6.6. Nomenclature for Power Screws

| Symbol | Description | Unit |
|---------------|---|---------|
| D_{mc} | Mean diameter of the collar | m |
| D_{ms} | Mean diameter of the screw | m |
| D_c | Core (root) diameter of the screw | m |
| D_{o} | Nominal (outside) diameter of the screw | m |
| 1 | Lead distance (axial movement for one rotation) | m |
| L | Length of lever arm | m |
| n | Number of threads | - |
| p | Screw pitch | m |
| P | Lever arm load | N |
| T | Screw torque | Nm |
| T_0 | Ideal screw torque (no friction) | Nm |
| W | Load to be lifted | N |
| | | |
| η | Efficiency | - |
| ф | Screw thread friction angle | degrees |
| $\mu_{\rm c}$ | Coefficient of friction of collar bearing | - |
| $\mu_{\rm s}$ | Coefficient of friction of screw thread | - |
| θ | Angle of thread/helix angle | degrees |