

NEX-III Series



NEX80III-12EG (Equipped with options)

Technological Solutions from NISSEI Smart Technology

01 Eliminating Molding Defects

- Plasticization Stability Improved by "The All-New Plasticization Device" (2EG~12EG)
- High-Precision Metering Control "Pre Pack II"

02 Increasing Productivity

- "Linear Pressure Toggle," which possesses the advantages of toggle mechanism and characteristics similar to the Straight-Hydraulic Clamping System
- Shorter Molding Cycle
- Environmental Load Reduction by Energy-Efficient Performance

03 Expanding Moldable Range

- Faster, Higher, and Quicker Response Injection Velocity/Pressure
- Versatile V-P Changeover Methods
- V-P Changeover Reaction Control
- K-SAPLI: Low-Pressure Molding System for Electric Type Injection Molding Machine
- High-Quality Molding by Clamping Compression Molding (CPN3)
- Simplifying Operation Process by Mold Inside Process (MIP)
- Electric Type Machines for Special Applications
- Excellent "Clean Operation" in Clean Room under Class 10,000

04 Protecting Mold

- High-Sensitivity Mold Protection

05 Comprehending the Manufacturing Operations

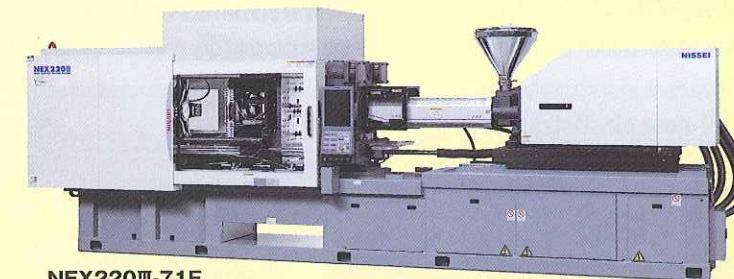
- Reinforcing Quality Control Function to Grasp Productions

06 Improving Operability

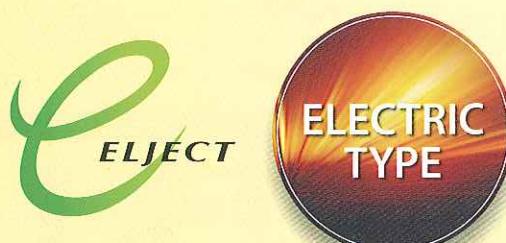
- High-Performance & High-Functional Controller TACT IV



NEX50III-5EG
(Japanese specifications)



NEX220III-71E
(Japanese specifications)



Clamping unit

It possesses the characteristics similar to the direct pressure mechanism, yet it utilizes the advantages of the toggle mechanism... "Linear Pressure Toggle" materialized!

Injection unit

New type plasticization device with further stability developed!

Controller

A large 15-inch vertical LCD controller and premium software make it even easier to use!

Variations & injection specifications

| Clamping unit Clamping force | Injection unit Screw diameter Max. injection pressure | Injection velocity Standard High velocity High load |
|---------------------------------|---|--|
| NEX15III 16.5 US tons | 2EG mm 14* inch 0.55 Mpa 225 psi 36970 | mm/s 500 in/s 19.7 500 350 13.8 |
| NEX30III 33 US tons | 3EG mm 19 inch 0.75 Mpa 265 psi 38400 | mm/s 500 in/s 19.7 |
| NEX50III 55 US tons | 5EG mm 22 inch 0.87 Mpa 280 psi 40560 | mm/s 500 in/s 19.7 350 13.8 |
| NEX80III 88 US tons | 9EG mm 26 inch 1.02 Mpa 280 psi 40560 | mm/s 300 in/s 11.8 500 300 19.7 11.8 |
| | 12EG mm 28 inch 1.1 Mpa 280 psi 40530 | mm/s 270 in/s 10.6 400 240 15.7 9.4 |
| NEX110III 121 US tons | 18E mm 32 inch 1.26 Mpa 276 psi 40000 | mm/s 200 in/s 7.9 300 200 11.8 7.9 |
| NEX140III 154 US tons | 25E mm 36 inch 1.42 Mpa 261 psi 37780 | mm/s 180 in/s 7.1 270 180 10.6 7.1 |
| NEX180III 198 US tons | 36E mm 40 inch 1.57 Mpa 260 psi 37790 | mm/s 180 in/s 7.1 270 180 10.6 7.1 |
| NEX220III 242 US tons | 50E mm 45 inch 1.77 Mpa 250 psi 36275 | mm/s 180 in/s 7.1 270 180 10.6 7.1 |
| NEX280III 309 US tons | 71E mm 50 inch 1.97 Mpa 249 psi 36120 | mm/s 160 in/s 6.3 200 160 7.9 6.3 |
| NEX360III 397 US tons | 100LE mm 50 inch 1.97 Mpa 249 psi 36120 | mm/s 160 in/s 6.3 200 160 7.9 6.3 |
| NEX460III 507 US tons | 140LE mm 63 inch 2.48 Mpa 201 psi 29150 | mm/s 160 in/s 6.3 90 56 3.50 2.80 |
| | 210LE mm 80 inch 3.10 Mpa 186 psi 27020 | mm/s 160 in/s 6.3 147 107 3.50 2.80 |

— Standard combination

*2EG φ14 screw is available for NEX15III only.

Plasticization Stability Improved by "the All-New Plasticization Device" (2EG~12EG) New!!

It solves plasticization problems caused by the materials that are prone to become unstable due to cycle time and resin temperature factors.

The all-new plasticization device

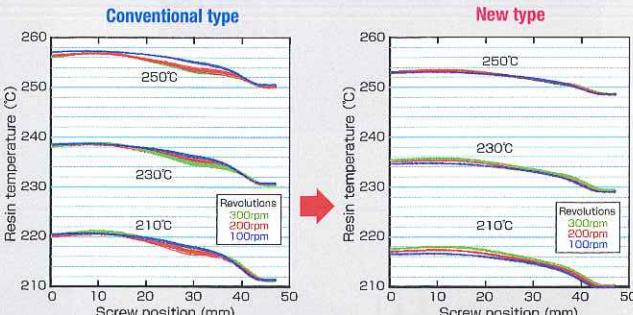
In order to reduce molding defects, the barrel temperature control zones have been subdivided and optimized to improve plasticization performance. New NEX Series offers improved basic functions, such as higher injection pressure and faster injection speed (*1). Many optional features are also available, such as a selection of high precision specification for 2EG-12EG injection unit classes, which materializes further precise stable molding.

(*1) Faster injection speed: improved injection velocity for 9E~50E high speed specifications



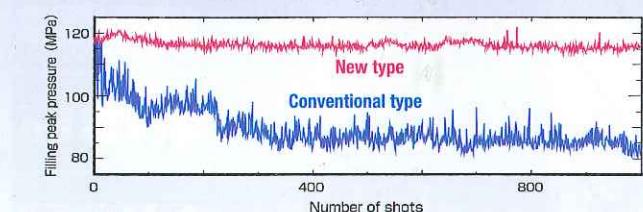
▲Image of "the all-new plasticization device"

Improved resin temperature stability (PP)

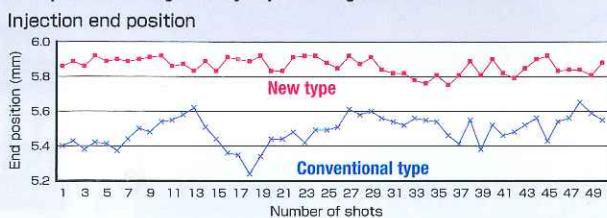


Effect of the all-new plasticization device

Improved LCP molding startup stability



Improved molding stability in processing non-reinforced PBT



Stability evaluations of the materials containing regrind (non-reinforced PBT)

| | Plasticization time (s) | Average metering torque (%) | Peak pressure (MPa) | Most forward position (mm) |
|------------------|-------------------------|-----------------------------|---------------------|----------------------------|
| Virgin material | Ave. | 2.49 | 14.39 | 134.4 |
| | Range | 0.07 | 0.31 | 3.53 |
| | SD | 0.0134 | 0.0734 | 0.5482 |
| Regrind rate 50% | Ave. | 2.55 | 13.77 | 128.9 |
| | Range | 0.08 | 0.60 | 3.53 |
| | SD | 0.0138 | 0.0992 | 0.6154 |
| Regrind rate 70% | Ave. | 2.56 | 13.51 | 127.9 |
| | Range | 0.07 | 0.45 | 3.53 |
| | SD | 0.0141 | 0.1001 | 0.3942 |

High-Precision Metering Control "Pre Pack II" New!!

It materializes stable metering with a standard screw tip as well as automatically setting key control parameters to the optimum conditions.

What is "Pre Pack"?



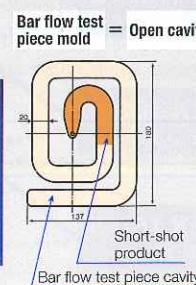
It maintains consistency in metering density and injection volume and stabilizes the check valve response. It is effective for suppressing fluctuations due to inconsistencies, such as processing regrind materials and materials from different lot.

Proving the effect of Pre Pack (products are juxtaposed to compare the lengths)

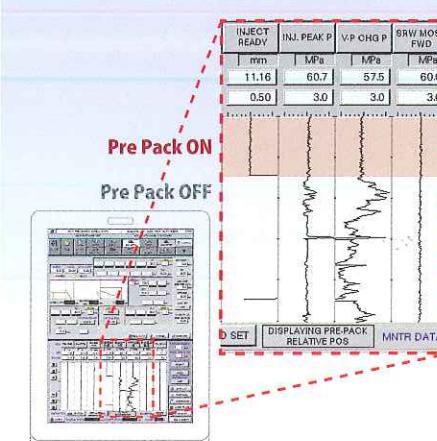
Pre Pack ON



Pre Pack OFF

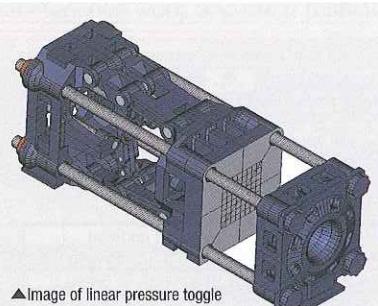


Improved filling pressure stability in processing PPS



"Linear Pressure Toggle," which possesses the advantages of toggle mechanism and characteristics similar to the Straight-Hydraulic Clamping System

Movable platen and center-supported stationary platen, which are designed through the structural analysis, materialize less deflection and ensure uniform clamping force transmission.



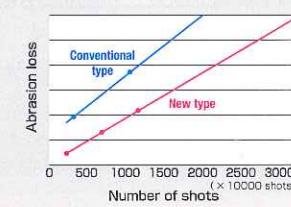
Linear pressure toggle

The clamping unit is equipped with a Flat Clamp mechanism, automatic clamping force adjuster, and direct clamping force setting to materialize uniform clamping force transmission. Rigidity and wear-resistance of almost every component for sliding surfaces, such as toggle pins and movable platen slide, has been improved. This machine utilizes the high-cycle property of a toggle mechanism while possessing the characteristics similar to the straight-hydraulic clamping system.

Structural analysis of stationary platens [Displacement] ... Displaying 1/2 of the die plate



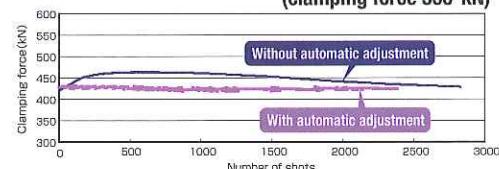
Comparison of abrasion loss of the new toggle pin ... Approximately twice as durable as existing toggle pins



Automatic clamping force adjustment

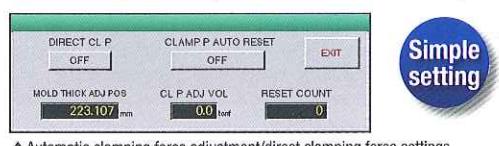
This function automatically adjusts clamping force fluctuations caused by disturbances, such as changes in mold and machine temperatures during automatic run. (Not available for NEX460III)

Effect of automatic clamping force adjustment (clamping force 500-kN)



Direct clamping force setting

Just like a straight-hydraulic machine, changing clamping force setting during continuous molding operation is possible. (Not available for NEX460III)



Simple setting

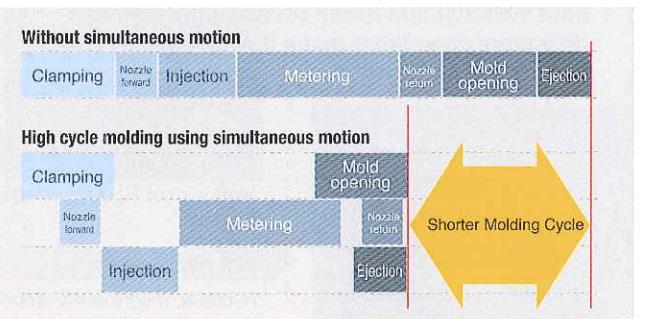
High-cycle mass production by general-purpose machine materialized

コネクター1秒成形



Shorter Molding Cycle

Simultaneous motion control, which is peculiar to electric type injection molding machines, is provided as a standard feature.



Support for higher cycle molding

Servomotor load monitoring function comes standard, permitting molding that requires long pressure holding time or faster cycle.



▲Servomotor load monitoring function

May 12, 2008, Nikkan Kogyo Shimbun (The Business & Technology Daily News)

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One-second molding of connectors allowed 75% cut in production cost

Environmental Load Reduction by Energy-Efficient Performance

NISSEI supports their customers to reduce environmental load from the molding plants.

Reduction of power consumption and heat-up time New plasticization device on 2~12EG

New plasticization device equipped machines consume 8% less energy than conventional types, and heat-up time to reach preset temperature is 25% quicker. Quicker heat-up time also means saving time for material/color change, purging, and setup, contributing to improve productivity further.

Barrel heat retention cover OPTION

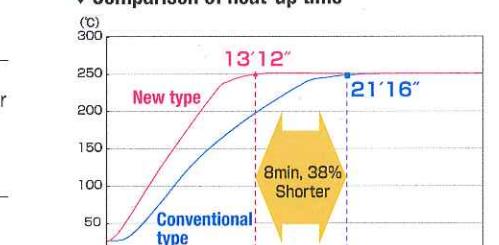
It saves about 7% of power consumption compared to the standard barrel cover.

Hybrid hydraulic unit OPTION

Hydraulic pump unit is used for mold's core movement. Hybrid hydraulic unit consumes 40% less energy and achieves 70% less CO₂ emission compared to the conventional variable pumps.



Comparison of heat-up time



Comparison of integral power consumption



33% Less

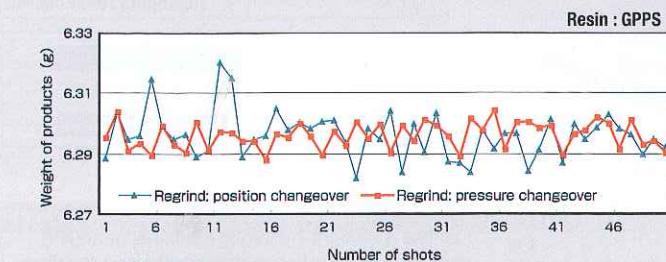
Faster, Higher, and Quicker Response Injection Velocity/Pressure

In order to expand moldable range further, pressures for A and AA screw specifications have been increased about average of 5%, and optional ultra high-velocity specifications (18E:400mm/s and 25E~36E:350mm/s) have been added.

Versatile V-P Changeover Methods

Versatile V-P changeover methods come standard, contributing to mass production of various products.

▼ Example of stable molding of regrind material using pressure changeover control



Four changeover modes

"Position/pressure/VPV/external" V-P changeover control comes standard. Selections of ideal changeover methods according to the type of molded products can be selected.

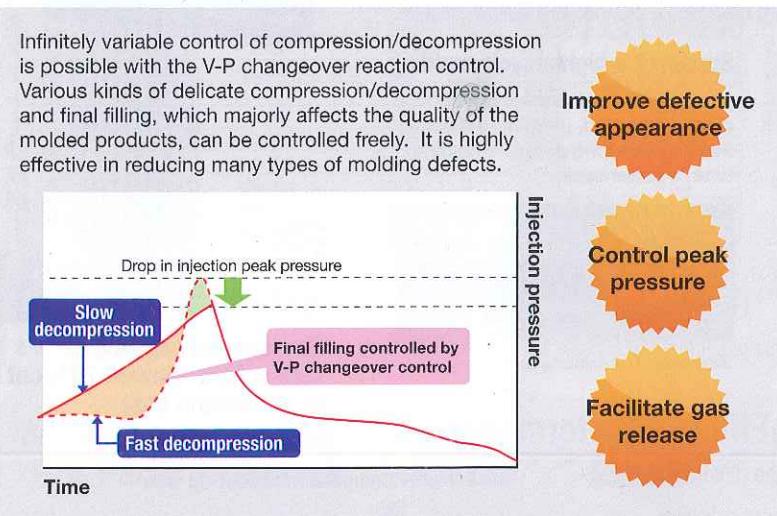
| Virgin material | | Regrind material | |
|-----------------|----------|------------------|----------|
| Position | Pressure | Position | Pressure |
| Max g | 6.306 | 6.296 | 6.319 |
| Min g | 6.293 | 6.291 | 6.281 |
| Ave g | 6.2978 | 6.2941 | 6.2959 |
| R g | 0.0125 | 0.0054 | 0.038 |
| σn g | 0.0028 | 0.0012 | 0.0077 |
| 6Cv % | 0.2694 | 0.1223 | 0.7347 |

Four pressure control modes

"Pressure/positioning/pressure⇒positioning /positioning ⇒pressure" pressure control comes standard. Selections of ideal pressure controls according to the type of molded products can be selected.

V-P Changeover Reaction Control

It permits versatile controls for final filling, which determines the quality of the molded products.



Changeover response control by LV (holding pressure limit velocity) and RAMP (max. compression/decompression time) make it even easier to use.

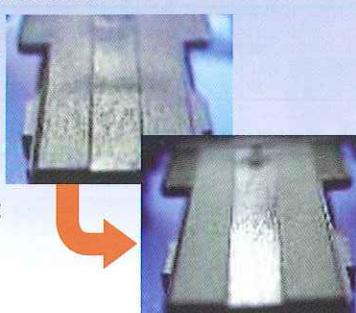
One of the three modes can be selected according to the type of molded products.

- “OPT” mode
Maximum of 20,000 settings possible
- “SLOW” mode
Hydraulic machine-like smooth compression/decompression that eliminates sink marks
- “QUICK” mode
Quick compression/decompression that eliminates flashes

Example: effect on sink mark

Product with sink mark

Sink mark appeared due to fast decompression

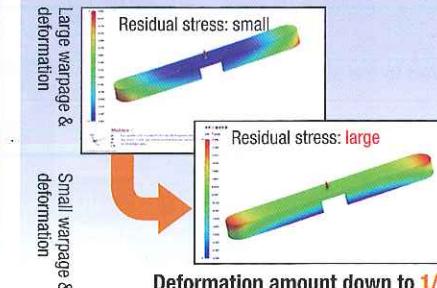


Good product

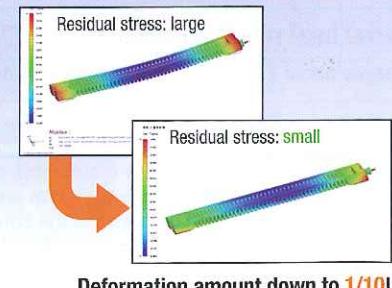
Sink mark improved by slow decompression

Example: effect on warping and twisting

Improvement by slow decompression



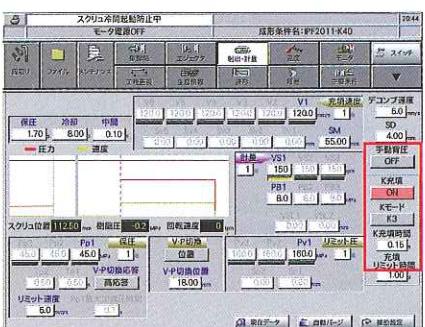
Improvement by fast decompression



K-SAPLI: Low-Pressure Molding System for Electric Type Injection Molding Machine OPTION

It can reduce the workload for molding engineers.

SAPLI Series is a low-pressure molding software application that brings profits by helping users to increase yield, reduce mold maintenance work, and lower running cost.



SAPLI Series... A supplement that materializes smarter injection molding
Smart Applications for PLastic Injection

Reduce molding defects

Reduce flash, warpage, sink mark, burn, and short shot as well as facilitating gas release

Expand moldable range (range of condition to mold quality products)

Simplify molding condition

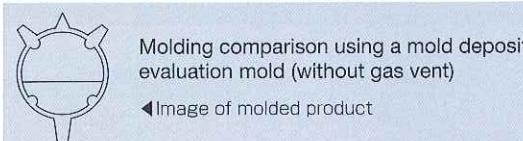
Shorten cycle

Shorten injection (holding pressure) time and cooling time

Longer service life of mold

Reduce mold maintenance cost

Workload reduction effect by zero clamping force molding



Molding comparison using a mold deposit evaluation mold (without gas vent)

◀ Image of molded product

Comparison of mold surfaces

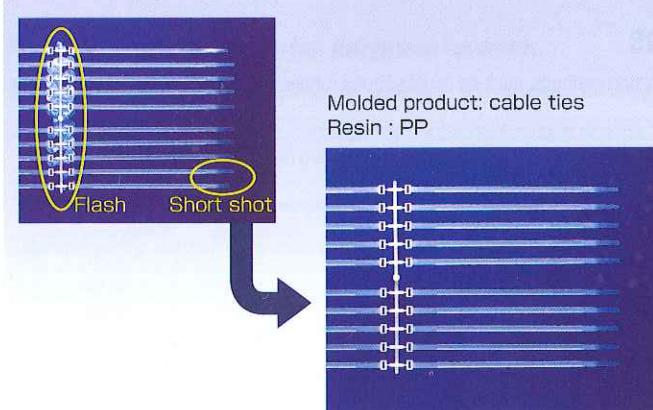


Clamping force: 15t
Mold deposits were observed on the mold surface

Clamping force: 0t
It can reduce the workload for mold maintenance.

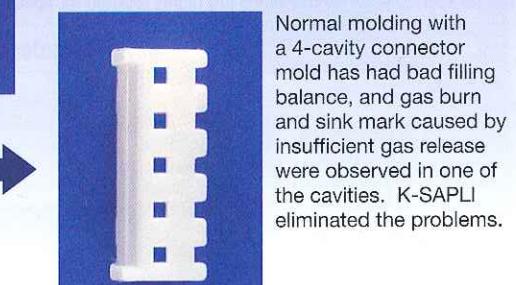
Example1: eliminating flash and short shot

Normal molding with a 20-cavity unequal length runner mold has had bad filling balance, and flash and short shot were observed. K-SAPLI eliminated the problems.



Example2: eliminating gas burn and sink mark

Molded product: connector
Resin: PBT (reinforced)



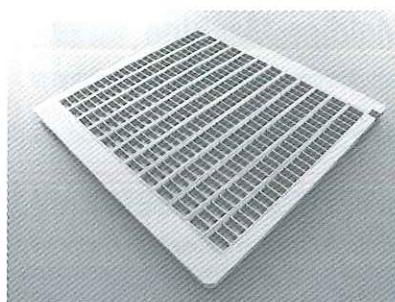
Excellent “Clean Operation” in Clean Room under Class 10,000

The amount of particle emission during continuous operation in an enclosed clean room is very minimal.

Example: cleanroom

Scattering of grease and oil mist peculiar to the electric machines is minimal, and NISSEI electric machines have been continuously running in clean rooms under Class 10,000.





High Quality Molding by Clamping Compression Molding (CPN3)

Clamping compression is done during filling, which is effective in reducing the stress on the molded products and facilitating gas release.

Example: effect of clamping compression molding (CPN3)

Molding defect

Warpage and deformation due to the filling pressure and residual stress were occurred. Change in injection velocity and holding pressure condition did not solve the problem.



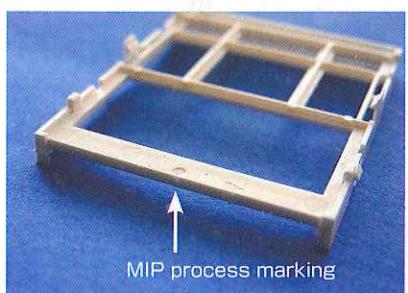
Reducing the stress on the molded products
Facilitating gas release

Improve

The residual stress was reduced by the CPN3's clamping compression effect. Warpage and deformation were significantly reduced, and molding of non-defective products were made possible.

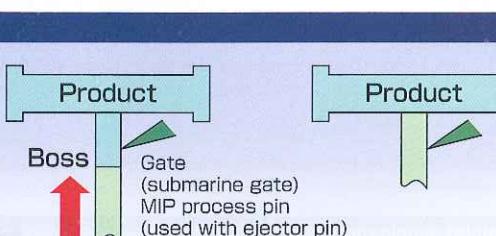
Simplifying Operation Process by Mold Inside Process (MIP)

Ejection during clamping materializes gate cut and partial compression of the products.



Example: use of mold inside process (MIP)

This is a gate cutting method that forwards MIP process pin by ejector forward motion before the boss cools and solidifies, and the resin filled inside the boss is pushed into the cavity. This eliminates the finishing process and has partial compression effect since the resin inside the boss is pushed into the cavity.

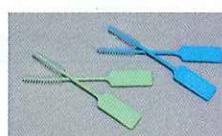


Electric Type Machines for Special Applications

NISSEI special-purpose machines are highly reputed for special material processing and molding methods, such as liquid silicone rubber and microcellular foam moldings.



Liquid silicone rubber (LSR)
injection molding machine
NEX80III-9ELM



Example of LSR molding
[Tooth brush]

Main equipment for liquid silicone rubber (LSR) injection molding machine

- 1 Molding machine cooling circuit
- 2 Water jacket
- 3 Mold temperature controller (display)
- 4 Shut off nozzle (RV)
- 5 Heat shield
- 6 Vacuum circuit (vacuum drawing)
- 7 Machine specification chart
- 8 Material permutation
- 9 Foaming stop circuit
- 10 Cooling time display
- 11 Material shut off valve (~12E)
- 12 Material feeding device (pressure pump)
- 13 Chiller (cooling device)*
- 14 Vacuum pump*
- 15 LSR metering device (2-liquid)*
- 16 Liquid B permutation
- 17 Material hose
- 18 Anti-freeze measures
- 19 Material feeding port temperature control circuit

* These auxiliary equipments are only supported on the injection molding machine side.

Metering device specifications

| Injection type | Metering device volume |
|----------------|------------------------|
| 2E | 20cc |
| 5E | 50cc |
| 9E | 90cc |
| 12E | 120cc |

Pressure pump specifications

| Pressure pump type | Output volume |
|--------------------|---------------|
| 1kg | 6cc/cycle |
| 4kg | 6cc/cycle |
| 5kg | 6cc/cycle |
| 18L pail can | 30cc/cycle |
| 200L drum | 100cc/cycle |

High-Sensitivity Mold Protection

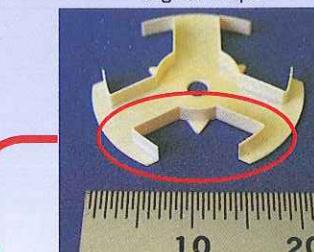
It opens mold instantaneously with "ultra high-speed reaction" after detecting a foreign object during mold close to protect valuable mold.

Example of foreign object detection

Product: insulator with a vertical rib ($t = 0.25\text{mm}$)

With a conventional machine's general foreign object detection, the vertical rib section is crushed completely while NEX-III Series with the high-sensitivity mold protection function keeps the original shape in nearly perfect form.

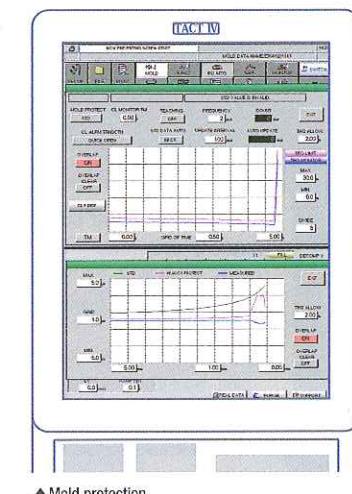
Original shape



General foreign object detection



High-sensitivity foreign object detection (NEX-III)



Reinforcing Quality Control Function to Grasp Productions

It permits networking of machines as well as accumulating and handing down the molding expertise.

Reinforced product pass/fail judgment function

Arbitrary selection of all process monitoring categories Full-range monitoring of injection pressure waveform

Numerical support of molding conditions by the automatic scatter diagram analysis and waveform analysis

A variety of useful features that support the optimization of molding conditions
Automatic scatter diagram analysis, waveform analysis, and monitor data trend graph display functions

Significantly larger operation data storage capacity

Event/monitor data: max. 100,000 events
Molding condition: max. 500 conditions

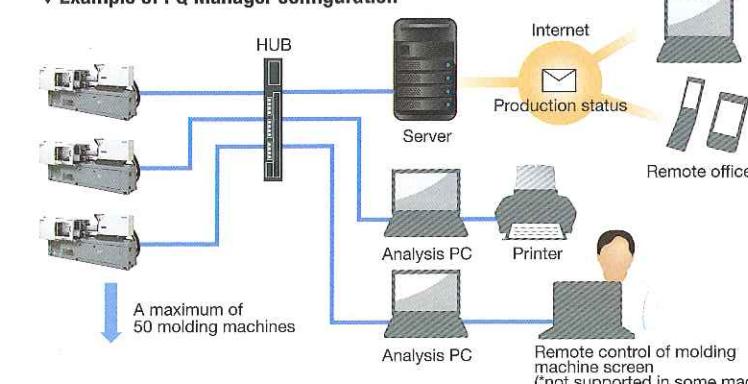
LAN and USB come standard

Remote control and diagnosis from a PC via LAN

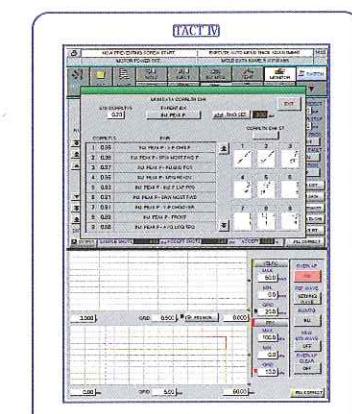
Connection capability to the quality & production management system PQ Manager (sold separately)

PQ Manager is package software that collects and analyzes quality/production information for up to 50 molding machines. It handles versatile applications, ranging from the quality analysis of one machine to the cluster management of multiple machines, offering the quality management and product analysis system at a low price. In addition, injection waveform, event, molding condition, monitor data in numerical value within a specified range can be utilized as traceability data while monitoring the trend graph in real-time.

▼ Example of PQ Manager configuration



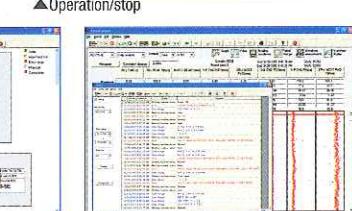
A maximum of
50 molding machines



PQ Manager's status monitoring screen



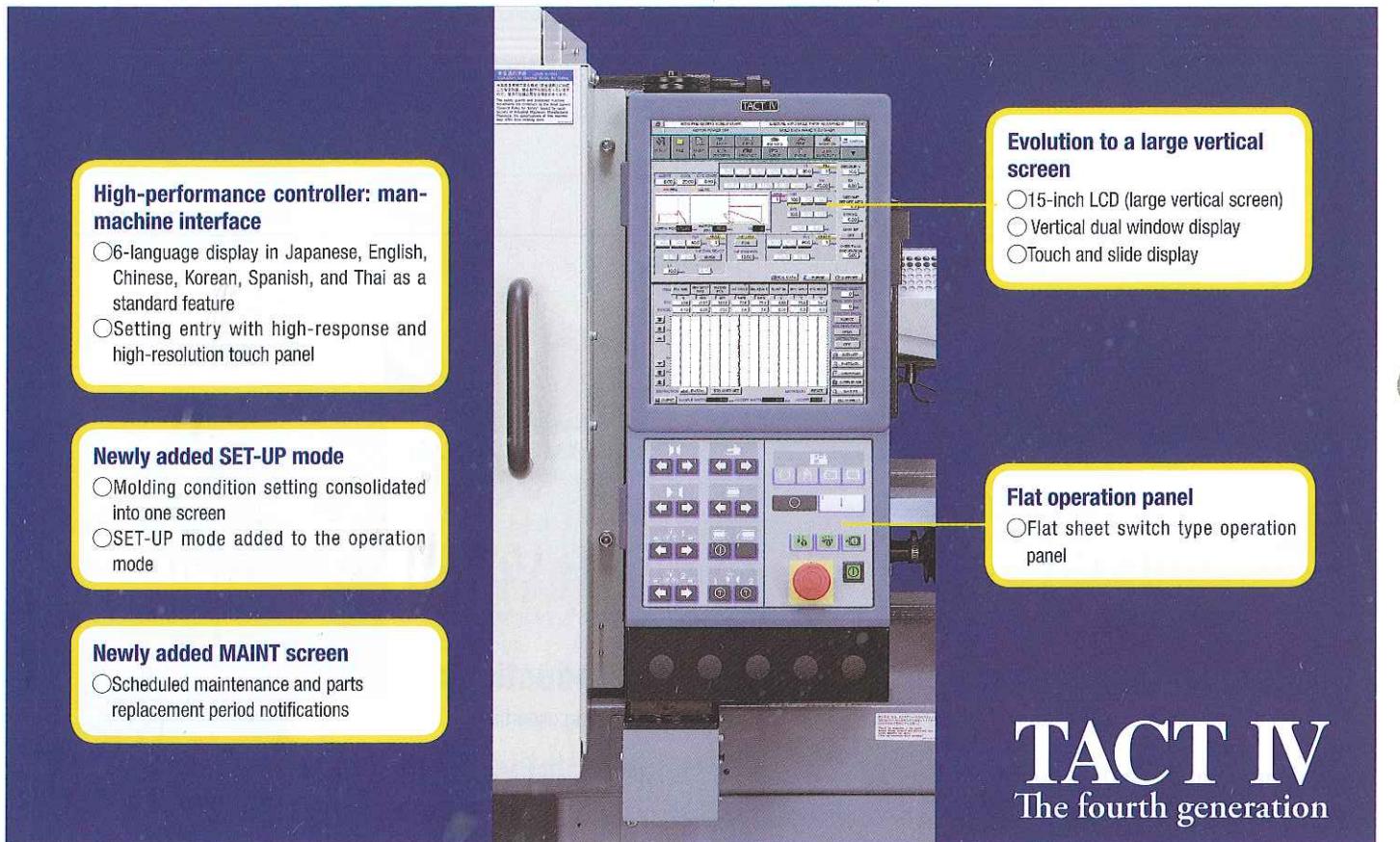
Operation/stop



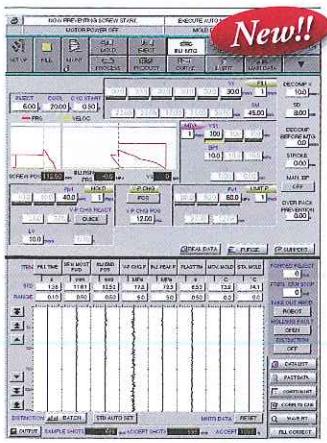
▲ Operation/stop
▲ Molding machine status monitoring
▲ Trend

High-Performance & High-Functional Controller TACT IV

Materialize molding you desire...the new controller that pursues better operability and workability



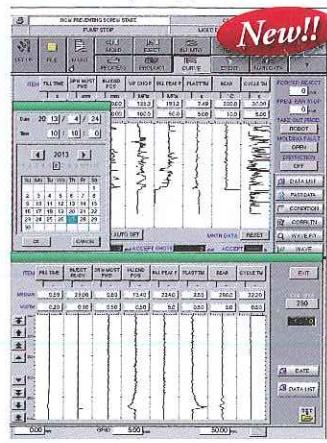
Easier to Use



The combination of two windows can be selected, such as mold trend data and molding condition windows. It meets the needs of the molding operators to minimize troublesome screen switching.

► Bright and easy-to-see vertical dual window display
Date specified event and monitor data display became possible.
► Molding condition (max. 500 conditions)
Saving waveform data and displaying image data are possible. Molding condition and an image of its product can be managed together as a set.
► Event/monitor data (max. 100,000 events)
It is helpful for maintenance and quality control (operation mode change, condition change, error, etc.).

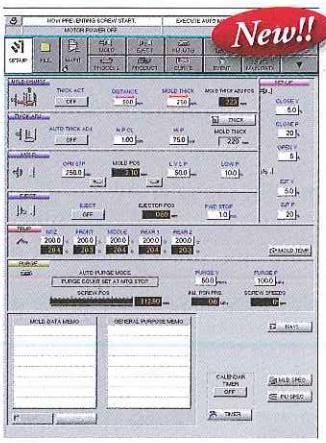
Traceability Support



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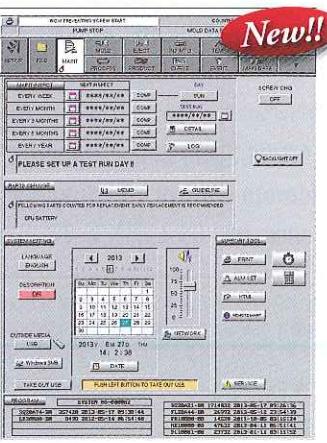
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SET-UP Mode/SET-UP Screen



TACT IV can notify when recommended scheduled maintenance and consumable parts replacement time arrive, and its related notes can be entered. It can notify arbitrary messages, such as for mold, screw, lubrication, maintenance period, etc. on specified dates or shots. Remote control of TACT screen from a PC via LAN is also possible.

Enriched Maintenance Functions

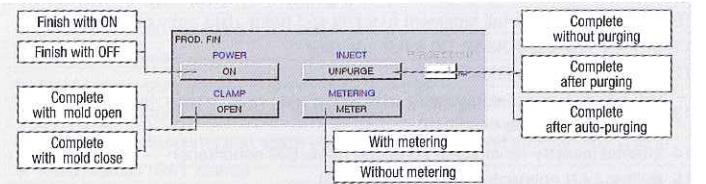


► Newly added MAINT screen
Scheduled maintenance and parts replacement period notifications

TACT IV The fourth generation

Shutdown Sequence New!!

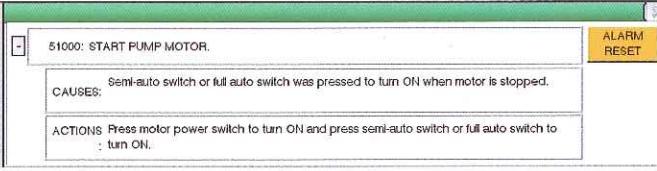
A variety of finishing states after completing production is available. Operating power state and shutdown sequence for each driving units can be freely selected.



▲ Selection of shutdown sequence after completing production

Descriptions of Errors New!!

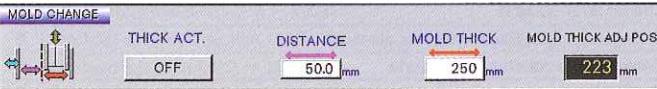
It displays error message and solution.



▲ Error message and its solution (touch [Error message] to show details)

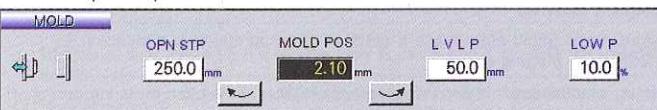
Automatic Mold Thickness Adjustment Function Mold Position Reading Function New!!

It automatically adjusts the position for the next mold during mold change.



▲ Automatic mold thickness adjustment

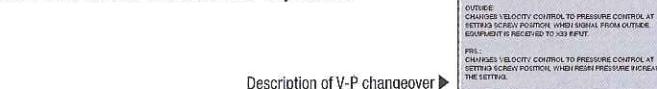
Mold open stop position and low-speed/low-pressure position can be set with a simple step.



▲ Mold Position Reading

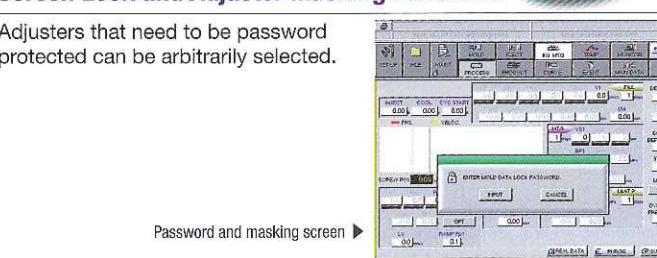
Descriptions of Adjusters New!!

It displays easy-to-understand definitions of the technical terms used for the adjusters.



Screen Lock and Adjuster Masking Functions New!!

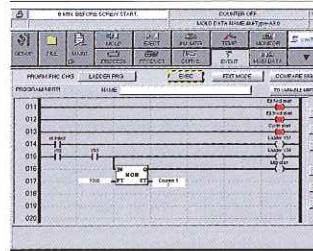
Adjusters that need to be password protected can be arbitrarily selected.



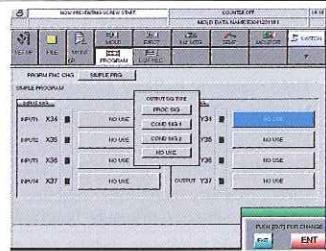
External Connections

[USB port] It can be connected to an external storage device (USB memory stick).
[LAN port] Connections to quality & production management software PQ Manager, molding data recorder/analyizer, and PC are possible.

Enriched Programming Function



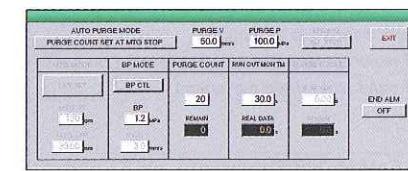
▲ Ladder programming



▲ Simple programming

Simple interface programs with auxiliary devices can freely be created on the screen. The program can be saved together with the molding data (ladder programming function). Various error input and signal output functions can be assigned to the four of input/output terminals (simple programming function).

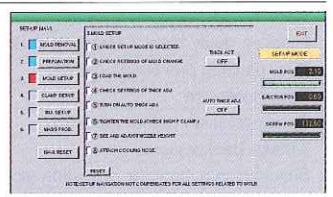
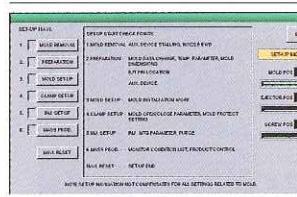
Flexible Purging Function



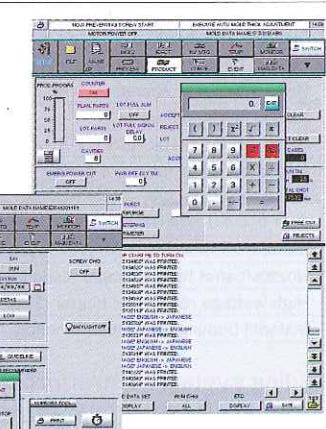
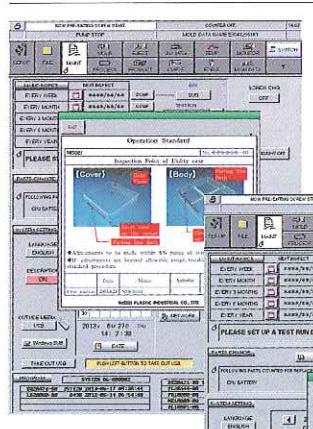
◀ Auto purging mode

This makes troublesome material and color change more efficient. It materializes flexible purging operations, such as purging with a fixed cycle, purging with added back pressure, and force retreat purging.

Setup Support Software "SET-UP Navigation" OPTION



Operations from removing mold to mass production preparation are divided into six steps, and this support function will guide you through each step. It educates inexperienced workers and reduces set-up time.



▲ Stopwatch and simple timer function

Clamping unit/mold

- 1 High-sensitivity mold protection (with graph overlay function/clamping torque display for mold protection)
- 2 Mold protection error re-confirmation circuit (motion selection upon the occurrence of abnormality)
- 3 Mold clamping halfway slowdown
- 4 Mold opening velocity: 4-stage
- 5 Mold opening pause
- 6 Processing inside mold-MIP (a mold design fitting MIP function is necessary.)
- 7 CPN3 (primary clamping→injection filling→specified injection position or specified injection pressure reached→secondary clamping)
- 8 Preset mold thickness shifting and mold position reading functions
- 9 Automatic mold thickness adjustment
- 10 Automatic clamping force adjustment (automatically adjust clamping force fluctuations due to outside factors) (Not available for NEX460III)
- 11 Direct clamping force setting (high-pressure clamping setting value is able to change during machine running) (Not available for NEX460III)
- 12 Optimal clamping force molding: 10%~100% (Not available for NEX460III)
- 13 Ejector (continuous operation/pause)
- 14 Ejector delay timer
- 15 Ejector forward velocity (halfway change/2-stage)
- 16 Ejector forward/backward stroke variable setting
- 17 Ejector plate backward confirmation (up to terminal)
- 18 Simultaneous operation of mold opening and ejection (ejector on the fly)
- 19 Simultaneous operation of mold and nozzle movement

Injection unit

- 1 Injection process control : 6-speed, 3-holding pressure, and 3-limit pressure
- 2 V-P changeover: 4 modes (position/VPV/injection pressure/external input signal)
- 3 V-P changeover response: 3 modes (voluntary/slow/high response)
- 4 Holding pressure control: 4 modes (pressure/positioning/pressure→positioning/positioning→pressure)
- 5 Injection during mold clamping (IDMC) and nozzle forward during mold clamping
- 6 Injection volume compensation control
- 7 Injection delay timer / Metering delay timer / Nozzle retraction delay timer
- 8 Over packing prevention circuit
- 9 Decompression
- 10 Decompression before metering
- 11 3-stage Backpressure
- 12 Simultaneous metering operation (screw recovery on the fly)
- 13 High precision metering control (pre-pack/precision metering)
- 14 Automatic purging circuit (with flexible purging mode)
- 15 Purging cover (with interlock)
- 16 Screw cold start prevention (all-zone sequential type)
- 17 Nozzle/barrel temperature upper/lower limit alarm
- 18 Nozzle/barrel temperature PID control
- 19 Simultaneous heating of nozzle and barrel
- 20 Hopper throat temperature screen display
- 21 Hopper throat temperature control (2EG~12EG, NEX110III~18E)
- 22 Nozzle heater circuit SSR
- 23 Barrel heater circuit SSR (2EG~36E)
- 24 4-zone barrel temperature control
- 25 Barrel heat retention circuit (forced heat retention and heat retention when an error occurs)
- 26 Barrel heat radiation/burn prevention cover
- 27 Nozzle/barrel heater simple disconnection alarm (detection by thermometers)
- 28 High wattage rear barrel heater (2EG~12EG)
- 29 Material burning prevention function

Molding system control/production management

- 1 TACT IV (15-inch vertical display and dual window display)
- 2 Flat operation panel
- 3 Shot counter/free shot counter
- 4 Production management counter /Production lot management counter (signal output is optional) / Cause-classified defective counter
- 5 Monitor data display and output (max. 100,000 events)

Cooling

- 1 Cooling water manifold for hopper throat

Operation safety

- 1 Alarm bell
- 2 Alarm lamp
- 3 Alarm buzzer
- 4 Emergency stop button (operator side)
- 5 Mold clamping safety device (mechanical/electrical)
- 6 Safety upper cover on clamping unit (NEX30III~140III)
- 7 High-pressure clamping and nozzle touch reset check after power turned off
- 8 Non-operator side safety door with acrylic plate
- 9 Screen lock and adjuster masking function (password protection)

Power

- 1 Main power breaker

Maintenance, installation, and miscellaneous

- 1 Automatic central grease lubrication
- 2 Periodical inspection support function (display of scheduled inspection date)
- 3 Parts replacement support function (display of recommended parts replacement period)
- 4 Tools

Clamping unit/mold

- 1 Locating ring attachment (non-fixed type) or locating ring assembly (fixed type)
- 2 Locating ring diameter change
- 3 Insulation plate (material and thickness to be specified depending on the heat resistance temperature)
- 4 Additional mold mounting bolt hole
- 5 Mold close pause
- 6 Mold temperature control (without thermocouple)
- 7 Mold temperature upper/lower limit alarm
- 8 Mold heater disconnection alarm (monitoring of the heater's electrical current)
- 9 Mold clamps (SAT clamp)
- 10 Quick mold change system (hydraulic, pneumatic, and magnetic)
- 11 Mold locating pin and block
- 12 Daylight extension (NEX30III: 70mm and NEX50III~NEX180III: 100mm)
- 13 Daylight extension (other than above)
- 14 T-slot plate (for NEX220III~NEX460III, use together with daylight extension)
- 15 Direct grooved T-slot
- 16 Linear guide movable platen support
- 17 Die plate cooling circuit (recommended for clamping linear guide)
- 18 Dual hydraulic cylinder nozzle carriage
- 19 Ejector plate return confirmation (with metal interface box)

Injection unit (EG • E • LE injection unit)

- 1 Nozzle/barrel heater disconnection alarm
- 2 Special-purpose nozzle, screw, screw tip, barrel, and end-cap (consultation required)
- 3 High-temperature resistant barrel
- 4 Barrel insulation cover
- 5 High-velocity injection (2EG ~ 100LE)
- 6 Ultra high-velocity injection (18E: 400mm/s and 25E ~ 36E: 350mm/s)
- 7 High-load injection (2EG ~ 100LE)
- 8 Injection high-precision (2EG ~ 12EG)
- 9 High precision metering control (pre-packII)
- 10 Low-pressure molding application K-SAPII
- 11 Hopper throat temperature control (NEX140III~18E, 25E ~ 210LE)
- 12 Hopper / Hopper slider
- 13 Hopper spacer (required if a hopper drier is used, and it touches the injection cover)
- 14 Hopper magnet

Operation safety

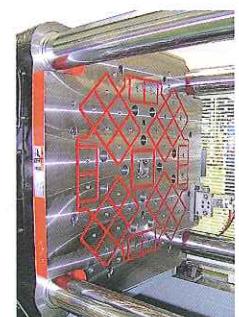
- 1 Alarm lamp with a stand
- 2 Rotary beacon light
- 3 Signal tower
- 4 Emergency stop button (non-operator side)
- 5 Non-operator side safety door lock (mechanical type)
- 6 Safety door with clear wide cover (non-operator side)
- 7 Clamping upper cover (standard for NEX140III and below)
- 8 Safety door automatic open/close (NEX220III and above)
- 9 Primary power indicator lamp

Power

- 1 Main power leakage breaker
- 2 Additional AC outlet
- 3 Electrical outlet circuit power shutdown
- 4 Installation of a step-down transformer

Maintenance, installation, and miscellaneous

- 1 Spear grease (specified grease type: NS1)
- 2 Mounting pad
- 3 Custom paint
- 4 Hoist stand



◀ Magnetic clamp

◀ Cooling water filter (Y strainer)
Cooling water circuit (with a return stop valve)
Cooling water circuit (with a flow checker)

◀ Additional AC outlet

■ EG · E · LE injection unit

| Models | | NEX15III | | | NEX30III | | | | | | NEX50III | | | NEX80III | | | | | | | | | |
|---------------------|------------------------------|---------------------|----------------------------------|------------------|------------------|----------------------------------|------------------|------------------|----------------------------------|-----------|------------------|----------------------------------|------------------|------------------|----------------------------------|------------------|------------------|----------------------------------|------------------|------------------|----------------------------------|-----------|--|
| Specification item | Unit | 2EG(Standard) | | | 2EG(Standard) | | | 3EG | | | 3EG | | | 5EG(Standard) | | | 5EG | | | 9EG(Standard) | | | |
| Injection | Screw diameter | in (mm) | AA 0.55(14) | A 0.63(16) | B 0.75(19) | A 0.63(16) | B 0.75(19) | A 0.75(19) | B 0.87(22) | | A 0.75(19) | B 0.87(22) | A 0.87(22) | B 1.02(26) | BB 1.10(28) | A 0.87(22) | B 1.02(26) | BB 1.10(28) | AA 1.02(26) | A 1.10(28) | B 1.26(32) | | |
| | Injection capacity | inch³ (cm³) (oz) | 0.5(8)(0.3) | 0.8(13)(0.4) | 1.1(18)(0.6) | 0.8(13)(0.4) | 1.1(18)(0.6) | 1.4(23)(0.8) | 2.1(35)(1.2) | | 1.4(23)(0.8) | 2.1(35)(1.2) | 2.1(35)(1.2) | 3.0(49)(1.6) | 3.5(57)(1.9) | 2.1(35)(1.2) | 3.0(49)(1.6) | 3.5(57)(1.9) | 3.3(54)(1.8) | 4.2(69)(2.3) | 5.5(90)(3.0) | | |
| | Plasticization capacity (PS) | lbs/h (kg/h) | 11.0(5) | 17.6(8) | 28.7(13) | 17.6(8) | 28.7(13) | 24.3(11) | 35.3(16) | | 24.3(11) | 35.3(16) | 35.3(16) | 50.7(23) | 70.5(32) | 35.3(16) | 50.7(23) | 70.5(32) | 41.9(19) | 61.7(28) | 88.2(40) | | |
| | Max. injection pressure | psi (MPa) (kgf/cm²) | 32649(225)(2295) | 38452(265)(2704) | 28440(196)(2000) | 38452(265)(2704) | 28440(196)(2000) | 38452(265)(2704) | 30430(210)(2140) | | 38452(265)(2704) | 30430(210)(2140) | 40629(280)(2857) | 28440(196)(2000) | 24590(169)(1725) | 40629(280)(2857) | 28440(196)(2000) | 24590(169)(1725) | 40629(280)(2857) | 35270(243)(2480) | 27020(186)(1900) | | |
| | Injection rate | Standard | inch³/s (cm³/s) | 4.7(77) | 6.2(101) | 8.7(142) | 6.2(101) | 8.7(142) | 8.7(142) | 8.7(142) | 11.6(190) | 8.7(142) | 11.6(190) | 11.6(190) | 16.2(265) | 18.8(308) | 11.6(190) | 16.2(265) | 18.8(308) | 9.7(159) | 11.3(185) | 14.7(241) | |
| | | High velocity | — | 4.3(70) | 6.0(99) | 4.3(70) | 6.0(99) | — | — | — | — | — | — | 8.1(133) | 11.3(186) | 13.2(216) | 8.1(133) | 11.3(186) | 13.2(216) | 16.2(265) | 18.8(308) | 24.5(402) | |
| | | High load | — | — | — | — | — | — | — | — | — | — | — | 8.1(133) | 11.3(186) | 13.2(216) | 7.7(127) | 9.0(148) | 11.8(193) | — | — | — | |
| | Injection velocity | Standard | inch/s (mm/s) | 19.7(500) | | | 19.7(500) | | | 19.7(500) | | | 19.7(500) | | | 19.7(500) | | | 11.8(300) | | | | |
| | | High velocity | — | 13.8(350) | | | 13.8(350) | | | — | | | — | | | 13.8(350) | | | 19.7(500) | | | | |
| | | High load | — | — | | | — | | | — | | | — | | | 13.8(350) | | | 11.8(300) | | | | |
| Clamping | Screw speeds | rpm | 0~400 | | | 0~400 | | | 0~350 | | | 0~350 | | | 0~350 | | | 0~350 | | | 0~300 | | |
| | Nozzle touch force | US ton (kN) (tf) | 0.6(5)(0.5) | | | 1.1(10)(1.0) | | | 1.1(10)(1.0) | | | 1.4(13)(1.3) | | | 1.4(13)(1.3) | | | 1.4(13)(1.3) | | | 1.4(13)(1.3) | | |
| | Hopper capacity (Optional) | Gal (L) | 4.0(15) | | | 4.0(15) | | | 4.0(15) | | | 4.0(15) | | | 4.0(15) | | | 4.0(15) | | | 6.6(25) | | |
| | Clamping force | US ton (kN) (tf) | 16.5(147)(15) | | | 33(294)(30) | | | 33(294)(30) | | | 55(490)(50) | | | 55(490)(50) | | | 88(784)(80) | | | 88(784)(80) | | |
| | Clamping stroke | inch (mm) | 6.3 (160) | | | 9.1(230) | | | 9.1(230) | | | 9.8(250) | | | 9.8(250) | | | 11.8(300) | | | 11.8(300) | | |
| | Mold thickness (min.-max.) | inch (mm) | 5.1~10.2 (130~260) | | | 5.9~12.0(150~305) | | | 5.9~12.0(150~305) | | | 6.7~14.2(170~360) | | | 6.7~14.2(170~360) | | | 7.9~15.2(200~385) | | | 7.9~15.2(200~385) | | |
| | Max. daylight opening | inch (mm) | 16.5 (420) | | | 21.1(535) | | | 21.1(535) | | | 24.0(610) | | | 24.0(610) | | | 27.0(685) | | | 27.0(685) | | |
| | Tie bar clearance (H×V) | inch (mm) | 10.2×10.2 (260×260) | | | 12.2×12.2(310×310) | | | 12.2×12.2(310×310) | | | 14.2×14.2(360×360) | | | 14.2×14.2(360×360) | | | 16.5×16.5(420×420) | | | 16.5×16.5(420×420) | | |
| | Die plate dimensions (H×V) | inch (mm) | 14.6×14.6 (370×370) | | | 17.7×17.7(450×450) | | | 17.7×17.7(450×450) | | | 19.9×19.9(505×505) | | | 19.9×19.9(505×505) | | | 22.8×22.8(580×580) | | | 22.8×22.8(580×580) | | |
| Electrical & others | Min. mold dimensions (H×V) | inch (mm) | 7.1×7.1 (180×180) | | | 8.5×8.5(215×215) | | | 8.5×8.5(215×215) | | | 10.0×10.0(255×255) | | | 10.0×10.0(255×255) | | | 11.6×11.6(295×295) | | | 11.6×11.6(295×295) | | |
| | Locating ring diameter | inch (mm) | 2.4 (60) | | | 2.4(60) | | | 2.4(60) | | | 3.9(100) | | | 3.9(100) | | | 3.9(100) | | | 3.9(100) | | |
| | Ejector force | US ton (kN) (tf) | 1.1 (10) (1.0) | | | 1.1(10)(1.0) | | | 1.1(10)(1.0) | | | 2.2(20)(2.0) | | | 2.2(20)(2.0) | | | 2.2(20)(2.0) | | | 2.2(20)(2.0) | | |
| | Ejector stroke | inch (mm) | 2.0 (50) | | | 2.0(50) | | | 2.0(50) | | | 2.8(70) | | | 2.8(70) | | | 3.0(75) | | | 3.0(75) | | |
| | Heater band capacity | kW | — | 3.12 | 3.55 | 3.12 | 3.55 | 4.21 | 4.86 | | 4.21 | 4.86 | 4.91 | 5.75 | 6.05 | 4.91 | 5.75 | 6.05 | 7.17 | 8.29 | 9.41 | | |
| Machine | Machine dimensions (LxWxH) | inch (m) | 105.5×34.6×59.4 (2.68×0.88×1.51) | | | 121.9×41.1×60.6 (3.10×1.04×1.54) | | | 124.6×41.1×60.6 (3.17×1.04×1.54) | | | 126.6×41.1×60.6 (3.22×1.04×1.54) | | | 140.4×42.3×62.8 (3.57×1.08×1.60) | | | 140.4×42.3×62.8 (3.57×1.08×1.60) | | | 164.0×44.3×65.9 (4.17×1.13×1.68) | | |
| | Floor dimensions (LxW) | inch (m) | 92.5×22.4 (2.35×0.57) | | | 112.6×27.6 (2.68×0.70) | | | 112.6×27.6 (2.68×0.70) | | | 122.0×28.3 (3.10×0.72) | | | 122.0×28.3 (3.10×0.72) | | | 141.7×29.5 (3.60×0.75) | | | 141.7×29.5 (3.60×0.75) | | |
| | Machine weight | lbs (t) | — | — | — | 4630(2.1) | 4850(2.2) | | | | 5732(2.6) | 5732(2.6) | | | | 7716(3.5) | | | | 8157(3.7) | | | |

| Models | | NEX80III | | | | NEX110III | | | | NEX110III | | | | NEX140III | | | | | | |
|---------------------|------------------------------|---------------------|-------------------------------------|-------------------|-------------------|-------------------------------------|-------------------|-------------------|-------------------------------------|-------------------|-------------------|-------------------------------------|-------------------|-------------------|-------------------------------------|-------------------|-------------------|-------------------------------------|--|--|
| Specification item | Unit | Injection type | | | 12EG | | | 9EG | | | 12EG(Standard) | | | 18E | | | 12EG | | | |
| Injection | Screw diameter | AA in (mm) | 1.10(28) | A 1.26(32) | B 1.42(36) | AA 1.02(26) | A 1.10(28) | B 1.26(32) | AA 1.10(28) | A 1.26(32) | B 1.42(36) | AA 1.26(32) | A 1.42(36) | B 1.57(40) | AA 1.10(28) | A 1.26(32) | B 1.42(36) | | | |
| | Injection capacity | inch³ (cm³) (oz) | 4.2(69) (2.3) | 6.2(101) (3.4) | 7.7(127) (4.3) | 3.3(54) (1.8) | 4.2(69) (2.3) | 5.5(90) (3.0) | 4.2(69) (2.3) | 6.2(101) (3.4) | 7.7(127) (4.3) | 7.1(117) (3.9) | 9.0(148) (5.0) | 11.1(182) (6.1) | 4.2(69) (2.3) | 6.2(101) (3.4) | 7.7(127) (4.3) | | | |
| | Plasticization capacity (PS) | lbs/h (kg/h) | 61.7(28) | 88.2(40) | 119(54) | 41.9(19) | 61.7(28) | 88.2(40) | 61.7(28) | 88.2(40) | 119(54) | 88.2(40) | 119(54) | 165(75) | 61.7(28) | 88.2(40) | 119(54) | | | |
| | Max. injection pressure | psi (MPa) (kgf/cm²) | 40629(280) (2857) | 32420(223) (2280) | 25683(177) (1806) | 40629(280) (2857) | 35270(243) (2480) | 27020(186) (1900) | 40629(280) (2857) | 32420(223) (2280) | 25683(177) (1806) | 40048(276) (2816) | 31570(218) (2220) | 25683(177) (1806) | 40629(280) (2857) | 32420(223) (2280) | 25683(177) (1806) | | | |
| | Injection rate | Standard | 10.1(166) | 13.2(217) | 16.8(275) | 9.7(159) | 11.3(185) | 14.7(241) | 10.1(166) | 13.2(217) | 16.8(275) | 9.8(161) | 12.4(204) | 15.3(251) | 10.1(166) | 13.2(217) | 16.8(275) | | | |
| | High velocity | inch³/s (cm³/s) | 15.0(246) | 19.6(322) | 24.8(407) | 16.2(265) | 18.8(308) | 24.5(402) | 15.0(246) | 19.6(322) | 24.8(407) | 14.7(241) | 18.6(305) | 23.0(377) | 15.0(246) | 19.6(322) | 24.8(407) | | | |
| | High load | inch³/s (cm³/s) | 9.0(148) | 11.8(193) | 14.9(244) | 9.7(159) | 11.3(185) | 14.7(241) | 9.0(148) | 11.8(193) | 14.9(244) | 9.8(161) | 12.4(204) | 15.3(251) | 9.0(148) | 11.8(193) | 14.9(244) | | | |
| | Standard | inch/s (mm/s) | 10.6(270) | | | 11.8(300) | | | 10.6(270) | | | 7.9(200) | | | 10.6(270) | | | | | |
| | High velocity | inch/s (mm/s) | 15.7(400) | | | 19.7(500) | | | 15.7(400) | | | 11.8(300) | | | 15.7(400) | | | | | |
| | High load | inch/s (mm/s) | 9.4(240) | | | 11.8(300) | | | 9.4(240) | | | 7.9(200) | | | 9.4(240) | | | | | |
| Screw speeds | Screw speeds | rpm | 0~300 | | | 0~300 | | | 0~300 | | | 0~300 | | | 0~300 | | | | | |
| | Nozzle touch force | US ton (kN) (tf) | 1.4(13) (1.3) | | | 1.9(17) (1.7) | | | 1.9(17) (1.7) | | | 1.9(17) (1.7) | | | 1.9(17) (1.7) | | | | | |
| | Hopper capacity (Optional) | Gal (L) | 6.6(25) | | | 6.6(25) | | | 6.6(25) | | | 6.6(25) | | | 6.6(25) | | | | | |
| | Clamping force | US ton (kN) (tf) | 88(784) (80) | | | 121(1080) (110) | | | 121(1080) (110) | | | 121(1080) (110) | | | 121(1080) (110) | | | | | |
| | Clamping stroke | inch (mm) | 11.8(300) | | | 13.8(350) | | | 13.8(350) | | | 13.8(350) | | | 15.7(400) | | | | | |
| | Mold thickness (min.-max.) | inch (mm) | 7.9~15.2(200~385) | | | 8.7~16.1(220~410) | | | 8.7~16.1(220~410) | | | 8.7~16.1(220~410) | | | 8.7~17.7(220~450) | | | | | |
| | Max. daylight opening | inch (mm) | 27.0(685) | | | 29.9(760) | | | 29.9(760) | | | 29.9(760) | | | 33.5(850) | | | | | |
| | Tie bar clearance (H×V) | inch (mm) | 16.5×16.5(420×420) | | | 18.1×18.1(460×460) | | | 18.1×18.1(460×460) | | | 18.1×18.1(460×460) | | | 20.1×18.1(510×460) | | | | | |
| Clamping | Die plate dimensions (H×V) | inch (mm) | 22.8×22.8(580×580) | | | 25.5×25.5(647×647) | | | 25.5×25.5(647×647) | | | 25.5×25.5(647×647) | | | 28.3×26.4(720×670) | | | | | |
| | Min. mold dimensions (H×V) | inch (mm) | 11.6×11.6(295×295) | | | 12.8×12.8(325×325) | | | 12.8×12.8(325×325) | | | 12.8×12.8(325×325) | | | 12.8×12.8(325×325) | | | | | |
| | Locating ring diameter | inch (mm) | 3.9(100) | | | 3.9(100) | | | 3.9(100) | | | 3.9(100) | | | 4.7(120) | | | | | |
| | Ejector force | US ton (kN) (tf) | 2.2(20) (2.0) | | | 2.6(24) (2.4) | | | 2.6(24) (2.4) | | | 2.6(24) (2.4) | | | 4.0(35) (3.6) | | | | | |
| Electrical & others | Ejector stroke | inch (mm) | 3.0(75) | | | 3.3(85) | | | 3.3(85) | | | 3.3(85) | | | 4.3(110) | | | | | |
| | Heater band capacity | kW | 8.29 | | | 9.41 | | | 7.17 | | | 8.29 | | | 9.41 | | | | | |
| | Machine dimensions (L×W×H) | inch (m) | 164.4×44.3×65.9 (4.18×1.13×1.68) | | | 167.9×44.3×65.9 (4.27×1.13×1.68) | | | 170.5×44.3×65.9 (4.33×1.13×1.68) | | | 181.5×47.0×70.9 (4.61×1.20×1.80) | | | 183.9×47.0×70.9 (4.67×1.20×1.80) | | | 197.0×52.0×71.5 (5.01×1.32×1.82) | | |
| | Floor dimensions (L×W) | inch (m) | 141.7×29.5 (3.60×0.75) | | | 162.6×30.7 (4.13×0.78) | | | 162.6×30.7 (4.13×0.78) | | | 162.6×30.7 (4.13×0.78) | | | 172.4×36.6 (4.38×0.93) | | | | | |
| | Machine weight | lbs (t) | 8157(3.7) | | | 10582(4.8) | | | 10582(4.8) | | | 11023(5.0) | | | 13448(6.1) | | | | | |

- Actual plasticizing capacities may vary, depending on the molding conditions and material.
- Maximum injection pressures indicate the maximum output of the injection units, not the resin pressures.

resin pressures.

- Maximum injection pressures are the highest values that can be set on the machines. These values may be limited, depending on the molding conditions.
- Maximum injection rates in the tables are the estimated values that were derived from a formula, and these

- Maximum injection rates in the tables are the estimated values that were derived from a formula, and these are not guaranteed values when the maximum Injection pressures are reached.

- Clamping forces may be lower than the values in the tables if molds smaller than indicated minimum mold sizes are used.
- Specifications are subject to change without notice due to continuous performance improvement.

- Specifications are subject to change without notice due to continuous performance improvement.
- 1 MPa = 10.2 kgf/cm² ≈ 10 kgf/cm², 1 kN = 0.102 tf ≈ 0.1 tf

NEX-III Series Performance specifications

EG • E • LE injection unit

| Models | | NEX140III | | | | | | NEX180III | | | | | | | | | | |
|---------------------|------------------------------|---|----------------------------------|-------------------|----------------------------------|----------------------------------|-------------------|----------------------------------|-----------------------|-------------------|----------------------------------|-----------------------|-------------------|----------------------------------|------------------------|----------------------------------|-------------------|----------------------------------|
| Specification item | Unit | 18E(Standard) | | | 25E | | | 18E | | | 25E(Standard) | | | 36E(Standard) | | | | |
| Injection | Screw diameter | in (mm) | AA 1.26(32) | A 1.42(36) | B 1.57(40) | AA 1.42(36) | A 1.57(40) | B 1.77(45) | AA 1.26(32) | A 1.42(36) | B 1.57(40) | AA 1.42(36) | A 1.57(40) | B 1.77(45) | AA 1.57(40) | A 1.77(45) | B 1.97(50) | |
| | Injection capacity | inch ³ (cm ³) (oz) | 7.1(117) (3.9) | 9.0(148) (5.0) | 11.1(182) (6.1) | 9.9(163) (5.5) | 12.3(201) (6.7) | 15.5(254) (8.5) | 7.1(117) (3.9) | 9.0(148) (5.0) | 11.1(182) (6.1) | 9.9(163) (5.5) | 12.3(201) (6.7) | 15.5(254) (8.5) | 13.8(226) (7.6) | 17.5(286) (9.6) | 21.5(353) (11.8) | |
| | Plasticization capacity (PS) | lbs/h (kg/h) | 88.2(40) | 119(54) | 165(75) | 119(54) | 165(75) | 225(102) | 88.2(40) | 119(54) | 165(75) | 119(54) | 165(75) | 225(102) | 137(62) | 201(91) | 254(115) | |
| | Max. injection pressure | psi (MPa) (kgf/cm ²) | 40048(276) (2816) | 31570(218) (2220) | 25683(177) (1806) | 37872(261) (2663) | 30580(211) (2150) | 24250(167) (1705) | 40048(276) (2816) | 31570(218) (2220) | 25683(177) (1806) | 37872(261) (2663) | 30580(211) (2150) | 24250(167) (1705) | 37727(260) (2653) | 29860(206) (2100) | 24250(167) (1705) | |
| Injection rate | Standard | inch ³ /s (cm ³ /s) | 9.8(161) | 12.4(204) | 15.3(251) | 11.2(183) | 13.8(226) | 17.5(286) | 9.8(161) | 12.4(204) | 15.3(251) | 11.2(183) | 13.8(226) | 17.0(278) | 13.8(226) | 17.5(286) | 21.0(344) | |
| | High velocity | inch ³ /s (cm ³ /s) | 14.7(241) | 18.6(305) | 23.0(377) | 16.8(275) | 20.7(339) | 26.2(429) | 14.1(241) | 18.6(305) | 23.0(377) | 16.8(275) | 20.7(339) | 24.3(398) | 20.7(339) | 30.0(492) | 30.0(491) | |
| | High load | inch ³ /s (cm ³ /s) | 9.8(161) | 12.4(204) | 15.3(251) | 11.2(183) | 13.8(226) | 17.5(286) | 9.8(161) | 12.4(204) | 15.3(251) | 11.2(183) | 13.8(226) | 17.5(286) | 13.8(226) | 17.5(286) | 21.5(353) | |
| | Standard | inch/s (mm/s) | 7.9(200) | | | 7.1(180) | | | 7.9(200) | | | 7.1(180) | | | 7.1(180) | | | |
| Injection velocity | High velocity | inch/s (mm/s) | 11.8(300) | | | 10.6(270) | | | 11.8(300) | | | 10.6(270) | | | 10.6(270) | | | |
| | High load | inch/s (mm/s) | 7.9(200) | | | 7.1(180) | | | 7.9(200) | | | 7.1(180) | | | 7.1(180) | | | |
| | Screw speeds | rpm | 0~300 | | | 0~300 | | | 0~300 | | | 0~300 | | | 0~250 | | | |
| | Nozzle touch force | US ton (kN) (tf) | 1.9(17) (1.7) | | | 2.5(23) (2.3) | | | 2.5(23) (2.3) | | | 2.5(23) (2.3) | | | 2.5(23) (2.3) | | | |
| Clamping | Hopper capacity (Optional) | Gal (L) | 6.6(25) | | | 11.9(45) | | | 6.6(25) | | | 11.9(45) | | | 11.9(45) | | | |
| | Clamping force | US ton (kN) (tf) | 154(1373) (140) | | | 154(1373) (140) | | | 198(1765) (180) | | | 198(1765) (180) | | | 198(1765) (180) | | | |
| | Clamping stroke | inch (mm) | 15.7(400) | | | 15.7(400) | | | 17.7(450) | | | 17.7(450) | | | 17.7(450) | | | |
| | Mold thickness (min.-max.) | inch (mm) | 8.7~17.7(220~450) | | | 8.7~17.7(220~450) | | | 9.8~20.1(250~510) | | | 9.8~20.1(250~510) | | | 9.8~20.1(250~510) | | | |
| Electrical & others | Max. daylight opening | inch (mm) | 33.5(850) | | | 33.5(850) | | | 37.8(960) | | | 37.8(960) | | | 37.8(960) | | | |
| | Tie bar clearance (H×V) | inch (mm) | 20.1×18.1(510×460) | | | 20.1×18.1(510×460) | | | 22.0×22.0(560×560) | | | 22.0×22.0(560×560) | | | 22.0×22.0(560×560) | | | |
| | Die plate dimensions (H×V) | inch (mm) | 28.3×26.4(720×670) | | | 28.3×26.4(720×670) | | | 31.5×31.5(800×800) | | | 31.5×31.5(800×800) | | | 31.5×31.5(800×800) | | | |
| | Min. mold dimensions (H×V) | inch (mm) | 12.8×12.8(325×325) | | | 12.8×12.8(325×325) | | | 15.6×15.6(395×395) | | | 15.6×15.6(395×395) | | | 15.6×15.6(395×395) | | | |
| Electrical & others | Locating ring diameter | inch (mm) | 4.7(120) | | | 4.7(120) | | | 4.7(120) | | | 4.7(120) | | | 4.7(120) | | | |
| | Ejector force | US ton (kN) (tf) | 4.0(35) (3.6) | | | 4.0(35) (3.6) | | | 4.4(39) (4.0) | | | 4.4(39) (4.0) | | | 4.4(39) (4.0) | | | |
| | Ejector stroke | inch (mm) | 4.3(110) | | | 4.3(110) | | | 4.3(110) | | | 4.3(110) | | | 4.3(110) | | | |
| | Heater band capacity | kW | 8.88 | | 10.57 | 10.54 | | 13.01 | | | 8.88 | | 10.57 | 10.54 | | 13.01 | | 12.53 |
| Electrical & others | Machine dimensions (L×W×H) | inch (m) | 197.0×52.0×71.5 (5.01×1.32×1.82) | | 198.8×52.0×71.5 (5.05×1.32×1.82) | 197.0×52.0×71.5 (5.01×1.32×1.82) | | 203.5×52.0×71.5 (5.17×1.37×2.07) | | | 219.3×53.9×81.5 (5.57×1.37×2.07) | | | 219.3×53.9×81.5 (5.57×1.37×2.07) | | 221.8×53.9×81.5 (5.64×1.37×2.07) | | 225.8×53.9×81.5 (5.74×1.37×2.07) |
| | Floor dimensions (L×W) | inch (m) | 172.4×36.6 (4.38×0.93) | | | 172.4×36.6 (4.38×0.93) | | | 192.9×37.8 (4.9×0.96) | | | 192.9×37.8 (4.9×0.96) | | | 190.9×37.8 (4.85×0.96) | | | |
| | Machine weight | lbs (t) | 13889(6.3) | | | 16212(6.9) | | | 15432(7.0) | | | 16755(7.6) | | | 17417(7.9) | | | |

| Models | | NEX220III | | | | | | NEX280III | | | | | | NEX360III | | | |
|--------------------|------------------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Specification item | Unit | 50E(Standard) | | | 71E | | | 71E(Standard) | | | 100E | | | 100LE(Standard) | | | |
| Injection | Screw diameter | in (mm) | AA 1.77(45) | A 1.97(50) | B 2.20(56) | AA 1.97(50) | A 2.20(56) | B 2.48(63) |
| | Injection capacity | inch ³ (cm ³) (oz) | 19.9(326) (10.9) | 24.6(403) (13.5) | 30.8(505) (16.9) | 27.0(442) (14.8) | 33.8(554) (18.6) | 42.8(701) (23.5) | 27.0(442) (14.8) | 33.8(554) (18.6) | 42.8(701) (23.5) | 33.6(550) (18.4) | 47.4(776) (26.0) | 59.9(982) (32.9) | 33.6(550) (18.4) | 47.4(776) (26.0) | 59.9(982) (32.9) |
| | Plasticization capacity (PS) | lbs/h (kg/h) | 201(91) | 254(115) | 342(155) | 254(115) | 344(156) | 461(209) | 254(115) | 344(156) | 461(209) | 254(115) | 344(156) | 461(209) | 254(115) | 344(156) | 461(209) |
| | Max. injection pressure | psi (MPa) (kgf/cm ²) | 36275(250) (2551) | 29308(202) (2061) | 23364(161) (1643) | 36120(249) (2540) | 28870(199) (2030) | 22750(157) (1600) | 36120(249) (2540) | 28870(199) (2030) | 22750(157) (1600) | 36120(249) (2540) | 28870(199) (2030) | 22750(157) (1600) | 36120(249) (2540) | 28870(199) (2030) | 22750(157) (1600) |
| Injection rate | Standard | inch ³ /s | | | | | | | | | | | | | | | |

NEX-III Series Performance specifications
■ EG • E • LE injection unit

| Models | | NEX360III | | NEX460III | | | | | |
|------------------------------|---------------|----------------------------|-------------------------|-------------------------------------|--------------------------------------|------------------------|-----------------------|-----------------------|---------------|
| Specification item | | Unit | Injection type | 140LE | | 140LE(Standard) | | 210LE★ | |
| Injection | | Screw diameter | in (mm) | A 2.48(63) | B 2.80(71) | A 2.48(63) | B 2.80(71) | A 3.10(80) | B 3.50(90) |
| Injection capacity | | inch³ (cm³) (oz) | 67.5(1107)(37.1) | 85.8(1406)(47.1) | 67.5(1107)(37.1) | 85.8(1406)(47.1) | 128.8(2111)(70.7) | 163.0(2672)(89.5) | |
| Plasticization capacity (PS) | | lbs/h (kg/h) | 461(209) | 542(246) | 461(209) | 542(246) | 611(277) | 827(375) | |
| Max. injection pressure | | psi (MPa) (kgf/cm²) | 29150(201)(2050) | 22900(158)(1610) | 29150(201)(2050) | 22900(158)(1610) | 27020(186)(1900) | 21330(147)(1500) | |
| Injection rate | Standard | inch³/s (cm³/s) | 30.4(499) | 38.6(633) | 30.4(499) | 38.6(633) | 49.1(804) | 62.1(1018) | |
| | High velocity | — | — | — | — | — | — | — | |
| | High load | — | — | — | — | — | — | — | |
| Injection velocity | Standard | inch/s (mm/s) | 6.3(160) | 6.3(160) | 6.3(160) | 6.3(160) | — | — | |
| | High velocity | — | — | — | — | — | — | — | |
| | High load | — | — | — | — | — | — | — | |
| Screw speeds | | rpm | 0~250 | 0~210 | 0~250 | 0~210 | 0~160 | 0~160 | |
| Nozzle touch force | | US ton (kN) (tf) | 4.4(39)(4.0) | 4.4(39)(4.0) | 4.4(39)(4.0) | 4.4(39)(4.0) | — | — | |
| Hopper capacity (Optional) | | Gal (L) | 23.8(90) | 23.8(90) | 23.8(90) | 23.8(90) | — | — | |
| Clamping | | Clamping force | US ton (kN) (tf) | 397(4530)(360) | 507(4510)(460) | 507(4510)(460) | 507(4510)(460) | 507(4510)(460) | |
| Clamping stroke | | inch (mm) | 25.6(650) | 31.5(800) | 31.5(800) | 31.5(800) | 31.5(800) | 31.5(800) | |
| Mold thickness (min.-max.) | | inch (mm) | 13.8~27.2(350~690) | 14.8~30.3(375~770) | 14.8~30.3(375~770) | 14.8~30.3(375~770) | 14.8~30.3(375~770) | 14.8~30.3(375~770) | |
| Max. daylight opening | | inch (mm) | 52.8(1340) | 61.8(1570) | 61.8(1570) | 61.8(1570) | 61.8(1570) | 61.8(1570) | |
| Tie bar clearance (H×V) | | inch (mm) | 28.9×28.9(735×735) | 32.3×32.3(820×820) | 32.3×32.3(820×820) | 32.3×32.3(820×820) | 32.3×32.3(820×820) | 32.3×32.3(820×820) | |
| Die plate dimensions (H×V) | | inch (mm) | 41.5×41.5(1055×1055) | 46.9×46.9(1190×1190) | 46.9×46.9(1190×1190) | 46.9×46.9(1190×1190) | 46.9×46.9(1190×1190) | 46.9×46.9(1190×1190) | |
| Min. mold dimensions (H×V) | | inch (mm) | 20.5×20.5(520×520) | 22.8×22.8(580×580) | 22.8×22.8(580×580) | 22.8×22.8(580×580) | 22.8×22.8(580×580) | 22.8×22.8(580×580) | |
| Locating ring diameter | | inch (mm) | 4.7(120) | 5.9(150) | 5.9(150) | 5.9(150) | 5.9(150) | 5.9(150) | |
| Ejector force | | US ton (kN) (tf) | 8.8(78)(8.0) | 11(98)(10.0) | 11(98)(10.0) | 11(98)(10.0) | 11(98)(10.0) | 11(98)(10.0) | |
| Ejector stroke | | inch (mm) | 5.9(150) | 6.3(160) | 6.3(160) | 6.3(160) | 6.3(160) | 6.3(160) | |
| Electrical & others | | Heater band capacity | kW | 31.5 | 31.5 | 31.5 | 31.5 | 35.9 | |
| | | Machine dimensions (L×W×H) | inch (m) | 290.7×70.1×90.7 (7.41×1.78×2.31) | 316.1×78.1×101.0 (8.03×1.99×2.57) | — | — | — | |
| | | Floor dimensions (L×W) | inch (m) | 266.1×42.1 (6.76×1.07) | 293.3×53.9 (7.45×1.37) | — | — | — | |
| | | Machine weight | lbs (t) | 40785(18.5) | 57761(26.2) | — | — | — | |

■ EN injection unit (High-velocity and high-pressure injection)

| Models | | NEX80III | | NEX110III | | NEX180III | | | |
|---------------------------------|--|----------------------------|-------------------------|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|
| Specification item | | Unit | Injection type | 9EN | | 9EN | | 18EN | |
| Injection | | Screw diameter | in (mm) | AA 1.02(26) | B 1.26(32) | AA 1.02(26) | B 1.26(32) | AAA 1.10(28) | AA 1.26(32) |
| Injection capacity | | inch³ (cm³) (oz) | 3.0(49)(1.6) | 4.5(74)(2.5) | 3.0(49)(1.6) | 4.5(74)(2.5) | 3.2(52)(1.7) | 7.1(117)(3.9) | |
| Plasticization capacity (PS) | | lbs/h (kg/h) | 41.9(19) | 88.2(40) | 41.9(19) | 88.2(40) | 61.7(28) | 88.2(40) | |
| Max. injection pressure | | psi (MPa) (kgf/cm²) | 32649(225)(2296) | 21614(149)(1520) | 32649(225)(2296) | 21614(149)(1520) | 49486(341)(3480) | 40040(276)(2816) | |
| Peak injection pressure | | psi (MPa) (kgf/cm²) | 42077(290)(2959) | 27715(191)(1949) | 42077(290)(2959) | 27715(191)(1949) | — | — | |
| Max. injection holding pressure | | psi (MPa) (kgf/cm²) | 32649(225)(2296) | 24273(168)(1714) | 32649(225)(2296) | 24273(168)(1714) | 49329(340)(3469) | 40044(276)(2816) | |
| Injection rate | | inch³/s (cm³/s) | 25.9(425) | 39.2(643) | 25.9(425) | 39.2(643) | 15.0(246) | 19.6(322) | |
| Injection velocity | | inch/s (mm/s) | 31.5(800) | 31.5(800) | 31.5(800) | 31.5(800) | 15.7(400) | 15.7(400) | |
| Screw speeds | | rpm | 0~300 | 0~300 | 0~300 | 0~300 | 0~300 | 0~300 | |
| Nozzle touch force | | US ton (kN) (tf) | 1.4(13)(1.3) | 1.9(17)(1.7) | 1.9(17)(1.7) | 2.5(23)(2.3) | 2.5(23)(2.3) | 2.5(23)(2.3) | |
| Hopper capacity (optional) | | Gal (L) | 6.6(25) | 6.6(25) | 6.6(25) | 6.6(25) | 6.6(25) | 6.6(25) | |
| Clamping | | Clamping force | US ton (kN) (tf) | 88(784)(80) | 121(1080)(110) | 198(1765)(180) | 198(1765)(180) | 198(1765)(180) | |
| Clamping stroke | | inch (mm) | 11.8(300) | 13.8(350) | 17.7(450) | 17.7(450) | 17.7(450) | 17.7(450) | |
| Mold thickness (min.-max.) | | inch (mm) | 7.9~15.2(200~385) | 8.7~16.1(220~410) | 9.8~20.1(250~510) | 9.8~20.1(250~510) | 9.8~20.1(250~510) | 9.8~20.1(250~510) | |
| Max. daylight opening | | inch (mm) | 27.0(685) | 29.9(760) | 37.8(960) | 37.8(960) | 37.8(960) | 37.8(960) | |
| Tie bar clearance (H×V) | | inch (mm) | 16.5×16.5(420×420) | 18.1×18.1(460×460) | 22.0×22.0(560×560) | 22.0×22.0(560×560) | 22.0×22.0(560×560) | 22.0×22.0(560×560) | |
| Die plate dimensions (H×V) | | inch (mm) | 22.8×22.8(580×580) | 25.5×25.5(647×647) | 31.5×31.5(800×800) | 31.5×31.5(800×800) | 31.5×31.5(800×800) | 31.5×31.5(800×800) | |
| Min. mold dimensions (H×V) | | inch (mm) | 11.6×11.6(295×295) | 12.8×12.8(325×325) | 15.6×15.6(395×395) | 15.6×15.6(395×395) | 15.6×15.6(395×395) | 15.6×15.6(395×395) | |
| Locating ring diameter | | inch (mm) | 3.9(100) | 3.9(100) | 4.7(120) | 4.7(120) | 4.7(120) | 4.7(120) | |
| Ejector force | | US ton (kN) (tf) | 2.2(20)(2.0) | 2.6(24)(2.4) | 4.4(39)(4.0) | 4.4(39)(4.0) | 4.4(39)(4.0) | 4.4(39)(4.0) | |
| Ejector stroke | | inch (mm) | 3.0(75) | 3.3(85) | 4.3(110) | 4.3(110) | 4.3(110) | 4.3(110) | |
| Electrical & others | | Heater band capacity | kW | 7.17 | 9.41 | 7.41 | 9.45 | 6.12 | 9 |
| | | Main breaker capacity | A | 125 | — | 125 | — | 125 | — |
| | | Machine dimensions (L×W×H) | inch (m) | — | — | — | — | — | — |
| | | Floor dimensions (L×W) | inch (m) | — | — | | | | |

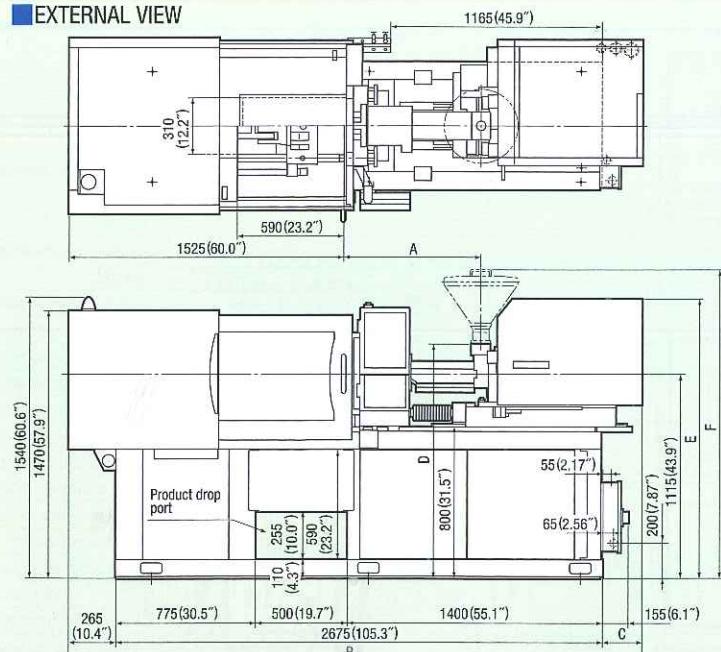
NEX-III Series

NEX30III-2EG★ / NEX30III-3EG

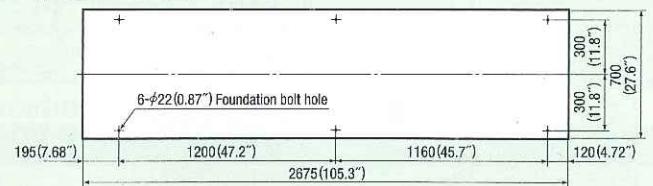
The ★ indicates the standard combination.

- Injection type : ① 2EG [Screw diameter : $\phi 16(0.63")/\phi 19(0.75")$]★
 : ② 3EG [Screw diameter : $\phi 19(0.75")/\phi 22(0.87")$]

■ EXTERNAL VIEW

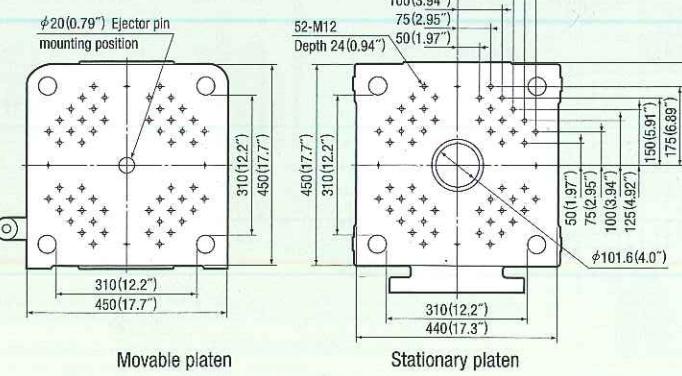
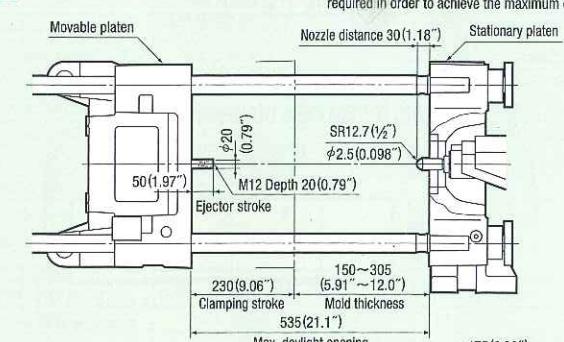


■ FOUNDATION DIAGRAM

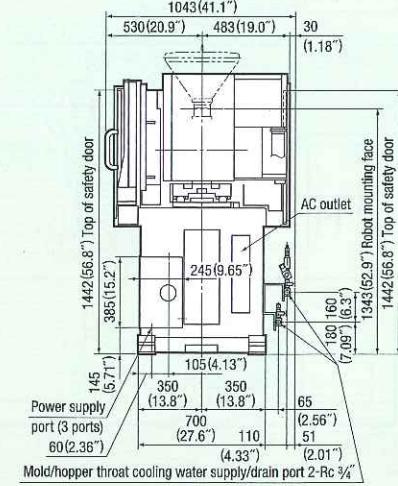


■ MOLD ATTACHMENT DIAGRAM

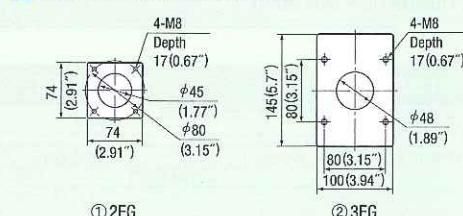
*The minimum mold dimensions of 215(8.46")×215(8.46") are required in order to achieve the maximum clamping force.



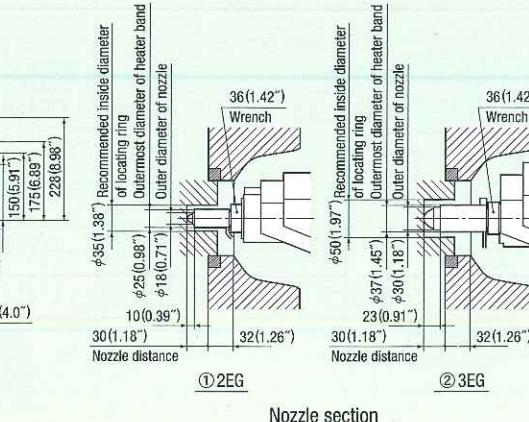
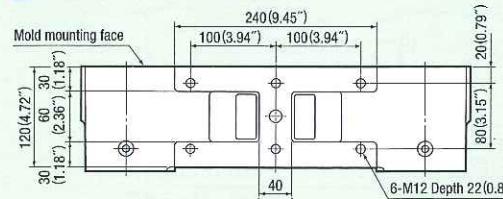
| Injection type | Screw dia. | A | B | C | D | E | F |
|----------------|------------|------------------------------|------|---------------|-----------|-----------|-----------|
| ① 2EG★ | 16(0.63") | 422.5~642.5 (16.6"~25.3") | 3095 | — | 1260 | 1505 | 1670 |
| | 19(0.75") | 484~704 (19.1"~27.7") | | 42 (1.65") | 49(4.96") | 59(5.93") | 65(6.77") |
| ② 3EG | 19(0.75") | 529~749 (20.8"~29.5") | 3165 | 225 | 1285 | 1530 | 1692 |
| | 22(0.87") | 578.5~807.5 (22.8"~31.8") | 3215 | 275 | 50(6.6") | 60(6.2") | 66(6.6") |



■ HOPPER FIXATION DIAGRAM



■ ROBOT FIXATION DIAGRAM



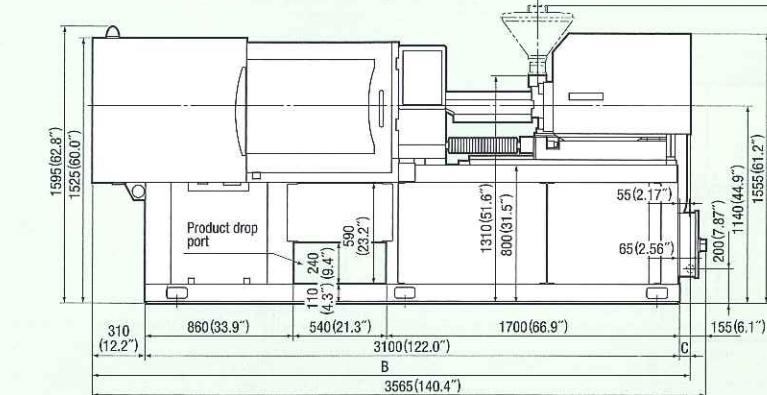
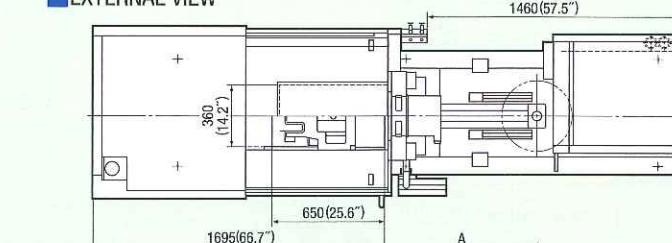
NEX-III Series

NEX50III-3EG / NEX50III-5EG★

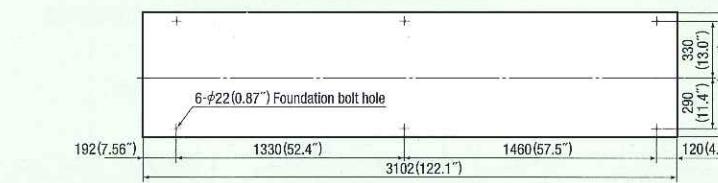
The ★ indicates the standard combination.

- Injection type : ① 3EG [Screw diameter : $\phi 19(0.75")/\phi 22(0.87")$]
 : ② 5EG [Screw diameter : $\phi 22(0.87")/\phi 26(1.02")/\phi 28(1.10")$]★

■ EXTERNAL VIEW



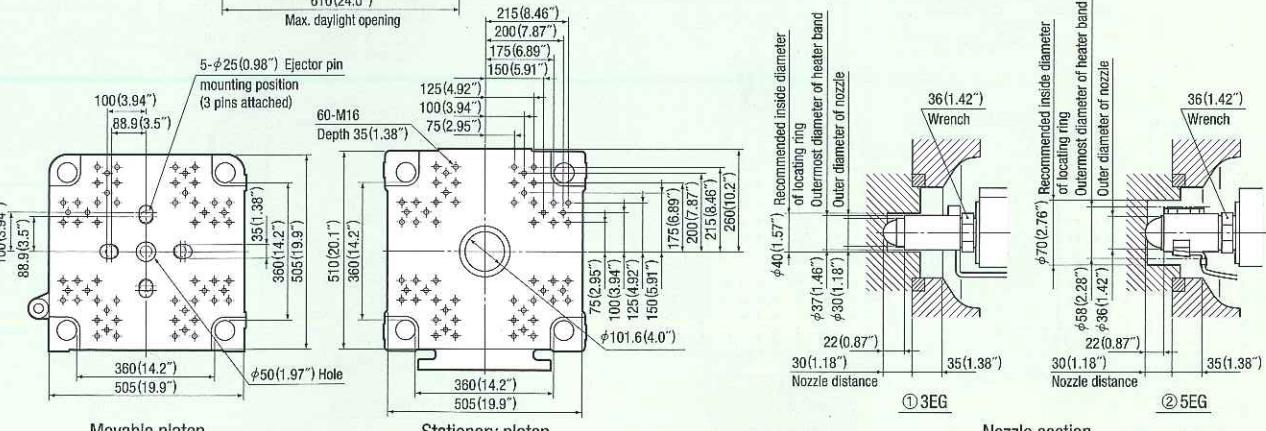
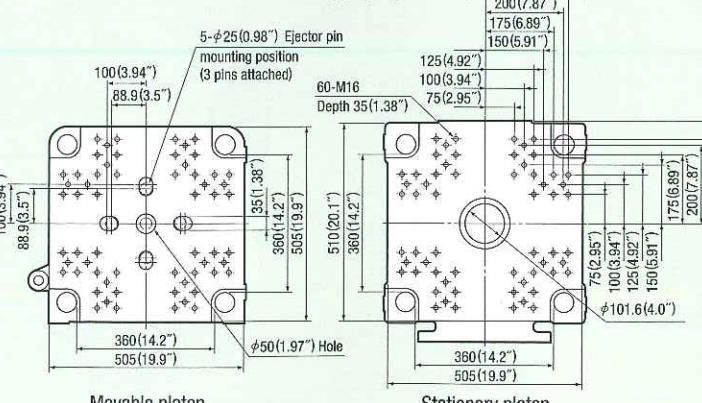
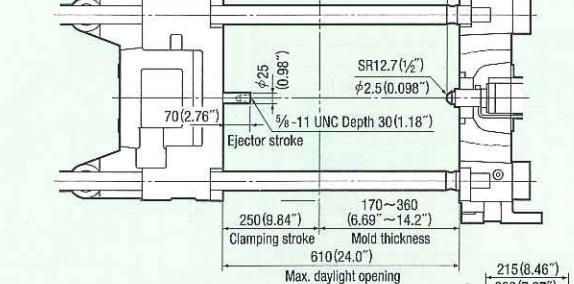
■ FOUNDATION DIAGRAM



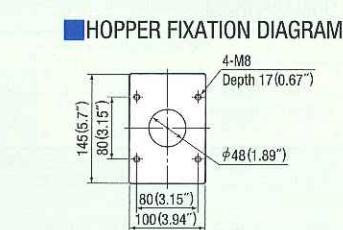
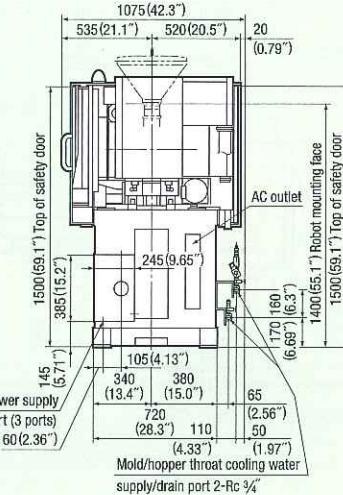
- *The minimum mold dimensions of 255(10.0")×255(10.0") are required in order to achieve the maximum clamping force.

■ MOLD ATTACHMENT DIAGRAM

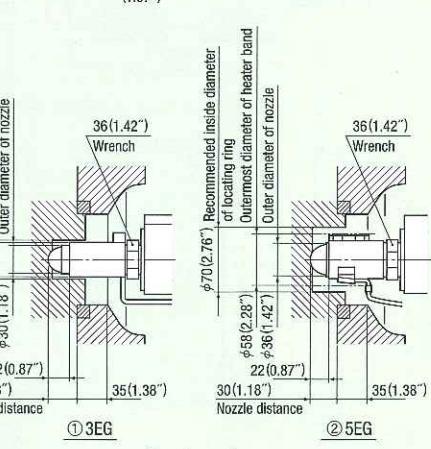
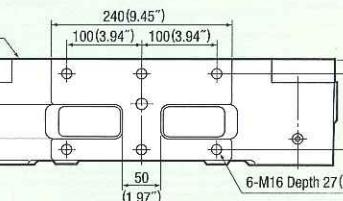
*The minimum mold dimensions of 255(10.0")×255(10.0") are required in order to achieve the maximum clamping force.



| Injection type | Screw dia. | A | B | C |
|----------------|------------|--------------------------|------------|-----|
| ① 3EG | 19(0.75") | 530~755 (20.9"~29.7") | — | — |
| | 22(0.87") | 580~805 (22.8"~31.7") | — | — |
| ② 5EG★ | 22(0.87") | 580~805 (22.8"~31.7") | — | — |
| | 26(1.02") | 665~890 (26.2"~35.0") | 136(8.25") | 65 |
| | 28(1.10") | 705~930 (27.8"~36.6") | 3515 | 105 |



■ ROBOT FIXATION DIAGRAM

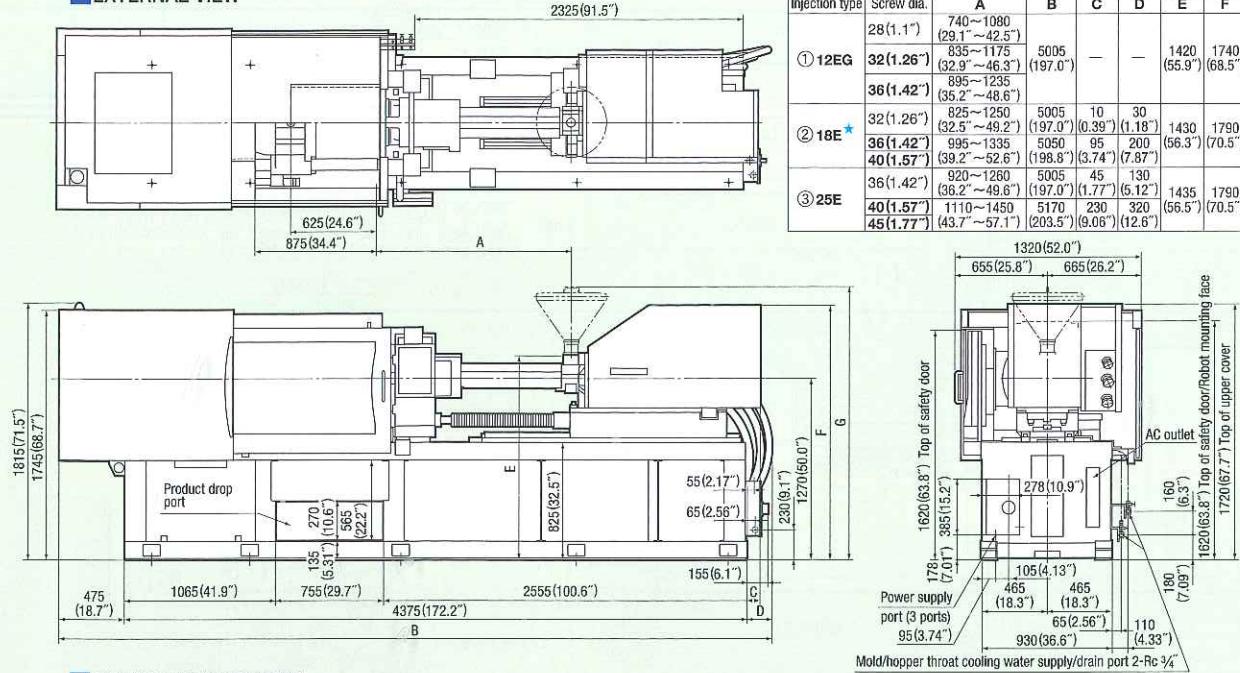


NEX-II Series NEX140II-12EG / NEX140II-18E★ / NEX140II-25E

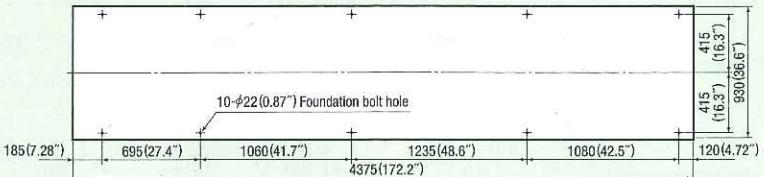
The ★ indicates the standard combination.

- Injection type : ①12EG [Screw diameter : $\phi 28(1.10")/\phi 32(1.26")/\phi 36(1.42")$]
- : ②18E [Screw diameter : $\phi 32(1.26")/\phi 36(1.42")/\phi 40(1.57")$]★
- : ③25E [Screw diameter : $\phi 36(1.42")/\phi 40(1.57")/\phi 45(1.77")$]

EXTERNAL VIEW

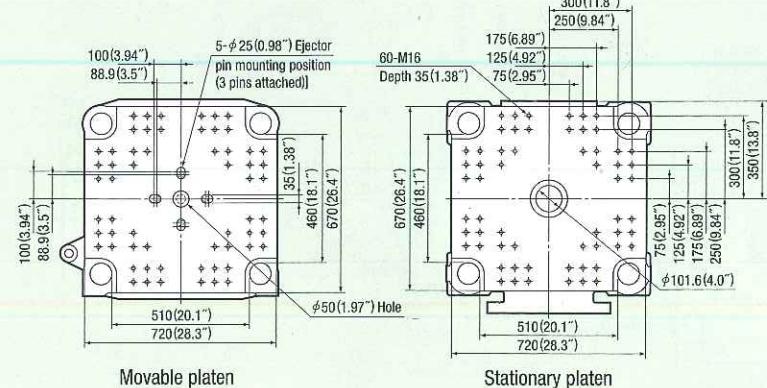
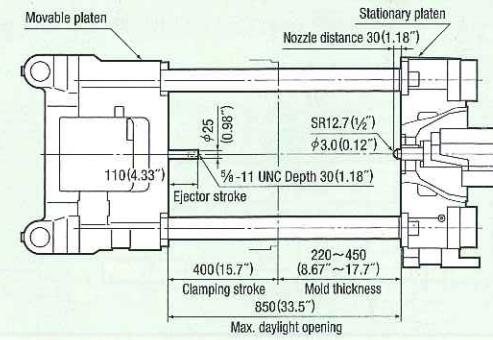


FOUNDATION DIAGRAM

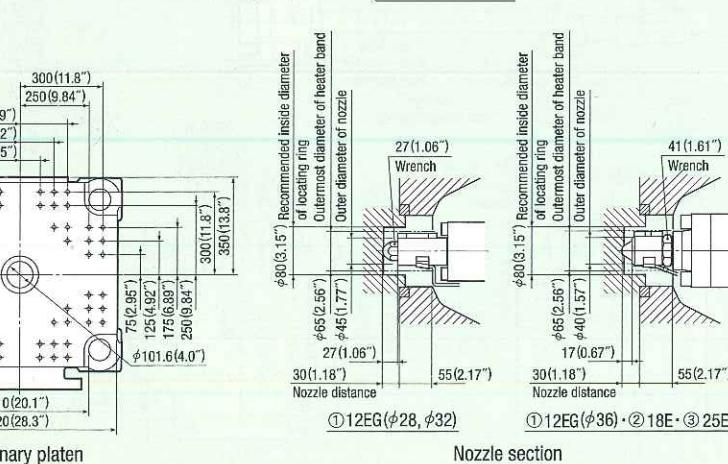
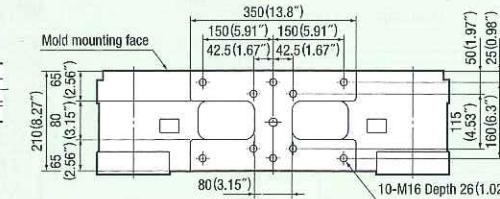


MOLD ATTACHMENT DIAGRAM

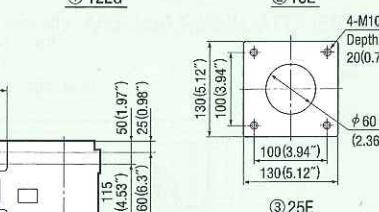
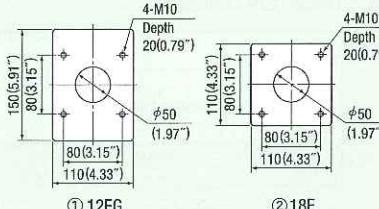
*The minimum mold dimensions of $325(12.8") \times 325(12.8")$ are required in order to achieve the maximum clamping force.



ROBOT FIXATION DIAGRAM



HOPPER FIXATION DIAGRAM

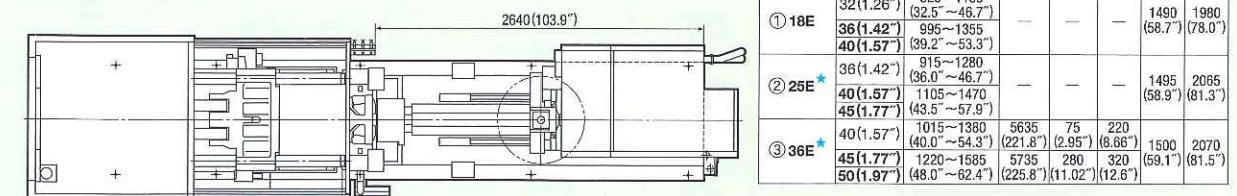


NEX-II Series NEX180II-18E / NEX180II-25E★ / NEX180II-36E★

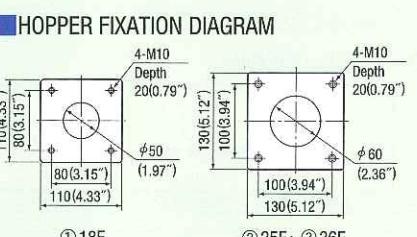
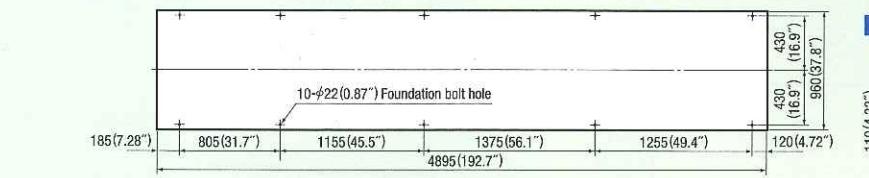
The ★ indicates the standard combination.

- Injection type : ①18E [Screw diameter : $\phi 32(1.26")/\phi 36(1.42")/\phi 40(1.57")$]
- : ②25E [Screw diameter : $\phi 36(1.42")/\phi 40(1.57")/\phi 45(1.77")$]★
- : ③36E [Screw diameter : $\phi 40(1.57")/\phi 45(1.77")/\phi 50(1.97")$]★

EXTERNAL VIEW

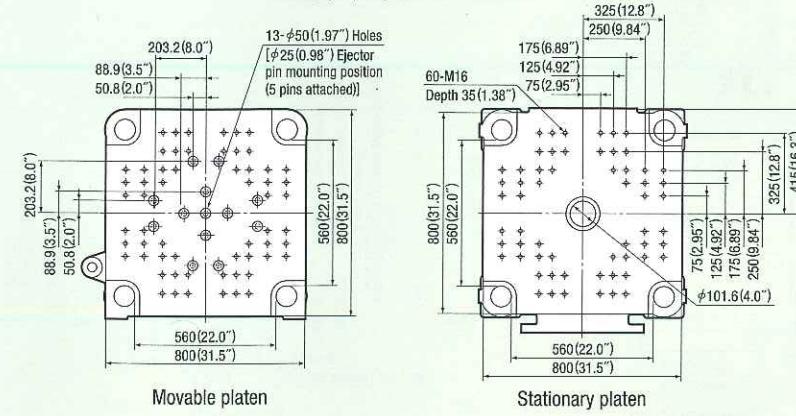
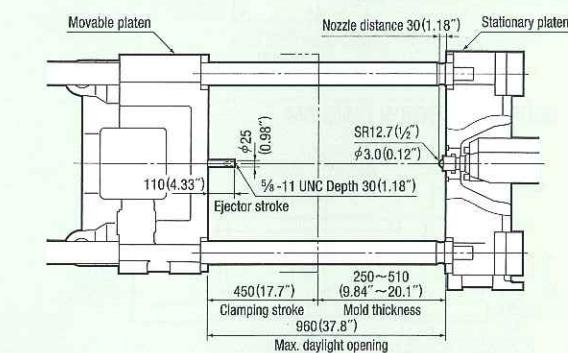


FOUNDATION DIAGRAM

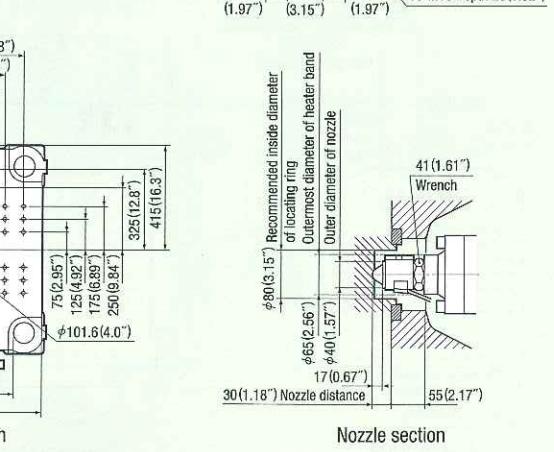
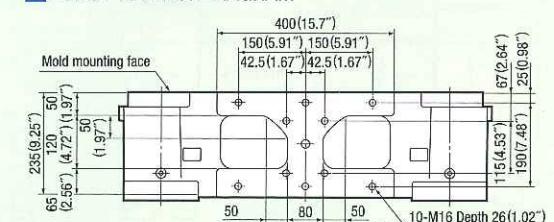


MOLD ATTACHMENT DIAGRAM

*The minimum mold dimensions of $395(15.6") \times 395(15.6")$ are required in order to achieve the maximum clamping force.



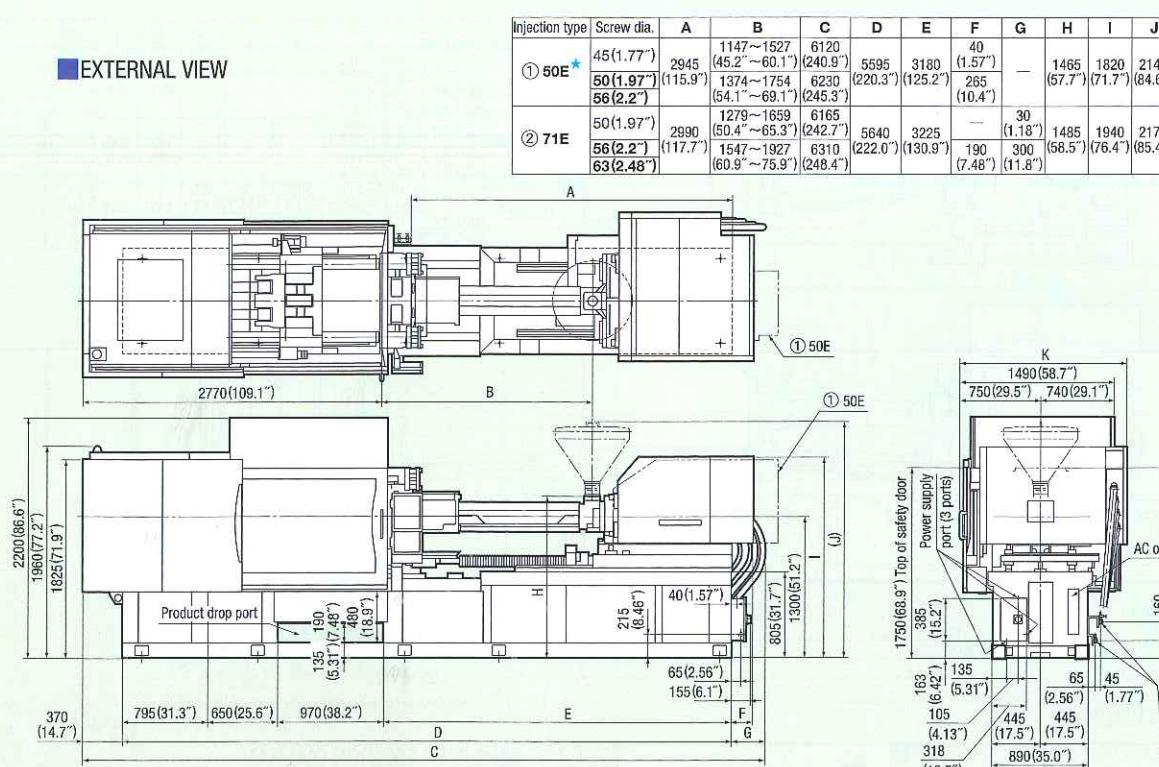
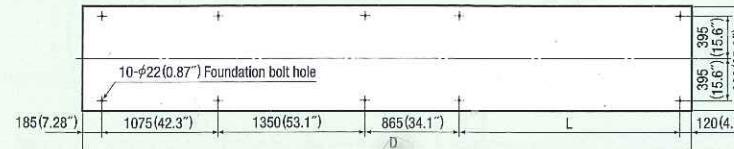
ROBOT FIXATION DIAGRAM



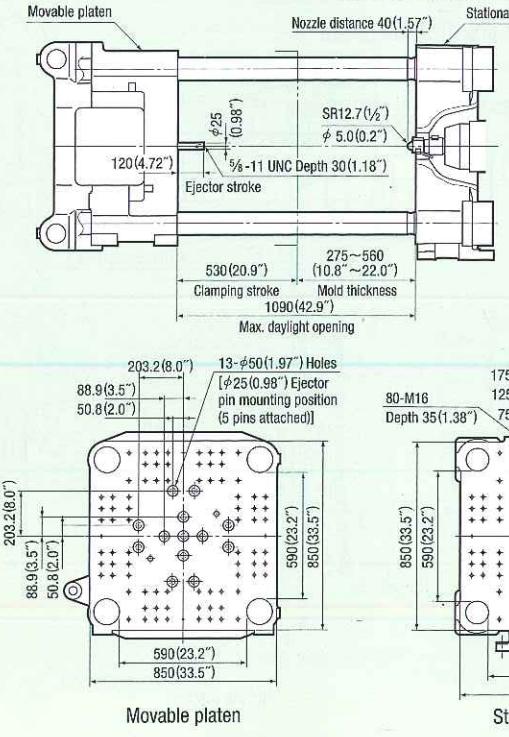
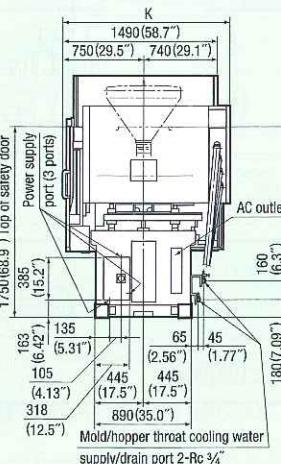
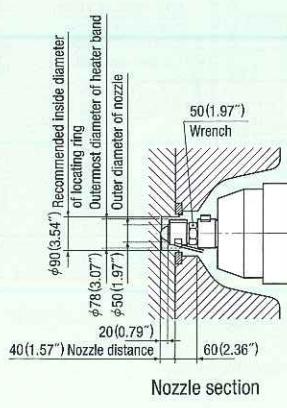
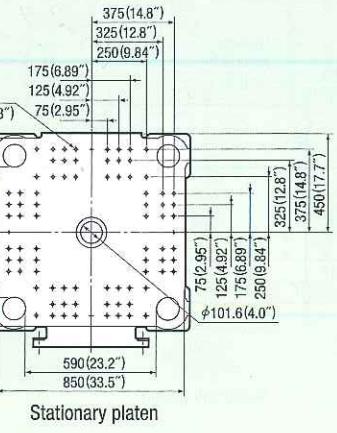
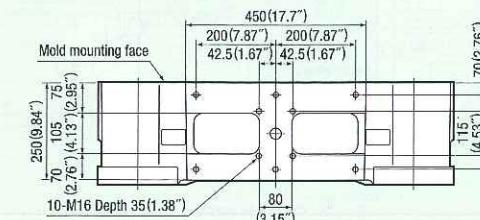
NEX-III Series
NEX220III-50E★/NEX220III-71E

The ★ indicates the standard combination.

Injection type : ① 50E [Screw diameter : $\phi 45(1.77")$ / $\phi 50(1.97")$ / $\phi 56(2.20")$] ★
 : ② 71E [Screw diameter : $\phi 50(1.97")$ / $\phi 56(2.20")$ / $\phi 63(2.48")$]

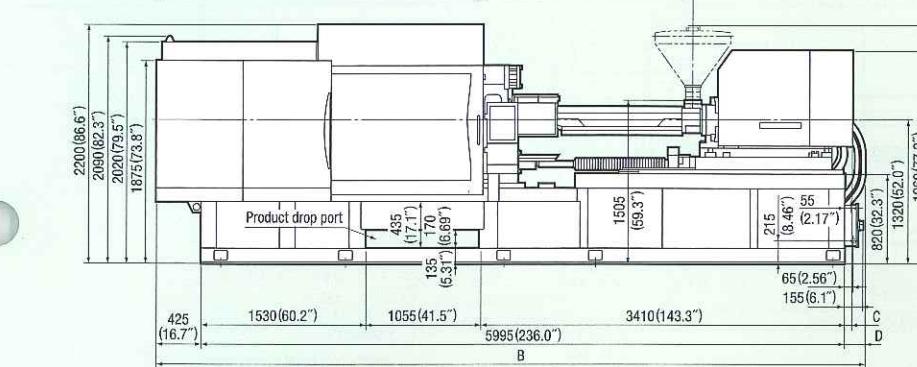
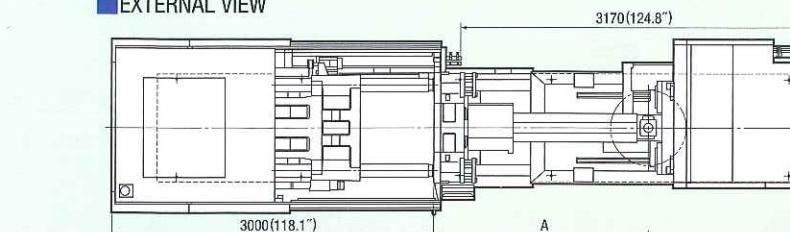
EXTERNAL VIEW

FOUNDATION DIAGRAM

MOLD ATTACHMENT DIAGRAM

*The minimum mold dimensions of 415(16.3")×415(16.3") are required in order to achieve the maximum clamping force.

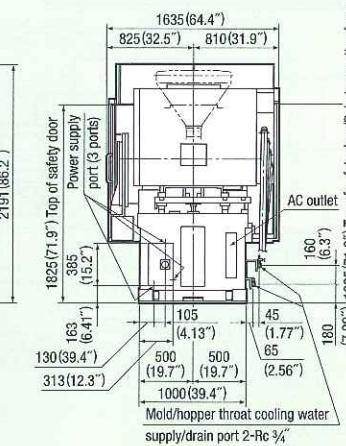
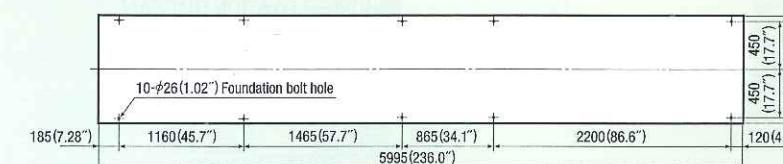

ROBOT FIXATION DIAGRAM

NEX-III Series | NEX280III-71E★/NEX280III-100LE

Injection type : ① 71E [Screw diameter : $\phi 50(1.97")$ / $\phi 56(2.20")$ / $\phi 63(2.48")$] ★
 : ② 100LE [Screw diameter : $\phi 50(1.97")$ / $\phi 56(2.20")$ / $\phi 63(2.48")$]

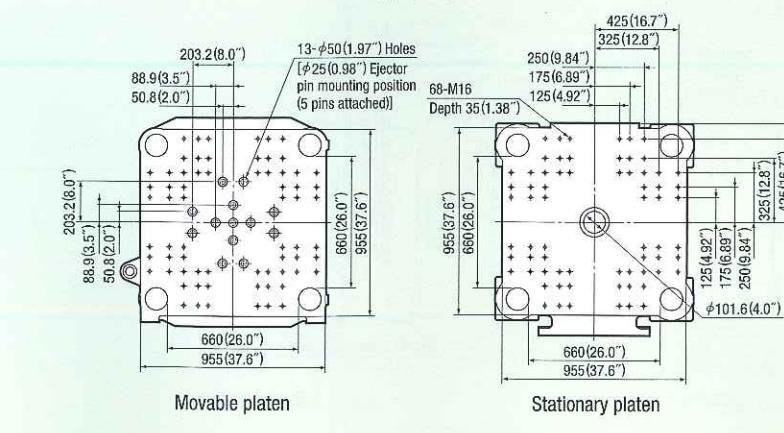
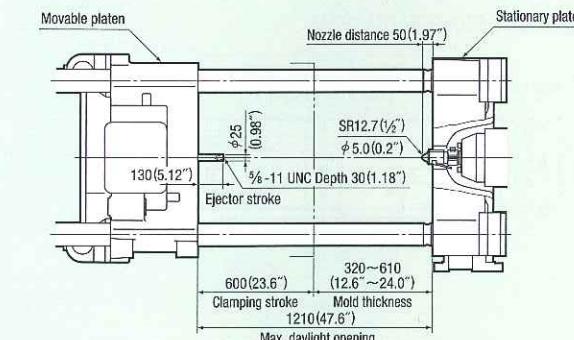
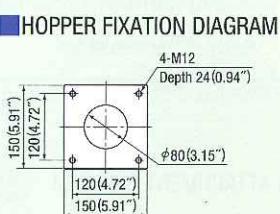
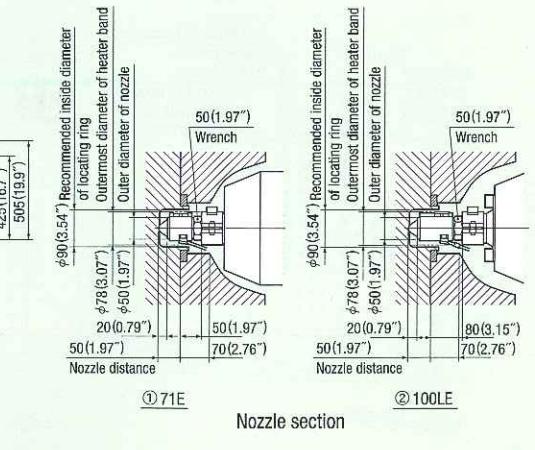
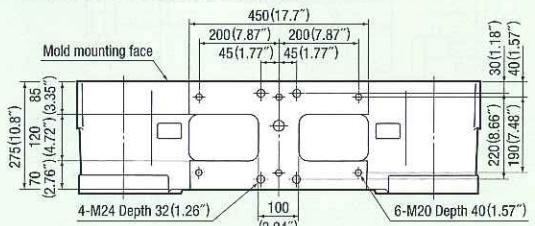
The ★ indicates the standard combination.

EXTERNAL VIEW


| Injection type | Screw dia. | A | B | C | D |
|----------------|------------------|----------------------------|------------------|-----|-----|
| ① 71E★ | $\phi 50(1.97")$ | 1270~1720 (50.0"~67.7") | 6575 (258.9") | — | — |
| | $\phi 56(2.2")$ | 1535~1985 (60.4"~78.1") | 6600 (269.8") | 70 | 180 |
| | $\phi 63(2.48")$ | — | — | — | — |
| ② 100LE | $\phi 50(1.97")$ | 1260~1710 (49.6"~67.3") | 6575 (258.9") | — | 150 |
| | $\phi 56(2.2")$ | 1565~2015 (61.6"~79.3") | 6720 (264.6") | 190 | 300 |
| | $\phi 63(2.48")$ | — | — | — | — |


FOUNDATION DIAGRAM

MOLD ATTACHMENT DIAGRAM

*The minimum mold dimensions of 465(18.3")×465(18.3") are required in order to achieve the maximum clamping force.

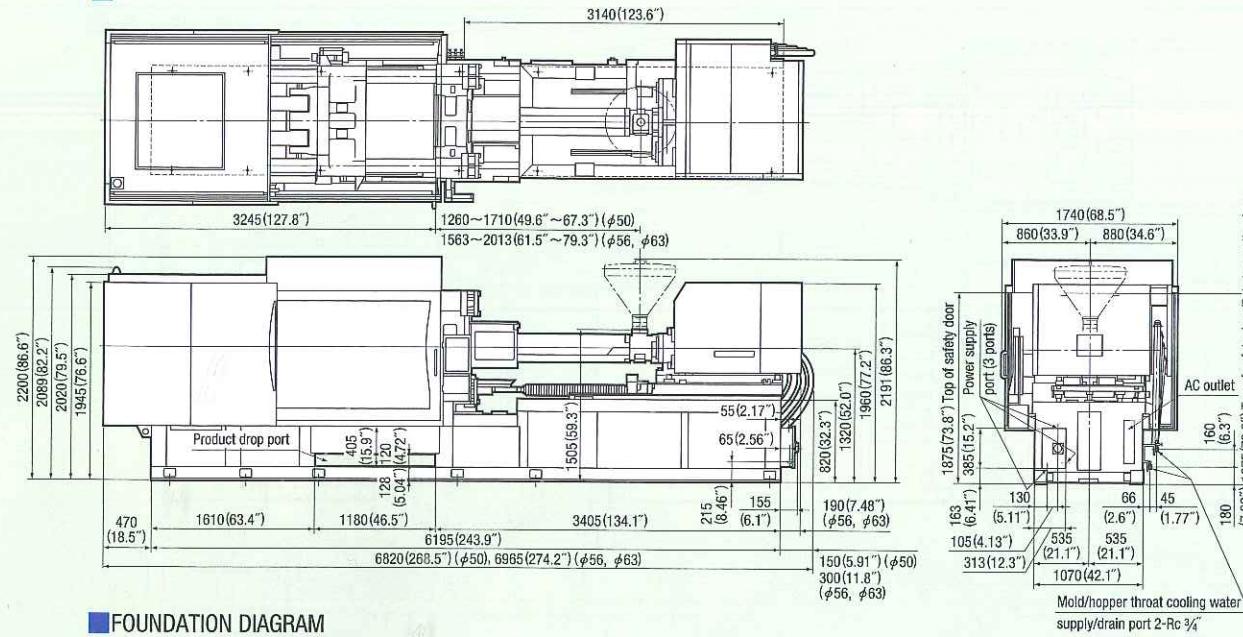

ROBOT FIXATION DIAGRAM


NEX-III Series NEX360III-100LE*

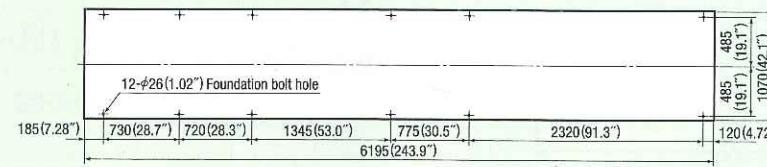
Injection type : 100LE [Screw diameter : $\phi 50(1.97")$ / $\phi 56(2.20")$ / $\phi 63(2.48")$] *

The ★ indicates the standard combination.

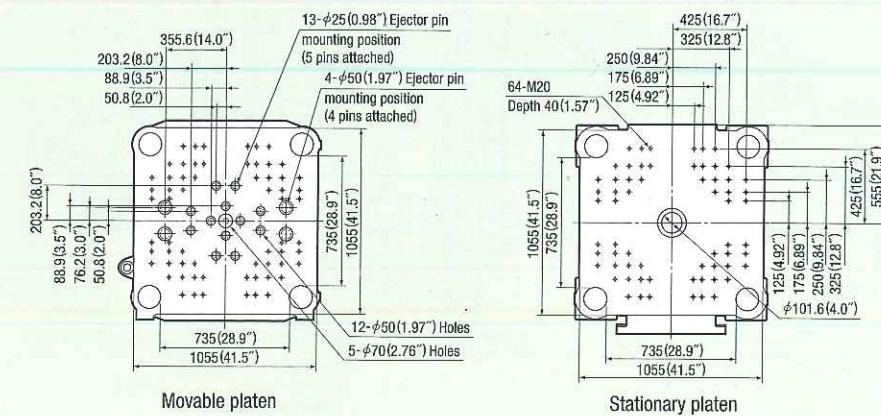
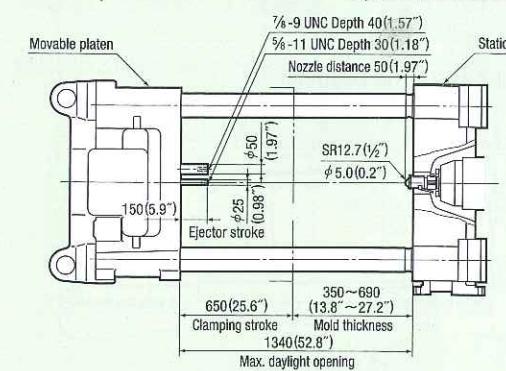
■ EXTERNAL VIEW



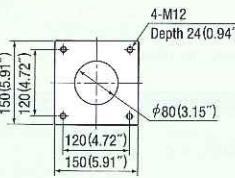
■ FOUNDATION DIAGRAM



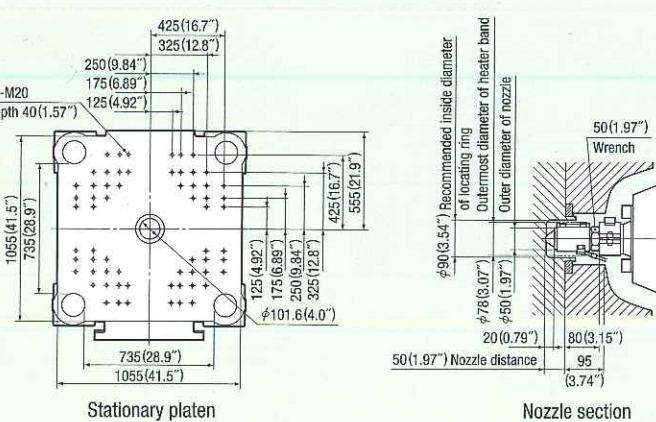
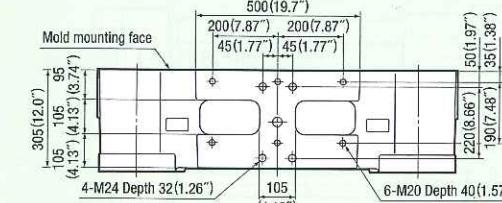
■ MOLD ATTACHMENT DIAGRAM



■ HOPPER FIXATION DIAGRAM



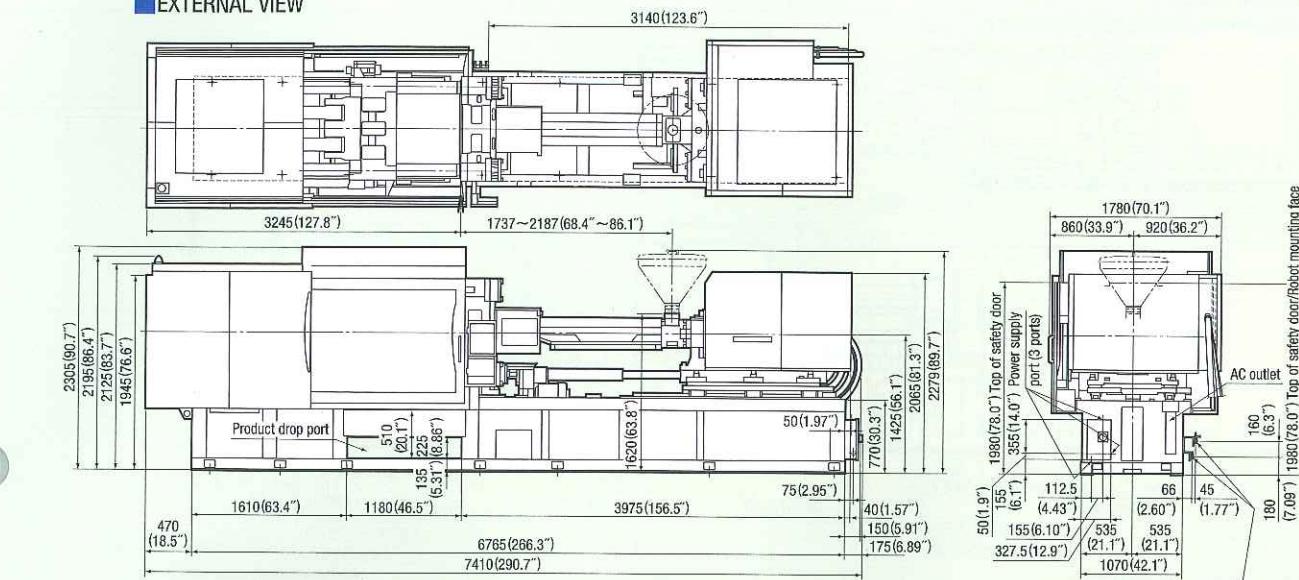
■ ROBOT FIXATION DIAGRAM



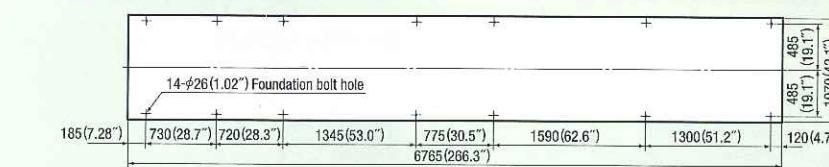
NEX-III Series NEX360III-140LE

Injection type : 140LE [Screw diameter : $\phi 63(2.48")$ / $\phi 71(2.80")$]

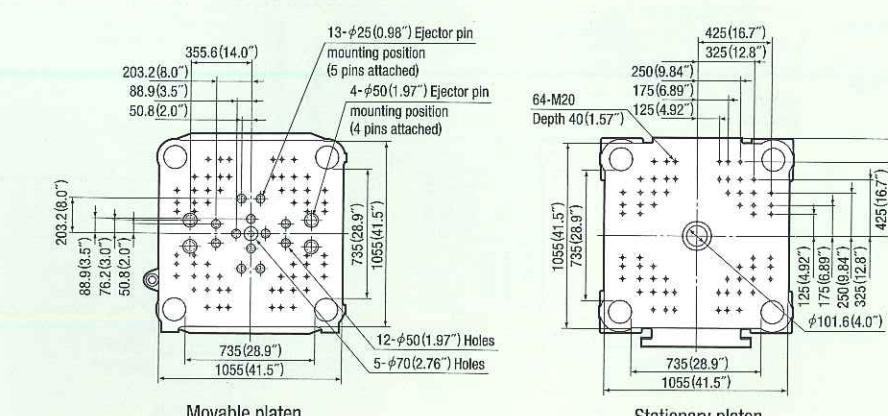
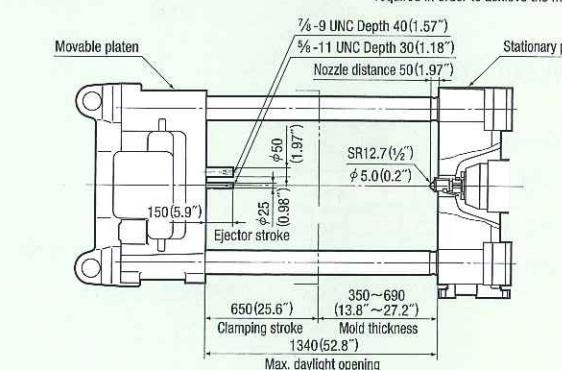
■ EXTERNAL VIEW



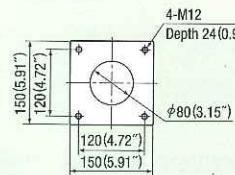
■ FOUNDATION DIAGRAM



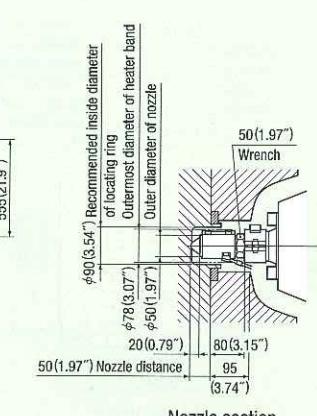
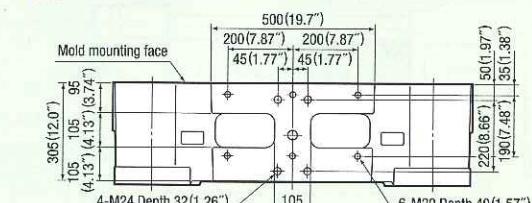
■ MOLD ATTACHMENT DIAGRAM



■ HOPPER FIXATION DIAGRAM



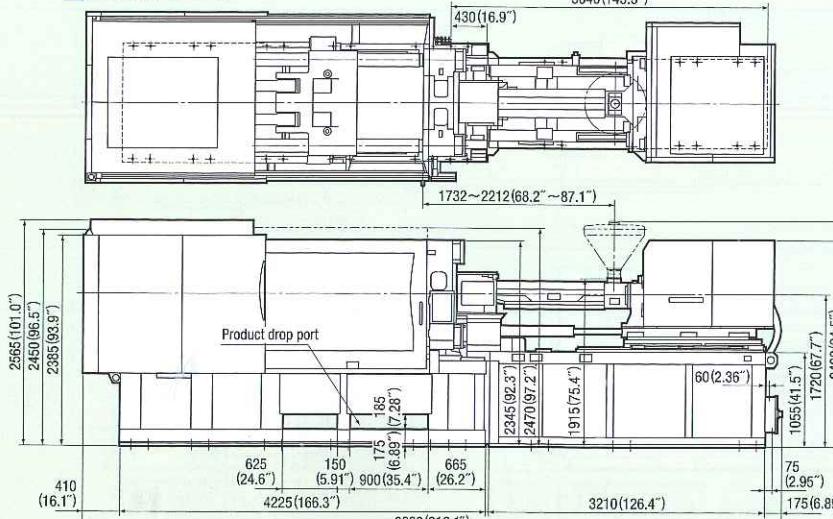
■ ROBOT FIXATION DIAGRAM



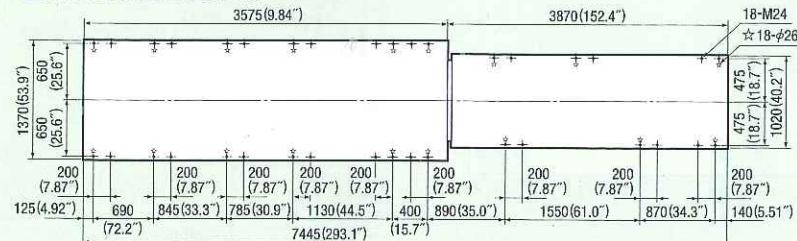
NEX-III Series | **NEX460III-140LE**

Injection type : 140LE [Screw diameter : $\phi 63$ (2.48") / $\phi 71$ (2.80")]

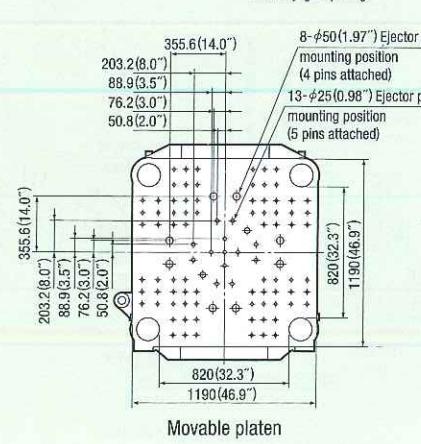
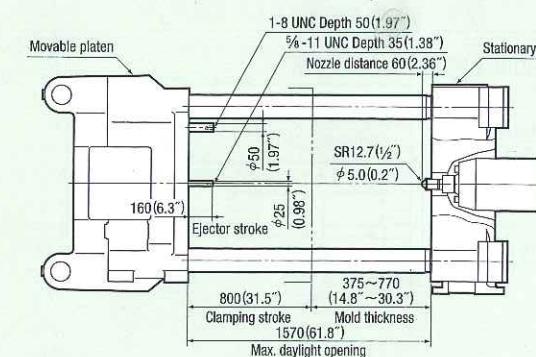
■ EXTERNAL VIEW



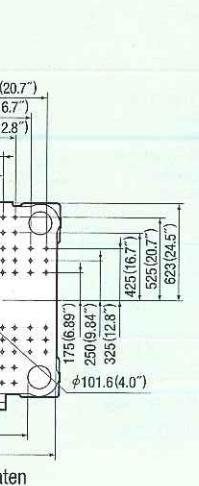
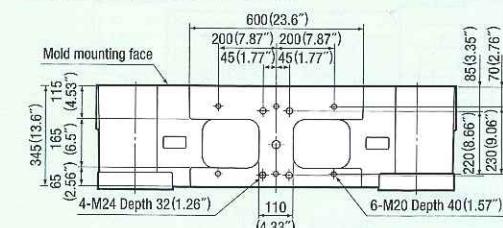
■ FOUNDATION DIAGRAM



MOLD ATTACHMENT DIAGRAM *The minimum mold dimensions of 580(22.8")×580(22.8") are required in order to achieve the maximum clamping force.



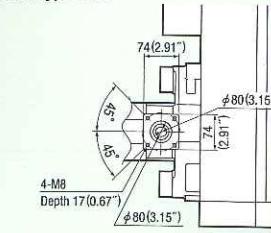
■ ROBOT FIXATION DIAGRAM



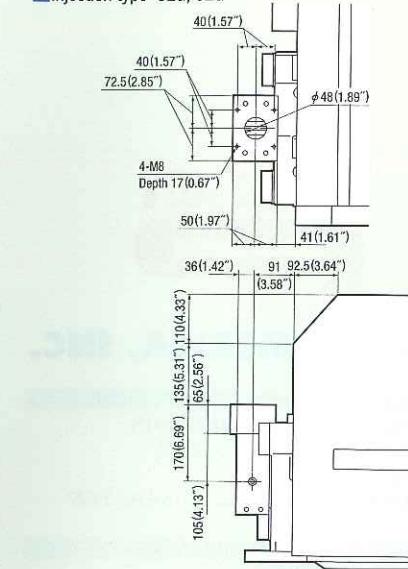
Nozzle section

NEX-III Series Diagram of hopper installation sections

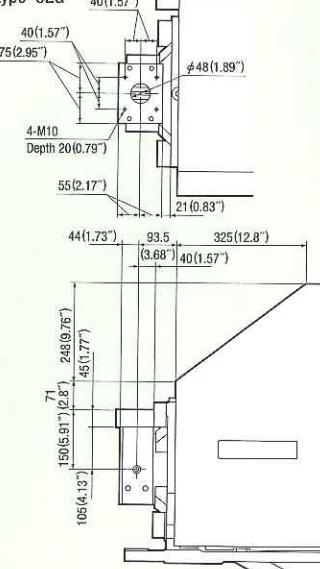
■ Injection type 2EG



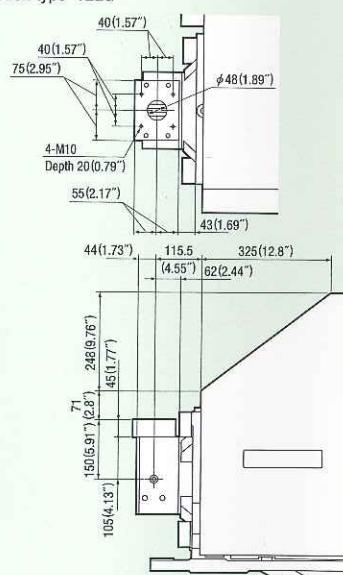
■ Injection type 3EG, 5EG



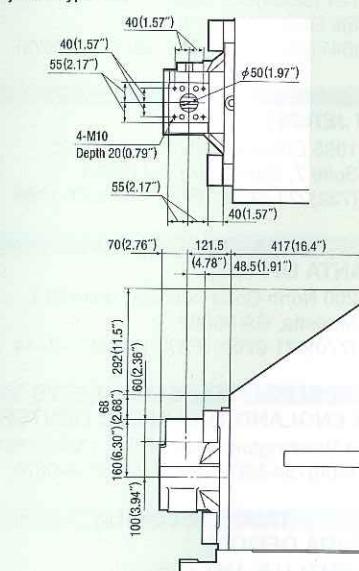
■ Injection type: 9EG



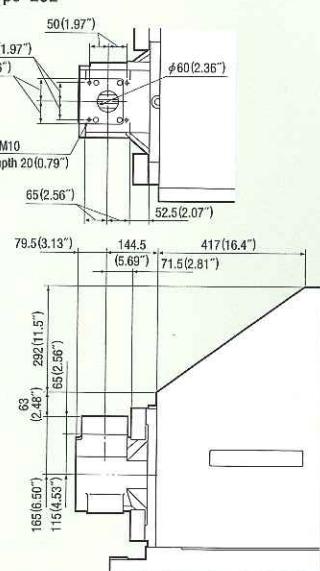
■ Injection type 12EG



■ Injection type 18F



Injection type: 25E



Injection type 36E

