

## DIE SPRING FEATURES AND BENEFITS

Raymond Die Springs Offer	Features	Benefits
<p>Superior Materials &amp; Wire Profiles</p>	<ul style="list-style-type: none"> <li>• All Raymond die springs are made from high tensile strength chromium alloy steels.</li> <li>• Optimal wire cross section.</li> <li>• Spring ends are ground square.</li> <li>• Other raw materials are available for special conditions and environments.</li> </ul>	<ul style="list-style-type: none"> <li>• Inherent toughness to withstand heavy load demands.</li> <li>• Superior performance in high stress applications.</li> <li>• Heat resistance up to 230°C.</li> <li>• Readily available, cost efficient raw material.</li> <li>• Consistent controlled metallurgy.</li> <li>• Offers maximum design possibilities.</li> <li>• Wire cross section provides optimum deflection and protection against failure due to excessive stress build-up.</li> <li>• Square ends create reliable, flat, maximum load-bearing surface.</li> <li>• Specialty materials available to meet customer requirements.</li> </ul>
<p>Dimensional Consistency</p>	<ul style="list-style-type: none"> <li>• Dimensional requirements remain consistent and measurably the same from one batch of springs to the next.</li> </ul>	<ul style="list-style-type: none"> <li>• Provides uniform spring performance.</li> <li>• Ensures consistent rate recordings.</li> <li>• Greater load accuracy at a given test height.</li> <li>• Certainty that OD will work freely in prescribed hole and ID will work freely over prescribed rod.</li> <li>• Raymond assurance of the highest production and quality standards.</li> <li>• Reliable performance engineered into every Raymond die spring.</li> </ul>
<p>Longer Spring Life</p>	<ul style="list-style-type: none"> <li>• Engineered to better withstand shock loading.</li> <li>• Designed to endure constant high-speed deflections.</li> <li>• Shot-peened to increase fatigue life.</li> <li>• Less downtime.</li> </ul>	<ul style="list-style-type: none"> <li>• Reliable, trouble-free performance.</li> <li>• Increased fatigue life by as much as 30%.</li> <li>• Reduced spring breakage.</li> <li>• Uniform performance over a longer lifetime.</li> <li>• More cost effective.</li> <li>• Extra performance margins.</li> </ul>
<p>Excellent Deflection</p>	<ul style="list-style-type: none"> <li>• Springs provide greater available travel to solid.</li> </ul>	<ul style="list-style-type: none"> <li>• More travel in each spring.</li> <li>• Higher load capacities.</li> <li>• Increased fatigue life.</li> <li>• Greater application flexibility.</li> <li>• More reliable performance.</li> <li>• Lower solid height.</li> </ul>