

SYMODULE

Preassembled containers
and prefabricated
electrical cabins

DANIELI AUTOMATION

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SYModule

SYModule/C type

Is a modular preassembled electrical solution completely erected and mounted, at factory, in standard containers.

It can contain whichever type of electrical units:

- > AC and DC power drives
- > Motor starters panels
- > Automation equipments

SYModule/C are delivered ready to be installed thus ensuring the correct assembly of internal equipment. Thanks to their compact design, they can be installed in strategic positions within the plant, close to the motors thus optimizing cable lengths and drives performance.

All the containers can be installed either indoor or outdoor. SYModule/C can be easily transported either by truck or ship as the overall dimensions are in compliance with trade standards.

Features

- > Lighting Systems:
 - standard lighting level of 150 Lux
 - emergency lamps (lighting level of at least 5 Lux)
- > conditioning and pressurization system
- > Fire Systems:
 - fume photo-optical detectors
 - signaling of alarms by acoustic and light devices, according to safety regulations
 - provisions for remote alarm signalization
 - no.2 separate power supplies for alarms circuit
- > Insulated walls
- > Provisions for wall fastening of electronic components
- > Emergency doors
- > Holes and flanges for passing inlet and outlet cables with provisions for sealing
- > Standard earthing provision

- > Maintenance provision for documentation, troubleshooting and repair
- > Double floating floor (option)
- > Base frame mounted units
- > Electrical parts intrusion protection (IP20)
- > Personal safety barrier
- > Cooling

Advantages

- > Easy transportation
- > Short installation time
- > Extended integrated pretested of drives and automation systems
- > Reduced civil works
- > Reduction of quantity of cables and installation materials
- > Reduction of commissioning time
- > Electrical rooms are no more required

Benefits

- > Easy maintenance procedures
- > Diagnostic time reduced in case of plant failures thanks to location of container close to the plant
- > No erection time, external cabling only

SYModule/S type

Prefabricated electrical cabin, provides an alternative to SYModule/C, offering similar advantages with the follow main differences:

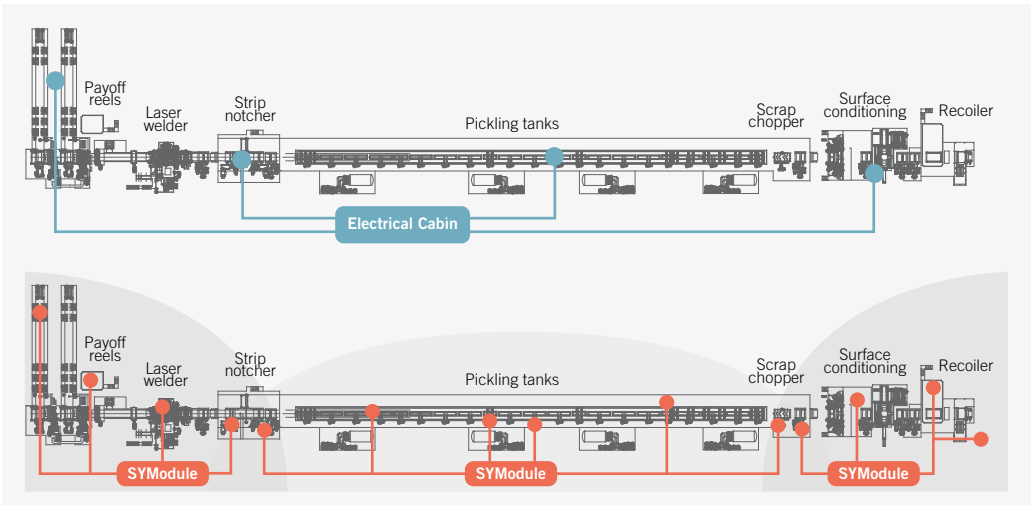
- > wider dimensions
- > shipped in pieces
- > not preassembled equipment

Savings with SYModule cabin system

- > Power cables: 40-60%
- > Control unshelded cable: 10%
- > Network cables: 10%
- > Cable trays: 40-60%

SYModule/C type	40 foot -1AA	30 foot -1BB	20 foot -1CC
Lenght	12,192 m (40')	9,125 m (30')	6,058 m (20')
Width	2,438 m (8')	2,438 m (8')	2,438 m (8')
Height	2,591 m (8.5')	2,591 m (8.5')	2,591 m (8.5')
Gross weight	38,480 kg (67,200 lb)	25,400 kg (56,000 lb)	24,000 kg (52.900 lb)

SYModule/S type	Environment	External	Internal
Lenght	less than 20,00 m (65')	Temperature (min)	-15°C (5°F) +5°C (41°F)
Width	3.3 - 3.6 m (10.8 - 11.8')	Temperature (max)	+50°C (122°F) +35°C (95°F)
Height	less than 3.3 m (10.8')	Humidity (max)	90% 90%

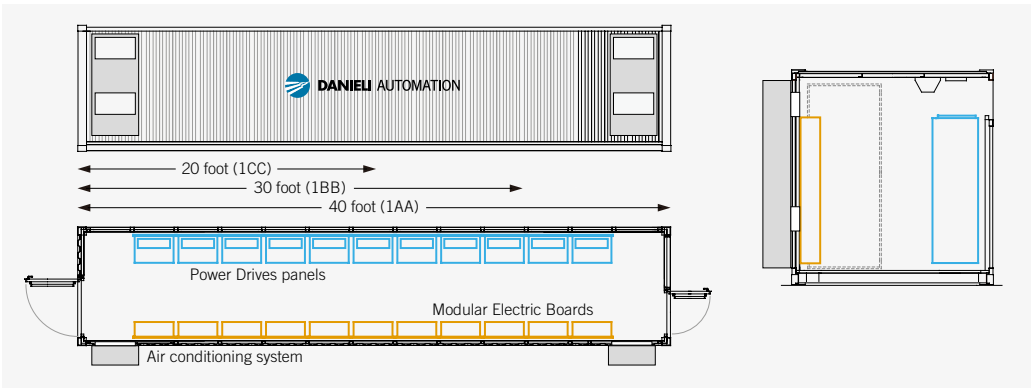


Electrical connecting cables with traditional electrical cabin in a pickling line

Distributed prefabricated electrical cabins in a pickling line



SYMModule/C outdoor and indoor installation



SYMModule/C typical container assembling

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