

Machines that **WIN** your trust



# NEW FACE OF **EFFICIENCY**



75 to 350 Ton

## **EXCEL** Series Toggle Injection Moulding Machines



Robust & reliable performance



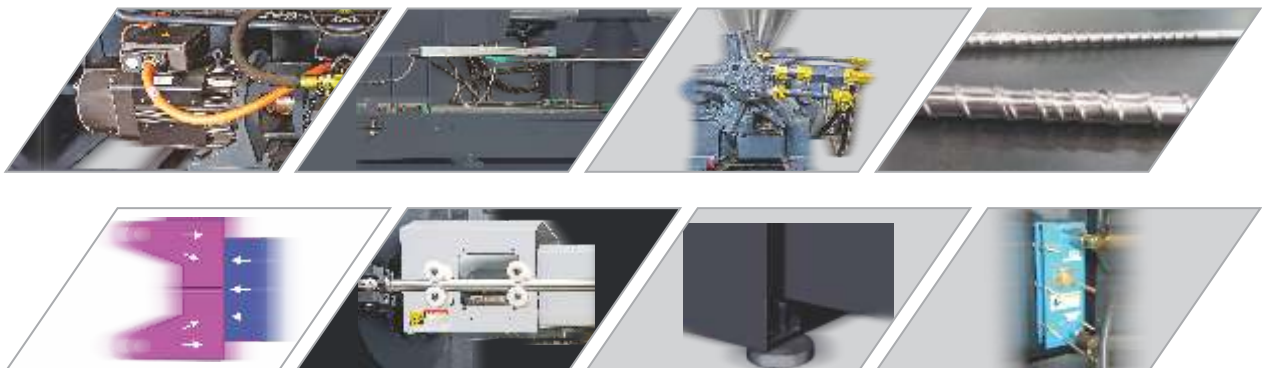
High productivity and energy efficiency



Enhanced machine specifications



Advanced control system



# Machine Specifications

| Parameters                  | UNIT    | EXCEL 75     | EXCEL 100   | EXCEL 130      | EXCEL 150      | EXCEL 180   | EXCEL 230    | EXCEL 280     | EXCEL 350      |
|-----------------------------|---------|--------------|-------------|----------------|----------------|-------------|--------------|---------------|----------------|
| Injection Unit              |         | 200-300-430  | 300-430-640 | 430-640-950    | 430-640-950    | 430-640-950 | 640-950-1560 | 950-1560-2275 | 1560-2275-3700 |
| Screw Diameter              | mm      | 28 ~ 45      | 32 ~ 50     | 36 ~ 60        | 36 ~ 60        | 36 ~ 60     | 40 ~ 70      | 45 ~ 80       | 50 ~ 90        |
| Injection Pressure          | bar     | 2344 ~ 1481  | 2358 ~ 1555 | 2430 ~ 1401    | 2430 ~ 1401    | 2430 ~ 1401 | 2430 ~ 1446  | 2490 ~ 1406   | 2430 ~ 1442    |
| Max. Injected Weight (GPPS) | g       | 82 ~ 272     | 122 ~ 392   | 174 ~ 645      | 174 ~ 645      | 174 ~ 645   | 251 ~ 1024   | 363 ~ 1528    | 522 ~ 2417     |
| Clamp Force                 | ton     | 75           | 100         | 130            | 150            | 180         | 230          | 280           | 350            |
| Mould Opening Stroke        | mm      | 320          | 350         | 400            | 450            | 460         | 550          | 650           | 700            |
| Mould Height (Min. ~ Max.)  | mm      | 150 ~ 450    | 150 ~ 500   | 200 ~ 500      | 200 ~ 550      | 200 ~ 600   | 250 ~ 650    | 300 ~ 750     | 300 ~ 800      |
| Tie-bar Clearance (H x V)   | mm      | 410 x 360    | 460 x 420   | 510 x 510      | 520 x 520      | 570 x 510   | 630 x 630    | 730 x 660     | 810 x 730      |
| Clamping Platens (H x V)    | mm      | 600 x 550    | 670 x 630   | 740 x 740      | 750 x 730      | 825 x 730   | 925 x 885    | 1035 x 970    | 1150 x 1070    |
| Ejector Force / Stroke      | KN / mm | 35 / 130     | 35 / 130    | 50 / 160       | 50 / 160       | 50 / 160    | 80 / 200     | 80 / 200      | 80 / 200       |
| Pump Drive (SERVO / VDP)    | KW      | 11.4 / 11~15 | 11.4 / 15   | 11.4 / 15~18.5 | 11.4 / 15~18.5 | 11.4 / 18.5 | 13.2 / 22    | 15 / 37       | 15~17 / 37~45  |

Windsor Machines Ltd. reserves right to change specifications without prior notice.

## Machine Features

- Highly energy efficient hydraulic system
- Sub-flighted screw for better melt homogeneity
- Injection unit on linear guideways
- Statistical process control and Process data protocol
- High repeatability
- High uptime
- Better product quality
- Open base structure for ease in maintenance
- Low noise and vibration
- Small machine footprint



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