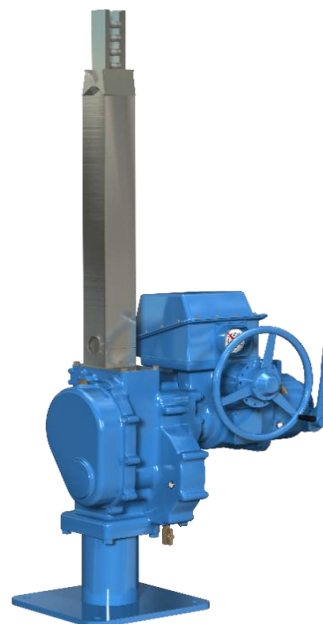




HOKOKU KOGYO Co., Ltd.

HOKOKU NEWCON  
NCK20S



## Functional unit

Per unit of product

## System boundary

☐ final products      ☒ intermediate products

Raw material acquisition, Transport, Production

## Main specifications of the product

Product model : NCK20S

Product weight : 543 Kg

(excluding rack bars and accessories)

Major production factory : HOKOKU KOGYO Co., Ltd.

Headquarters factory

## Company Information

**HOKOKU KOGYO Co., Ltd.**

6400-3 Saijocho Misono,

Higashihiroshima-shi, Hiroshima, Japan

TEL : 082-493-7019

Registration#	JR-BP-24009E
PCR number	PA-240000-BP-01
PCR name	Construction products
Publication date	6/13/2025
Verification date	6/4/2025
Verification method	Product-by-product
Verification#	JV-BP-24009
Expiration date	6/3/2030
PCR review was conducted by:	
Approval date	7/11/2023
PCR review	Masayuki Kanzaki
panel chair	(Sustainable Management Promotion Organization)

## Third party verifier\*

Kengo Minamiyama

Independent verification of data & declaration in  
accordance with ISO14025

☐ internal

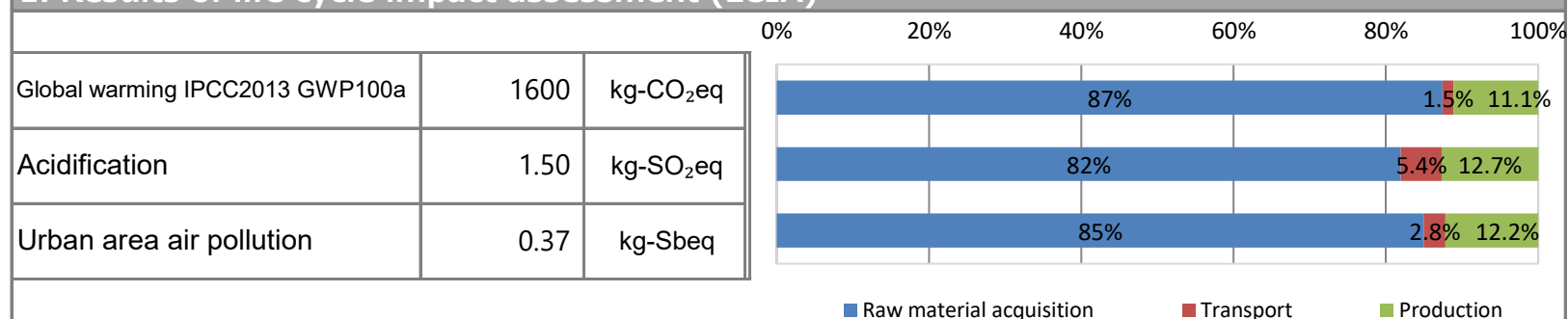
☒ external

\*Auditor's name is stated if system certification has been performed.

Registration number : JR-BP-24009E



## 1. Results of life cycle impact assessment (LCIA)



Parameter	stage	Unit	Total	Raw material acquisition	Transport	Production	-	-
Global warming IPCC2013 GWP100a		kg-CO <sub>2</sub> eq	1.6E+03	1.4E+03	2.4E+01	1.8E+02	-	-
Ozone layer destruction		kg-CFC-11eq	2.0E-04	1.7E-04	3.2E-10	3.1E-05	-	-
Acidification		kg-SO <sub>2</sub> eq	1.5E+00	1.2E+00	7.8E-02	1.8E-01	-	-
Urban area air pollution		kg-SO <sub>2</sub> eq	1.0E+00	8.7E-01	2.9E-02	1.2E-01	-	-
Photochemical ozone		kg-C <sub>2</sub> H <sub>4</sub> eq	2.2E+00	8.9E-02	1.7E-04	2.1E+00	-	-
Toxic chemicals(cancer)		kg-C <sub>6</sub> H <sub>6</sub> eq	8.8E+00	6.3E+00	1.2E-04	2.5E+00	-	-
Toxic chemicals(chronic disease)		kg-C <sub>6</sub> H <sub>6</sub> eq	1.2E-01	2.0E-02	7.6E-05	9.5E-02	-	-
Aquatic toxicity		kg-C <sub>6</sub> H <sub>6</sub> eq	2.7E+00	1.7E+00	3.7E-06	9.9E-01	-	-
Biological toxity		kg-C <sub>6</sub> H <sub>6</sub> eq	5.2E+01	3.6E+01	6.2E-05	1.6E+01	-	-
Eutrophication		kg-PO <sub>4</sub> <sup>3-</sup> eq	1.1E-01	4.8E-03	2.4E-10	1.1E-01	-	-
Land use(Occupation)		m <sup>2</sup> /year	2.1E+01	8.5E+00	2.0E+00	1.1E+01	-	-
Land use(Transformation)		m <sup>2</sup>	4.2E-01	1.8E-01	3.9E-02	2.1E-01	-	-
Resources consumption		kg-Sbeq	3.7E-01	3.5E-01	9.8E-05	1.6E-02	-	-

## 2. Life cycle inventory analysis (LCI)

Parameter		Unit
Non-renewable material resources	3.7E+02	kg
Non-renewable energy resources	6.7E+02	kg
Non-renewable energy resources	2.4E+04	MJ
Renewable material resources	2.1E+02	kg
Renewable primary energy	4.1E+03	MJ
Consumption of freshwater	6.5E+00	m <sup>3</sup>

## 3. Material composition

Material		Unit
Casting	69	%
Steel	16	%
SUS	1	%
Others	14	%

## 4. Waste to disposal

Parameter		Unit
Hazardous waste		kg
Non-hazardous waste.	6.02E+00	kg
Treated MSW for landfill	2.42E-05	kg
Treated industrial waste for landfill	6.02E+00	kg

\*Data derived from LCA and not assigned to the impact categories of LCIA





## 5. Additional explanation

- ① This calculation covers manufacturing at the factory and does not include transportation from the factory to the installation site.
- ② The means of transport and loading rate followed the transport scenarios outlined in Appendix B of the PCR.
- ③ The burden of container packaging at the time of purchasing parts is not included.
- ④ Part weight and power consumption during processing are calculated by actual measurement. Weight measurements are taken of only one part, so fluctuations due to individual differences are not taken into account. Power consumption is also measured over a specific period of time.
- ⑤ Electrical equipment such as control panels required for operation are not included.

## 6-1. Supplementary environmental information

This product is manufactured in a factory that has obtained ISO 14001 certification.

## 6-2. Regulated hazardous substances

Substance	CAS No.	Reference to standards or regulations
Ethylbenzene	100-41-4	PRTR Law
Xylene	1330-20-7	PRTR Law
Chromium	7440-47-3	PRTR Law
Trivalent chromium		PRTR Law
Toluene	108-88-3	PRTR Law
Nickel	7440-02-0	PRTR Law
Manganese and other compounds	7790-33-2	PRTR Law

## 7. Assumptions of secondary data used

Used IDEA ver.3.1.0.

## 8. Remarks

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- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied.  
(Reference URL : <https://ecoleaf-label.jp/regulation/>)
- This is a selfdeclared translation of EPD that can be accessed at [<https://ecoleaf-label.jp/epd/2309>]  
and is published for convenience purposes. Only the original EPD is valid and binding between parties.