,60 | 8,82  | 6,30     | 6,30      | 13,23      | 9,45     | 6,30      |            |
| DSR M 30 8t UP                | 250                    | 9,00        | 18,00 | 8,00 | 16,00 | 11,20 | 8,00     | 8,00      | 16,80      | 12,00    | 8,00      |            |
| DSR M 36 UP                   | 320                    | 10,00       | 20,00 | 8,50 | 17,00 | 11,90 | 8,50     | 8,50      | 17,85      | 12,75    | 8,50      |            |
| DSR M 42 UP                   | 400                    | 10,00       | 20,00 | 9,00 | 18,00 | 12,60 | 9,00     | 9,00      | 18,90      | 13,50    | 9,00      |            |

max. load in t

4:1

| UNC THREADS                    |                        | Torque (ft-lb) |                 |        |        |        |          |           |            |          |           |            |
|--------------------------------|------------------------|----------------|-----------------|--------|--------|--------|----------|-----------|------------|----------|-----------|------------|
| Number of rings                | Lifting angle $\beta$  |                | 1               | 2      | 1      | 2      | 2        | 2         | Asymmetric | 3 > 4    | 3 > 4     | Asymmetric |
|                                | Loading angle $\alpha$ |                | 0°              | 0°     | 90°    | 90°    | 0° → 45° | 45° → 60° |            | 0° → 45° | 45° → 60° |            |
| DSR / FE.DSR U 025 UP          | 3                      | 900            | 1,800           | 450    | 900    | 630    | 450      | 450       | 945        | 675      | 450       |            |
| DSR / FE.DSR U 516 UP          | 5                      | 2,200          | 4,400           | 1,200  | 2,400  | 1,680  | 1,200    | 1,200     | 2,520      | 1,800    | 1,200     |            |
| DSR / FE.DSR / OS.DSR U 038 UP | 8                      | 3,200          | 6,400           | 1,600  | 3,200  | 2,240  | 1,600    | 1,600     | 3,360      | 2,400    | 1,600     |            |
| DSR / FE.DSR / OS.DSR U 050 UP | 12                     | 3,400          | 6,800           | 2,800  | 5,600  | 3,920  | 2,800    | 2,800     | 5,880      | 4,200    | 2,800     |            |
| DSR / FE.DSR / OS.DSR U 058 UP | 40                     | 5,900 / 6,200  | 11,800 / 12,400 | 4,900  | 9,800  | 6,860  | 4,900    | 4,900     | 10,290     | 7,350    | 4,900     |            |
| DSR / FE.DSR / OS.DSR U 075 UP | 80                     | 6,200          | 12,400          | 5,250  | 10,500 | 7,350  | 5,250    | 5,250     | 11,025     | 7,875    | 5,250     |            |
| DSR / FE.DSR U 078 UP          | 90                     | 13,500         | 27,000          | 9,800  | 19,600 | 13,720 | 9,800    | 9,800     | 20,580     | 14,700   | 9,800     |            |
| DSR / OS.DSR U 100 UP          | 125                    | 13,500         | 27,000          | 12,500 | 25,000 | 17,500 | 12,500   | 12,500    | 26,250     | 18,750   | 12,500    |            |
| DSR U 118 UP                   | 160                    | 13,500         | 27,000          | 13,000 | 26,000 | 18,200 | 13,000   | 13,000    | 27,300     | 19,500   | 13,000    |            |
| DSR / OS.DSR U 125 UP          | 200                    | 13,500         | 27,000          | 13,500 | 27,000 | 18,900 | 13,500   | 13,500    | 28,350     | 20,250   | 13,500    |            |

max. load in lbs

# DSR / FE.DSR / OS.DSR



## LOAD ANGLE CHART

$\alpha$  max : 90° /  $\beta$  max : 60°  
L : Load

5:1

| METRIC THREADS                |                       | Torque (Nm) |       |      |       |       |          |           |            |          |           |            |
|-------------------------------|-----------------------|-------------|-------|------|-------|-------|----------|-----------|------------|----------|-----------|------------|
| Number of rings               | Lifting angle $\beta$ |             | 1     | 2    | 1     | 2     | 2        | 2         | Asymmetric | 3 → 4    | 3 → 4     | Asymmetric |
| Loading angle $\alpha$        |                       |             | 0°    | 0°   | 90°   | 90°   | 0° → 45° | 45° → 60° |            | 0° → 45° | 45° → 60° |            |
| DSR M 5 UP                    | 3                     | 0,20        | 0,40  | 0,07 | 0,14  | 0,10  | 0,07     | 0,07      | 0,15       | 0,11     | 0,07      |            |
| DSR M 6 UP                    | 4                     | 0,30        | 0,60  | 0,15 | 0,30  | 0,21  | 0,15     | 0,15      | 0,32       | 0,23     | 0,15      |            |
| DSR / FE.DSR M 8 UP           | 6                     | 0,80        | 1,60  | 0,40 | 0,80  | 0,56  | 0,40     | 0,40      | 0,84       | 0,60     | 0,40      |            |
| DSR / FE.DSR / OS.DSR M 10 UP | 10                    | 1,30        | 2,60  | 0,70 | 1,40  | 0,98  | 0,70     | 0,70      | 1,47       | 1,05     | 0,70      |            |
| DSR / FE.DSR / OS.DSR M 12 UP | 15                    | 1,50        | 3,00  | 1,05 | 2,10  | 1,47  | 1,05     | 1,05      | 2,21       | 1,58     | 1,05      |            |
| DSR / FE.DSR M 14 UP          | 30                    | 2,50        | 5,00  | 1,40 | 2,80  | 1,96  | 1,40     | 1,40      | 2,94       | 2,10     | 1,40      |            |
| DSR / FE.DSR / OS.DSR M 16 UP | 50                    | 2,70        | 5,40  | 2,00 | 4,00  | 2,80  | 2,00     | 2,00      | 4,20       | 3,00     | 2,00      |            |
| DSR / FE.DSR M 18 UP          | 70                    | 2,50        | 5,00  | 2,30 | 4,60  | 3,22  | 2,30     | 2,30      | 4,83       | 3,45     | 2,30      |            |
| DSR / FE.DSR M 20 2t5 UP      | 100                   | 2,80        | 5,60  | 2,50 | 5,00  | 3,50  | 2,50     | 2,50      | 5,25       | 3,75     | 2,50      |            |
| DSR / OS.DSR M 20 3t2 UP      | 100                   | 3,20        | 6,40  | 2,90 | 5,80  | 4,06  | 2,90     | 2,90      | 6,09       | 4,35     | 2,90      |            |
| DSR / FE.DSR M 22 UP          | 120                   | 5,50        | 11,00 | 3,50 | 7,00  | 4,90  | 3,50     | 3,50      | 7,35       | 5,25     | 3,50      |            |
| DSR / OS.DSR M 24 UP          | 160                   | 6,00        | 12,00 | 4,40 | 8,80  | 6,16  | 4,40     | 4,40      | 9,24       | 6,60     | 4,40      |            |
| DSR M 27 UP                   | 200                   | 6,00        | 12,00 | 5,70 | 11,40 | 7,98  | 5,70     | 5,70      | 11,97      | 8,55     | 5,70      |            |
| DSR / OS.DSR M 30 6t3 UP      | 250                   | 6,30        | 12,60 | 6,00 | 12,00 | 8,40  | 6,00     | 6,00      | 12,60      | 9,00     | 6,00      |            |
| DSR M 30 8t UP                | 250                   | 9,00        | 18,00 | 6,70 | 13,40 | 9,38  | 6,70     | 6,70      | 14,07      | 10,05    | 6,70      |            |
| DSR M 36 UP                   | 320                   | 9,00        | 18,00 | 8,00 | 16,00 | 11,20 | 8,00     | 8,00      | 16,80      | 12,00    | 8,00      |            |
| DSR M 42 UP                   | 400                   | 9,50        | 19,00 | 8,50 | 17,00 | 11,90 | 8,50     | 8,50      | 17,85      | 12,75    | 8,50      |            |

max. load in t

5:1

| UNC THREADS                    |                       | Torque (ft-lb) |        |        |        |        |          |           |            |          |           |            |
|--------------------------------|-----------------------|----------------|--------|--------|--------|--------|----------|-----------|------------|----------|-----------|------------|
| Number of rings                | Lifting angle $\beta$ |                | 1      | 2      | 1      | 2      | 2        | 2         | Asymmetric | 3 → 4    | 3 → 4     | Asymmetric |
| Loading angle $\alpha$         |                       |                | 0°     | 0°     | 90°    | 90°    | 0° → 45° | 45° → 60° |            | 0° → 45° | 45° → 60° |            |
| DSR / FE.DSR U 025 UP          | 3                     | 650            | 1,300  | 330    | 660    | 462    | 330      | 330       | 693        | 495      | 330       |            |
| DSR / FE.DSR U 516 UP          | 5                     | 1,800          | 3,600  | 1,000  | 2,000  | 1,400  | 1,000    | 1,000     | 2,100      | 1,500    | 1,000     |            |
| DSR / FE.DSR / OS.DSR U 038 UP | 8                     | 2,500          | 5,000  | 1,300  | 2,600  | 1,820  | 1,300    | 1,300     | 2,730      | 1,950    | 1,300     |            |
| DSR / FE.DSR / OS.DSR U 050 UP | 12                    | 3,000          | 6,000  | 2,400  | 4,800  | 3,360  | 2,400    | 2,400     | 5,040      | 3,600    | 2,400     |            |
| DSR / FE.DSR / OS.DSR U 058 UP | 40                    | 5,900          | 11,800 | 3,900  | 7,800  | 5,460  | 3,900    | 3,900     | 8,190      | 5,850    | 3,900     |            |
| DSR / FE.DSR / OS.DSR U 075 UP | 80                    | 5,900          | 11,800 | 5,250  | 10,500 | 7,350  | 5,250    | 5,250     | 11,025     | 7,875    | 5,250     |            |
| DSR / FE.DSR U 078 UP          | 90                    | 13,500         | 27,000 | 7,900  | 15,800 | 11,060 | 7,900    | 7,900     | 16,590     | 11,850   | 7,900     |            |
| DSR / OS.DSR U 100 UP          | 125                   | 13,500         | 27,000 | 11,200 | 22,400 | 15,680 | 11,200   | 11,200    | 23,520     | 16,800   | 11,200    |            |
| DSR U 118 UP                   | 160                   | 13,500         | 27,000 | 11,500 | 23,000 | 16,100 | 11,500   | 11,500    | 24,150     | 17,250   | 11,500    |            |
| DSR / OS.DSR U 125 UP          | 200                   | 13,500         | 27,000 | 13,500 | 27,000 | 18,900 | 13,500   | 13,500    | 28,350     | 20,250   | 13,500    |            |

max. load in lbs