



# ***UR SERIES RECIPROCATING SCREW***

***BLOW MOLDING SPECIFICATIONS***

**UNILOY®**



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## BLOW MOLDING SPECIFICATIONS

Based on size of Extruder, Bottle Dim's., Type & No. of Heads

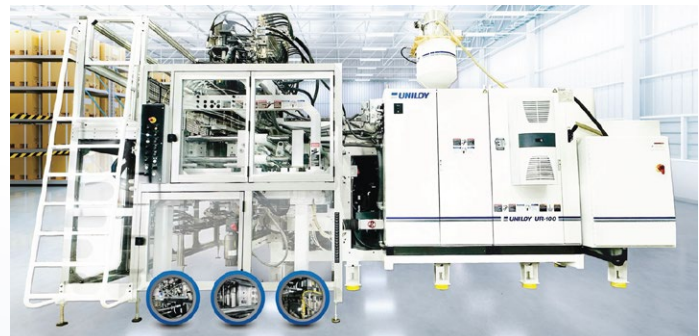
| EXTRUDER                                     |  | UR90                              | UR100                               |
|----------------------------------------------|--|-----------------------------------|-------------------------------------|
| Standard drive horsepower                    |  | 100-125                           | 125-200                             |
| Standard shot size                           |  | 1200 grams                        | 1900 grams                          |
| Throughput<br>lbs/hours/kgs/hours (L/D 24.1) |  | 750/850 lbs/hours<br>340 kgs/hour | 1000/1200 lbs/hours<br>454 kgs/hour |
| UTILITIES                                    |  | UR90                              | UR100                               |
| Electricity                                  |  | 160 KW                            | 227 KW                              |
| Chilled Water Requirement                    |  | 20-30T @ 45°F                     | 25-40T @ 45°F                       |
| Max Air Requirement                          |  | 96 CFM @ 100 PSI                  | 160 CFM @ 100 PSI                   |

| CLAMP SIZES WIDTH X HEIGHT                               | UR90 | UR100 | MINIMUM SHUT HEIGHT | MAXIMUM SHUT HEIGHT | MAXIMUM [XXXX] | NUMBER OF ROTACS |
|----------------------------------------------------------|------|-------|---------------------|---------------------|----------------|------------------|
| 48x15" Single - Shift / Non Shift<br>1219x381 mm         | •    | •     | 6.0" / 152 mm       | 13.5" / 342 mm      | 11.8" / 299 mm | 2                |
| 48x21" Single - Shift / Non Shift<br>1219x533 mm         | •    | •     | 6.0" / 152 mm       | 13.5" / 342 mm      | 11.8" / 299 mm | 2                |
| 56x12" Single - Non Shift<br>1219x381 mm                 | •    | •     | 6.0" / 152 mm       | 12.0" / 304 mm      | 11.8" / 299 mm | 2                |
| 56x15" Single - Non Shift<br>1219x533 mm                 | •    | •     | 6.0" / 152 mm       | 13.5" / 342 mm      | 11.8" / 299 mm | 2                |
| 56x21" Single - Non Shift<br>1219x381 mm                 | •    | •     | 6.0" / 152 mm       | 13.5" / 342 mm      | 11.8" / 299 mm | 2                |
| 28.5x15 Double - Shift / Non Shift<br>1219x381 mm        | •    | •     | 6.0" / 152 mm       | 13.5" / 342 mm      | 11.8" / 299 mm | 2                |
| 28.5x21" Double - Shift<br>1219x533 mm                   | •    | •     | 6.0" / 152 mm       | 13.5" / 342 mm      | 11.8" / 299 mm | 2                |
| 30x27" Single - Non Shift (PP & PC Heads)<br>1219x381 mm | •    | •     | 11.0" / 279 mm      | 18.0" / 457 mm      | 14.6" / 370 mm | 2                |
| 36x15" Double - Shift / Non Shift<br>1219x533 mm         | •    | •     | 6.0" / 152 mm       | 13.5" / 342 mm      | 11.8" / 299 mm | 2                |
| 36x21" Double - Shift / Non Shift<br>1219x533 mm         | •    | •     | 6.0" / 152 mm       | 13.5" / 342 mm      | 11.8" / 299 mm | 2                |
| 48x21" Single SS-Extended Stroke<br>1219x533 mm          |      | •     | 12.0" / 304 mm      | 24.0" / 609 mm      | 20.0" / 508 mm | 2                |
| 48x15" Double - Shift / Non Shift<br>1219x533 mm         | •    | •     | 6.0" / 152 mm       | 13.5" / 342 mm      | 11.8" / 299 mm | 4                |

### Notes:

1. Periodic design improvements may alter specifications
2. All dimensions and weights are subject to change without notice
3. Consult factory for exact dimensions for a specific machine
4. Other configurations are available upon request





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| UR90-UR100<br>SPACING OF HEADS | 1                          | 2            | 3             | 4             | 5 | 6                                            | 8              | 10             | 12             | 16             | 20             |
|--------------------------------|----------------------------|--------------|---------------|---------------|---|----------------------------------------------|----------------|----------------|----------------|----------------|----------------|
| 30x27" Single<br>762x685 mm    | PP Side Fed/<br>PC Top Fed |              |               |               |   |                                              |                |                |                |                |                |
| 48x15" Single<br>1219x381 mm   |                            |              | 16"<br>406 mm | 12"<br>304 mm |   | 8.0"<br>203 mm                               | 6.0"<br>152 mm |                |                |                |                |
| 48x21" Single<br>1219x533 mm   |                            | 24"<br>609mm | 16"<br>406 mm | 12"<br>304 mm |   | 8.0"<br>203 mm                               |                |                |                |                |                |
| 56x12" Single<br>1422x304 mm   |                            |              |               |               |   |                                              |                | 5.5"<br>139 mm | 4.5"<br>114 mm | 3.5"<br>88 mm  |                |
| 56x15" Single<br>1422x381 mm   |                            |              |               |               |   |                                              |                | 5.5"<br>139 mm | 4.5"<br>114 mm | 3.5"<br>88 mm  |                |
| 56x21" Single<br>1422x533 mm   |                            |              |               |               |   |                                              |                | 5.5"<br>139 mm | 4.5"<br>114 mm | 3.5"<br>88 mm  |                |
| 28.5x15" Double<br>723x381 mm  |                            |              |               |               |   | 8 or 9<br>or 9.5"<br>203 or 228<br>or 241 mm |                |                |                |                |                |
| 28.5x21" Double<br>724x533 mm  |                            |              |               |               |   |                                              |                |                |                |                |                |
| 36x15" Double<br>914x381 mm    |                            |              |               | 16"<br>406 mm |   | 11 or 12"<br>279 or<br>304 mm                |                | 7"<br>177 mm   | 6"<br>152 mm   | 4.5"<br>114 mm | 3.5"<br>88 mm  |
| 36x21" Double<br>914x533 mm    |                            |              |               | 16"<br>406 mm |   |                                              |                | 7"<br>177 mm   | 6"<br>152 mm   | 4.5"<br>114 mm | 3.5"<br>88 mm  |
| 48x15" Double<br>1219x381 mm   |                            |              |               |               |   |                                              |                | 9"<br>228 mm   | 8"<br>203 mm   | 6"<br>152 mm   | 4.5"<br>114 mm |

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| MACHINE CONFIGURATION SIZES  | UR90                 | UR100                |
|------------------------------|----------------------|----------------------|
| Maximum Configuration Length | 243"<br>6172 cm      | 264"<br>6706 cm      |
| Maximum Configuration Width  | 102"<br>2591 cm      | 144"<br>3658 cm      |
| Maximum Configuration Height | 123"<br>3124 cm      | 123"<br>3124 cm      |
| Maximum Configuration Width  | 33,000"<br>15,000 cm | 50,000"<br>22,680 cm |

### ADDITIONAL FEATURES

- > Meets Applicable ANSI, CE, and E.U. Safety Requirement. UL available (option)
- > Ergonomic design that is operator compatible with safety and serviceability.
- > High output, lower melt temperature extrusion system.
- > Reduced energy consumption.
- > Fixed die head for improved alignment.
- > Front die adjustment.
- > Improved clamp design.
- > Enhanced mold cooling system.
- > Proportional clamp hydraulics.
- > Hydraulic oil temperature safety system.
- > Hydraulic low level safety switch.
- > Hydraulic pressure line filter.
- > Separate hydraulic cooling and filtration system.
- > Air cooled extruder barrel.
- > Mechanical parison weight adjustment.
- > PLC controller (Parison Programming Control Optional).
- > Air-Conditioned electrical panel (Optional).
- > Pre-blow air on for each head.
- > Bleed screws.
- > Plated front and center platens.
- > Split water system.
- > Central manual lube system.
- > Side- Shift clamp (Optional).
- > Capable of running a wide range of different blow molding grade resins.
- > Adaptable to accept molds configured for Uniloy UR Series, 250-350-400 Series, R2000 Series, and Liberty Series reciprocating screw machines. (Optional)



EXPERIENCE THE UNILOY DIFFERENCE

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