



Machine Specification and Data Sheet

Machine Type NIS

	6 1/4" DOUBLE GOB			5" TRIPLE GOB			95mm QUAD GOB		
	B&B	P&B	NNPB	B&B	P&B	NNPB	B&B	P&B	NNPB
Ware Range Reference	H35002			H35001			H35003		
Min. Height Under Finish	95 mm	75 mm	75 mm	95 mm	75 mm	75 mm	70 mm	70 mm	70 mm
Max. Height Under Finish with VertiFlow	365 mm	345 mm	345 mm	365 mm	345 mm	345 mm	250 mm	250 mm	250 mm
Max. Body Diameter	121 mm	121 mm	121 mm	90 mm	90 mm	90 mm	65 mm	65 mm	65 mm
Max. Finish Diameter	48 mm	83 mm	50 mm	48 mm	70 mm	40 mm	35 mm	55 mm	38 mm

MACHINE FEATURES (STANDARD)

Constant Cone Delivery Suspension System DSS
FlexIS TS Control System
Pneumatic Control System PCM Blank side
Servo Electric Gob Distributor
Servo Electric Blank Mold Open-Close
Servo Electric Baffle Mechanism
Servo Electric Invert Mechanism
Servo Electric Blow Mold Open-Close
Servo Electric Takeout Mechanism
Servo Electric FlexPusher

Quick Change Plunger Mechanism
VertiFlow Blank Mold Cooling
VertiFlow Blow Mold Cooling
Neck Ring Cooling
High/Low Deadplate Cooling
Conveyor with Silent Chain
Automatic Lubrication Multi-Forming Process (B&B, NNPB, P&B)
Vacuum Assist Blow Side

MACHINE FEATURES (OPTIONS)

InVertiFlow Blank Mold Cooling (DG and TG)
Vacuum Assist Blank Side
Variable Center Distance Tonghead VCD TG, QG
Plunger Process Control PPC
Auxiliary Cooling

Machine Type NIS

- Available in 8, 10 and 12 section configurations
- Production flexibility in 6 1/4 DG, 5" TG, and 95mm QG
- Easy conversion of center distance and process

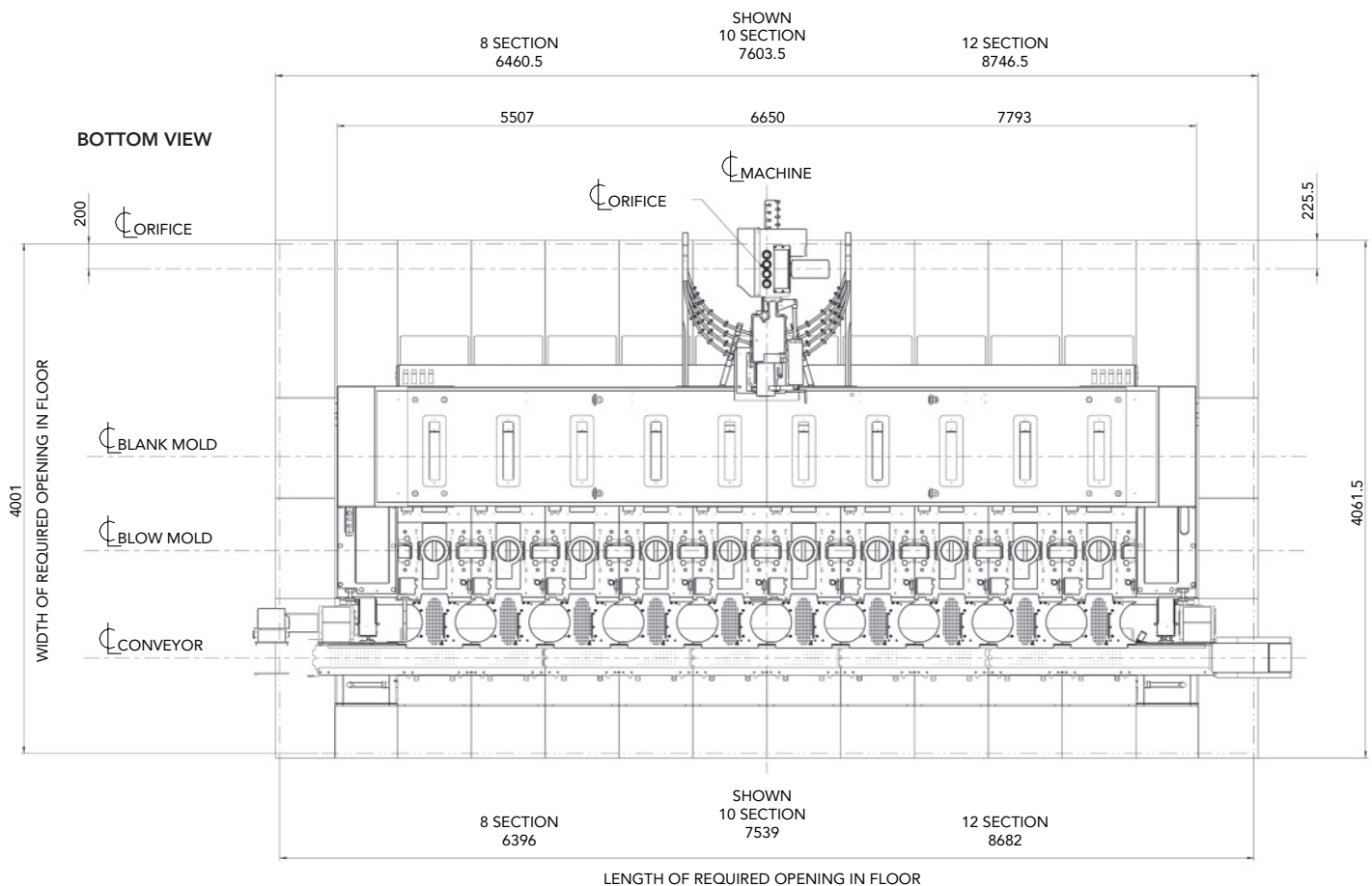
Dimension specifications – NIS machine sections

	8 mm	10 mm	12 mm
Reference Drawing	400-51555	400-51528	400-51409
Machine Weight including Molds and Accessories	46000 kg	52000 kg	57000 kg

FlexIS with machine controller and ware handling controller cabinet dimensions (mm)

Controller Type	A	B	C
Section Controller	600	2500	1200
Machine Controller	600	2500	600
Ware Handling Controller	600	2500	600

Machine Type NIS



COOLING AIR TO MACHINE

Supply	Pressure	Consumption [Nm ³ /min at 1000mmH ₂ O]	
		Machine	Flow
Blank & Neck Ring Cooling	Max. 1600 mmH ₂ O	8 section	260
		10 section	320
		12 section	380
Blow Mold Cooling	Max. 1600 mmH ₂ O	8 section	290
		10 section	360
		12 section	430
Conveyor	Max. 1200 mmH ₂ O	8 section	70
	Max. Δp Inlet Conveyor Outlet	10 section	85
	Deadplate 250 mmH ₂ O	12 section	100

	Pressure	Consumption
Gob Distributor	Recommended 400 mmH ₂ O	2 Nm ³ /min
Shear Mechanism	Recommended 400 mmH ₂ O	7 Nm ³ /min
Feeder Mechanism	Recommended 400 mmH ₂ O	7 Nm ³ /min
Revolving Tube	Recommended 400 mmH ₂ O	2 Nm ³ /min

VACUUM TO MACHINE (Receiver)

Vacuum forming	150 mbar	0.3-0.5 Nm ³ /min/section
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LUBRICATION OIL SUPPLY TO MACHINE

(4 lines individually timed)
(at typical ambient temperature: 10-55°C)

TYPICAL CONSUMPTION

(Ref. 12 Section M/C)	90 ± 8bar	3 liter/day
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COOLING WATER TO MACHINE

Supply	Pressure	Consumption
Air & Water On Beam	2.1 bar ±0.02 bar	15 liter/min

Condition	Classification
Temperature	20°C ±15°C
Filtration	25 micron
Acidity	pH 7±1
Hardness	Max 6 dH (German degree of hardness according to DIN 38409, Part 6)

SERVICE REQUIREMENTS (REF 400-51157 latest revision)

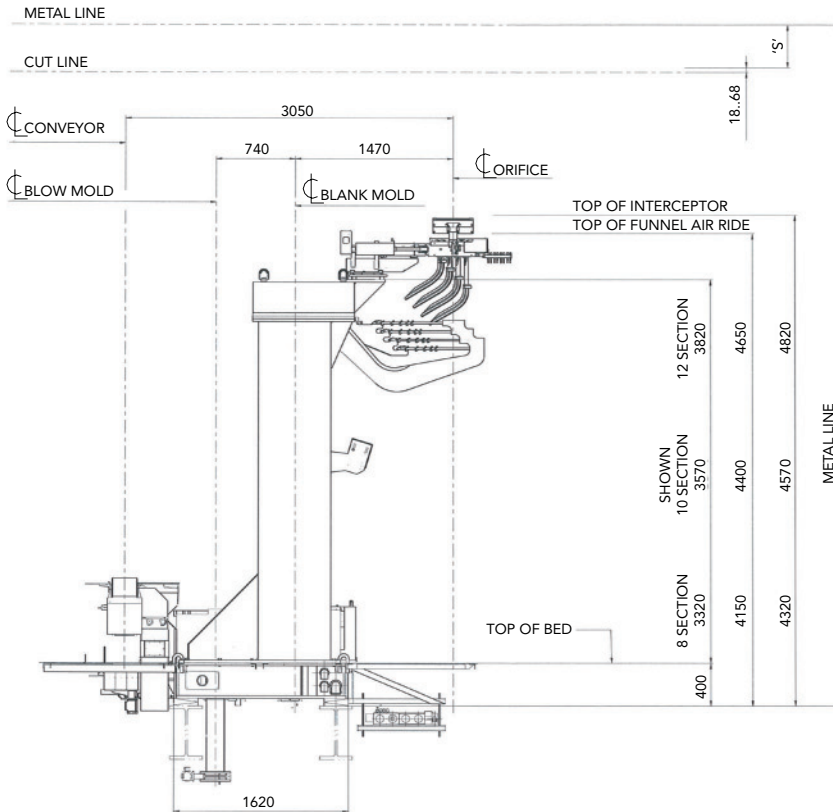
COMPRESSED AIR SUPPLY TO MACHINE CONTROL UNIT

Sections	Pressure	Consumption
8	4.0 ±0.1 bar	30 ±2 Nm ³ /min
10	4.0 ±0.1 bar	38 ±2 Nm ³ /min
12	4.0 ±0.1 bar	45 ±2 Nm ³ /min

COMPRESSED AIR SUPPLY TO MACHINE MANIFOLDS

Counterblow/ Plunger cooling	5bar max.	0.5 1.5 Nm ³ /min/cavity	2xRp 2-1/2"
Plunger (15 cycles/min)	5bar max.	0.15 Nm ³ /min/cavity	2xRp 2"

ISOCLASS4 ISO-8573-1



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Specification **INSTALLATION REQUIREMENTS (REF 601-20010) latest revision****MAIN CONTROL CABINETS**

Ambient Conditions (without air conditioner)

Temperature 0-40° C

Humidity 10-80% non condensing

Mains Supply

Line Supply 400 VAC 3 ph.

Line voltage tolerance -10% / +15%

Line frequency 48 - 62 Hz

Typical Power Consumption*

Example: 10-section TS10.5 (NIS) 17 kVA

Typical Heat Dissipation*

Example: 10-section TS10.5 (NIS) 3000 W

*(depends on actual machine speed and other relevant conditions)

USER CONSOLE CABINET

Ambient Conditions (without air conditioner)

Temperature 0-40° C

Humidity 10-80% non condensing

Ambient Conditions (with air conditioner)

Temperature 0-55° C

Humidity 10-100%

Mains Supply

Line Supply 230 VAC

Line voltage tolerance -10% / +15%

Line frequency 48 - 62 Hz

Power consumption 1 kVA

Emhart Glass makes every effort to provide valid, helpful information to its customers so that our equipment will be best utilized. If you encounter information that is not correct or information which can be misunderstood or not understood, please advise Emhart Glass so that we improve this information.

All the above figures are typical values. For project requirements contact Emhart Glass Technical Service.