



DIE CASTING vs OTHER PROCESSES

Compared with					
Nine points of comparison	stampings	forgings	sand castings	permanent mold castings	plastic molding
custom die castings give you					
1 cost	lower machining	lower final	lower production and machining	lower labor, production and machining	generally higher
2 design flexibility	more complex shapes	more complex shapes	thinner wall sections possible	thinner wall sections possible, less draft required	much greater
3 functional versatility	better designs possible	more versatile with less machining	more versatile with less machining	more versatile with less machining	many more uses
4 tolerances	closer	closer	closer	closer	closer
5 wall thickness	greater variations	thinner sections	thinner sections	thinner sections	thinner sections for same strength
6 surface finish	wider variety	smoother	smoother	smoother	wider variety
7 material waste	less	less	less	less	same
8 strength	depends on design	lower tensile	greater with same alloy	greater with same alloy	much greater
9 weight	depends on design	lighter	lighter	less	more