

## 02 Double Acting Cylinder



### DRW Series

Capacity  
**5-500 ton**

Stroke  
**150-300 mm**

Max Operating pressure  
**700 bar**

#### ● Detailed Dimension Table

| Model No.  | Cylinder Capacity (ton) | Stroke (mm) | Cylinder effective area (cm²) |       | Oil capacity (cc) |        | Retracted Height A(mm) | Extended Height B(mm) | Cylinder Out Dia C(mm) | Cylinder In Dia D(mm) | Piston Rod Dia E(mm) | Head Out Dia F(mm) |     | Head Height G(mm) |     | Base to Port (input) H(mm) | Upper part ~ Reverse port (mm) | Weight (kg) |
|------------|-------------------------|-------------|-------------------------------|-------|-------------------|--------|------------------------|-----------------------|------------------------|-----------------------|----------------------|--------------------|-----|-------------------|-----|----------------------------|--------------------------------|-------------|
|            |                         |             | Push                          | Pull  | Push              | Pull   |                        |                       |                        |                       |                      | A                  | B   | A                 | B   |                            |                                |             |
| DRW-5150   | 5                       | 150         | 7                             | 3.2   | 105               | 48     | 245                    | 395                   | 47                     | 30                    | 22                   | 20                 | 35  | 9                 | 36  | 30                         | 41                             | 3.5         |
| DRW-5300   | 5                       | 300         | 7                             | 3.2   | 175               | 80     | 345                    | 595                   | 47                     | 30                    | 22                   | 20                 | 35  | 9                 | 36  | 30                         | 41                             | 5           |
| DRW-10150  | 10                      | 150         | 15.2                          | 7.2   | 228               | 108    | 269                    | 419                   | 62                     | 44                    | 32                   | 30                 | 50  | 9                 | 45  | 20                         | 50                             | 4           |
| DRW-10300  | 10                      | 300         | 15.2                          | 7.2   | 456               | 216    | 419                    | 719                   | 62                     | 44                    | 32                   | 30                 | 50  | 9                 | 45  | 20                         | 50                             | 9           |
| DRW-20150  | 20                      | 150         | 33.2                          | 17.3  | 498               | 260    | 299                    | 449                   | 93                     | 65                    | 45                   | 42                 | 76  | 12                | 56  | 35                         | 67                             | 15          |
| DRW-20300  | 20                      | 300         | 33.2                          | 17.3  | 996               | 519    | 469                    | 769                   | 93                     | 65                    | 45                   | 42                 | 76  | 12                | 56  | 55                         | 67                             | 24          |
| DRW-30150  | 30                      | 150         | 44.2                          | 16    | 663               | 240    | 322                    | 472                   | 105                    | 75                    | 60                   | 58                 | 88  | 12                | 70  | 35                         | 75                             | 21          |
| DRW-30300  | 30                      | 300         | 44.2                          | 16    | 1,326             | 480    | 498                    | 798                   | 105                    | 75                    | 60                   | 58                 | 88  | 12                | 70  | 61                         | 75                             | 33          |
| DRW-50150  | 50                      | 150         | 70.9                          | 38    | 1,064             | 570    | 322                    | 472                   | 135                    | 95                    | 65                   | 58                 | 117 | 12                | 75  | 40                         | 70                             | 33          |
| DRW-50300  | 50                      | 300         | 70.9                          | 38    | 2,127             | 1,140  | 482                    | 782                   | 135                    | 95                    | 65                   | 58                 | 117 | 12                | 75  | 50                         | 70                             | 52          |
| DRW-100150 | 100                     | 150         | 143.1                         | 64.6  | 2,147             | 969    | 390                    | 540                   | 185                    | 135                   | 100                  | 98                 | 125 | 23                | 73  | 50                         | 95                             | 82          |
| DRW-100300 | 100                     | 300         | 143.1                         | 64.6  | 4,293             | 1,938  | 560                    | 860                   | 185                    | 135                   | 100                  | 98                 | 125 | 23                | 73  | 70                         | 95                             | 112         |
| DRW-200150 | 200                     | 150         | 283.5                         | 140.4 | 4,253             | 2,106  | 385                    | 535                   | 257                    | 190                   | 135                  | 135                | 158 | 30                | 95  | 55                         | 88                             | 132         |
| DRW-200300 | 200                     | 300         | 283.5                         | 140.4 | 8,505             | 2,475  | 595                    | 895                   | 257                    | 190                   | 160                  | 135                | 158 | 30                | 95  | 85                         | 88                             | 212         |
| DRW-300150 | 300                     | 150         | 433.7                         | 193.2 | 6,506             | 2,898  | 450                    | 600                   | 315                    | 235                   | 175                  | 175                | 195 | 30                | 100 | 65                         | 125                            | 150         |
| DRW-300300 | 300                     | 300         | 433.7                         | 193.2 | 13,011            | 5,796  | 650                    | 950                   | 315                    | 235                   | 175                  | 175                | 195 | 30                | 100 | 95                         | 125                            | 380         |
| DRW-500150 | 500                     | 150         | 754.7                         | 263.9 | 22,641            | 7,917  | 760                    | 1060                  | 395                    | 310                   | 250                  | 285                | 285 | 110               | 110 | 110                        | 120                            | 620         |
| DRW-500300 | 500                     | 300         | 754.7                         | 263.9 | 37,735            | 13,195 | 960                    | 1460                  | 395                    | 310                   | 250                  | 285                | 285 | 110               | 110 | 110                        | 120                            | 800         |

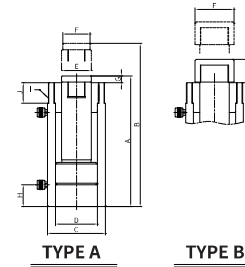
## 02 Double Acting Cylinder

TONNERS

#### ● Feature

- Easy to operate, carry and install
- Manufactured in company's own professional process system
- Can be used in all industry fields
- Used high-strength alloy steel for durability and safety
- Custom bearing and plating process system

#### ● Dimension



\* Processing of upper screw, bottom support or mounting screw pump is available as required

#### ● Top screw dimension table

| Model No.  | Cylinder Capacity (ton)      | Stroke (mm)                   |
|------------|------------------------------|-------------------------------|
|            | Collar thread engagement (T) | Thread engagement length (mm) |
| DRW-5150   | M45x1.5P                     | 25                            |
| DRW-5300   | M45x1.5P                     | 25                            |
| DRW-10150  | M60x2.0P                     | 30                            |
| DRW-10300  | M60x2.0P                     | 30                            |
| DRW-20150  | M85x2.5P                     | 50                            |
| DRW-20300  | M85x2.5P                     | 50                            |
| DRW-30150  | M100x2.5P                    | 55                            |
| DRW-30300  | M100x2.5P                    | 55                            |
| DRW-50150  | M127x2.5P                    | 50                            |
| DRW-50300  | M127x2.5P                    | 50                            |
| DRW-100150 | M180x3.0P                    | 65                            |
| DRW-100300 | M180x3.0P                    | 65                            |
| DRW-200150 | M254x4.0P                    | 65                            |
| DRW-200300 | M254x4.0P                    | 65                            |
| DRW-300150 | M315x4.0P                    | 85                            |
| DRW-300300 | M315x4.0P                    | 85                            |
| DRW-500150 | M395x5.0P                    | 95                            |
| DRW-500300 | M395x5.0P                    | 95                            |

## 03 Short Ram



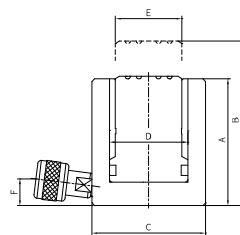
### DSR Series

Capacity  
**10-200 ton**

Stroke  
**20-50 mm**

Spring-return

#### Dimension



#### Feature

- Easy to operate, carry and install
- Manufactured in company's own professional process system
- Can be used in all industry fields
- Used high-strength alloy steel for durability and safety
- Heavy-weight work is available even in **narrow space**

#### Detailed Dimension Table

| Model No. | Cylinder Capacity (ton) | Stroke (mm) | Cylinder effective area (cm <sup>2</sup> ) | Oil capacity (cc) | Retracted Height A(mm) | Extended Height B(mm) | Cylinder Out Dia C(mm) | Cylinder In Dia D(mm) | Piston Rod Dia E(mm) | Base to Port (input) H(mm) | Weight (kg) |
|-----------|-------------------------|-------------|--------------------------------------------|-------------------|------------------------|-----------------------|------------------------|-----------------------|----------------------|----------------------------|-------------|
| DSR-1025  | 10                      | 25          | 15.2                                       | 38                | 78                     | 103                   | 68                     | 44                    | 38                   | 13                         | 2           |
| DSR-1044  | 10                      | 44          | 15.2                                       | 67                | 97                     | 141                   | 68                     | 44                    | 38                   | 13                         | 2.5         |
| DSR-1050  | 10                      | 50          | 15.2                                       | 76                | 103                    | 153                   | 68                     | 44                    | 38                   | 13                         | 2.7         |
| DSR-2025  | 20                      | 25          | 28.3                                       | 71                | 80                     | 105                   | 87                     | 60                    | 51                   | 15                         | 3.7         |
| DSR-2044  | 20                      | 44          | 28.3                                       | 125               | 99                     | 143                   | 87                     | 60                    | 51                   | 15                         | 4.2         |
| DSR-2050  | 20                      | 50          | 28.3                                       | 142               | 105                    | 155                   | 87                     | 60                    | 51                   | 15                         | 4.9         |
| DSR-3025  | 30                      | 25          | 44.2                                       | 111               | 80                     | 105                   | 105                    | 75                    | 65                   | 16                         | 5.5         |
| DSR-3044  | 30                      | 44          | 44.2                                       | 194               | 99                     | 143                   | 105                    | 75                    | 68                   | 16                         | 6           |
| DSR-3050  | 30                      | 50          | 44.2                                       | 221               | 105                    | 155                   | 105                    | 75                    | 68                   | 16                         | 6.5         |
| DSR-5050  | 50                      | 50          | 70.8                                       | 354               | 108                    | 158                   | 128                    | 95                    | 85                   | 16                         | 10          |
| DSR-10050 | 100                     | 50          | 143                                        | 715               | 138                    | 188                   | 185                    | 135                   | 115                  | 25                         | 25          |
| DSR-15050 | 150                     | 50          | 213.8                                      | 1069              | 155                    | 205                   | 218                    | 166                   | 140                  | 30                         | 43          |
| DSR-20050 | 200                     | 50          | 298.6                                      | 1493              | 193                    | 243                   | 247                    | 190                   | 150                  | 50                         | 70          |

## 04 Flat Cylinder

TANNERS



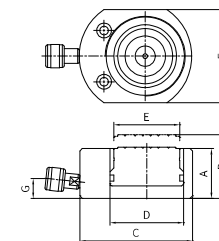
### DJSR Series

Capacity  
**10-100 ton**

Stroke  
**11-15 mm**

Spring-return

#### Dimension



#### Feature

- Easy to operate, carry and install
- Manufactured in company's own professional process system
- Can be used in all industry fields
- Used high-strength alloy steel for durability and safety
- Used for placing machine and **equipment and adjustment of height**
- Heavy-weight work is available even in **narrow space**

#### Detailed Dimension Table

| Model No.  | Cylinder Capacity (ton) | Stroke (mm) | Cylinder effective area (cm <sup>2</sup> ) | Oil capacity (cc) | Retracted Height A(mm) | Extended Height B(mm) | Cylinder Out Dia C(mm) | Cylinder In Dia D(mm) | Piston Rod Dia E(mm) | Vertical length F(mm) | Base to Port (input) H(mm) | Weight (kg) |
|------------|-------------------------|-------------|--------------------------------------------|-------------------|------------------------|-----------------------|------------------------|-----------------------|----------------------|-----------------------|----------------------------|-------------|
| DJSR-1011  | 10                      | 11          | 15.2                                       | 17                | 54                     | 65                    | 82                     | 44                    | 35                   | 60                    | 15                         | 1.8         |
| DJSR-2012  | 20                      | 12          | 28.3                                       | 34                | 52                     | 64                    | 100                    | 60                    | 50                   | 80                    | 16                         | 2.6         |
| DJSR-3013  | 30                      | 13          | 44.2                                       | 57                | 59                     | 72                    | 115                    | 75                    | 64                   | 97                    | 17                         | 4           |
| DJSR-5015  | 50                      | 15          | 70.9                                       | 106               | 66                     | 81                    | 145                    | 95                    | 85                   | 120                   | 20                         | 7.2         |
| DJSR-7515  | 75                      | 15          | 103.8                                      | 156               | 85                     | 100                   | 165                    | 115                   | 85                   | 140                   | 23                         | 10          |
| DJSR-10015 | 100                     | 15          | 143.1                                      | 215               | 85                     | 100                   | 187                    | 135                   | 105                  | 162                   | 25                         | 12          |