

### **FEATURES & BENEFITS**

- Fast and easy set-up and programming for high productivity
- Exclusive Path-Designer<sup>™</sup> proprietary software makes this machine user friendly, increases productivity and decreases downtime
- Uniform mixing and accurate dosing
- Short cycle time
- Simplified design gives this machine a long life with low cost replacement parts

### PATH-DESIGNER™ PROGRAM

#### Works with photo and drawing programs

 Supports a variety of programs, including Corel Draw®, Corel Photo Paint® and Adobe Illustrator®, through importing BMP, GIF, and DXF\* files

#### Scanner support

 Supports a variety of programs, including Corel Draw®, Corel Photo Paint® and Adobe Illustrator®, through importing BMP, GIF, and DXF\* files

#### Multiple, adjustable flow rates

 High accuracy and productivity; user can adjust flow rate per each line drawn



### **TECHNICAL DATA SHEET**

### Q-GEAR 3400™

Automated Industrial XYZ Dispensing Machine

### WARRANTY

The Q-Gear<sup>™</sup> 3400 comes with our standard warranty, as outlined in Royal Adhesives & Sealants Canada Ltd.'s Equipment Warranty Statement.

### Windows 7+ platform

- User-friendly software quickly and easily installs on any modern Windows computer (Windows 7+)
- Program files and preferences can easily be transferred between computers

#### User defined prime shot and purge

 Low resin waste: user sets the duration and pump speed to be applied on the prime shot and purge procedures

### Mixing ration can be changed through the program

• It is possible to use 1:1 or 2:1 mixing ratios with the same dispenser at any time with no mechanical changes

#### **Remote technical support**

• Technical assistance, worldwide using the internet

\* **NOTE:** There are a number of DXF files available. Please consult with your H.B. Fuller representative to see which ones are applicable to your application.

### **TECHNICAL DATA**

Nozzle Movement	XYZ Motion, position repeatability 0.004" / 0.1mm
Motion Programming	Path-Designer™ proprietary software (Windows 7+)
Network Connectivity Dosing Control	Ethernet (RJ45) Digitally programmed
Isocyanate : Polyol Ratio	E-Dome™ & Chem-Dec™ 2 component resins 1:1 and 2:1
Rinse & Purge Systems	Automatic
Working table dimensions (approximate)	39" x 20" 1000 mm x 500 mm
Size & Weight (approximate)	97" x 59" x H59" 2450 mm x 1500 mm x H1500 mm

# ACCESSORIES & SPARE PARTS INCLUDED WITH THE DISPENSER

1 Dispensing nozzle holder with a 4-nozzle manifold, 4 holders and 4 dispensing nozzles

900 lbs / 408 kg

- 1 Static mixer insert kit (Q-0006-1)
- 1 Dispense valve seal kit (ZVA-00001-01-12)
- 1 Valve spanner wrench (ZTL-00008)

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Q-GEAR 3400<sup>™</sup>

Automated Industrial XYZ Dispensing Machine

November 2020 | North America

### **TECHNICAL DATA SHEET**

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## **TECHNICAL DATA SHEET**

### Q-GEAR 2350™

Mini-XYZ-Motion Automated Dispensing Machine

### **FEATURES & BENEFITS**

#### Programming

- Fast and simple set-up
- Create new programs with ease, modify old programs quickly
- Supports up to 100 different programs with USB functionality to transfer and save programs
- Programmable flush cycle, prime shot and air purge cycle
- Programming for scripting and doming

### **Motion Control**

 High speed XYZ Motion for high productivity and accurate placement of every shot

### **Static Mixer**

• Uniform mixing and low-cost replacement parts

### **Gear Pump Assembly**

- Accurate dosing
- Adjustable pump speed settings to increase or decrease flow rates; each dome or script in a program can be adjusted independently

#### Manifolds

• Uses the same manifold heads as Q-Gear™ 2400, and can dispense 1 to 32 nozzles per shot

### **Password Protection**

Keeps operator functions
 and programming functions separate

### Small Size

 Does everything that much larger dispensers do but has a much smaller footprint, and requires only a small working area

### WARRANTY

The Q-Gear<sup>™</sup> 3400 comes with our standard warranty, as outlined in Royal Adhesives & Sealants Canada Ltd.'s Equipment Warranty Statement.



### **TECHNICAL DATA SHEET**

### ACCESSORIES & SPARE PARTS INCLUDED WITH THE DISPENSER

- 1 Dispensing nozzle holder with a 1-nozzle manifold, 1 holder and 1 dispensing nozzle
- 1 Static mixer insert kit (Q-0006-1)
- 1 Dispense valve seal kit (ZVA-00001-01-12)
- 1 Valve spanner wrench (ZTL-00008)

### **TECHNICAL DATA**

Nozzle Movement	XYZ-Motion, position repeatability 0.002" / 0.05 mm
Motion Programming	Simple point and command programming software with teaching pendant
Dosing	Digitally programmed
Isocyanate : Polyol Ratio	E-Dome™ & Chem-Dec™ 2 component resins 1:1 and 2:1
Rinse & Purge Systems	Manual
Working table dimensions (approximate)	20" x 20" 500 mm x 500 mm Suitable for use with Takflats™ (Vacuum table available)
Size & Weight (approximate)	23" x 24" x H18" 585 mm x 600 mm x H460 mm 260 lbs / 118 kg

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### Q-GEAR 2350™

Mini-XYZ-Motion Automated Dispensing Machine



### **PRODUCT DESCRIPTION**

Q-Gear 2100<sup>™</sup> is an advanced and affordable manual X-motion dispensing machine, specifically designed to work with Chem-Dec<sup>™</sup> and E-Dome<sup>™</sup> 2-component, polyurethane doming resins. Q-Gear<sup>™</sup> 2100 is ideal for doming multiple parts simultaneously.

### **FEATURES & BENEFITS**

- Simple to operate, excellent for new start-ups
- DC driven axis & pump allows for rapid response and accurate resin flow control
- Short cycle time, higher productivity
- Smart static mixers (low cost replacement parts)



### **TECHNICAL DATA SHEET**

### Q-GEAR 2100™

Manual X-Motion Dispensing Machine

### WARRANTY

The Q-Gear<sup>™</sup> 3400 comes with our standard warranty, as outlined in Royal Adhesives & Sealants Canada Ltd.'s Equipment Warranty Statement.

### **TECHNICAL DATA SHEET**

### **TECHNICAL DATA**

Nozzle Movement Motion Programming Dosing Isocyanate : Polyol Ratio

Pot Life Alarms Rinse & Purge Systems

Working table dimensions (approximate)

Size & Weight (approximate)

Manual X-Motion Manual Gear Pumps E-Dome™ & Chem-Dec™ 2 component resins 1:1 Standard Manual

16" x 24" 400 mm x 600 mm (optional vacuum table, air blower)

44" x 45" x H67" 1130 mm x 1150 mm x H1700 mm 800 lbs / 363 kg

# ACCESSORIES & SPARE PARTS INCLUDED WITH THE DISPENSER

- 1 Dispensing nozzle holder with a 4-nozzle manifold, 4 holders and 4 dispensing nozzles
- 1 Static mixer insert kit (Q-0006-1)
- 1 Dispense valve seal kit (ZVA-00001-01-12)
- 1 Valve spanner wrench (ZTL-00008)

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Q-GEAR 2100™

Manual X-Motion Dispensing Machine



### **PRODUCT DESCRIPTION**

The E-Dome<sup>™</sup> 3200 includes one XYZ dispensing robot, UV curing unit, customized stand and Q-Flow<sup>™</sup> Table

### **FEATURES & BENEFITS**

# Single system to quickly dispense and instantly cure E-Dome™ 1-component resins

- High productivity for doming of micro-scripting as well as most labels, decals, nameplates and restyling graphics
- Multiple parts can be produced from dispensing to full curing in just a few minutes

# XYZ dispensing robot with linear and circular motion interpolation, with an advanced dispensing head and nozzle design

- Versatility to work with scripting and traditional doming applications
- Highly accurate and fast dispensing even for extremely thin parts

# Hand-held pendant programming, no purge or solvent cleaning required, fast set-up and installation

- Extremely easy to program and operate
- One single operator can run the entire system
- Low maintenance costs
- High productivity and fast return for the investment

#### Small footprint

Low overhead costs

#### Many upgrade options available

Versatility to customize system to specific needs and budgets

### WARRANTY

The Q-Gear<sup>™</sup> 3400 comes with our standard warranty, as outlined in Royal Adhesives & Sealants Canada Ltd.'s Equipment Warranty Statement.



**TECHNICAL DATA SHEET** 

### **E-DOME 3200**<sup>™</sup>

XYZ-Motion Doming System

### **TECHNICAL DATA**

Material Type Curing Area **Curing Time** 

XYZ Robot Working Space 15 <sup>3</sup>/<sub>4</sub>" x 15 <sup>3</sup>/<sub>4</sub>" x 4" / 400 mm x 400 mm x 100 mm E-Dome™ 1-Component instant curing resin 18" (450 mm) x Continuous Instant curing (exact curing time varies according to part size) 110V and 220V (single phase)

**Power Requirement** 

Size & Weight (approximate)

18' x 4' / 5.5 m x 1.2 m 220 lbs / 100 kg

Maximum Dispensing Rate of E-Dome™ 8E-176 1.4 g/sec (3 oz/minute)

Minimum Dispensing Rate of E-Dome<sup>™</sup> 8E-176 0.01 g/sec (0.02 oz/minute)

### **ACCESSORIES & SPARE PARTS INCLUDED** WITH THE DISPENSER

- 1 Dispense valve seal kit (ZVA-00001-01-12)
- 1 Valve spanner wrench (ZTL-00008)
- 5 Dispensing Needles (5 of each below):

<ul> <li>14 gauge – dark green</li> </ul>	OD: 2.11 mm	ID 1.70 mm	(ZVA-00021)
<ul> <li>15 gauge – orange</li> </ul>	OD: 1.83 mm	ID 1.52 mm	(ZVA-00022)
<ul> <li>16 gauge – purple</li> </ul>	OD: 1.65 mm	ID: 1.35 mm	(ZVA-00023)
<ul> <li>18 gauge – pink</li> </ul>	OD: 1.27 mm	ID: 0.97 mm	(ZVA-00024)
<ul> <li>19 gauge – brown</li> </ul>	OD: 1.07 mm	ID: 0.81 mm	(ZVA-00025)
<ul> <li>20 gauge – yellow</li> </ul>	OD: 0.90 mm	ID: 0.6 5mm	(ZVA-00026)
<ul> <li>20 gauge – light green</li> </ul>	OD: 0.81 mm	ID: 0.58 mm	(ZVA-00027)
<ul> <li>20 gauge – black</li> </ul>	OD: 0.71 mm	ID: 0.48 mm	(ZVA-00028)
<ul> <li>20 gauge – light blue</li> </ul>	OD: 0.64 mm	ID: 0.43 mm	(ZVA-00029)
<ul> <li>20 gauge – dark blue</li> </ul>	OD: 0.51 mm	ID: 0.30 mm	(ZVA-00030)

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### **TECHNICAL DATA SHEET**

**E-DOME 3200™** 

XYZ-Motion Doming System