

# **Quick Reference Catalog**

<b>S Insinger</b>	00	CADET
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#### **Table of Contents**

Undercounter Dishwashers CADET

CADET	1
<b>Counter Type Dishwashers</b> Ensign 40-2	1
Door Type Dishwashers	
Commander Ace	2
CX20	3
Rack Conveyor Dishwashers	
Admiral ADVANCED	4
Speeder 64 & 86	5
Super 106	5
Rack-A-Matic	6
Power Loader/Unloader	6
Flight Type Dishwashers	
Century Series	7
Tray Washers and Accessories	

TRAC 321-2		
TRAC 878		
Tray Dryer		
Tray Stacker		

#### Pot and Pan Washers

CA-3 Single Rack	10
DA-3 Double Rack	10
SW-12	11
SW-14	11
SW-25	11
SW-36	12
SW-48-RI (roll-in)	12
SW-78-RI (roll-in)	12
Aqua Scrubber	13
Smart Scrubber	13
Conveyor Systems	14
Disposers	
I, N, S, G Series	15
Miscellaneous	
Security Package	16
Product Categories	17
Dishwasher Decision Chart	18
Dish Room Setup	19
Machine Sizing Calculation Form	20
Dishroom Design Checklist	21-22

# Leaders in Clean Since 1893

For over 125 years, Insinger Machine Co. has been on the leading edge of commercial dishwasher innovation and technology. Insinger delivers a full-line of high-quality warewashing equipment and service to the education, hospitality, healthcare, corrections and military markets worldwide. Family-owned and operated, our corporate headquarters and manufacturing facility are located in Philadelphia, PA.

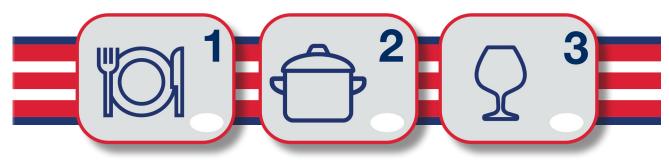
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- High Temperature Undercounter Dishwasher
- Capacity is 30 (20" x 20") racks per hour
- Three dedicated wash cycles (Dishware, Cookware, Glassware)
- Energy Star 3.0 certified
- Extremely quiet with sound suppression lined panels. Rated at <65dB</li>
- Built-in atmospheric booster with dedicated rinse pump provide consistent, constant 180°F hot water to properly sanitize ware—no external booster required
- Only requires 70°F minimum water temperature for 180°F high temp sanitation
- Includes everything you need to get started



Three dishwashers in one!

#### Three Cycles, Endless Options.



#### Dishware, Cookware, and Glassware

#### ENSIGN<sup>40-2</sup>

- Automatic counter type single tank dishwasher with passthrough telescoping hood
- 0.75 gallons/rack
- Capacity is 43 (16" x 16") racks per hour or 720 dishes per hour
- No venting required





Ideal for cafes, pizza shops, and smaller foodservice operations

#### **High Temp Door Type Dishwasher**

- High Temperature Door Type Dishwasher
- Capacity is 60 (20" x 20") racks per hour
- Three dedicated wash cycles (Dishware, Cookware, and Glassware)
- Energy Star 3.0 certified
- ACE Mode: Automated Cleaning Effect. Delimes and sanitizes the interior of the machine, including the booster heater, saving you labor and chemical costs
- Includes everything you need to get started
- Dedicated quick delime cycle
- Full stainless steel construction
- Built-in chemical dispensing pumps with priming system and pumped drain system
- Digital display with membrane switches with LED indicator on the hood

LED Indicator lights for easy monitoring







#### **Ventless High Temp Door Type Dishwasher**

- Capacity is 60 (20" x 20") racks per hour or 1625 dishes per hour
- Quad-Arm Wash System—washes faster with better results
- Industry First! IS (Integrated + Submerged) Booster recaptures radiant heat, saving energy and money
- Foot-operated drain pedal eliminates back strain
- Swing out control panel means all components and controls are accessible from the front of the machine
- Ergo-Grip door handle provides multiple options for hand placement and eliminates the need to modify dish tables for corner installation

#### World's Fastest Ventless Dishwasher! 60 RACKS PER HOUR







Integrated & Submerged Booster



Quad-Arm Wash System



Corner Clearance Built-In

# ADMIRAL ADVANCED





ADMIRAL 44

ADMIRAL 66

#### Single Tank Rack Conveyor Dishwashers

- Available in 44" and 66" configurations
- Automatic conveyor, rack type, single tank dishwasher with recirculating wash and fresh water final rinse (with a recirculating pre-wash on the Admiral 66)
- Built-in IS (Integrated + Submerged) Booster
- Optional VaporGuard System for hood-free operation
- CrossFire Wash System provides superior cleaning
- Redesigned control panel



SERVICE FRIENDLY

RackAware

**RACKAWARE PLUS** 



**ENERGY STAR 3.0** 

#### **Rack Conveyor Dishwashers**



# SPEEDER<sup>64</sup>

- Automatic conveyor, rack type, double tank dishwasher with recirculating wash and rinse and fresh water final rinse.
- 0.52 gallons/rack final rinse consumption
- Capacity is 277 (20" x 20") racks per hour or 6,925 dishes per hour
- CrossFire Wash System provides superior cleaning



#### SPEEDER<sup>86</sup>

- Automatic conveyor, rack type, double tank dishwasher with recirculating pre-wash, wash, rinse and fresh water final rinse.
- 0.52 gallons/rack final rinse consumption
- Capacity is 277 (20" x 20") racks per hour or 6,925 dishes per hour
- CrossFire Wash System provides superior cleaning



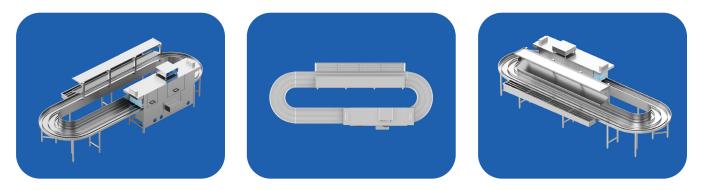
# SUPER<sup>106</sup>

- Automatic conveyor, rack type, three tank dishwasher with recirculating pre-wash, wash, rinse and fresh water final rinse.
- 0.72 gallons/rack final rinse consumption
- Capacity is 330 (20" x 20") racks per hour or 8,250 dishes per hour
- CrossFire Wash System provides superior cleaning

#### **Rack Conveyor Accessories**

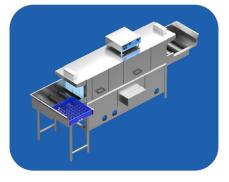
# RACK-A-MATIC

- Custom-built warewashing system
- Adaptable to almost any dish room layout
- Works with any rack conveyor dishwashers (See individual specification sheets for each dish machine)
- Labor efficiency is increased by endless conveyor design
- Systems can be furnished with any type of shelving, disposer, troughs, tray rests or other accessories to meet specific needs



### **POWER LOADER & UNLOADER**

- Labor and space saving; ideal for corner layout
- Dishroom operates at peak efficiency; auto load/unload
- May by used independently or in combination with each other
- Unique design allows for use around columns and in difficult areas
- Eliminates cumbersome, space consuming curved rollers







#### **Flight Type Dishwashers**



## **CENTURY SERIES**

- Available in 14', 17', 19' and +21' configurations
- CrossFire Wash System provides superior cleaning

#### **CENTURY 14**

- Capacity is 8,725 dishes per hour
- Conveyor speed of 7 feet per minute

#### **CENTURY 17**

- Capacity is 8,861 dishes per hour
- Conveyor speed of 7.1 feet per minute **CENTURY 19**
- Capacity is 8,812 dishes per hour
- Conveyor speed of 6.8 feet per minute
   CENTURY +21
- Capacity is 14,300 dishes per hour
- Conveyor speed of 11 feet per minute



#### **Tray Washers**



# TRAC<sup>321</sup>

- Automatic conveyor, single tank tray washer with recirculating pre-wash, wash and fresh water final rinse
- 248 gallons/hour final rinse consumption
- Capacity is 528 trays per hour (based on a 15" tray)



#### TRAC<sup>321</sup> RPW

- Automatic conveyor, double tank tray washer with recirculating pre-wash, wash and fresh water final rinse
- 248 gallons/hour final rinse consumption
- Capacity is 528 trays per hour (based on a 15" tray)



# TRAC<sup>878</sup>

- Automatic conveyor, triple tank tray washer with recirculating pre-wash, wash and rinse and fresh water final rinse
- 197 gallons/hour final rinse consumption
- Capacity is up to 878 trays per hour (based on a 15" tray)

#### **Tray Washer Accessories**



# TRAY DRYER

- Automatic conveyor tray dryer provides 99% dry trays
- Unique Air Wiper design reduces ability for bacteria to grow on wet, stacked trays
- Dryer and cleaner workplace—less racking of trays for drying
- Compatible with TRAC Series Tray Washers



# TRAY STACKER

- Factory installed option for tray washers and tray dryers
- Automatically unloads and stacks clean dry trays on a tray handling cart
- Labor saving—only need one operator
- Sanitary-dry, stacked trays without additional handling
- Tray unloading rate is matched to the dryer tray processing rate

#### Pot & Pan Washers



# CA-3

- Automatic door type pot, pan and utensil washer with timed wash and rinse cycle
- Capacity is 25 (24" x 28") racks per hour or 150 bun/pans per hour or 100 steam table (2" thick) pans per hour
- Fully automatic operation with power on/off button
- Cycle starts when doors are closed



# DA-3

- Automatic door type pot, pan and utensil washer with timed wash and rinse cycle
- Capacity is 50 (24" x 28") racks per hour or 276 bun/pans per hour or 184 steam table (2" thick) pans per hour
- Fully automatic operation with power on/off button
- Cycle starts when doors are closed
- Twice the volume of CA-3



#### Pot & Pan Washers





#### SW-12

- Available in three configurations: Front-Load, Pass-Through, and Corner Unit
- Automatic door type warewasher with timed wash and rinse cycle
- 12 racks per hour; 12 pans per rack
- Timers are all adjustable
- Fully automatic operation with power on/off button
- Cycle starts when doors are closed



#### SW-14

• Available in two configurations:

Front-Load and Pass-Through

- Automatic door type warewasher with timed wash and rinse cycle
- 12 racks per hour; 14 pans per rack
- Timers are all adjustable
- Fully automatic operation with power on/off button
- Cycle starts when doors are closed



# SW-25

- Automatic door type warewasher with timed wash and rinse cycle
- 13 racks per hour; 12 pans per rack
- Timers are all adjustable
- Fully automatic operation with power on/off button
- Cycle starts when doors are closed

#### **Pot & Pan Washers**



#### SW-36

- Automatic door type warewasher with timed wash and rinse cycle
- 12 racks per hour; 36 pans per rack
- Timers are all adjustable
- Fully automatic operation with power on/off button
- Cycle starts when doors are closed



#### SW-48

- Automatic door type warewasher with timed wash and rinse cycle
- 13 racks per hour; 48 pans per rack
- Timers are all adjustable
- Fully automatic operation with power on/off button
- Cycle starts when doors are closed



# SW-78

- Automatic door type warewasher with timed wash and rinse cycle
- 13 racks per hour; 78 pans per rack
- Timers are all adjustable
- Fully automatic operation with power on/off button
- Cycle starts when doors are closed

#### Pot & Pan Washing Systems



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#### AQUA SCRUBBER

- Designed to your specification
- Automatic scrub sink reduces labor costs up to 56%
- Innovative angled corners with 2 jets in each corner keep the ware moving
- No corners = No jams or deadzones
- 2 hp TEFC pump
- Custom build to your application or choose from 2 pre-engineered systems

#### SMART SCRUBBER

- Three options available: 96", 112" and 136"
- Automatic scrub sink that creates the same turbulent whirlpool pattern as our Quadjet AquaScrubber at a SMART price point
- Simplified design
- SMART controls pump on/off and heat on/off
- 110V electric for easy install and operation



#### **Conveyor Systems**

#### ROTARY TRAY ACCUMULATOR

The Rotary Tray Accumulator is a custom designed system available in 3, 4 or 5 tiers. Any tray size is accommodated with the flexible and space efficient design. The product allows for the possibility of storing and carrying up to 5 times more trays than a traditional tray return conveyor. This flexible system design allows the accumulator to be ordered with optional features that are custom tailored.





#### FLEX AND POLYCORD BELT TRAY RETURN CONVEYOR

The popularity of the flex belt model is largely due to its flexibility in use, from front-end operations with tray collection to the dishwashing operation. The system is self-cleaning and can accommodate a wide variety of items, trayed or individual.

The Polycord Tray Return Conveyor can replace other tray return conveyors. It meets the highest sanitary and safety requirements of every operation. There is no need for belting washing systems or expensive cleansers, simply use a damp cloth on the beds and cords.



**Flex Belt** 



**Polycord Belt** 

#### Disposers

- Commercial food waste disposers for every application: schools, cruise ships, large restaurants, hospitals and universities
- Easy to service worn mechanical parts without disassembling electrical components
- 3/4 to 10 hp motors available
- Offset body available for N, S and G Series
- Constructed using solid caste metal





#### **Security Package**



TRAC 878 Tray Washer and Tray Dryer with security packages

Where vandalism in dish rooms is a problem, add the Insinger security package to your warewashing equipment. Designed specifically for high-risk facilities, the security package replaces standard parts on the dishwasher with tamper-resistant components. The security package is available on all Insinger dishwashers.

- Every Security Package machine comes with stainless steel front and side panels standard
- The door handles are welded to the doors. Doors are secured to the machine by heavy-duty hasps
- All fill valves are enclosed in a stainless steel shield and the drain lever is equipped with provisions for a padlock
- All electric wiring is mounted in hard conduit
- For extra safety, we not only weld the tray cradles, we also weld the wash arms to the manifold on our tray washers
- Totally-enclosed special pumps and motors for all Security Package tray washers
- Both the wash and pre-wash thermometers are enclosed in a perforated stainless steel box. The final rinse thermometer, pressure gauge and vacuum breaker are also protected by a security case. Two padlock hasps are provided for locking the control panel security cover



Stainless steel perforated boxes are used to protect the thermometers and gauges from damage.

# **Product Categories**

ESSENTIAL 🏶 SERIES	<b>CADET</b>	BEE	
PREMIER		ADMIRAL ADVANCED	
	CENTURY SERIES		
	AQUASCRUBBER	SMARTSCRUBBER	
FLAGSHIP SERIES	CA-3	DA-3	
	SPEEDER 64 SPEEDER 86 SUPER 106		
	SW-12 SW-25 SW-36 SW-48 SW-78		
	TD 321 TRAC 321 TRAC 878 TRAY STACKER		
	<b>45SA</b>	GALLEY	
SCULLERY <b>E</b> SERIES			

#### Which Dishwasher is Right for You?

Small Operations	"Mom & Pop" Shops	<b>CADET</b>
	Cafes Small Offices	ENSIGN <sup>40-2</sup>
	Nursing Homes Day Cares	EDMMANDER
	Chain Restaurants	
Mid-Size Operations	K-12 Schools Universities Institutuions Large Restaurants Prisons Hospitals Employee Dining Hotels	SUPER <sup>106</sup>
Large Operations	Universities Casinos Large Schools Hospitals Institutions	CENTURY

#### **Dish Room Setup**

There is a lot to consider when designing a dish room. It may not sound like a vital part of a foodservice operation, but in reality, the dish room is just as important as the food prep area or cooking stations.

How? Well, just think you have sixty people an hour visiting your restaurant. That's sixty dishes, sixty cups or glasses, sixty sets of utensils and you need to turn them over every hour for the next eight hours. It impacts your whole operation. If you don't have clean dishes, you can't serve food.

This section was put together to help you answer the critical questions you need to make your dish room, and in-turn your whole operation work at optimum levels.

On the next few pages, you will find a worksheet to help you determine the correct dishwasher for your operation, machine sizing guides categorized by industry and a checklist and questionnaire to help you design your dish room to be as efficient as possible.

Below is a checklist of items that are a must for your dish room and optional items, that are not integral, but can make your operation even more efficient if you have the space to include them:

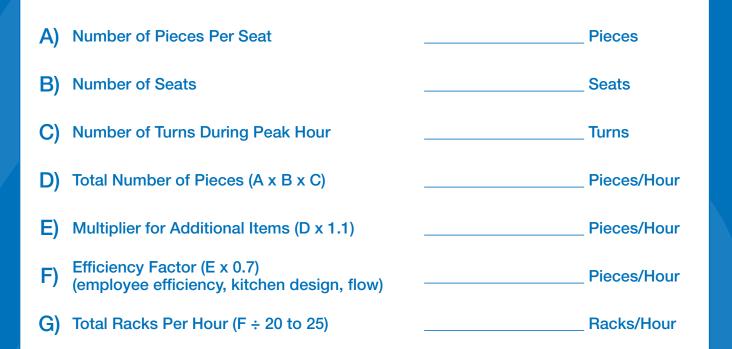
#### **MUST HAVES:**

- Insinger Dishwasher
- □ Hot Water Source
- Dishracks
- Handwashing Sink
- Compartment Sinks or Automatic Washing System Sinks
- □ Clean and Soiled Dish Tables
- Detergents and Sanitizers
- Food Disposal Unit
- Dry Storage Area
- □ Stackable Dish Racks
- Dish Carts
- □ Rack Dollies
- □ Shelving

#### **OPTIONAL ITEMS:**

- □ Sani-buckets
- □ Water Treatment Product
- □ Scraping Area with 30 Gallon Trash Can
- □ Rubber Gloves and Disposable Aprons
- Dedicated Undercounter
- Poker Chip Dollies
- □ Hand Washing Sink or Cleantech System

#### **Machine Sizing Calculation Form**



#### Insinger Models & Racks Per Hour

CADET Undercounter	30 Racks/Hour
CX20 Door Type	60 Racks/Hour
Admiral Series Conveyor Type	233 Racks/Hour
Speeder Series Conveyor Type	277 Racks/Hour
Super 106 Conveyor Type	330 Racks/Hour
Century Flight Type	8,736 Dishes/Hour

#### **Dishroom Design Checklist**

Project Name:	Date:
Site Address:	
Contact :	
Phone #:	
E-mail:	
What type of dishwasher is existing, if any?	
Use the following questions, as a guide, to determine the dishwasher to operation.	that will provide optimum results for your
How many seats or meals are served per day or cycle?	
What are the menu considerations?	
What ware is being washed? Plates? Glassware? S/S flatware? Silver Bake sheets? Large ware?	plated flatware? Plastic? Compartment trays?
What is the largest item that is being run through the dishwasher?	What are the dimensions?
What volume of ware is being washed?	
What is the required delivery date?	
DISHROOM DIMENSIONS	

What are the dimensions of the allotted space? Include bussing, scrapping, sorting, racking, warewashing, prerinsing, and drying.

Would a Power Loader and Power Unloader enhance the productivity of the operation?

What is the current flow of work? What is working well and what could use improvement?

Once the type of dishwasher has been determined you will need to choose the machine specifics.

#### TANK HEAT

What type of tank heat is the customer using or considering?

Electric immersion coil?

Steam injection? Is there "clean steam"?

Steam coil? NOTE: There needs to be a steam condensation return line.

Infrared gas? Gas is available on the Admiral 44, 66, Speeder 64 and Century flight machines. (Liquid propane or natural gas).

#### BOOSTER

What booster size is required?  $\Box$  40° rise  $\Box$  70° rise

🗆 Built-in 🛛 Remote

NOTE: 70° rise is the safer assumption; many facilities have trouble getting 140°F water to the booster and they must be sure they can make the NSF range for final rinse (Minimum of 180°F).

21

#### UTILITIES

#### **Incoming Water**

What is the temperature of the water fed to the dishwasher?

What is the temperature of the water fed to the booster?

#### **Incoming Electric**

Is there an existing dishwasher? \_ YES \_ NO

What is the electric service fed to the dishwasher? Voltage? Phase?

What is the circuit breaker on the line fed to the dishwasher?

What is the electric service fed to the booster?

What is the circuit breaker on the line fed to the booster?

#### **VENTILATION REVIEW**

Is there existing duck work? 
YES NO
Does it require any changes? 
YES NO

NOTE: The exhaust requirement for each dishwasher is listed on the back of each spec sheet.

#### **TABLES**

Are tables to be used if there is an existing dishroom? Will alterations need to be made to existing table?  $\Box$  YES  $\Box$  NO

Will new tables need to be ordered? Lengths: Soiled \_\_\_\_\_ Clean \_\_\_\_\_

#### **OPTIONAL EQUIPMENT**

What options are desired? Some options that you may want to consider are listed below. Check each spec sheet for all the options available for each dishwasher.

 $\hfill\square$  Pressure reduction valve

- Totally enclosed motor
- □ Split doors or lift out doors (for low ceilings)
- □ Wall mounted control panel
- □ Security packages □ Insulated doors
- □ Stainless steel belt
- □ Load-end flushing system

#### DELIVERY

Check delivery path dimensions. What is the smallest dimension the machine will pass (w x I x h)

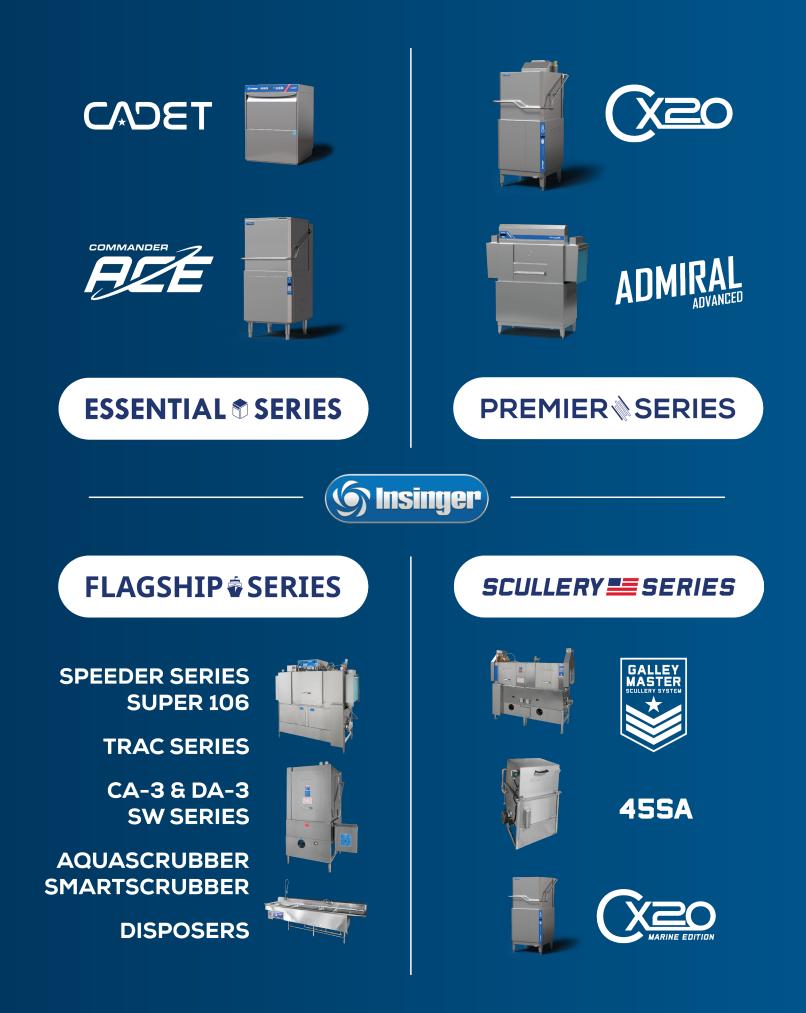
Are there joints that will need to be welded in the field? 
VES NO

Where will the machine be delivered?

Is there a dock?  $\Box$  YES  $\Box$  NO

Will a lift gate be needed?  $\Box$  YES  $\Box$  NO

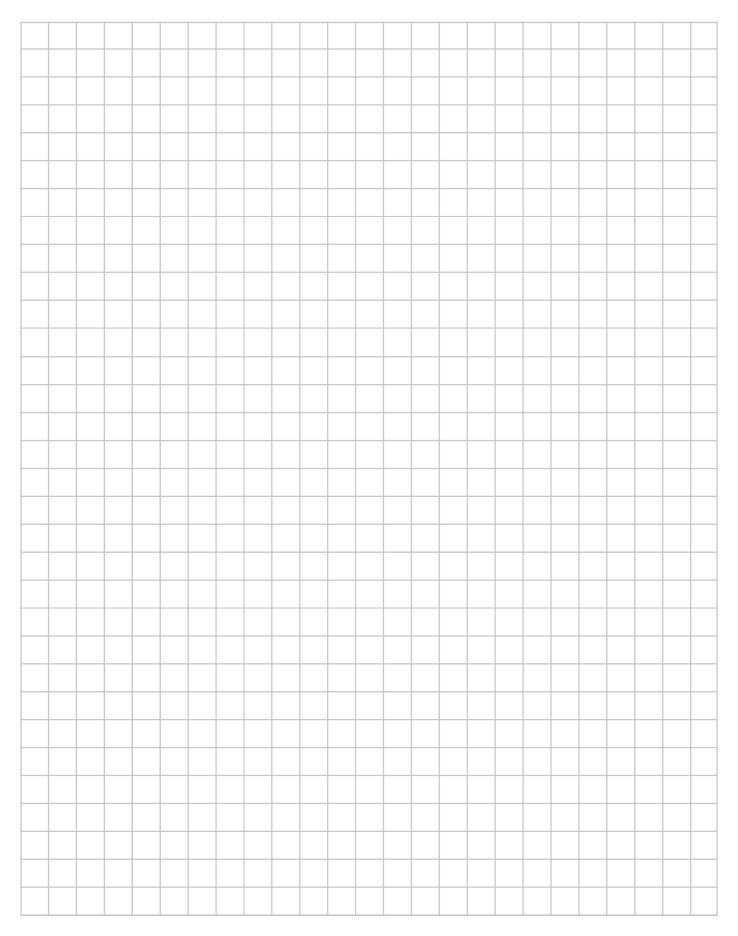
Is there room to store the machine at the facility prior to installation?  $\Box$  YES  $\Box$  NO

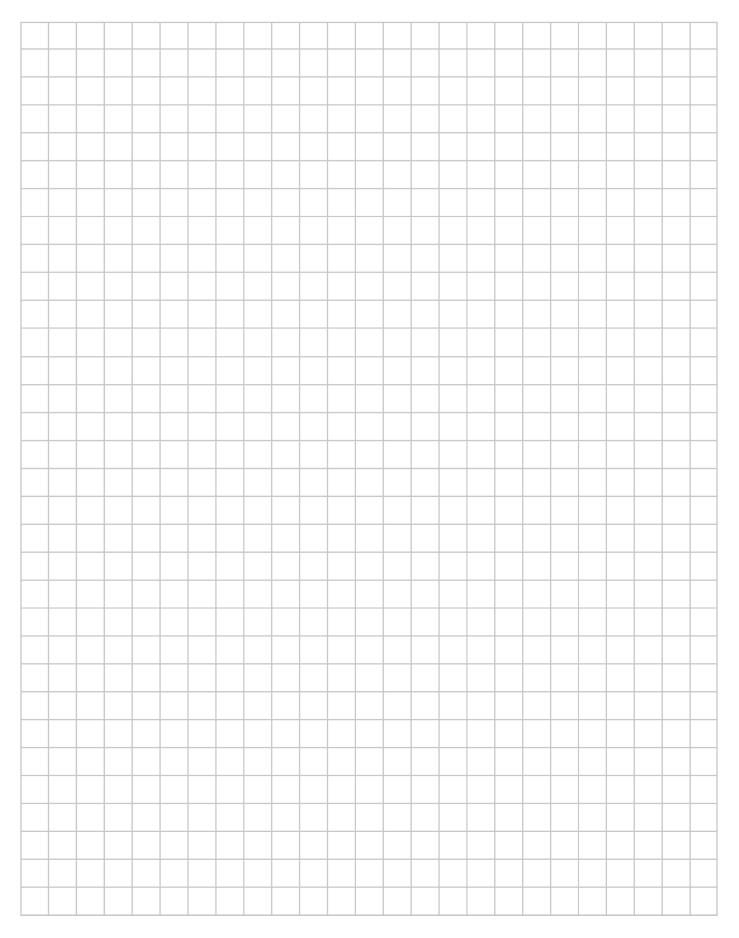


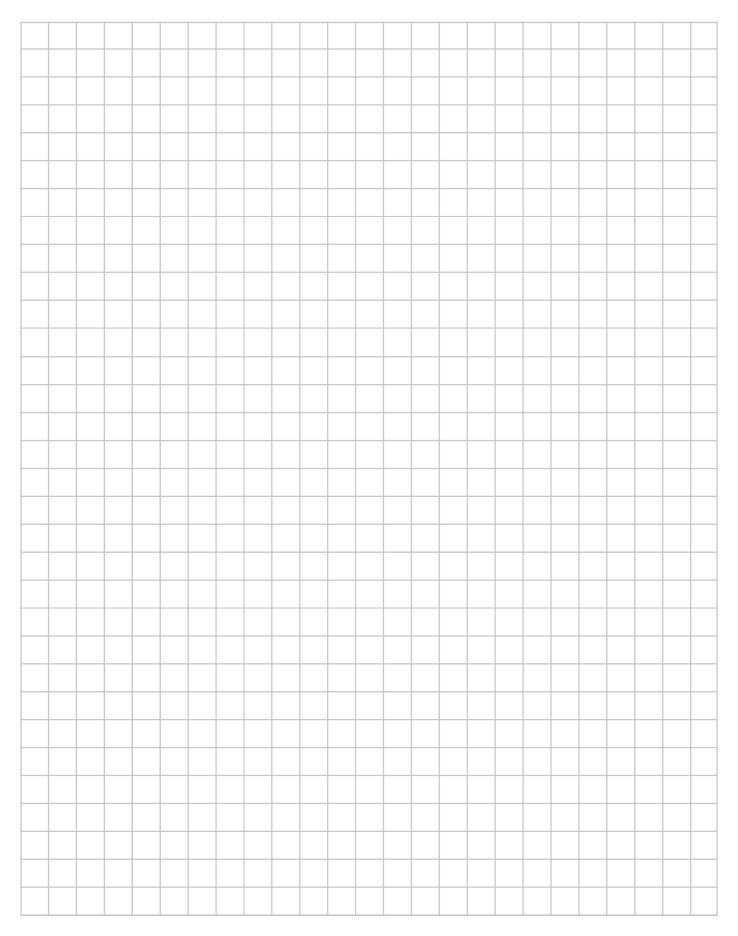


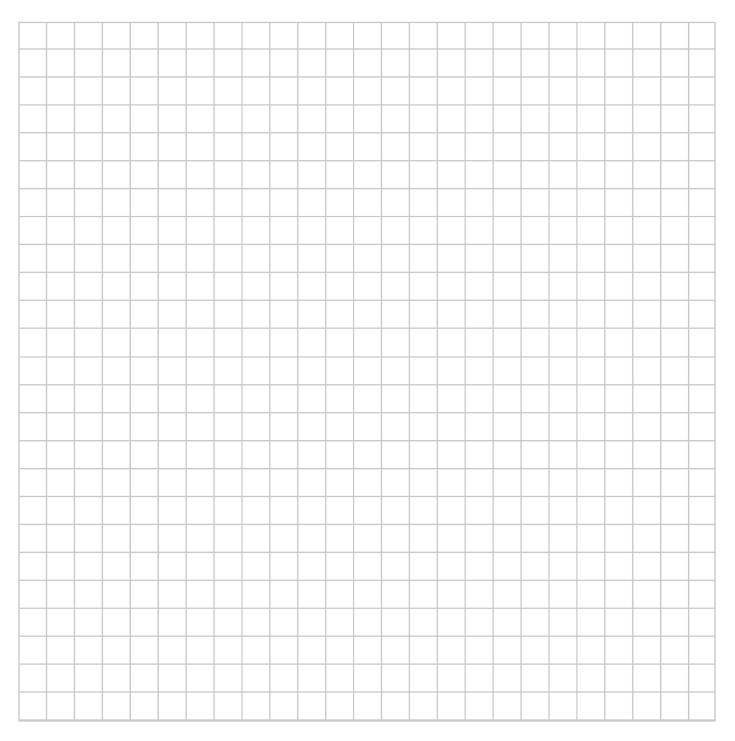


# @InsingerMachine @InsingerMachine









#### **Did You Know?**

Insinger will add six months to your warranty if we do the install!



www.insingermachine.com 800-344-4802 sales@insingermachine.com V.101722