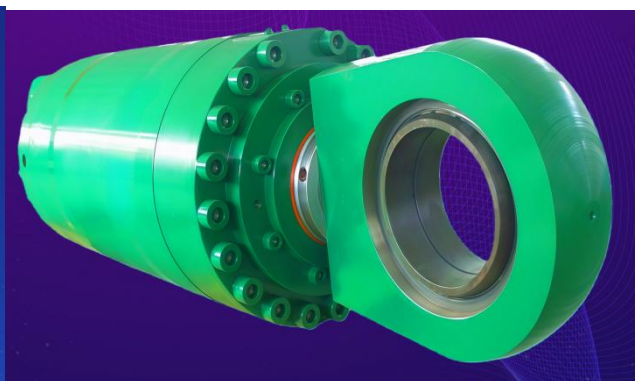
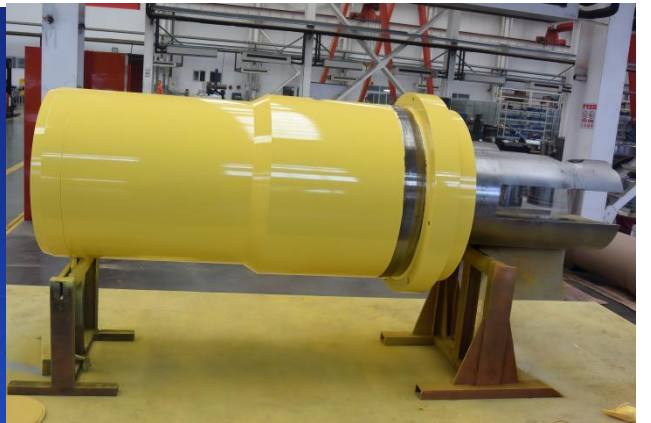
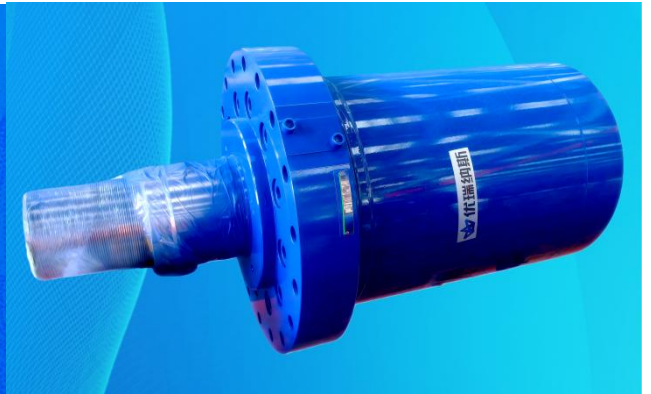
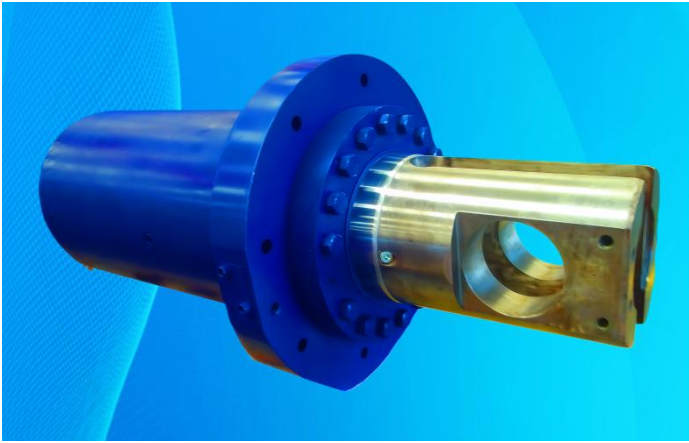


Photo of UY  $\phi$  450-1000 series 25Mpa  
metallurgical and heavy duty machinery hydraulic cylinder















## UY25( $\Phi$ 450-1000)系列冶金及重型机械液压缸

UY25( $\Phi$  450-1000) Series Metallurgical Heavy-Duty Hydraulic Cylinder



URANUS



## Product Performance Introduction

The UY( $\phi$ 450-1000) series 25MPa metallurgical and heavy machinery hydraulic cylinder is a series of products independently developed and designed by our company. This product has a reasonable structure, high safety factor, resistance to pressure impact, mechanical vibration, high reliability, long working life, and excellent cost-effectiveness: it has been highly praised by domestic and foreign users. Since its establishment, the company has provided hundreds of thousands of UY series hydraulic cylinders to domestic and foreign customers in the metallurgical and heavy machinery industries.

Technical parameters:

Work pressure: 25MPa Test pressure: 31.5MPa

Working medium: Mineral oil. If you need media such as ethylene glycol, emulsion, fatty acid ester, phosphate ester, water, etc., please provide Written instructions when placing an order.

Working temperature: normal temperature  $-35\sim 80\text{ }^{\circ}\text{C}$

Working speed: Universal  $\leq 0.5\text{m/s}$

Cylinder diameter: 400~1000, piston rod diameter: 320~700, a total of 10 specifications

Structure type: single rod differential cylinder

Two terminal buffering: Adjustable buffer+quick start check valve(Also serving as an exhaust valve)

Installation methods: rear Clevis type, middle swing type, head swing type, front flange type, rear flange type, Foot Mounting

Rod end connection methods: external thread, rod end earrings

Following customer requirements:

Can provide: working pressure $>25\text{MPa}$ ; Working speed $>5\text{m/s}$ ; Special hydraulic cylinders with ambient temperatures below  $-35\text{ }^{\circ}\text{C}$  and above  $80\text{ }^{\circ}\text{C}$ , dual output constant velocity hydraulic cylinders, proportional servo hydraulic cylinders, and high-frequency vibration hydraulic cylinders with hydrostatic bearings

Various valves and valve blocks can be installed: including servo valves, proportional valves, hydraulic control one-way valves, balance valves, one-way throttle valves, overflow valves, explosion-proof valves, etc.

Various switches can be installed: proximity switch, travel switch, magnetic switch.

Various sensors can be installed, including magnetic field sensors, magnetic ruler sensors, differential transformer sensors, inductive sensors, grating ruler sensors, and other displacement sensors, velocity sensors, pressure sensors, resistance to compression sensors, etc.

Can be equipped with safety and protective devices: hydraulic lock, mechanical lock, accordion type dust cover, sleeve type metal dust cover, heat shield, air-cooled sleeve, stainless steel water jacket, etc.

Special requirements for wear and corrosion resistance: The piston rod and cylinder inner wall can be plated with hard chromium, and the piston rod can be plated with trivalent and hexavalent double-layer chromium. It can be used for dehydrogenation and sealing treatment, and can provide ceramic, stainless steel or tungsten carbide coated piston rods, stainless steel piston rods,

stainless steel cylinder barrels or all stainless steel hydraulic cylinders; All metal components of the hydraulic cylinder can undergo QPQ surface hardening and anti-corrosion

treatment.

UY(Φ450-1000) series 25Mpa metallurgical and heavy duty  
machinery hydraulic cylinder specifications  
and performance parameters

| Bore | rod | Push and pull forces under different work pressuresKN |         |          |         |          |         |          |          |
|------|-----|-------------------------------------------------------|---------|----------|---------|----------|---------|----------|----------|
|      |     | 10MPa                                                 |         | 16MPa    |         | 21MPa    |         | 25MPa    |          |
|      |     | push                                                  | pull    | push     | pull    | push     | pull    | push     | pull     |
| 450  | 320 | 1590.43                                               | 786.18  | 2544.69  | 1257.89 | 3339.9   | 1650.98 | 3976.08  | 1965.45  |
| 500  | 360 | 1963.5                                                | 945.62  | 3141.6   | 1513.0  | 4123.35  | 1985.8  | 4908.75  | 2364.06  |
| 550  | 390 | 2375.83                                               | 1181.24 | 3801.33  | 1889.98 | 4989.24  | 2480.6  | 5939.58  | 2953.1   |
| 600  | 420 | 2827.43                                               | 1441.99 | 4523.89  | 2307.18 | 5937.6   | 3028.18 | 7068.58  | 3604.98  |
| 650  | 460 | 3318.31                                               | 1656.41 | 5309.3   | 2650.26 | 6968.45  | 3478.46 | 8295.78  | 4141.03  |
| 700  | 500 | 3848.45                                               | 1884.95 | 6157.52  | 3015.92 | 8081.75  | 3958.4  | 9621.13  | 4712.38  |
| 750  | 530 | 4417.86                                               | 2211.68 | 7068.58  | 3538.69 | 9277.51  | 4644.53 | 11044.65 | 5529.2   |
| 800  | 560 | 5026.55                                               | 2563.54 | 8042.48  | 4101.66 | 10555.76 | 5383.43 | 12566.38 | 6408.85  |
| 900  | 630 | 6361.73                                               | 3244.68 | 10178.77 | 5191.49 | 13359.63 | 6813.83 | 15904.33 | 8111.7   |
| 1000 | 700 | 7853.98                                               | 4005.53 | 12566.37 | 6408.85 | 16493.36 | 8411.61 | 19634.95 | 10013.83 |

Selection Example for UY25(450-1000) Series Metallurgical Heavy-Duty Hydraulic Cylinder

UY25(450-1000) Series Metallurgical Heavy-Duty Hydraulic Cylinder  
Rated Pressure-----25MPa

Mounting Style

Basic Type-----BS  
Foot Mounted-----JG  
Head Trunnion Mounted-----TB  
Rear Flange Mounted-----WF  
Center Pivot Mounted-----ZB  
Head Flange Mounted (Rear)-----TFB  
Head Flange Mounted (Front)-----TFQ  
Rear Clevis Mounted with Joint Bearing-----WEJ  
Rear Clevis Mounted with Bushing-----WEP

Piston Rod End Connection

Metric Thread-----H  
Clevis with Joint Bearing-----F  
Clevis with Bushing-----Q  
Special Connection Type-----T

UY25   WF   F   500 / 340-500   T

Select Cushioning Type

Adjustable Cushion-----T  
Fixed Cushion-----J  
Not Marked-----Not Marked

Stroke -----mm

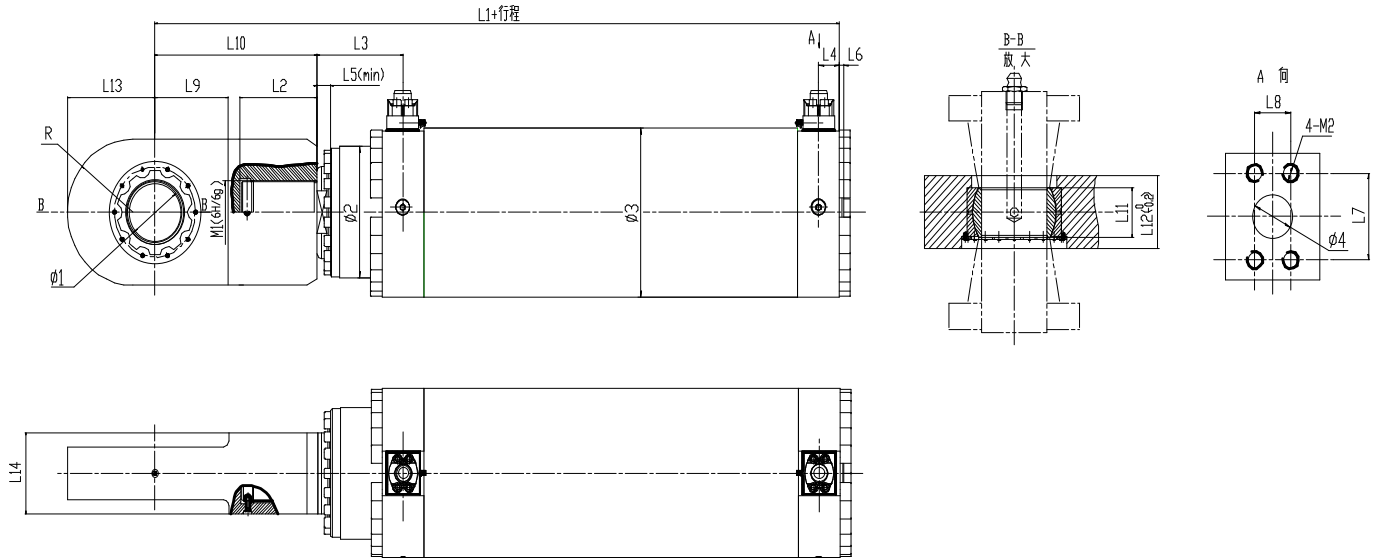
Rod -----mm

Bore -----mm

Selection Example: Bore: 500, Rod Diameter: 340, Stroke: 500, Mounting Style: Rear Flange Mounted, Piston Rod End with Clevis and Joint Bearing, requires adjustable cushioning.

## Basic Dimensions for Basic Type (BS) Cylinder

L1+行程 (L1+ Stroke)



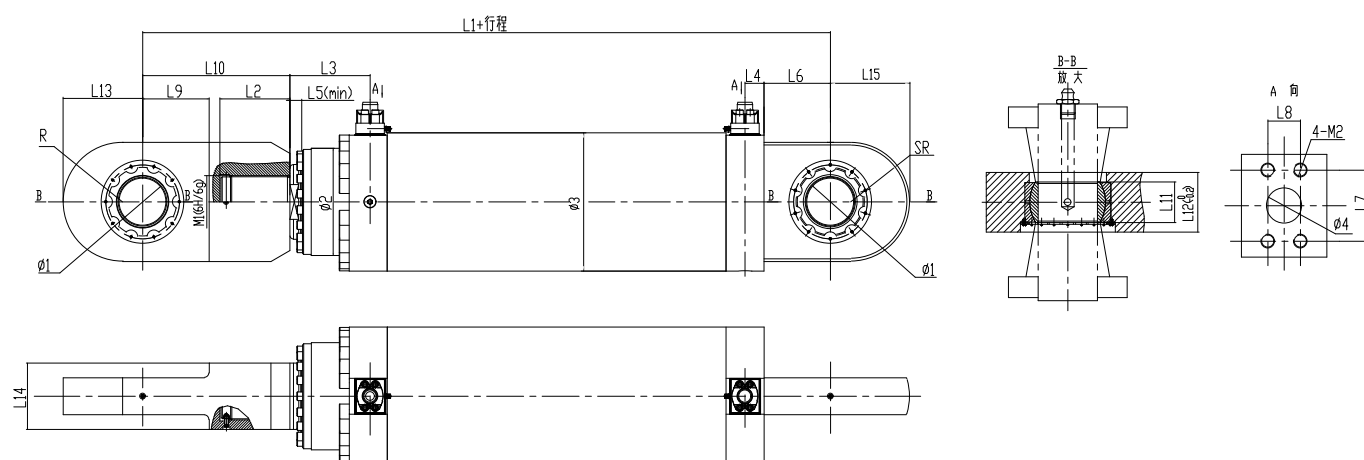
## Main Cylinder Dimensions

| Bore | Rod     | Ø1  | Ø2  | Ø3   | Ø4 | R   | M1     | M2     |
|------|---------|-----|-----|------|----|-----|--------|--------|
| 450  | 280/320 | 200 | 450 | 580  | 40 | 250 | M200×4 | M16×50 |
| 500  | 320/360 | 220 | 500 | 640  | 40 | 280 | M220×4 | M16×50 |
| 550  | 360/390 | 240 | 550 | 690  | 40 | 300 | M250×4 | M16×50 |
| 600  | 390/420 | 260 | 600 | 760  | 40 | 330 | M280×4 | M16×50 |
| 650  | 420/460 | 280 | 650 | 810  | 50 | 350 | M310×4 | M20×60 |
| 700  | 460/500 | 300 | 700 | 870  | 50 | 370 | M350×4 | M20×60 |
| 750  | 500/530 | 320 | 750 | 920  | 50 | 400 | M370×4 | M20×60 |
| 800  | 530/560 | 340 | 800 | 1000 | 50 | 430 | M400×4 | M20×60 |
| 900  | 560/630 | 380 | 900 | 1100 | 50 | 500 | M440×4 | M20×60 |
| 1000 | 630/700 | 420 | 970 | 1200 | 50 | 550 | M480×4 | M20×60 |

| Bore | Rod     | L1   | L2  | L3  | L4  | L5  | L6 | L7   | L8   | L9  | L10  | L11 | L12 | L13 | L14 |
|------|---------|------|-----|-----|-----|-----|----|------|------|-----|------|-----|-----|-----|-----|
| 450  | 280/320 | 1617 | 295 | 338 | 80  | 55  | 15 | 36.5 | 79.4 | 280 | 620  | 130 | 155 | 335 | 280 |
| 500  | 320/360 | 1745 | 325 | 375 | 80  | 60  | 15 | 36.5 | 79.4 | 320 | 700  | 135 | 165 | 365 | 320 |
| 550  | 360/390 | 1955 | 345 | 425 | 90  | 75  | 15 | 36.5 | 79.4 | 370 | 780  | 140 | 170 | 385 | 350 |
| 600  | 390/420 | 2120 | 365 | 470 | 90  | 90  | 15 | 36.5 | 79.4 | 420 | 860  | 150 | 180 | 420 | 400 |
| 650  | 420/460 | 2273 | 395 | 505 | 90  | 110 | 15 | 44.5 | 96.8 | 480 | 950  | 155 | 185 | 480 | 430 |
| 700  | 460/500 | 2455 | 415 | 545 | 95  | 120 | 15 | 44.5 | 96.8 | 540 | 1040 | 165 | 195 | 540 | 450 |
| 750  | 500/530 | 2605 | 435 | 568 | 95  | 125 | 15 | 44.5 | 96.8 | 600 | 1130 | 230 | 280 | 600 | 480 |
| 800  | 530/560 | 2845 | 460 | 630 | 105 | 150 | 20 | 44.5 | 96.8 | 650 | 1210 | 243 | 300 | 650 | 500 |
| 900  | 560/630 | 3055 | 500 | 700 | 105 | 175 | 20 | 44.5 | 96.8 | 700 | 1300 | 272 | 340 | 700 | 600 |
| 1000 | 630/700 | 3245 | 530 | 775 | 105 | 200 | 20 | 44.5 | 96.8 | 750 | 1390 | 300 | 400 | 750 | 650 |

# ● Basic Dimensions for Rear Clevis Mounted with Joint Bearing (WEJ) Cylinder

- L1+行程 (L1+Stroke)



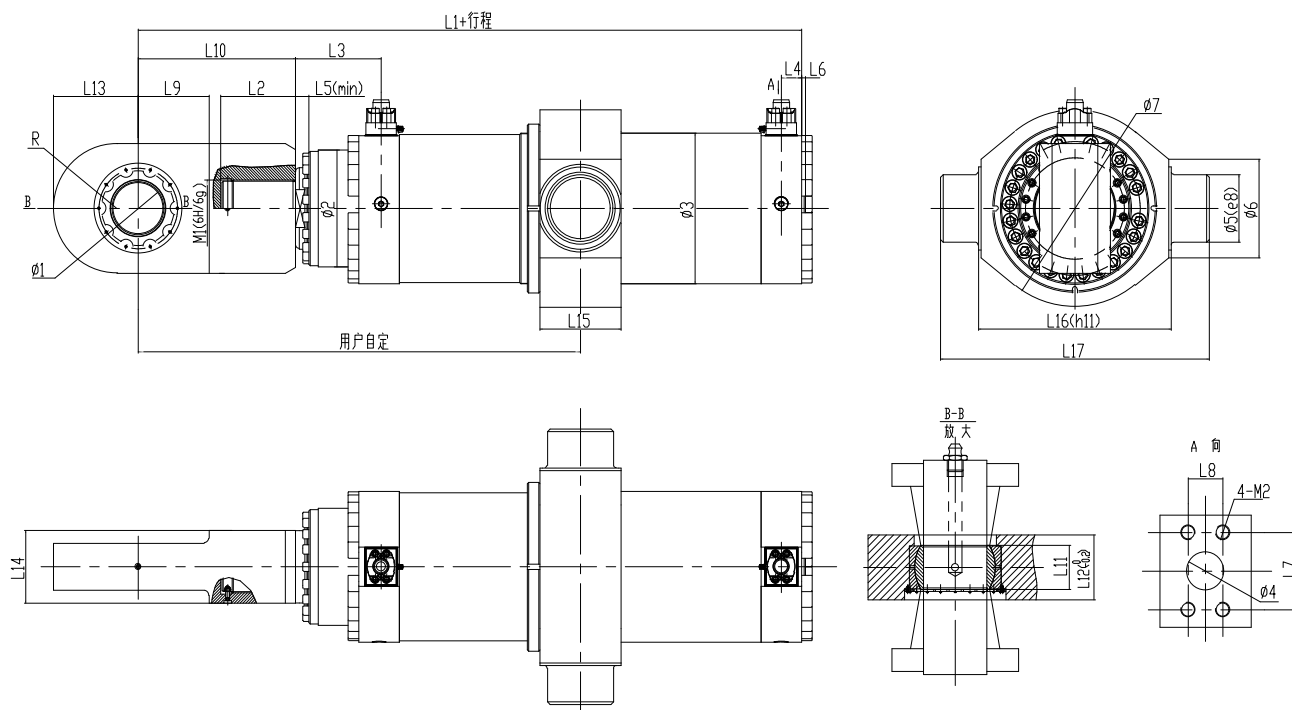
## Main Cylinder Dimensions

| D    | d       | Ø1  | Ø2  | Ø3   | Ø4 | R   | SR  | M1     | M2     | L1   | L2  | L3  |
|------|---------|-----|-----|------|----|-----|-----|--------|--------|------|-----|-----|
| 450  | 280/320 | 200 | 450 | 580  | 40 | 250 | 250 | M200×4 | M16×50 | 1897 | 295 | 338 |
| 500  | 320/360 | 220 | 500 | 640  | 40 | 280 | 280 | M220×4 | M16×50 | 2065 | 325 | 375 |
| 550  | 360/390 | 240 | 550 | 690  | 40 | 300 | 275 | M250×4 | M16×50 | 2326 | 345 | 425 |
| 600  | 390/420 | 260 | 600 | 760  | 40 | 330 | 290 | M280×4 | M16×50 | 2540 | 365 | 470 |
| 650  | 420/460 | 280 | 650 | 810  | 50 | 350 | 320 | M310×4 | M20×60 | 2753 | 395 | 505 |
| 700  | 460/500 | 300 | 700 | 870  | 50 | 370 | 330 | M350×4 | M20×60 | 2995 | 415 | 545 |
| 750  | 500/530 | 320 | 750 | 920  | 50 | 400 | 360 | M370×4 | M20×60 | 3205 | 435 | 568 |
| 900  | 560/630 | 380 | 900 | 1100 | 50 | 500 | 450 | M440×4 | M20×60 | 3755 | 500 | 700 |
| 1000 | 630/700 | 420 | 970 | 1200 | 50 | 550 | 500 | M480×4 | M20×60 | 3995 | 530 | 775 |

| D    | d       | L4  | L5  | L6  | L7   | L8   | L9  | L10  | L11 | L12 | L13 | L14 | L15 |
|------|---------|-----|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----|
| 450  | 280/320 | 80  | 55  | 280 | 36.5 | 79.4 | 280 | 620  | 130 | 155 | 335 | 280 | 300 |
| 500  | 320/360 | 80  | 60  | 320 | 36.5 | 79.4 | 320 | 700  | 135 | 165 | 365 | 320 | 330 |
| 550  | 360/390 | 90  | 75  | 370 | 36.5 | 79.4 | 370 | 780  | 140 | 170 | 385 | 350 | 335 |
| 600  | 390/420 | 90  | 100 | 420 | 36.5 | 79.4 | 420 | 860  | 150 | 180 | 420 | 400 | 360 |
| 650  | 420/460 | 90  | 110 | 480 | 44.5 | 96.8 | 480 | 950  | 155 | 185 | 480 | 430 | 400 |
| 700  | 460/500 | 95  | 120 | 540 | 44.5 | 96.8 | 540 | 1040 | 165 | 195 | 540 | 450 | 420 |
| 750  | 500/530 | 95  | 125 | 600 | 44.5 | 96.8 | 600 | 1130 | 230 | 280 | 600 | 480 | 450 |
| 800  | 530/560 | 105 | 150 | 650 | 44.5 | 96.8 | 650 | 1210 | 243 | 300 | 650 | 500 | 500 |
| 900  | 560/630 | 105 | 175 | 700 | 44.5 | 96.8 | 700 | 1300 | 272 | 340 | 700 | 600 | 600 |
| 1000 | 630/700 | 105 | 200 | 750 | 44.5 | 96.8 | 750 | 1390 | 300 | 400 | 750 | 650 | 650 |

### Basic Dimensions for Center Pivot Mounted (ZB) Cylinder

L1+行程(L1+ Stroke) 用户自定 (It' s up to you)



## Main Cylinder Dimensions

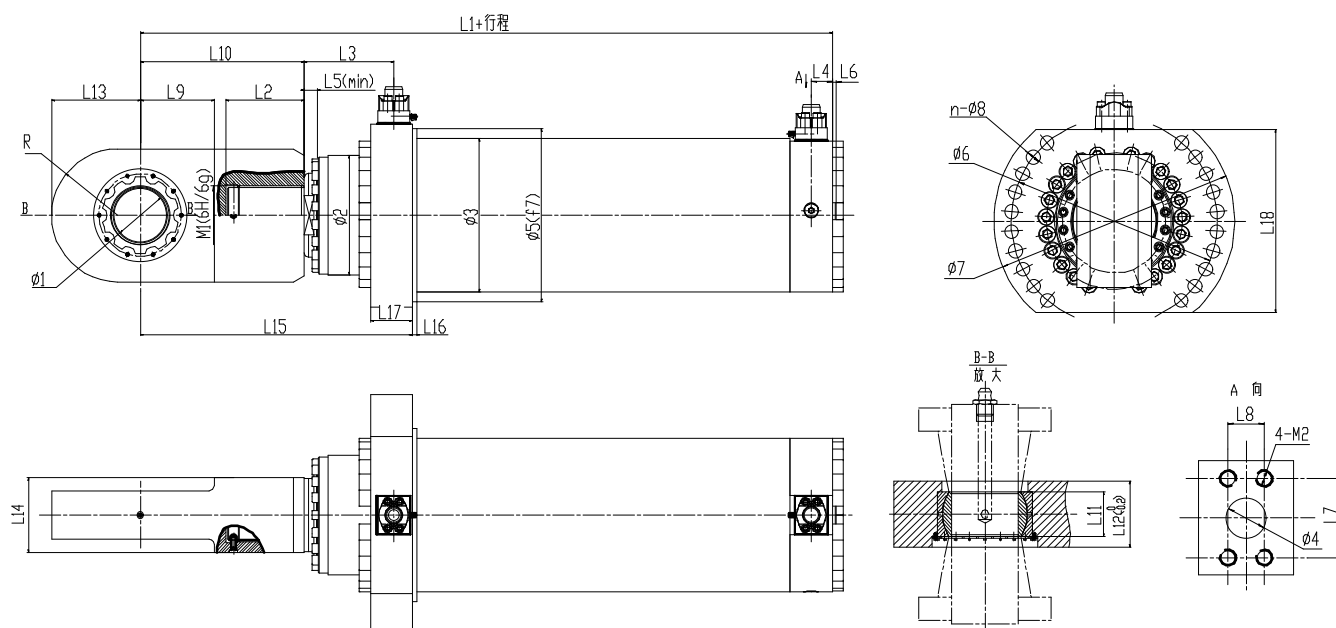
| D    | d       | Ø1  | Ø2  | Ø3   | Ø4 | Ø5  | Ø6  | Ø7   | R   | M1     | M2     | L1   | L2  | L3  |
|------|---------|-----|-----|------|----|-----|-----|------|-----|--------|--------|------|-----|-----|
| 450  | 280/320 | 200 | 450 | 580  | 40 | 260 | 320 | 760  | 250 | M200×4 | M16×50 | 1617 | 295 | 338 |
| 500  | 320/360 | 220 | 500 | 640  | 40 | 280 | 350 | 820  | 280 | M220×4 | M16×50 | 1745 | 325 | 375 |
| 550  | 360/390 | 240 | 550 | 690  | 40 | 300 | 400 | 880  | 300 | M250×4 | M16×50 | 1956 | 345 | 425 |
| 600  | 390/420 | 260 | 600 | 760  | 40 | 300 | 420 | 960  | 330 | M280×4 | M16×50 | 2120 | 365 | 470 |
| 650  | 420/460 | 280 | 650 | 810  | 50 | 340 | 450 | 1040 | 350 | M310×4 | M20×60 | 2273 | 395 | 505 |
| 700  | 460/500 | 300 | 700 | 870  | 50 | 360 | 480 | 1120 | 370 | M350×4 | M20×60 | 2455 | 415 | 545 |
| 750  | 500/530 | 320 | 750 | 920  | 50 | 360 | 500 | 1180 | 400 | M370×4 | M20×60 | 2605 | 435 | 568 |
| 800  | 530/560 | 340 | 800 | 1000 | 50 | 400 | 550 | 1250 | 430 | M400×4 | M20×60 | 2845 | 460 | 630 |
| 900  | 560/630 | 380 | 900 | 1100 | 50 | 460 | 600 | 1320 | 500 | M440×4 | M20×60 | 3055 | 500 | 700 |
| 1000 | 630/700 | 420 | 970 | 1200 | 50 | 560 | 650 | 1400 | 550 | M480×4 | M20×60 | 3245 | 530 | 775 |

| D    | d       | L4  | L5  | L6 | L7   | L8   | L9  | L10  | L11 | L12 | L13 | L14 | L15 | L16  | L17  |
|------|---------|-----|-----|----|------|------|-----|------|-----|-----|-----|-----|-----|------|------|
| 450  | 280/320 | 80  | 55  | 15 | 36.5 | 79.4 | 280 | 620  | 130 | 155 | 335 | 280 | 305 | 760  | 1060 |
| 500  | 320/360 | 80  | 60  | 15 | 36.5 | 79.4 | 320 | 700  | 135 | 165 | 365 | 320 | 330 | 820  | 1120 |
| 550  | 360/390 | 90  | 75  | 15 | 36.5 | 79.4 | 370 | 780  | 140 | 170 | 385 | 350 | 375 | 880  | 1180 |
| 600  | 390/420 | 90  | 100 | 15 | 36.5 | 79.4 | 420 | 860  | 150 | 180 | 420 | 400 | 400 | 960  | 1380 |
| 650  | 420/460 | 90  | 110 | 15 | 44.5 | 96.8 | 480 | 950  | 155 | 185 | 480 | 430 | 420 | 1040 | 1480 |
| 700  | 460/500 | 95  | 120 | 15 | 44.5 | 96.8 | 540 | 1040 | 165 | 195 | 540 | 450 | 450 | 1120 | 1600 |
| 750  | 500/530 | 95  | 125 | 15 | 44.5 | 96.8 | 600 | 1130 | 230 | 280 | 600 | 480 | 465 | 1180 | 1700 |
| 800  | 530/560 | 105 | 150 | 20 | 44.5 | 96.8 | 650 | 1210 | 243 | 300 | 650 | 500 | 510 | 1250 | 1850 |
| 900  | 560/630 | 105 | 175 | 20 | 44.5 | 96.8 | 700 | 1300 | 272 | 340 | 700 | 600 | 555 | 1320 | 1940 |
| 1000 | 630/700 | 105 | 200 | 20 | 44.5 | 96.8 | 750 | 1390 | 300 | 400 | 750 | 650 | 600 | 1400 | 2080 |

| D    | d       | L5  | L6 | L7   | L8   | L9  | L10  | L11 | L12 | L13 | L14 | L15 | L16    | L17  | L18  |
|------|---------|-----|----|------|------|-----|------|-----|-----|-----|-----|-----|--------|------|------|
| 450  | 280/320 | 55  | 15 | 36.5 | 79.4 | 280 | 620  | 130 | 155 | 335 | 280 | 305 | 887.5  | 760  | 1060 |
| 500  | 320/360 | 60  | 15 | 36.5 | 79.4 | 320 | 700  | 135 | 165 | 365 | 320 | 330 | 990    | 820  | 1120 |
| 550  | 360/390 | 75  | 15 | 36.5 | 79.4 | 370 | 780  | 140 | 170 | 385 | 350 | 375 | 1107.5 | 880  | 1180 |
| 600  | 390/420 | 90  | 15 | 36.5 | 79.4 | 420 | 860  | 150 | 180 | 420 | 400 | 400 | 1220   | 960  | 1380 |
| 650  | 420/460 | 110 | 15 | 44.5 | 96.8 | 480 | 950  | 155 | 185 | 480 | 430 | 420 | 1335   | 1040 | 1480 |
| 700  | 460/500 | 120 | 15 | 44.5 | 96.8 | 540 | 1040 | 165 | 195 | 540 | 450 | 450 | 1460   | 1120 | 1600 |
| 750  | 500/530 | 125 | 15 | 44.5 | 96.8 | 600 | 1130 | 230 | 280 | 600 | 480 | 465 | 1560   | 1180 | 1700 |
| 800  | 530/560 | 150 | 20 | 44.5 | 96.8 | 650 | 1210 | 243 | 300 | 650 | 500 | 510 | 1705   | 1250 | 1850 |
| 900  | 560/630 | 175 | 20 | 44.5 | 96.8 | 700 | 1300 | 272 | 340 | 700 | 600 | 555 | 1830   | 1320 | 1940 |
| 1000 | 630/700 | 200 | 20 | 44.5 | 96.8 | 750 | 1390 | 300 | 400 | 750 | 650 | 600 | 1960   | 1400 | 2080 |

## Basic Dimensions for Head Flange Mounted (Rear) (TFB) Cylinder

L1+行程 (L1+ Stroke)



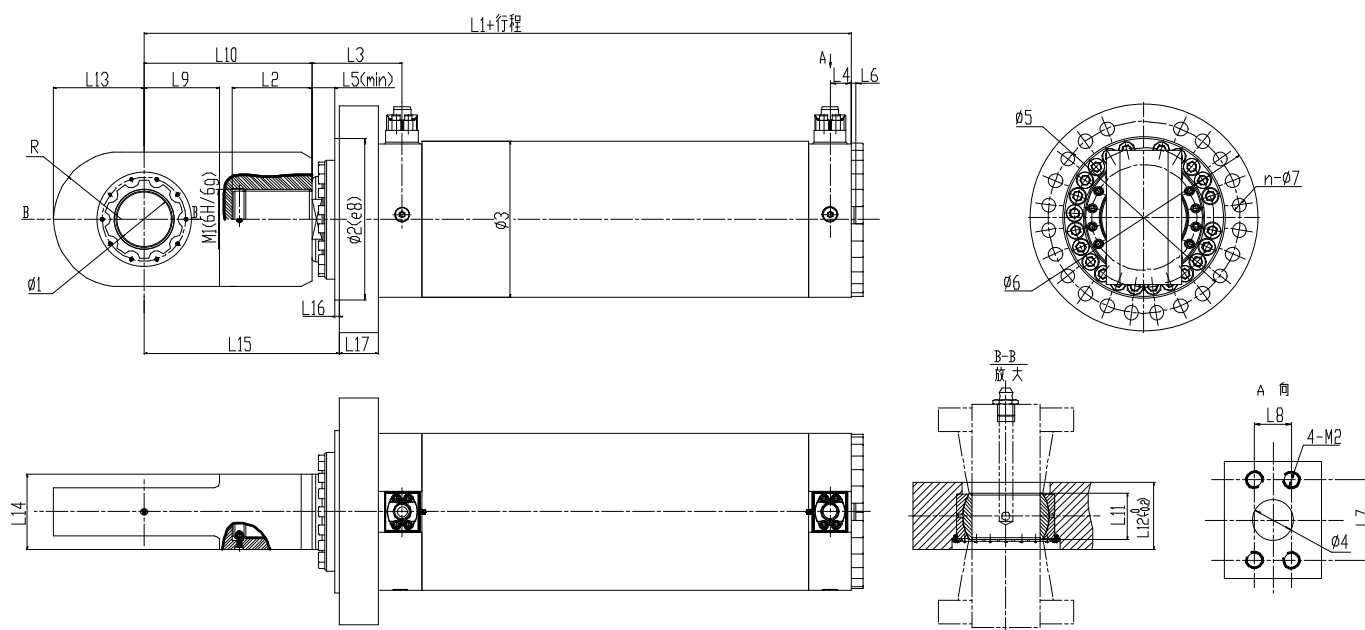
## Main Cylinder Dimensions

| D    | d       | Ø1  | Ø2  | Ø3   | Ø4 | Ø5   | Ø6   | Ø7   | Ø8 | n  | R   | M1     | M2     | L1   | L2  |
|------|---------|-----|-----|------|----|------|------|------|----|----|-----|--------|--------|------|-----|
| 450  | 280/320 | 200 | 450 | 580  | 40 | 650  | 780  | 910  | 52 | 20 | 250 | M200×4 | M16×50 | 1617 | 295 |
| 500  | 320/360 | 220 | 500 | 640  | 40 | 710  | 840  | 970  | 52 | 20 | 280 | M220×4 | M16×50 | 1745 | 325 |
| 550  | 360/390 | 240 | 550 | 690  | 40 | 790  | 920  | 1050 | 60 | 20 | 300 | M250×4 | M16×50 | 1956 | 345 |
| 600  | 390/420 | 260 | 600 | 760  | 40 | 850  | 980  | 1110 | 60 | 20 | 330 | M280×4 | M16×50 | 2120 | 365 |
| 650  | 420/460 | 280 | 650 | 810  | 50 | 880  | 990  | 1120 | 60 | 24 | 350 | M310×4 | M20×60 | 2273 | 395 |
| 700  | 460/500 | 300 | 700 | 870  | 50 | 960  | 1140 | 1300 | 60 | 24 | 370 | M350×4 | M20×60 | 2455 | 415 |
| 750  | 500/530 | 320 | 750 | 920  | 50 | 1005 | 1200 | 1360 | 60 | 28 | 400 | M370×4 | M20×60 | 2605 | 435 |
| 800  | 530/560 | 340 | 800 | 1000 | 50 | 1070 | 1280 | 1460 | 68 | 24 | 430 | M400×4 | M20×60 | 2845 | 460 |
| 900  | 560/630 | 380 | 900 | 1100 | 50 | 1190 | 1340 | 1520 | 68 | 28 | 500 | M440×4 | M20×60 | 3055 | 500 |
| 1000 | 630/700 | 420 | 970 | 1200 | 50 | 1280 | 1400 | 1600 | 68 | 34 | 550 | M480×4 | M20×60 | 3245 | 530 |

| D    | d       | L3  | L4  | L5  | L6 | L7   | L8   | L9  | L10  | L11 | L12 | L13 | L14 | L15  | L16 | L17 | L18  |
|------|---------|-----|-----|-----|----|------|------|-----|------|-----|-----|-----|-----|------|-----|-----|------|
| 450  | 280/320 | 338 | 80  | 55  | 15 | 36.5 | 79.4 | 280 | 620  | 130 | 155 | 335 | 280 | 1030 | 15  | 160 | 690  |
| 500  | 320/360 | 375 | 80  | 60  | 15 | 36.5 | 79.4 | 320 | 700  | 135 | 165 | 365 | 320 | 1160 | 15  | 160 | 760  |
| 550  | 360/390 | 425 | 90  | 75  | 15 | 36.5 | 79.4 | 370 | 780  | 140 | 170 | 385 | 350 | 1295 | 15  | 180 | 850  |
| 600  | 390/420 | 470 | 90  | 100 | 15 | 36.5 | 79.4 | 420 | 860  | 150 | 180 | 420 | 400 | 1420 | 15  | 180 | 900  |
| 650  | 420/460 | 505 | 90  | 110 | 15 | 44.5 | 96.8 | 480 | 950  | 155 | 185 | 480 | 430 | 1530 | 15  | 180 | 920  |
| 700  | 460/500 | 545 | 95  | 120 | 15 | 44.5 | 96.8 | 540 | 1040 | 165 | 195 | 540 | 450 | 1690 | 15  | 200 | 1040 |
| 750  | 500/530 | 568 | 95  | 125 | 15 | 44.5 | 96.8 | 600 | 1130 | 230 | 280 | 600 | 480 | 1795 | 15  | 200 | 1090 |
| 800  | 530/560 | 630 | 105 | 150 | 20 | 44.5 | 96.8 | 650 | 1210 | 243 | 300 | 650 | 500 | 1945 | 20  | 210 | 1170 |
| 900  | 560/630 | 700 | 105 | 175 | 20 | 44.5 | 96.8 | 700 | 1300 | 272 | 340 | 700 | 600 | 2110 | 20  | 210 | 1280 |
| 1000 | 630/700 | 775 | 105 | 200 | 20 | 44.5 | 96.8 | 750 | 1390 | 300 | 400 | 750 | 650 | 2270 | 20  | 210 | 1400 |

## Basic Dimensions for Head Flange Mounted (Front) (TFF) Cylinder

L1+行程 (L1+ Stroke)



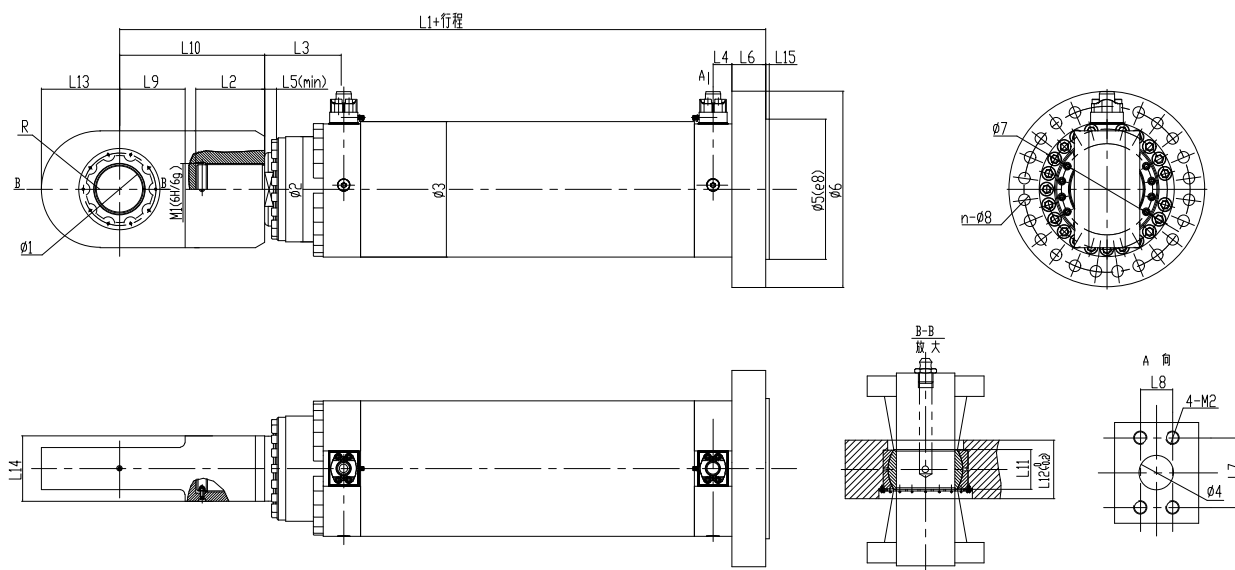
## Main Cylinder Dimensions

| D    | d       | Ø1  | Ø2   | Ø3   | Ø4 | Ø5   | Ø6   | Ø7 | n  | R   | M1     | M2     | L1   | L2  | L3  |
|------|---------|-----|------|------|----|------|------|----|----|-----|--------|--------|------|-----|-----|
| 450  | 280/320 | 200 | 600  | 580  | 40 | 720  | 840  | 52 | 22 | 250 | M200×4 | M16×50 | 1617 | 295 | 338 |
| 500  | 320/360 | 220 | 660  | 640  | 40 | 780  | 900  | 52 | 22 | 280 | M220×4 | M16×50 | 1745 | 325 | 375 |
| 550  | 360/390 | 240 | 720  | 690  | 40 | 845  | 970  | 60 | 28 | 300 | M250×4 | M16×50 | 1956 | 345 | 425 |
| 600  | 390/420 | 260 | 780  | 760  | 40 | 910  | 1040 | 60 | 28 | 330 | M280×4 | M16×50 | 2120 | 365 | 470 |
| 650  | 420/460 | 280 | 840  | 810  | 50 | 980  | 1120 | 60 | 28 | 350 | M310×4 | M20×60 | 2273 | 395 | 505 |
| 700  | 460/500 | 300 | 900  | 870  | 50 | 1050 | 1200 | 60 | 28 | 370 | M350×4 | M20×60 | 2455 | 415 | 545 |
| 750  | 500/530 | 320 | 960  | 920  | 50 | 1120 | 1280 | 60 | 30 | 400 | M370×4 | M20×60 | 2605 | 435 | 568 |
| 800  | 530/560 | 340 | 1040 | 1000 | 50 | 1210 | 1380 | 68 | 30 | 430 | M400×4 | M20×60 | 2845 | 460 | 630 |
| 900  | 560/630 | 380 | 1140 | 1100 | 50 | 1300 | 1460 | 68 | 30 | 500 | M440×4 | M20×60 | 3055 | 500 | 700 |
| 1000 | 630/700 | 420 | 1240 | 1200 | 50 | 1400 | 1560 | 68 | 34 | 550 | M480×4 | M20×60 | 3245 | 530 | 775 |

| D    | d       | L4  | L5  | L6 | L7   | L8   | L9  | L10  | L11 | L12 | L13 | L14 | L15  | L16 | L17 |
|------|---------|-----|-----|----|------|------|-----|------|-----|-----|-----|-----|------|-----|-----|
| 450  | 280/320 | 80  | 55  | 15 | 36.5 | 79.4 | 280 | 620  | 130 | 155 | 335 | 280 | 725  | 15  | 145 |
| 500  | 320/360 | 80  | 60  | 15 | 36.5 | 79.4 | 320 | 700  | 135 | 165 | 365 | 320 | 826  | 15  | 170 |
| 550  | 360/390 | 90  | 75  | 15 | 36.5 | 79.4 | 370 | 780  | 140 | 170 | 385 | 350 | 920  | 15  | 195 |
| 600  | 390/420 | 90  | 100 | 15 | 36.5 | 79.4 | 420 | 860  | 150 | 180 | 420 | 400 | 1020 | 15  | 220 |
| 650  | 420/460 | 90  | 110 | 15 | 44.5 | 96.8 | 480 | 950  | 155 | 185 | 480 | 430 | 1130 | 15  | 240 |
| 700  | 460/500 | 95  | 120 | 15 | 44.5 | 96.8 | 540 | 1040 | 165 | 195 | 540 | 450 | 1229 | 15  | 255 |
| 750  | 500/530 | 95  | 125 | 15 | 44.5 | 96.8 | 600 | 1130 | 230 | 280 | 600 | 480 | 1321 | 15  | 280 |
| 800  | 530/560 | 105 | 150 | 20 | 44.5 | 96.8 | 650 | 1210 | 243 | 300 | 650 | 500 | 1436 | 20  | 300 |
| 900  | 560/630 | 105 | 175 | 20 | 44.5 | 96.8 | 700 | 1300 | 272 | 340 | 700 | 600 | 1550 | 20  | 345 |
| 1000 | 630/700 | 105 | 200 | 20 | 44.5 | 96.8 | 750 | 1390 | 300 | 400 | 750 | 650 | 1675 | 20  | 390 |

## Basic Dimensions for Rear Flange Mounted (WF) Cylinder

L1+行程 (L1+ Stroke)



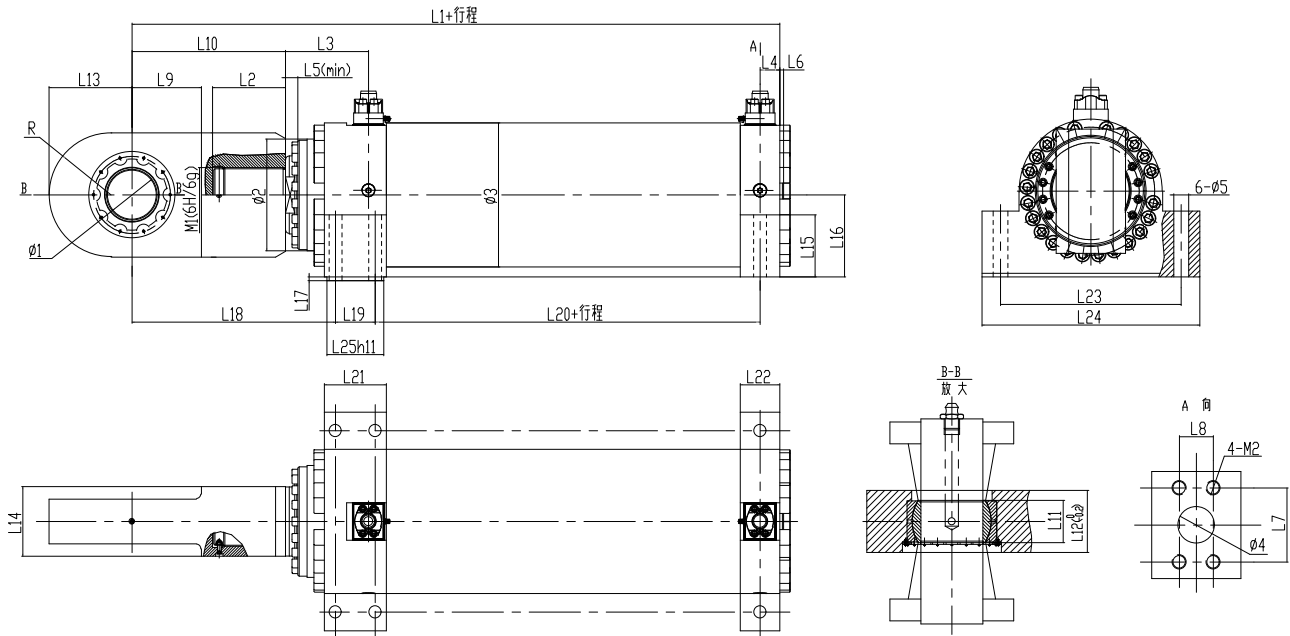
## Main Cylinder Dimensions

| D    | d       | Ø1  | Ø2  | Ø3   | Ø4 | Ø5   | Ø6   | Ø7   | Ø8 | n  | R   | M1     | M2     | L1   |
|------|---------|-----|-----|------|----|------|------|------|----|----|-----|--------|--------|------|
| 450  | 280/320 | 200 | 450 | 580  | 40 | 600  | 840  | 720  | 52 | 22 | 250 | M200×4 | M16×50 | 1762 |
| 500  | 320/360 | 220 | 500 | 640  | 40 | 660  | 900  | 780  | 52 | 22 | 280 | M220×4 | M16×50 | 1915 |
| 550  | 360/390 | 240 | 550 | 690  | 40 | 720  | 970  | 845  | 60 | 28 | 300 | M250×4 | M16×50 | 2151 |
| 600  | 390/420 | 260 | 600 | 760  | 40 | 780  | 1040 | 910  | 60 | 28 | 330 | M280×4 | M16×50 | 2340 |
| 650  | 420/460 | 280 | 650 | 810  | 50 | 840  | 1120 | 980  | 60 | 28 | 350 | M310×4 | M20×60 | 2513 |
| 700  | 460/500 | 300 | 700 | 870  | 50 | 900  | 1200 | 1050 | 60 | 28 | 370 | M350×4 | M20×60 | 2710 |
| 750  | 500/530 | 320 | 750 | 920  | 50 | 960  | 1280 | 1120 | 60 | 30 | 400 | M370×4 | M20×60 | 2885 |
| 800  | 530/560 | 340 | 800 | 1000 | 50 | 1040 | 1380 | 1210 | 68 | 30 | 430 | M400×4 | M20×60 | 3145 |
| 900  | 560/630 | 380 | 900 | 1100 | 50 | 1140 | 1460 | 1300 | 68 | 30 | 500 | M440×4 | M20×60 | 3400 |
| 1000 | 630/700 | 420 | 970 | 1200 | 50 | 1240 | 1560 | 1400 | 68 | 34 | 550 | M480×4 | M20×60 | 3635 |

| D    | d       | L2  | L3  | L4  | L5  | L6  | L7   | L8   | L9  | L10  | L11 | L12 | L13 | L14 | L15 |
|------|---------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----|
| 450  | 280/320 | 295 | 338 | 80  | 55  | 145 | 36.5 | 79.4 | 280 | 620  | 130 | 155 | 335 | 280 | 15  |
| 500  | 320/360 | 325 | 375 | 80  | 60  | 170 | 36.5 | 79.4 | 320 | 700  | 135 | 165 | 365 | 320 | 15  |
| 550  | 360/390 | 345 | 425 | 90  | 75  | 195 | 36.5 | 79.4 | 370 | 780  | 140 | 170 | 385 | 350 | 15  |
| 600  | 390/420 | 365 | 470 | 90  | 100 | 220 | 36.5 | 79.4 | 420 | 860  | 150 | 180 | 420 | 400 | 15  |
| 650  | 420/460 | 395 | 505 | 90  | 110 | 240 | 44.5 | 96.8 | 480 | 950  | 155 | 185 | 480 | 430 | 15  |
| 700  | 460/500 | 415 | 545 | 95  | 120 | 255 | 44.5 | 96.8 | 540 | 1040 | 165 | 195 | 540 | 450 | 15  |
| 750  | 500/530 | 435 | 568 | 95  | 125 | 280 | 44.5 | 96.8 | 600 | 1130 | 230 | 280 | 600 | 480 | 15  |
| 800  | 530/560 | 460 | 630 | 105 | 150 | 300 | 44.5 | 96.8 | 650 | 1210 | 243 | 300 | 650 | 500 | 20  |
| 900  | 560/630 | 500 | 700 | 105 | 175 | 345 | 44.5 | 96.8 | 700 | 1300 | 272 | 340 | 700 | 600 | 20  |
| 1000 | 630/700 | 530 | 775 | 105 | 200 | 390 | 44.5 | 96.8 | 750 | 1390 | 300 | 400 | 750 | 650 | 20  |

## Basic Dimensions for Foot Mounted (JG) Cylinder

L1+行程 (L1+ Stroke) L20+行程 (L20+ Stroke)



| D    | d       | Ø1  | Ø2  | Ø3   | Ø4 | Ø5 | R   | M1     | M2     | L1   | L2  | L3  | L4  | L5  | L6 | L7   |
|------|---------|-----|-----|------|----|----|-----|--------|--------|------|-----|-----|-----|-----|----|------|
| 450  | 280/320 | 200 | 450 | 580  | 40 | 52 | 250 | M200×4 | M16×50 | 1617 | 295 | 338 | 80  | 55  | 15 | 36.5 |
| 500  | 320/360 | 220 | 500 | 640  | 40 | 52 | 280 | M220×4 | M16×50 | 1745 | 325 | 375 | 80  | 60  | 15 | 36.5 |
| 550  | 360/390 | 240 | 550 | 690  | 40 | 52 | 300 | M250×4 | M16×50 | 1956 | 345 | 425 | 90  | 75  | 15 | 36.5 |
| 600  | 390/420 | 260 | 600 | 760  | 40 | 60 | 330 | M280×4 | M16×50 | 2120 | 365 | 470 | 90  | 90  | 15 | 36.5 |
| 650  | 420/460 | 280 | 650 | 810  | 50 | 60 | 350 | M310×4 | M20×60 | 2273 | 395 | 505 | 90  | 110 | 15 | 44.5 |
| 700  | 460/500 | 300 | 700 | 870  | 50 | 60 | 370 | M350×4 | M20×60 | 2455 | 415 | 545 | 95  | 120 | 15 | 44.5 |
| 750  | 500/530 | 320 | 750 | 920  | 50 | 60 | 400 | M370×4 | M20×60 | 2605 | 435 | 568 | 95  | 125 | 15 | 44.5 |
| 800  | 530/560 | 340 | 800 | 1000 | 50 | 68 | 430 | M400×4 | M20×60 | 2845 | 460 | 630 | 105 | 150 | 20 | 44.5 |
| 900  | 560/630 | 380 | 900 | 1100 | 50 | 68 | 500 | M440×4 | M20×60 | 3055 | 500 | 700 | 105 | 175 | 20 | 44.5 |
| 1000 | 630/700 | 420 | 970 | 1200 | 50 | 68 | 550 | M480×4 | M20×60 | 3245 | 530 | 775 | 105 | 200 | 20 | 44.5 |

| D    | d       | L8   | L9  | L10  | L11 | L12 | L13 | L14 | L15 | L16 | L17 | L18  | L19 | L20 | L21 | L22 | L23  | L24  | L25 |
|------|---------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|------|-----|
| 450  | 280/320 | 79.4 | 280 | 620  | 130 | 155 | 335 | 280 | 250 | 330 | 15  | 825  | 160 | 550 | 250 | 160 | 730  | 880  | 230 |
| 500  | 320/360 | 79.4 | 320 | 700  | 135 | 165 | 365 | 320 | 270 | 360 | 15  | 940  | 170 | 555 | 260 | 160 | 790  | 940  | 240 |
| 550  | 360/390 | 79.4 | 370 | 780  | 140 | 170 | 385 | 350 | 280 | 405 | 15  | 1060 | 190 | 600 | 280 | 180 | 870  | 1030 | 260 |
| 600  | 390/420 | 79.4 | 420 | 860  | 150 | 180 | 420 | 400 | 340 | 430 | 20  | 1135 | 230 | 665 | 340 | 180 | 920  | 1080 | 310 |
| 650  | 420/460 | 96.8 | 480 | 950  | 155 | 185 | 480 | 430 | 350 | 465 | 20  | 1260 | 230 | 695 | 340 | 180 | 970  | 1130 | 310 |
| 700  | 460/500 | 96.8 | 540 | 1040 | 165 | 195 | 540 | 450 | 360 | 490 | 20  | 1390 | 240 | 730 | 350 | 190 | 1045 | 1220 | 320 |
| 750  | 500/530 | 96.8 | 600 | 1130 | 230 | 280 | 600 | 480 | 410 | 520 | 20  | 1500 | 240 | 770 | 350 | 190 | 1115 | 1265 | 320 |
| 800  | 530/560 | 96.8 | 650 | 1210 | 243 | 300 | 650 | 500 | 440 | 550 | 25  | 1645 | 250 | 845 | 380 | 210 | 1165 | 1330 | 340 |
| 900  | 560/630 | 96.8 | 700 | 1300 | 272 | 340 | 700 | 600 | 460 | 600 | 25  | 1770 | 270 | 910 | 400 | 210 | 1270 | 1440 | 360 |
| 1000 | 630/700 | 96.8 | 750 | 1390 | 300 | 400 | 750 | 650 | 480 | 650 | 25  | 1995 | 290 | 650 | 420 | 210 | 1340 | 1480 | 380 |