

# Cover Pack

*for DOOSAN  
Stage V  
Industrial Engines  
from 33 Hp to 135 Hp*



**SOCOGES**  
INDUSTRY

# Cover Pack

for DOOSAN Stage V Industrial Engines from 33 Hp to 135 Hp

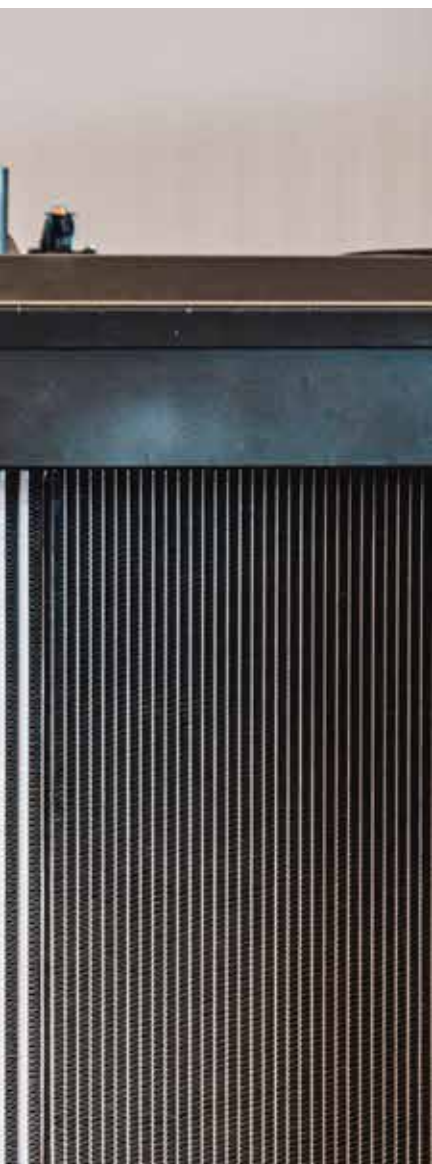


**Modular, strong,  
compact**

Produced by Socoges, the **Cover Pack** is a modular, robust and compact soundproofing canopy designed for DOOSAN StageV industrial engines.

The **Cover Pack** was created to reduce engine noise emissions even in the harshest working conditions.

Its modular design focuses on ease of access, which allows ordinary maintenance activities to be carried out at any time, even with the engines running.



## Modularity

The **Cover Pack** has been tested in extreme and demanding environmental conditions to ensure reliability.

Its framework is composed of removable soundproofing panels, which allow inspection inside the compartment without removing the engine.

Thanks to the plug-in access points, a quick check of fuel, water and oil can be carried out when required.

## Strength

The unique steel case provides robust and complete protection of the engines against accidents, impact and vibration.

All metal panels are bolted to the chassis to allow them to be removed and to withstand vibration.

Sound-absorbing foam fitted to the inner faces of the compartment considerably reduces noise.

## Compactness

The **Cover Pack** includes three customized versions for each engine of DOOSAN StageV range (D18, D24 and D34).

The overall dimensions of the product make it compact while maintaining its strength.

The **Cover Pack** target is to be a Plug&Play engineered product including engine, radiator, filters, an exhaust gas after-treatment system, wiring harness and everything necessary to be ready to start.



## Noise reduction

1

The internal walls are coated with sound insulating panels able to **reduce the noise emissions to 65 bD** even at full speed.



## Steel Frame

2

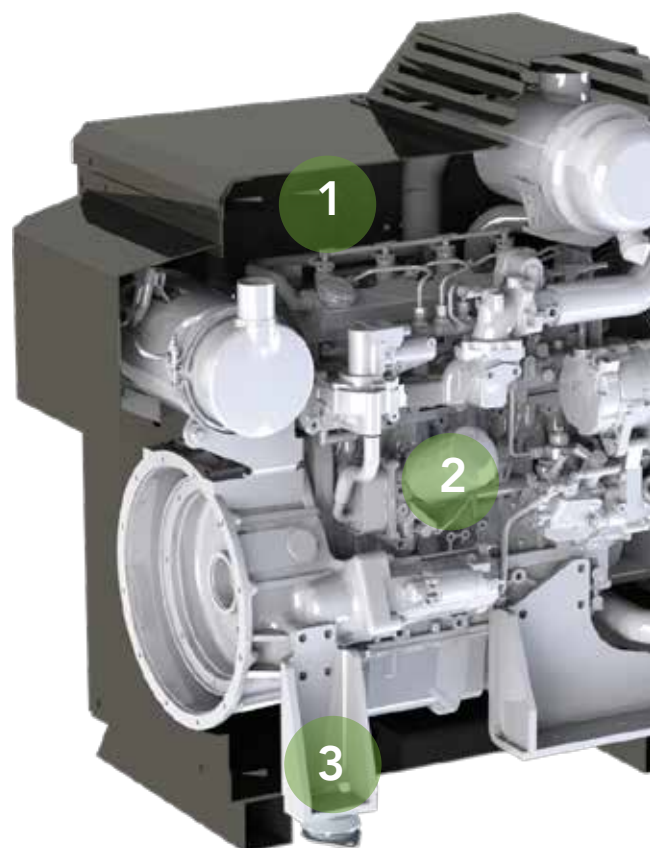
The metal cover ensures a complete protection from heat and impact damage even in extreme working conditions.



## Dampers

3

To tackle the high level of stress typical of construction equipment and agriculture machinery, the **Cover Pack** includes anti-vibration dampers to protect the engines from mechanical strain.





## Easy Maintenance

4

The entire cover consists of removable bolted sheets to allow easy access to the engine compartment.

This also permits quick access both for water and oil level checking.

## Display

5

The **Murphy PV380** display monitors multiple engine and machine parameters on an easy-to-read LCD.

The display is capable of handling sophisticated engine diagnostics as well as basic engine alarm/shutdown.



## Ready to go

6

The **Cover Pack** is a real turn-key product ready to go including fast plug-in for battery cables, starting key, full wiring harnesses and push buttons which command the DPF's regeneration process for Stage V engines.

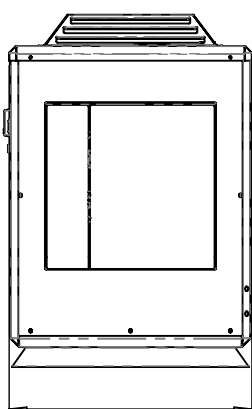


# Cover Pack

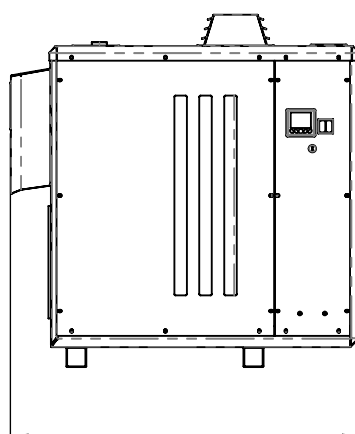
This project has been developed to provide a Plug&Play power pack system already engineered, approved and compliance to both STAGE V (EU market) and TIER 4Final (U.S. market) emissions regulations.

A tailored solution can be found on each engine: D18 (33 ÷ 60 Hp), D24 (49 ÷ 74 Hp) and D34 (74 ÷ 135 Hp).

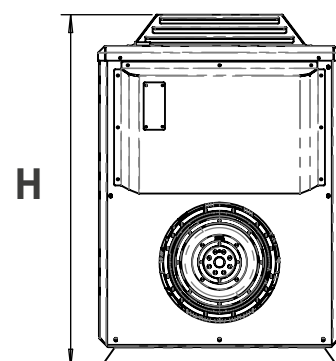
Model	Dimension (mm)			Weight (kg)
	L	W	H	
• CP18	824	1149	1121	465
• CP24	824	1249	1121	530
• CP34	972	1401	1411	740



L



W



H

\* specifications are subject to change without prior notice

## General Engine Data

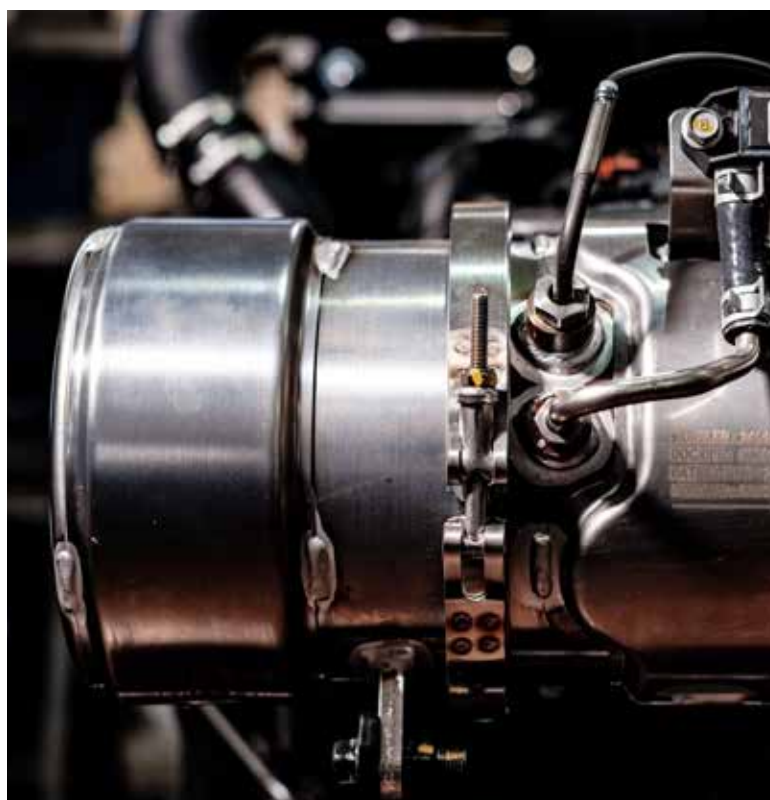
• Engine Model	D18
• Engine Type	In-line 4 cycle Diesel, water cooled, Turbo-intercooler
• Combustion type	Direct injection
• Cylinder type	Linerless
• Number of cylinders	3
• Bore x Stroke	90 x 94 mm
• Displacement	1.8 liter
• Compression ratio	17.0 : 1
• Firing order	1 - 3 - 4 - 2
• Rotation	Counter clockwise viewed from Flywheel
• Flywheel housing	SAE #5
• Flywheel	Clutch 7.5"

## General Engine Data

• Engine Model	D24
• Engine Type	In-line 4 cycle Diesel, water cooled, Turbo-intercooler
• Combustion type	Direct injection
• Cylinder type	Linerless
• Number of cylinders	4
• Bore x Stroke	90 x 94 mm
• Displacement	2.4 liter
• Compression ratio	17.0 : 1
• Firing order	1 - 3 - 4 - 2
• Rotation	Counter clockwise viewed from Flywheel
• Flywheel housing	SAE #4
• Flywheel	Clutch 10"

## General Engine Data

• Engine Model	D34
• Engine Type	In-line 4 cycle Diesel, water cooled, Turbo-intercooler
• Combustion type	Direct injection
• Cylinder type	Linerless
• Number of cylinders	4
• Bore x Stroke	98 x 113 mm
• Displacement	3.4 liter
• Compression ratio	17.0 : 1
• Firing order	1 - 3 - 4 - 2
• Rotation	Counter clockwise viewed from Flywheel
• Flywheel housing	SAE #3
• Flywheel	Clutch 11-1/2"



## STAGE V and TIER 4FINAL solutions

The EU's emission standards - including StageV for industry, which are said to be the strictest in the world - require the use of DPFs (Diesel Particle filter) to remove the dust particles contained in exhaust gas.

All the engines line-up (D18, D24 and D34) are also available with No-DPF TIER 4Final technology which has been developed in response to the exhaust gas regulations of North America.

POWERED BY  
**DOOSAN**

CERTIFIED  
**STAGE V**

# SOCOGES

INDUSTRY

Zona Industriale - 70043  
Monopoli (Bari) - ITALY  
Tel. (+39) 080.937.40.39



[www.socoges.it](http://www.socoges.it)  
[info@socoges.it](mailto:info@socoges.it)

