WESTERN INDUSTRIES PLASTIC PRODUCTS, LLC

LEADERS IN CONTRACT BLOW MOLDING SINCE 1986

Our Core manufacturing capabilities have established us as a leader in large-part blow molding, and we continue to expand our range of expertise with sophisticated, state-of-the-art secondary equipment.

Blow Molding is the fastest most cost-effective plastic molding process when production volume reaches 3,000 + parts per year. With an increasing focus on light weighting and sustainability, it's no wonder why engineers across the globe in nearly every industry have turned an eye towards blow molding for their production needs.

Blow Molding can offer great benefits vs other processes. Those include, a faster production rate and tighter tolerances than Roto-Molding. Much more conducive to production of mid to higher volumes. Vastly improved design capabilities than thermoforming. Part shape, complexity, and size are rarely an issue. Far lower tooling costs than injection molding.

BLOW MOLDING		
VERSUS		
ROTOMOLDING		
DI OW	POTO	

BLOW MOLDING VERSUS INJECTION

BLOW INIECTION

BLOW MOLDING VERSITS

BLOW	ROTO
LOW THINNER WALLS MEANS A LIGHTER PART	HIGH THICKER WALLS MEANS A HEAVIER PART
LOW PARISON RESULTS IN PARTING LINE INTEGRITY	HIGH LOOSE MATERIAL MELTED IN-MOLD RESULTS IN VOIDS
LOW MACHINE INVESTMENT AND MAINTANANCE IS LOWER	HIGH MOLD MUST BE REFURBISHED OR REPLACED
LOW CYCLE TIME IS OFTEN LESS THAN ONE MINUTE	HIGH CYCLE TIME IS OFTEN MORE THAN 30 MINUTES
LOW PIECE PRICE IS 30% LOWER AT A 3,000-PIECE BREAK POINT	HIGH PIECE PRICE IS 30% HIGHER AT A 3,000-PIECE BREAK POINT

BLOW	INJECTION
LOW ELEMINATION OF THE NEED FOR TWO-PART MOLD COMPONENTS	HIGH MUST METICULOUSLY CREATE TWO-HALVE CAVITY MOLD THAT MUCT LINE UP PERFECTLY
LOW LOWER INITIAL MACHINE INVESTMENT	HIGH COSTS IN INJECTION MOLD BUILDS ARE HIGHER
LOW MACHINERY AND TOOLING COSTS ARE TYPICALLY LOWER	HIGH MOLD MUST BE REBURBISHED OR REPLACED
HIGH HAS VASTLY IMPROVED DESIGN CAPABILITIES	LOW DESIGN IS LIMITIED SINCE THERE ARE TWO-HALVES
HIGH HIGHER PRODUCTION COSTS	LOW LOWER PRODUCTION COSTS

THERMOFORMING		
BLOW	THERMO	
LOW EXTRUDED RESINS ALLOW FOR THINNER WALS AND A LIGHTER PART	HIGH STARTING WITH A SHEET MEANS HEAVIER GAUGE AND POSSIBLY A HEAVIER PART	
LOW CYCLE TIME IS OFTEN LESS THAN A MINUTE	HIGH CYCLE TIMES VARY CONSIDERABLY DEPENDING ON DWELL OF PART	
LOW FASTER CYCLES AND GREATER AUTOMATION ALLOWS FOR MUCH LESS EXPENSIVE PART	HIGH LONGER CYCLE TIMES AND TYPICALLY FAR GREATER SECONDARY REQUIREMENTS ADD EXPENSE	
LOW CONSISTENT AND FIRST GENERATION USE OF REGRIND ELIMINATED ADDED COSTS	HIGH SHEET TEMPLATES FREQUENTLY ADD SCRAP USAGE AND ADD TO COSTS	
LOW POTENTIAL OF COMPARABLE DESIGN AS TWO-UP PRODUCTION LOWERS COSTS	HIGH FOR LARGER PARTS, PLATEN SIZE MAY LIMIT TO 1-UP PRODUCTION FOR	

COMPARABLE DESIGN



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