

C-M

HIGH-END MULTI-COMPONENT
INJECTION MOLDING MACHINE
Stability + Customization



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- [2] The picture in the catalogue is for reference only. The real object should be considered as final.
- [3] The data in the catalogue is obtained from internal testing in YIZUMI laboratory.
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THINK TECH FORWARD

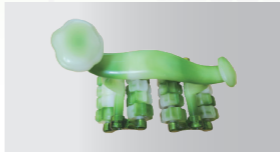
PRODUCT DETAILS



C Series Sandwich/Mixing Multi-Component Injection Molding Machine



Widely used in different industries:



The molding principle of Sandwich molding/Mixing molding



Value of Sandwich/Mixing molding processes

By combining with different nozzles, this model can serve various applications including sandwich molding, mixing molding and across molding to meet the ever changing demands of the market.

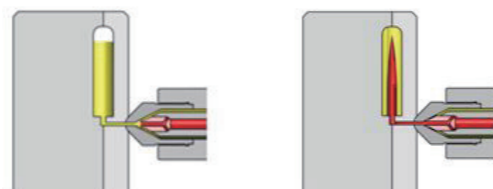
Sandwich molding: Sandwich the re-grind plastic layer between outer skin formed using novel materials to reduce cost.

Mixing molding: Increase the diversity of products with different color combination to meet personalized needs.

Across molding: For certain special products, create across molding effect by using different colors and materials.

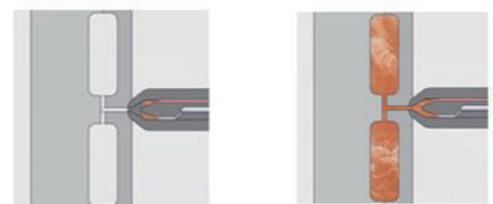
The molding principle of Sandwich molding

- First shot of skin plastic made by injection unit A.
- Second shot of inner plastic made by injection unit B.
- Final shot of skin plastic made by injection unit A.



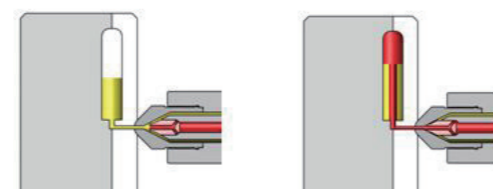
The molding principle of Mixing molding

- Concurrent injection made by two injection units
- Or mixing molding injection made according to logic diagram.



The molding principle of Across molding

- Base plastic injected by injection unit A.
- End plastic injected by injection unit B through inner channel.



Logic diagram of mixing injection

| Sandwich injection | |
|--------------------|--|
| A injection | |
| B injection | |

| Mixing molding process | |
|------------------------|--|
| A injection | |
| B injection | |
| A injection | |
| B injection | |
| A injection | |
| B injection | |

*Data above come from YIZUMI lab, available for reference.
Pictures and descriptions of this catalogue takes UN120C-NM as an example, technology specification is applicable for C-M series machines of all tonnage.

NM&NC Specification

※ Note: For NM series machine, SKII platform is standard, while A5S platform optional.
UN800C-NC is special for the production of toilet cover sandwich.

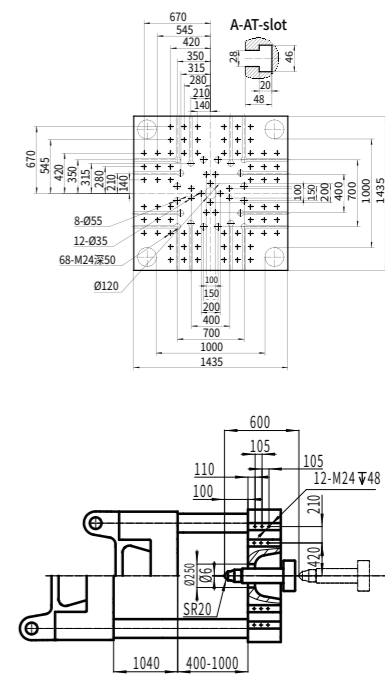
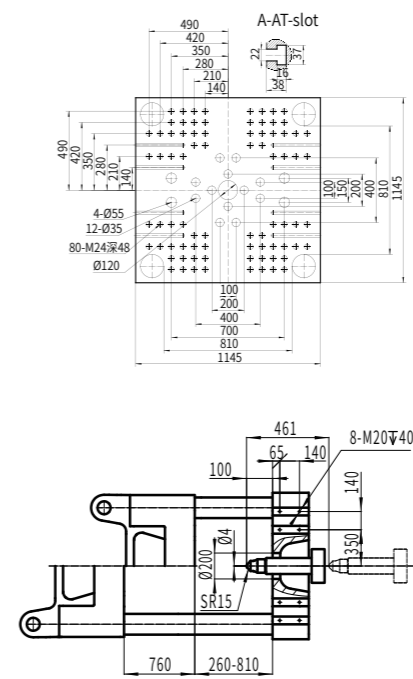
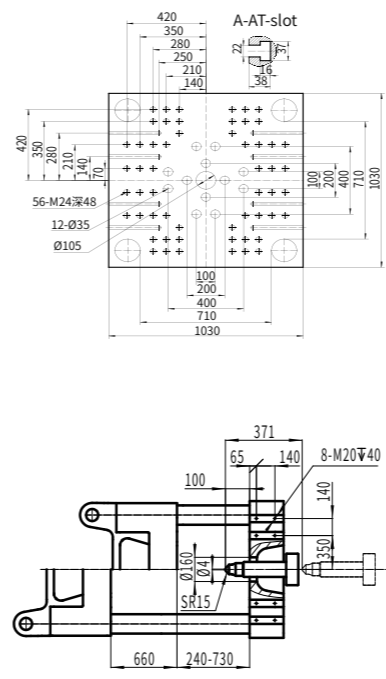
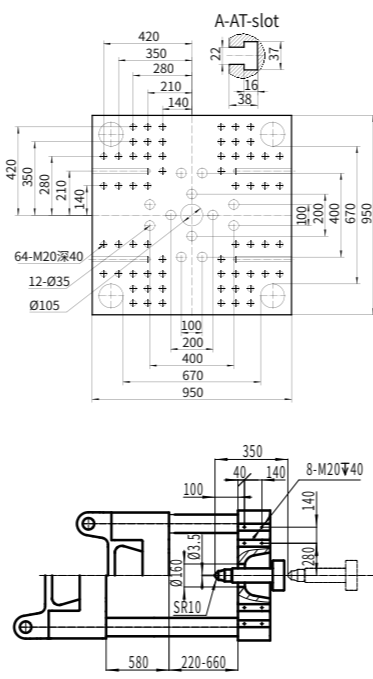
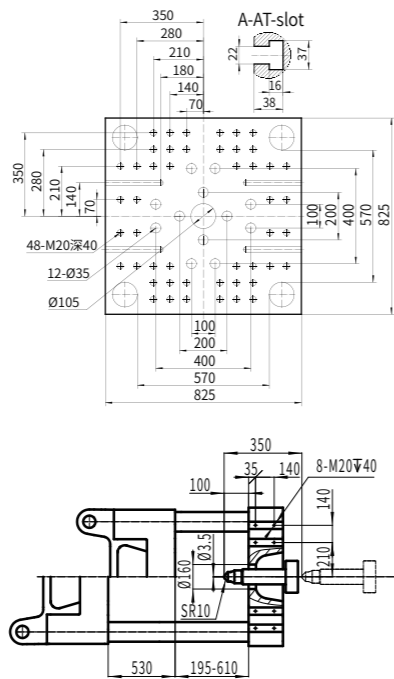
| DESCRIPTION | UNIT | UN90C-NM | | | | | | UN120C-NM | | | | | | UN160C-NM | | | | | | UN200C-NM | | | | | |
|----------------------------|-----------------|----------------|-----|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|
| | | INJECTION UNIT | | | | | | | | | | | | INJECTION UNIT | | | | | | | | | | | |
| | | Combination 1 | | | | | | Combination 1 | | | | | | Combination 1 | | | | | | Combination 1 | | | | | |
| | | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C |
| Screw diameter | mm | 30 | 35 | 38 | 30 | 35 | 38 | 30 | 35 | 40 | 30 | 35 | 40 | 35 | 43 | 48 | 30 | 35 | 40 | 35 | 43 | 48 | 30 | 35 | 40 |
| Screw L/D Ratio | L/D | 22 | 20 | 20 | 22 | 20 | 20 | 22 | 20 | 20 | 22 | 20 | 20 | 22 | 20 | 20 | 22 | 20 | 20 | 22 | 20 | 20 | 22 | 20 | 20 |
| Theoretical shot volume | cm ³ | 117 | 159 | 187 | 117 | 159 | 187 | 117 | 159 | 207 | 117 | 159 | 207 | 163 | 247 | 307 | 117 | 159 | 207 | 163 | 247 | 307 | 117 | 159 | 207 |
| Shot weight (PS) | gram | 107 | 146 | 172 | 107 | 146 | 172 | 107 | 146 | 191 | 107 | 146 | 191 | 150 | 227 | 283 | 107 | 146 | 191 | 150 | 227 | 283 | 107 | 146 | 191 |
| Injection pressure | MPa | 219 | 161 | 136 | 219 | 161 | 136 | 219 | 161 | 123 | 219 | 161 | 123 | 240 | 159 | 128 | 219 | 161 | 123 | 240 | 159 | 128 | 219 | 161 | 123 |
| Injection speed | mm/s | 124 | | | 124 | | | 124 | | | 124 | | | 104 | | | 124 | | | 104 | | | 124 | | |
| Injection rate | g/s | 80 | 110 | 129 | 80 | 110 | 129 | 80 | 110 | 143 | 80 | 110 | 143 | 92 | 138 | 172 | 80 | 110 | 143 | 92 | 138 | 172 | 80 | 110 | 143 |
| Screw speed | rpm | 219 | | | 219 | | | 219 | | | 219 | | | 205 | | | 219 | | | 205 | | | 219 | | |
| Screw stroke | mm | 165 | | | 165 | | | 165 | | | 165 | | | 170 | | | 165 | | | 170 | | | 165 | | |
| | | CLAMPING UNIT | | | | | | | | | | | | CLAMPING UNIT | | | | | | | | | | | |
| Clamping force | kN | 900 | | | | | | 1200 | | | | | | 1600 | | | | | | 2000 | | | | | |
| Opening stroke | mm | 320 | | | | | | 360 | | | | | | 410 | | | | | | 460 | | | | | |
| Mold thickness | mm | 130-350 | | | | | | 145-400 | | | | | | 160-460 | | | | | | 180-820 | | | | | |
| Space between tie bars | mm | 360×360 | | | | | | 410×370 | | | | | | 455×435 | | | | | | 510×510 | | | | | |
| Ejector stroke | mm | 100 | | | | | | 120 | | | | | | 140 | | | | | | 150 | | | | | |
| Ejector force | kN | 28 | | | | | | 42 | | | | | | 42 | | | | | | 49 | | | | | |
| | | GENERAL | | | | | | | | | | | | GENERAL | | | | | | | | | | | |
| Max.system pressure | MPa | 17.5 | | | | | | 17.5 | | | | | | 17.5 | | | | | | 17.5 | | | | | |
| Motor power | kW | 11 | | | 11 | | | 11 | | | 11 | | | 16 | | | 11 | | | 16 | | | 11 | | |
| Heating power | kW | 18.44 | | | | | | 18.44 | | | | | | 20.75 | | | | | | 20.75 | | | | | |
| Machine dimensions (L×W×H) | m | 4.85×1.22×1.95 | | | | | | 4.9×1.32×2.02 | | | | | | 5.49×1.32×2.12 | | | | | | 5.92×1.32×2.12 | | | | | |
| Machine weight | t | 4 | | | | | | 4.6 | | | | | | 6.3 | | | | | | 8 | | | | | |
| Hopper capacity | kg | 25+25 | | | | | | 25+25 | | | | | | 25+25 | | | | | | 25+25 | | | | | |
| Platen dimensions | | | | | | | | | | | | | | | | | | | | | | | | | |

NM&NC Specification

※ Note: For NM series machine, SKII platform is standard, while A5S platform optional.
UN800C-NC is special for the production of toilet cover sandwich.

| DESCRIPTION | UNIT | UN260C-NM | | | | | | UN320C-NM | | | | | | UN400C-NM | | | | | | UN480C-NM | | | | | | UN800C-NC | | | | | | | | | | | |
|----------------------------|-----------------|----------------|-----|-----|---------|-----|-----|---------------|-----|-----|--------|-----|-----|---------------|------|------|-----------|-----|-----|----------------|------|------|-----------|-----|-----|----------------|------|------|------|------|------|--|--|--|--|--|--|
| | | INJECTION UNIT | | | | | | | | | | | | | | | | | | INJECTION UNIT | | | | | | | | | | | | | | | | | |
| | | Combination 1 | | | | | | Combination 1 | | | | | | Combination 1 | | | | | | Combination 1 | | | | | | Combination 1 | | | | | | | | | | | |
| | | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | | | | | | |
| Screw diameter | mm | 43 | 48 | 53 | 30 | 35 | 40 | 43 | 48 | 53 | 35 | 43 | 48 | 60 | 68 | 76 | 43 | 48 | 53 | 60 | 68 | 76 | 48 | 53 | 60 | 76 | 84 | 92 | 76 | 84 | 92 | | | | | | |
| Screw L/D Ratio | L/D | 22.3 | 20 | 20 | 24 | 20 | 20 | 22.3 | 20 | 20 | 24 | 20 | 20 | 22.6 | 20 | 20 | 22.3 | 20 | 20 | 22.6 | 20 | 20 | 22 | 20 | 20 | 22.1 | 20 | 22 | 22 | 20 | 20 | | | | | | |
| Theoretical shot volume | cm ³ | 298 | 371 | 452 | 117 | 159 | 207 | 298 | 371 | 452 | 163 | 247 | 307 | 834 | 1071 | 1338 | 298 | 371 | 452 | 834 | 1071 | 1338 | 425 | 518 | 664 | 2267 | 2769 | 3322 | 1678 | 2049 | 2458 | | | | | | |
| Shot weight (PS) | gram | 274 | 341 | 416 | 107 | 146 | 191 | 274 | 341 | 416 | 150 | 227 | 283 | 767 | 985 | 1231 | 274 | 341 | 416 | 767 | 985 | 1231 | 391 | 477 | 611 | 2086 | 2548 | 3056 | 1543 | 1885 | 2262 | | | | | | |
| Injection pressure | MPa | 213 | 171 | 140 | 257 | 189 | 145 | 213 | 171 | 140 | 260 | 172 | 138 | 225 | 175 | 140 | 213 | 171 | 140 | 225 | 175 | 140 | 220 | 180 | 140 | 238 | 194 | 162 | 238 | 194 | 162 | | | | | | |
| Injection speed | mm/s | 94 | | | 105 | | | 94 | | | 93 | | | 92 | | | 94 | | | 92 | | | 95 | | | 80 | | | 68 | | | | | | | | |
| Injection rate | g/s | 126 | 157 | 191 | 68 | 93 | 122 | 126 | 157 | 191 | 82 | 124 | 155 | 239 | 307 | 383 | 126 | 157 | 191 | 239 | 307 | 383 | 158 | 192 | 247 | 334 | 408 | 490 | 282 | 345 | 414 | | | | | | |
| Screw speed | rpm | 250 | | | 205 | | | 250 | | | 229 | | | 200 | | | 250 | | | 200 | | | 215 | | | 148 | | | 125 | | | | | | | | |
| Screw stroke | mm | 205 | | | 165 | | | 205 | | | 170 | | | 295 | | | 205 | | | 295 | | | 235 | | | 500 | | | 370 | | | | | | | | |
| | | CLAMPING UNIT | | | | | | | | | | | | | | | | | | CLAMPING UNIT | | | | | | | | | | | | | | | | | |
| Clamping force | kN | 2600 | | | | | | 3200 | | | | | | 4000 | | | | | | 4800 | | | | | | 8000 | | | | | | | | | | | |
| Opening stroke | mm | 530 | | | | | | 580 | | | | | | 660 | | | | | | 760 | | | | | | 1040 | | | | | | | | | | | |
| Mold thickness | mm | 195-610 | | | | | | 220-660 | | | | | | 240-730 | | | | | | 260-810 | | | | | | 400-1000 | | | | | | | | | | | |
| Space between tie bars | mm | 570×570 | | | | | | 670×670 | | | | | | 710×710 | | | | | | 810×810 | | | | | | 1000×1000 | | | | | | | | | | | |
| Ejector stroke | mm | 160 | | | | | | 170 | | | | | | 210 | | | | | | 220 | | | | | | 280 | | | | | | | | | | | |
| Ejector force | kN | 77 | | | | | | 77 | | | | | | 110 | | | | | | 110 | | | | | | 182 | | | | | | | | | | | |
| | | GENERAL | | | | | | | | | | | | | | | | | | GENERAL | | | | | | | | | | | | | | | | | |
| Max.system pressure | MPa | 17.5 | | | | | | 17.5 | | | | | | 17.5 | | | | | | 17.5 | | | | | | 17.5 | | | | | | | | | | | |
| Motor power | kW | 19.6 | | | 11 | | | 19.6 | | | 16 | | | 48.1 | | | 19.6 | | | 48.1 | | | 24 | | | 60 | | | 55.4 | | | | | | | | |
| Heating power | kW | 10.9/12.1 | | | 6.9/7.8 | | | 10.9/12.1 | | | 9/10.1 | | | 22.2/24.6 | | | 10.9/12.1 | | | 22.2/24.6 | | | 10.9/12.1 | | | 67.6 | | | | | | | | | | | |
| Machine dimensions (L×W×H) | m | 6.5×1.7×2.2 | | | | | | 7×2.1×2.3 | | | | | | 8×2.2×2.4 | | | | | | 8.7×2.4×2.5 | | | | | | 11.2×2.38×2.63 | | | | | | | | | | | |
| Machine weight | t | 10 | | | | | | 13 | | | | | | 16 | | | | | | 22 | | | | | | 45 | | | | | | | | | | | |
| Hopper capacity | kg | 25+25 | | | | | | 25+25 | | | | | | 50+25 | | | | | | 50+50 | | | | | | 100+100 | | | | | | | | | | | |

Platen dimensions



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