**ML-CM.B**

**Extra large through-hole rotary hydraulic cylinder**

* Matching for large bore power chucks.
* Special aluminum alloy steel body, light weight for reducing the spindle loading.
* Within check valves to maintain the thrust force.
* Extra large bore design, equipped with coolant collector and detective plate.
* The proximity switches and mounting bolts are extra option.





UNIT : mm

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SPECModel | PistonDia.(mm) | Piston Area(cm2)Push Side / Pull Side | Max. Draw Bar ForceKN(kgf)Push Side / Pull Side | PistonStroke(mm) | Max.OperatingPressureMPa(kgf / cm2) | Max.Speed(r.p.m.) | MomentOf Inertia I(kg‧m2 ) | Weight(kg) | TotalLeakageL/min |
| ML2814CM28B | 285 | 394 / 350 | 116.8(11910) / 106.8(10584) | 42 | 3.3(33.6) | 2000 | 1.08 | 87 | 11 |
| ML2816CM28B | 285 | 394 / 350 | 116.8(11910) / 106.8(10584) | 42 | 3.3(33.6) | 2000 | 0.90 | 72 | 11 |
| ML3320CM33B | 335 | 515.7 / 416.9 | 152.9(15591) / 136.9(13960) | 42 | 3.3(33.6) | 1600 | 1.09 | 103 | 14 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DIMModel | C | D | E(H6) | G | H | J | L | R | T | U | Vmax. | Vmin. | Wmax. | Wmin. | A1 | B1 | F1 | M1 |
| ML2814CM28B | 335 | 280 | 240 | 190 | M158x3.0 | 145 | 140 | 382 | 260 | 279 | 41 | -1 | 67 | 25 | 18 | 202 | M16x32L | 150 |
| ML2816CM28B | 335 | 280 | 240 | 190 | M180x3.0 | 166.5 | 140 | 382 | 260 | 279 | 41 | -1 | 67 | 25 | 18 | 202 | M16x32L | 170 |
| ML3320CM33B | 390 | 320 | 240 | 230 | M215x3.0 | 205 | 147 | 392 | 260 | 292 | 41 | -1 | 67 | 25 | 18 | 210 | M20x32L | 210 |