



Metalworking Fluid Filtration Solution

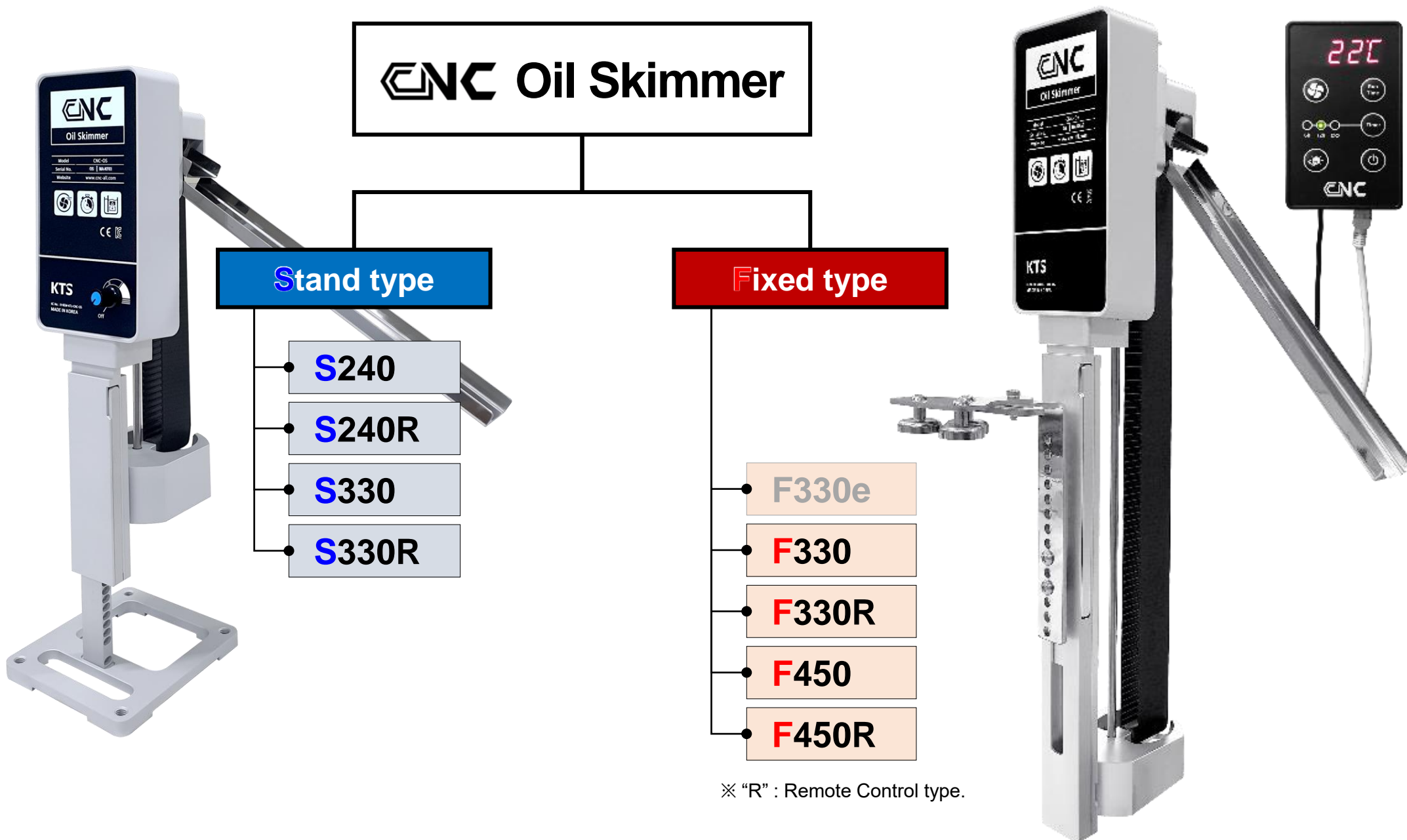
CNC Oil Skimmer

- Product Introduction
by installation

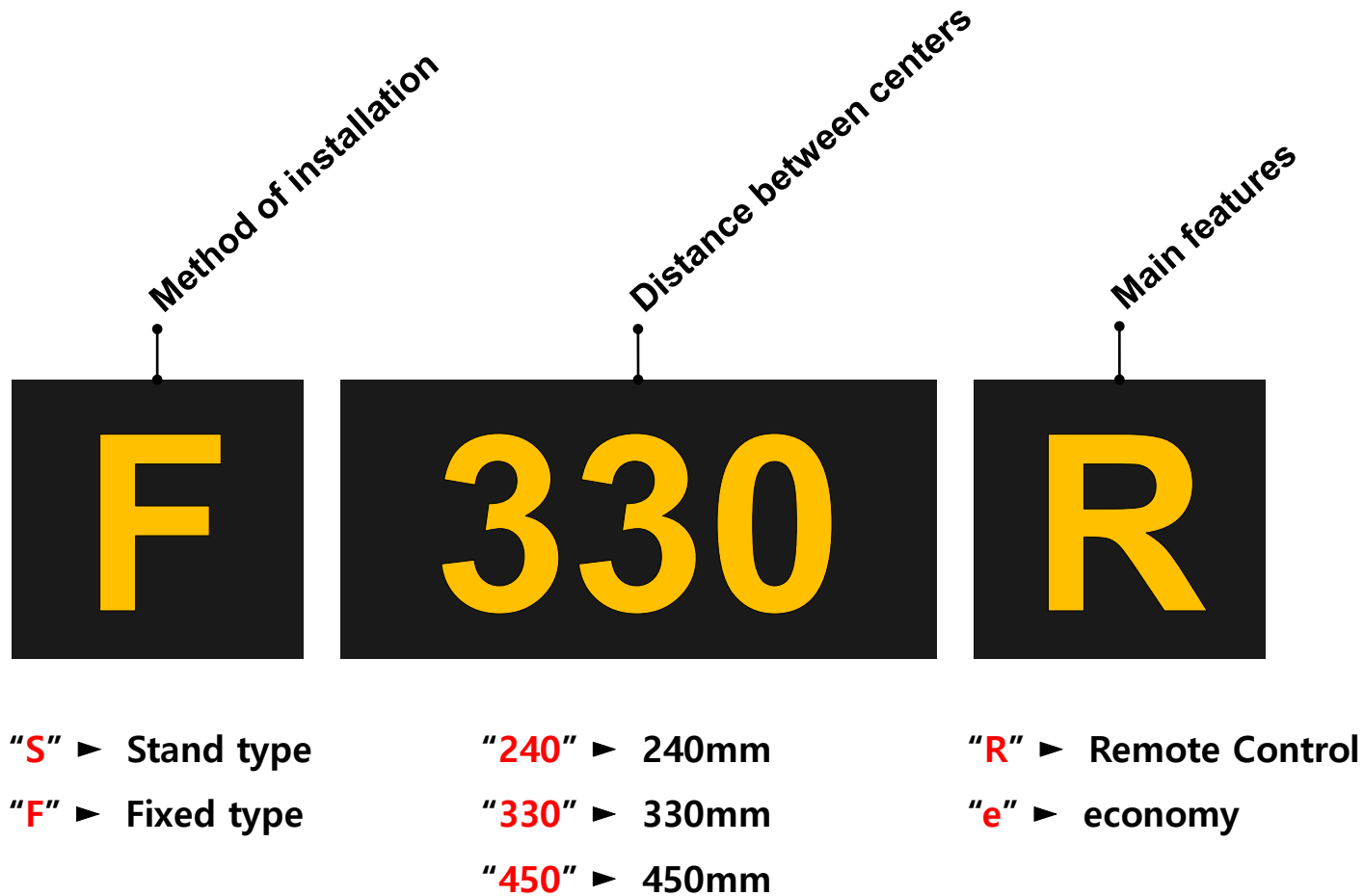


KTS - Industrial Machinery Division

1. Product Line-up



Att. #1. Model Naming



2. Main features



- ① High rigid aluminum body (Surface treatment : Anodizing)
- ② Self designed gear box (Patented)
- ③ Durable motor (made by Bosch & distributed by Hyundai MOBIS)
- ④ Speed control dial for efficient operating
- ⑤ Built-in height adjustable lever
- ⑥ Impeller inducing vortex and coolant circulation (Patented)
- ⑦ Free standing structure (easy installation)

3. Product Structure (Dial type vs. Remote type)

CNC Oil Skimmer

【Dial Control type】



【Remote Control type】



3. Product Structure (Stand type vs. Fixed type)

CNC Oil Skimmer

Model : S240



Model : F330



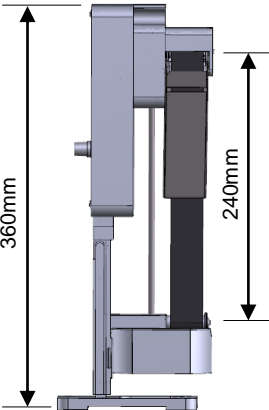
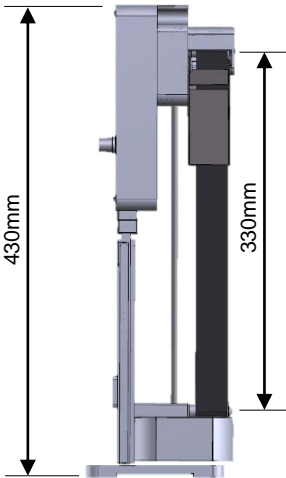
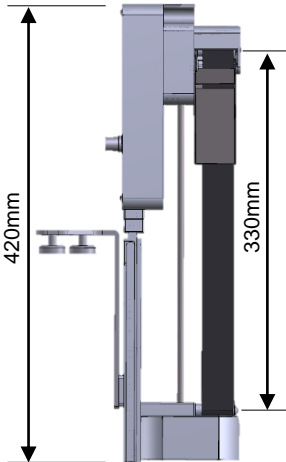
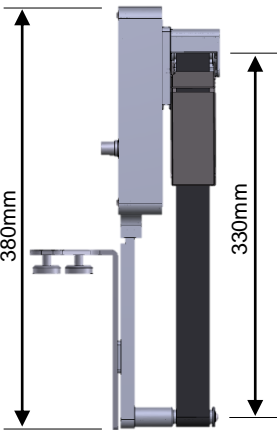
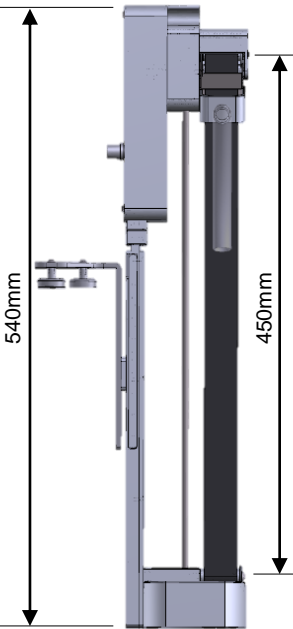
3. Product Structure (Optional Accessories)

CNC Oil Skimmer



4. Main Specifications



	Stand type		Fixed type		
	S240(R)	S330(R)	F330(R)	F330e	F450(R)
					
Entire Height	360mm (Max.480mm)	430mm (Max.580mm)	420mm (Max.570mm)	380mm	540mm
Distance between centers	240mm	330mm	330mm	330mm	450mm
Changes of Coolant level	90~210mm from the bottom of the tank	70~220mm from the bottom of the tank	20~140mm from the top of the tank	20~180mm from the top of the tank	100~250mm from the top of the tank
Stroke	0~120mm	0~150mm	0~150mm	50mm	0~150mm
Skimming Stroke	0~120mm	0~150mm	0~120mm	-	0~150mm

※ Product appearance and dimensions are subject to change without notice for performance improvement purposes.

4. Main Specifications



Stand type

S240(R)

S330(R)

F330(R)

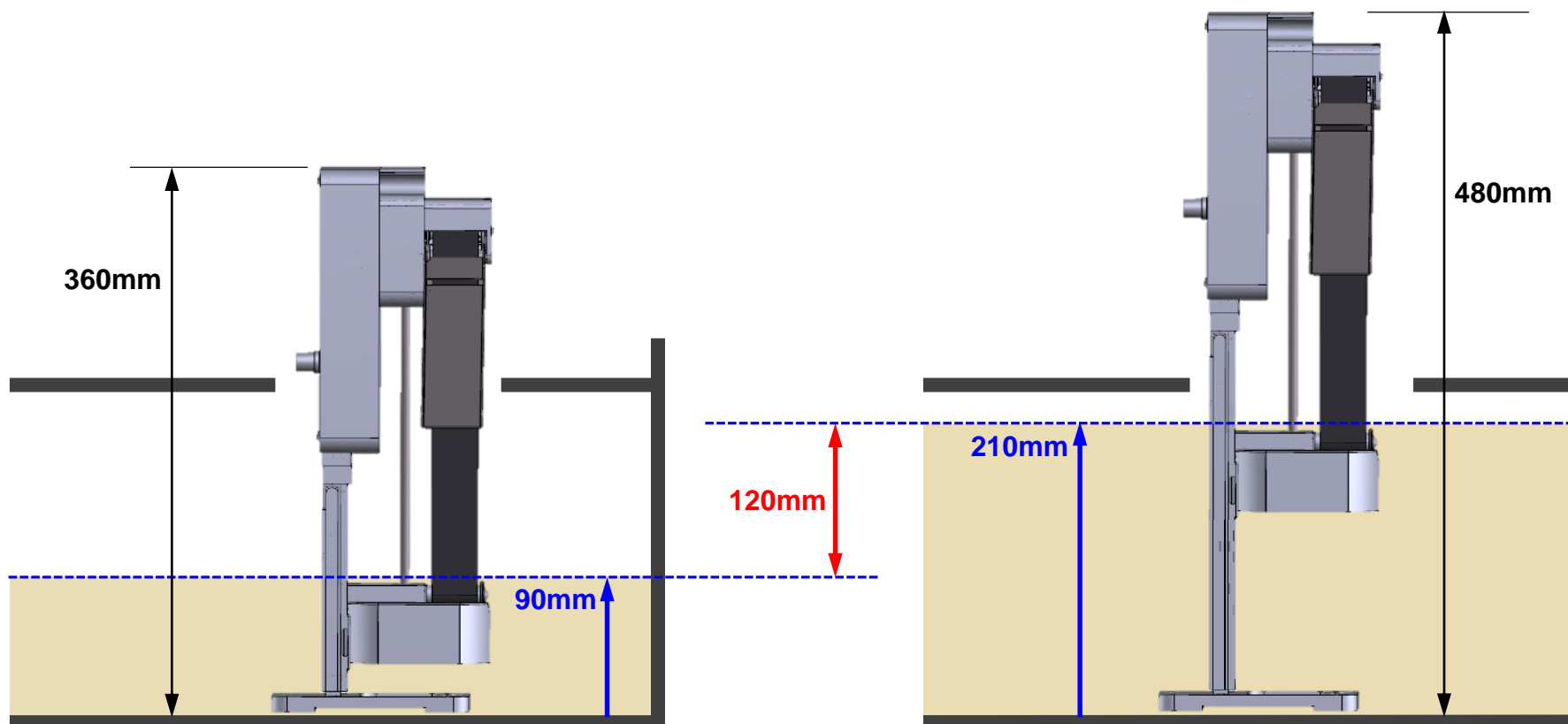
F330e

F450(R)

Applicable level of coolant ► 90~210mm from the bottom of coolant tank

(The changes of coolant level : 120mm)

※ Examples for use : Commodity type of Machines



4. Main Specifications



Stand type

S240(R)

S330(R)

F330(R)

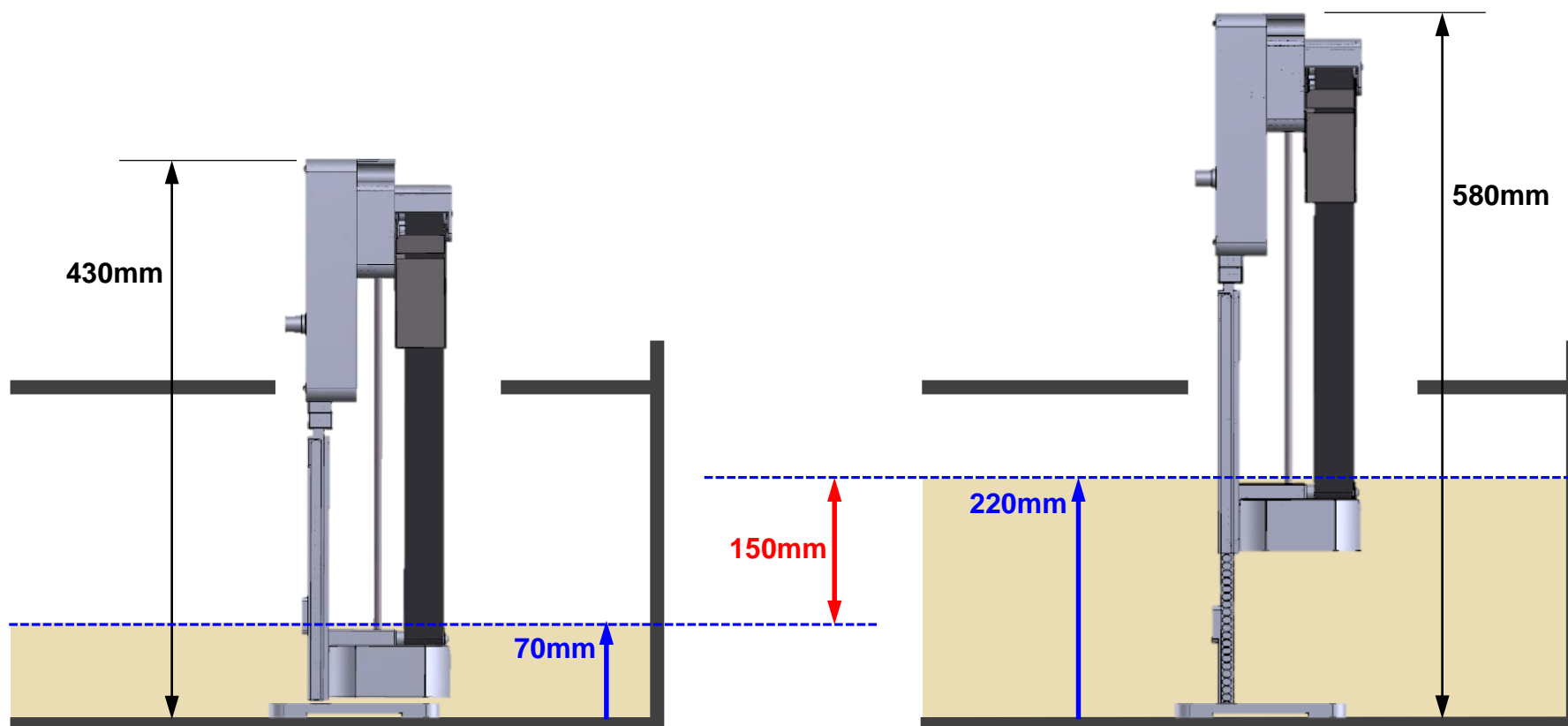
F330e

F450(R)

Applicable level of coolant ► 70~220mm from the bottom of coolant tank

(The changes of coolant level : 150mm)

※ Examples for use : Commodity type to Large sized machines



4. Main Specifications

Fixed type

S240(R)

S330(R)

F330(R)

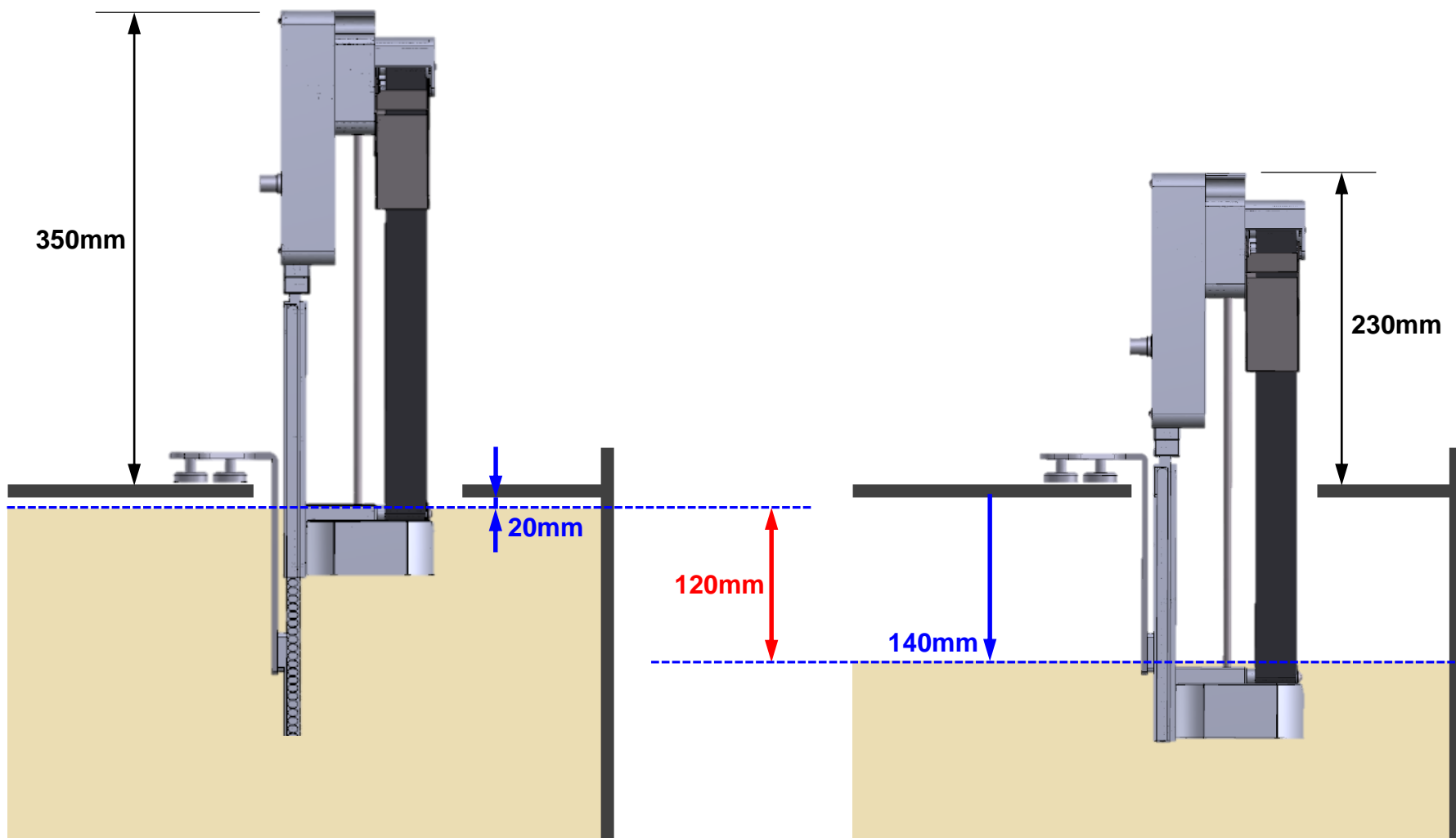
F330e

F450(R)

Applicable level of coolant ► 20~140mm from the top of coolant tank

(The changes of coolant level : 120mm)

※ Examples for use : Large sized machines with deep tank



4. Main Specifications



Fixed type

S240(R)

S330(R)

F330(R)

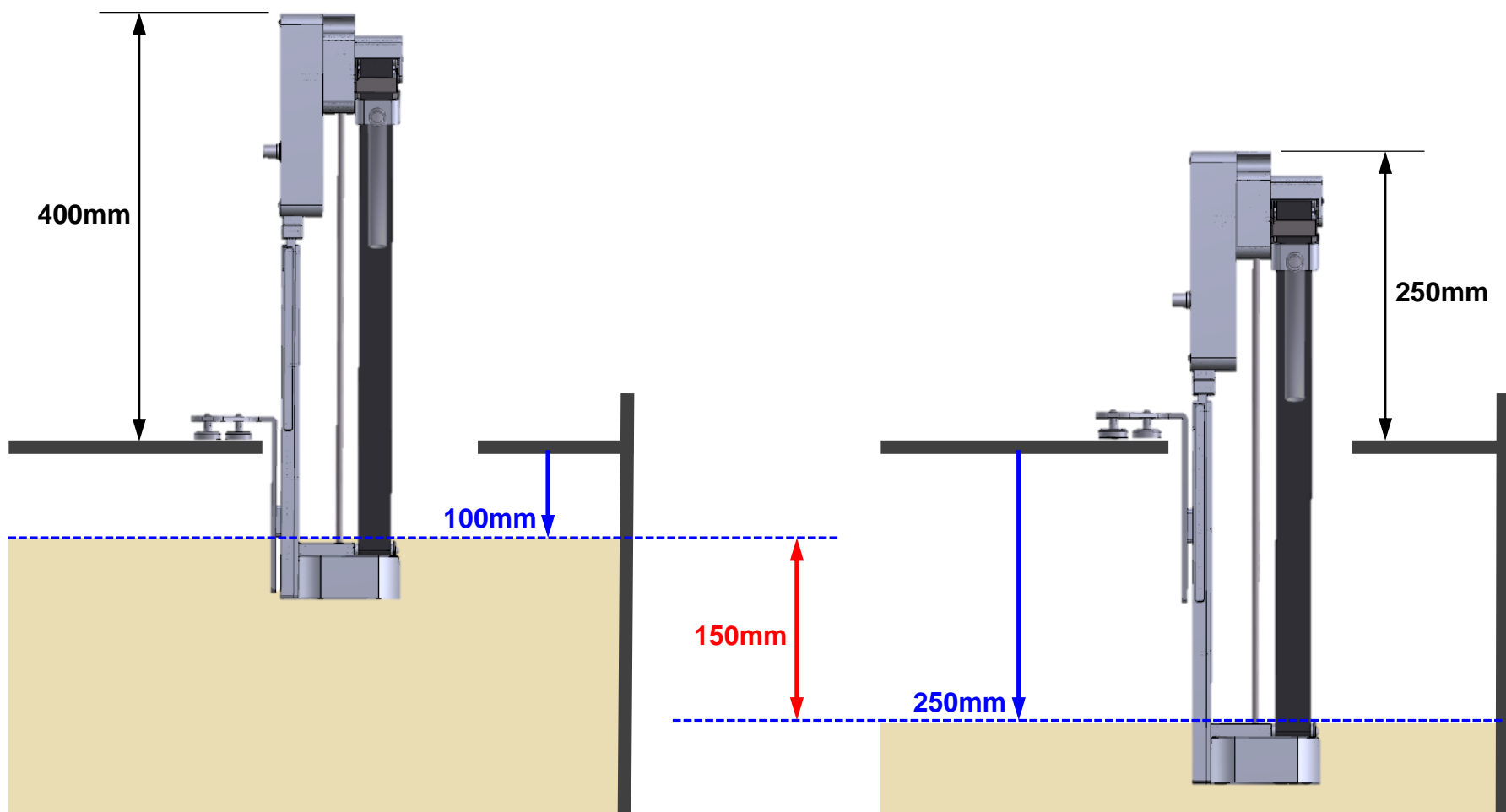
F330e

F450(R)

Applicable level of coolant ► 100~250mm from the top of coolant tank

(The changes of coolant level : 150mm)

※ *Examples for use : Industrial machines for special purposes*



4. Main Specifications



Fixed type

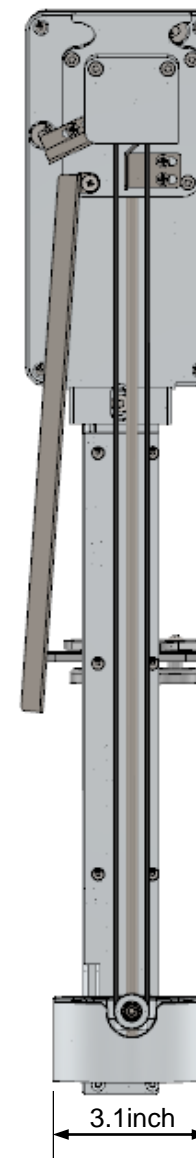
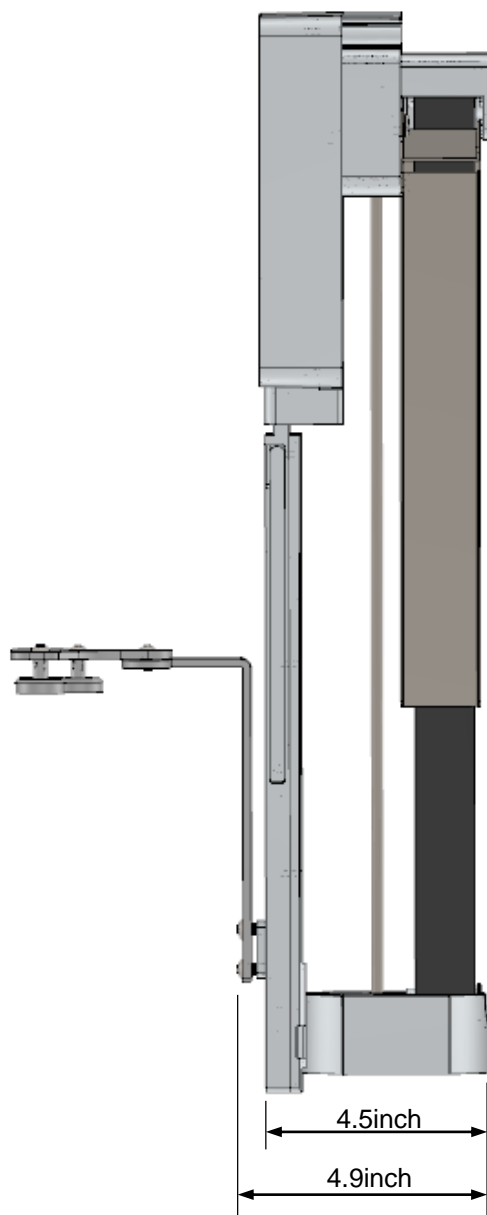
S240(R)

S330(R)

F330(R)

F330e

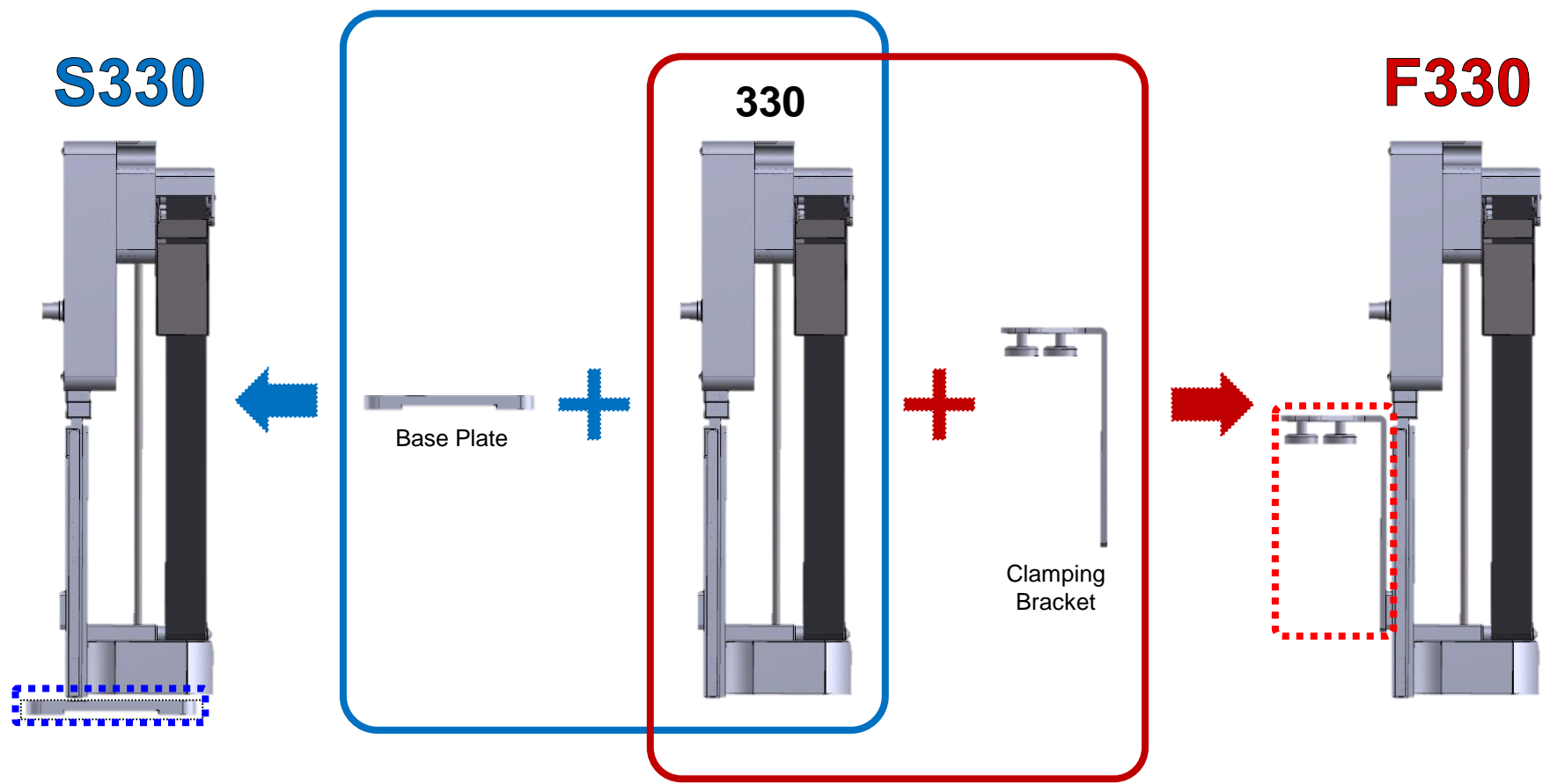
F450(R)



4. Main Specifications



Compatibility	S240(R)	S330(R)	F330(R)	F330e	F450(R)
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Metalworking Fluid Filtration Solution

CNC Oil Skimmer

- Sales Points



KTS - Industrial Machinery Division



1. Easy Installation

2. Efficient Operation

3. Powerful Performance

4. Cost Saving



1. Easy Installation

CNC Oil Skimmer (Stand type & Fixed type)



Just
put in the tank

Multi-use

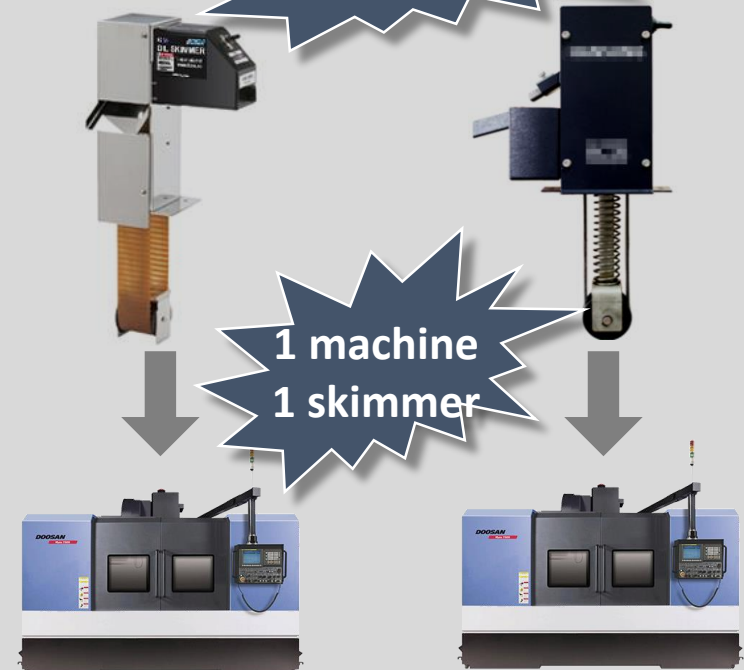


Competitors (Fixed type)



Need to be fixed

1 machine
1 skimmer



1. Easy Installation

➤ Installation methods (Stand type and Fixed type)

Stand type



Installation (Model : S240, S330)

- #1. Space confirmation (110x150mm)
- #2. Connecting the adapter to skimmer
- #3. Turn on the skimmer and
Check the operation status
- #4. Put the skimmer on the bottom of
coolant tank and adjust the height**

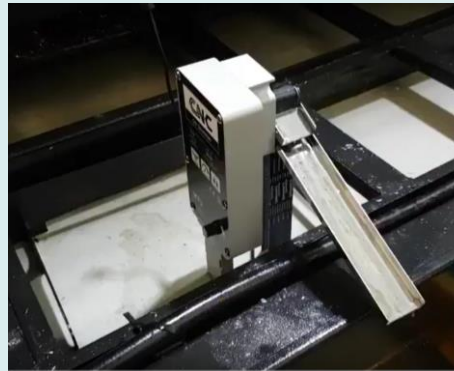
Fixed type



Installation (Model : F330, F450)

- #1. Space confirmation (110x150mm)
- #2. Connecting the adapter to skimmer
- #3. Turn on the skimmer and
Check the operation status
- #4. Attach the skimmer through the magnet
bracket on the top of the coolant tank
and adjust the height**

➤ Installation samples



2. Efficient Operation

CNC Oil Skimmer



- Dial type -



- Remote type -



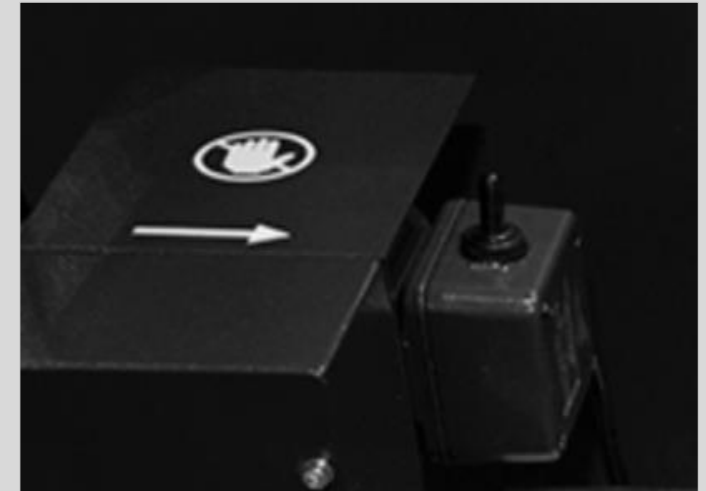
Efficient operation by adjusting the impeller speed according to the status of Coolant / Tramp Oil

★ Remote Control ★

Monitoring the cutting fluid temperature in real time

Set-up the impeller Speed and Run Time according to the status of coolant

Competitors



Power On/Off

2. Efficient Operation



Remote Control

【Display】

Monitoring the cutting fluid temperature in real time

Displaying the status of set-up

- Speed button : 1 / 2 / 3 / 4
- Run Time button : 10 / 20 / 30 / 40 / 50
- Timer : 06:00 / 12:00 / Cont.
- Morning Clean : 06:00(Delay)→01:00(Run)

【Speed】

Speed Control in 4 steps

【Morning Clean】 - hotkey

Press the button at the end of the day and it will work in the following sequence,

“Delay 6hours” → “Run 1hour” → “Automatic Power Off”
⇒ You should find cleaner coolant the following morning.



【Run Time】

Run and Delay repeat operation in 5 modes

- Run 10min. ↔ Delay 50min.
- Run 20min. ↔ Delay 40min.
- Run 30min. ↔ Delay 30min.
- Run 40min. ↔ Delay 20min.
- Run 50min. ↔ Delay 10min.

【Timer】

- 6h : Automatic Power Off after 6hours of operation
- 12h : Automatic Power Off after 6hours of operation
- ∞ : Continuous operation

【Power】

Power On/Off

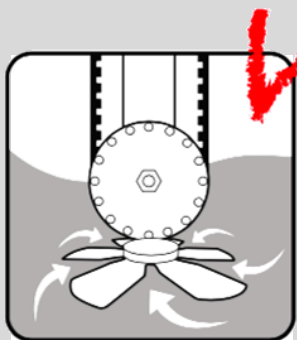
connected to adapter

connected to Oil Skimmer

3. Powerful Performance



CNC Oil Skimmer (Impeller + Belt)



with Impeller

Oil induced inside the circle
Tramp Oil is collected around the belt
Faster removal of Tramp Oil

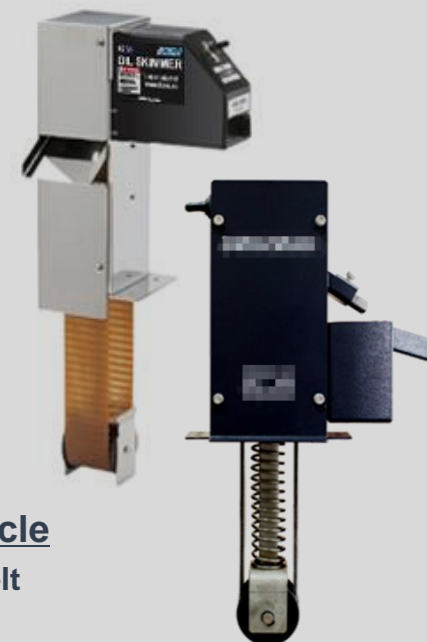
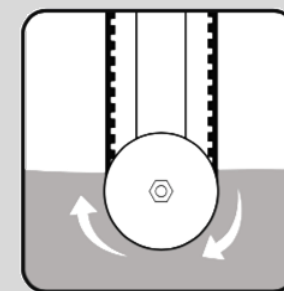


Competitors (Belt)



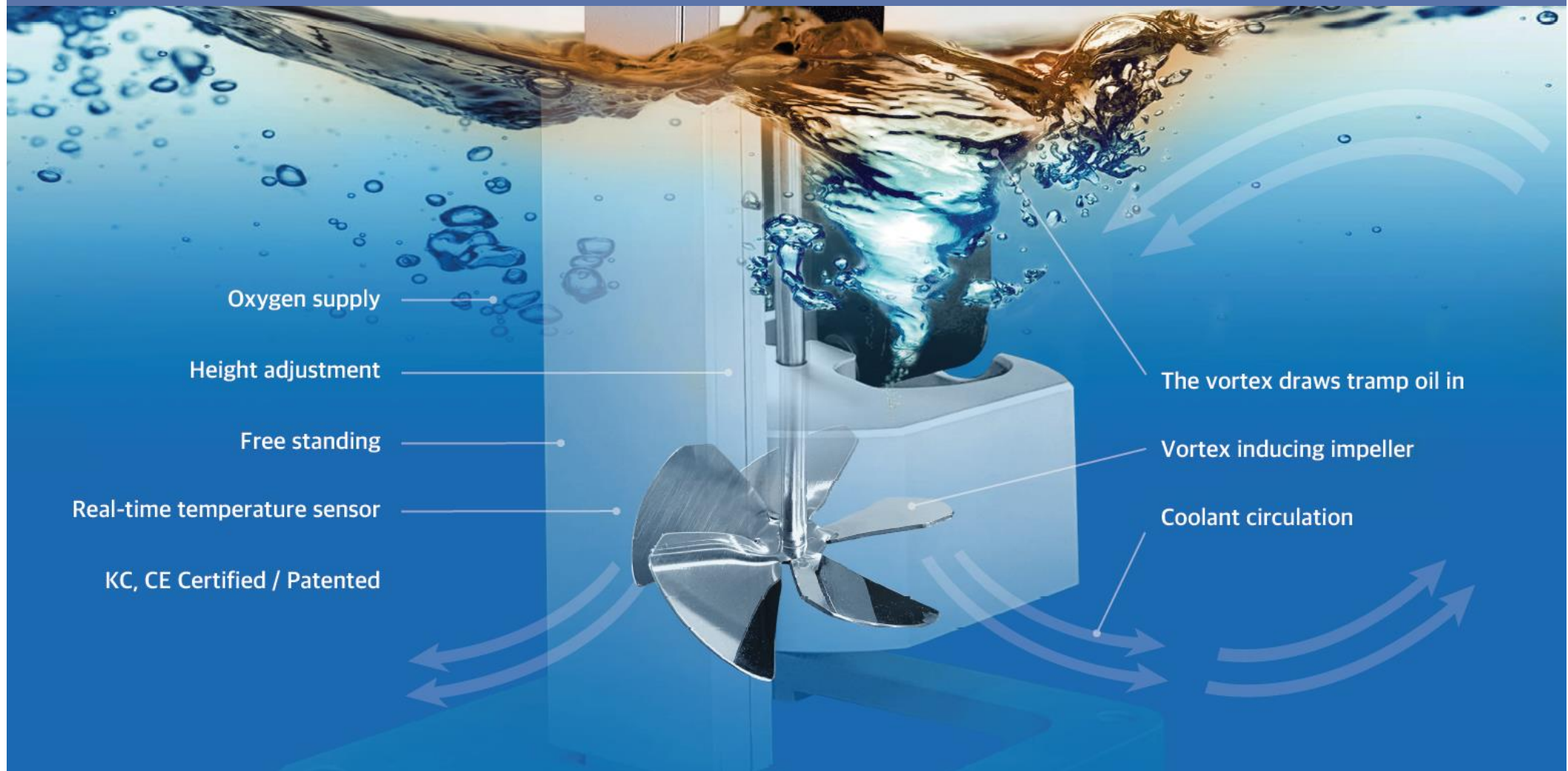
without Impeller

Oil remained outside of the circle
Tramp Oil is left away from the belt
Slower removal of Tramp Oil



3. Powerful Performance

Operating Mechanism



Movie clip → <https://youtu.be/FVrOjMW6YTo>

4. Cost Saving



CONTI® SYNCHROBELT

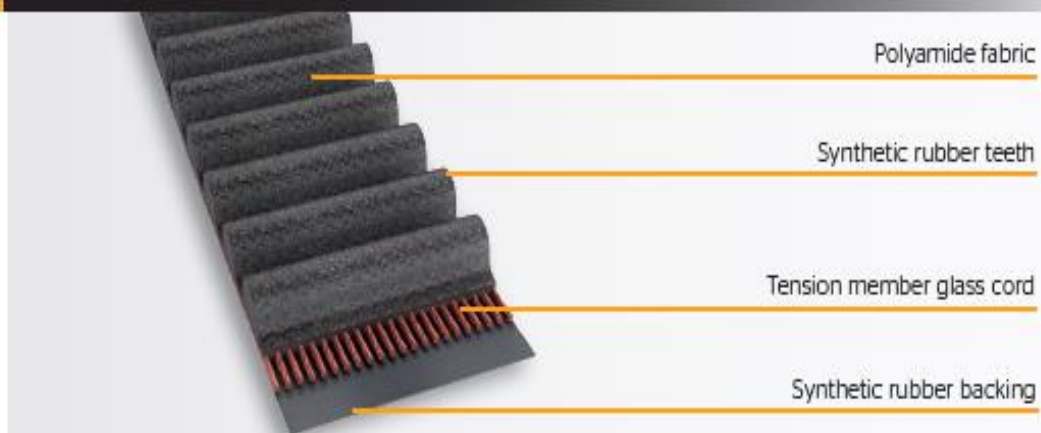
Timing belts for the lower and medium power range

- ✓ Polyamide fabric
- ✓ Excellent chemical resistance
- ✓ Excellent thermal resistance



EUR10~20
(depending on the length)

Belt structure:



Wool belt

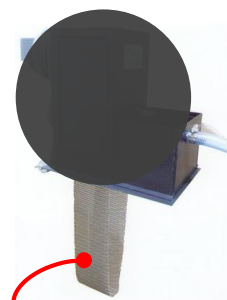


Urethane belt



Urethane belt

EUR30~50
(depending on the length)



Stainless mesh belt

EUR80~120
(depending on the length)



Silicon Tube



Gear



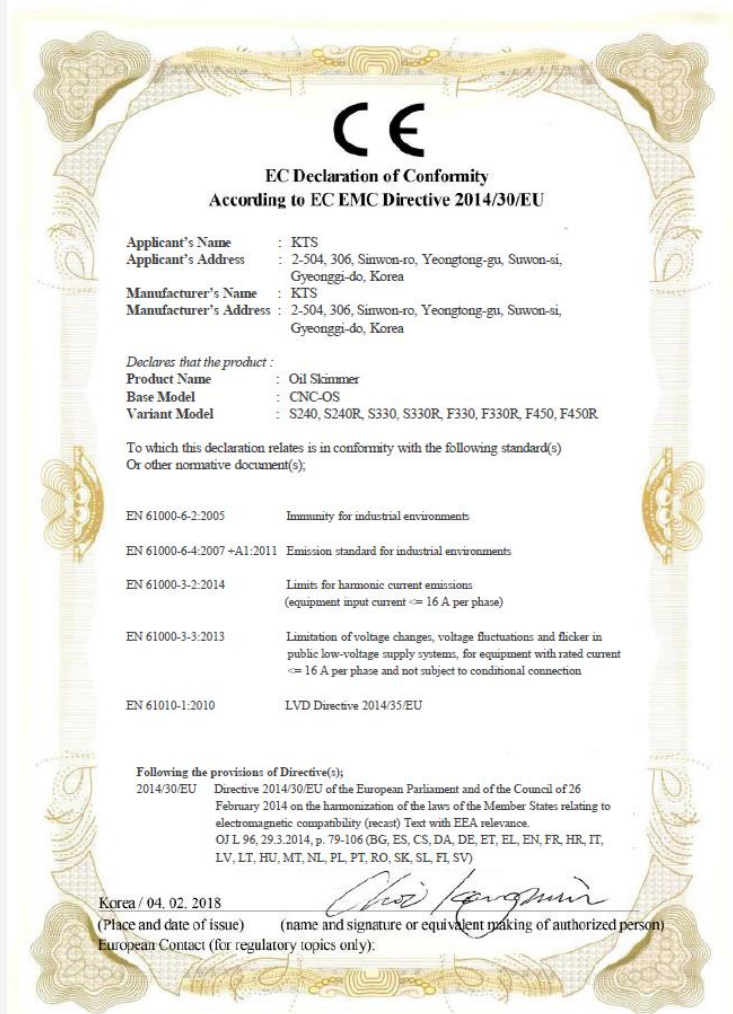
Tube + Cartridge

EUR30~100
(depending on the parts)

Att. #2. Certification

CE certification

유럽 회원국의 안전/건강/환경 등 요구지침을 만족하는 제품



CE

EC Declaration of Conformity
According to EC EMC Directive 2014/30/EU

Applicant's Name : KTS
Applicant's Address : 2-504, 306, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea
Manufacturer's Name : KTS
Manufacturer's Address : 2-504, 306, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea

Declares that the product :
Product Name : Oil Skimmer
Base Model : CNC-OS
Variant Model : S240, S240R, S330, S330R, F330, F330R, F450, F450R

To which this declaration relates is in conformity with the following standard(s)
Or other normative document(s);

EN 61000-6-2:2005 Immunity for industrial environments
EN 61000-6-4:2007+A1:2011 Emission standard for industrial environments
EN 61000-3-2:2014 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3:2013 Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
EN 61010-1:2010 LVD Directive 2014/35/EU

Following the provisions of Directive(s);
2014/30/EU Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to electromagnetic compatibility (recast) Text with EEA relevance.
OJ L 96, 29.3.2014, p. 79-106 (BG, ES, CS, DA, DE, ET, EL, EN, FR, HR, IT, LV, LT, HU, MT, NL, PL, PT, RO, SK, SL, FI, SV)

Korea / 04. 02. 2018
(Place and date of issue) (name and signature or equivalent making of authorized person)
European Contact (for regulatory topics only):

KC certification

한국 표준 안전기준에 준해 제작된 검증된 제품

C738-DRA6-S214-SAA6

방송통신기자재등의 적합등록 필증
Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	케이티에스 (KTS)
기자재명칭(제품명칭) Equipment Name	Oil Skimmer
기본모델명 Basic Model Number	CNC-OS
파생모델명 Series Model Number	
등록번호 Registration No.	R-REM-KTs-CNC-OS
제조사/제조(조립)국가 Manufacturer/Country of Origin	케이티에스 (KTS) / 한국
등록연월일 Date of Registration	2018-04-02
기타 Others	

위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.
It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2018년(Year) 04월(Month) 02일(Day)

국립전파연구원장
Director General of National Radio Research Agency

※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.
위반시 과태료 처분 및 등록이 취소될 수 있습니다.

5. Applications



Experience!!!

more efficient operation / healthier environment / cost saving through Remote Control





Metalworking Fluid Filtration Solution

CNC Oil Skimmer

- Marketing / Promotion



KTS - Industrial Machinery Division

1. Brand site



EN KO

Home

Coolant Solutions

Machining Solutions

Workholding Solutions

Measuring Solutions

Company



Metalworking Solutions

The most effective solutions
to increase machining productivity and improve machining quality

Coolant Solutions

CNC Puri

Coolant Purification Equipment



Coolant Solutions

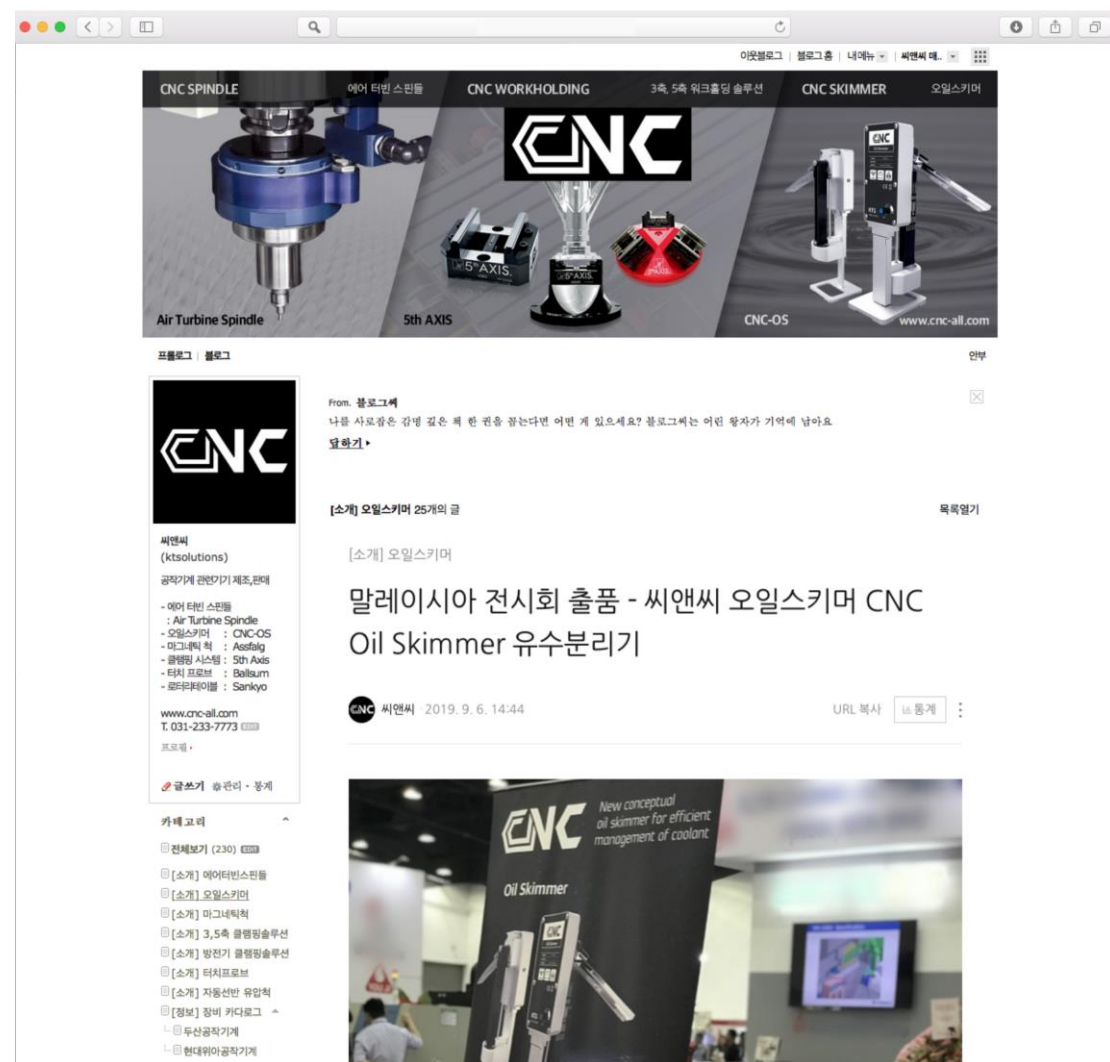
CNC Oil Skimmer

Tramp Oil Removal Equipment



Solutions





3. Exhibition



Finland



Italy



Greece



Portugal



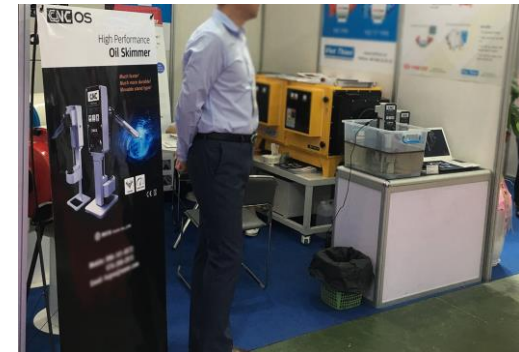
Czech



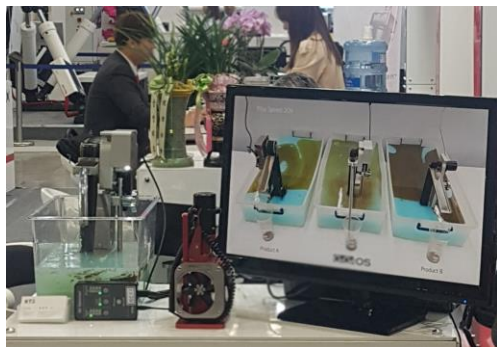
Egypt



Malaysia



Vietnam



Korea(SIMTOS 2016)



Korea(SIMTOS 2018)



Thailand



Japan

4. Poster & Catalog



CNC Oil Skimmer

New conceptual Oil Skimmer for efficient management of coolant

Coolant Management
Clean & Long-lasting

Oxygen supply

Height adjustment
according to the coolant level

Free standing
> very quick installation

KC, CE Certified / Patented

The vortex draws tramp oil in

Vortex inducing impeller

Coolant circulation

CNC OS

CNC Oil Skimmer

Tramp Oil Removal &
Coolant Circulation

CNC OS

New conceptual Oil Skimmer, CNC OS
for efficient management of coolant

Variable speed control giving fast and efficient operation
Can be used on multiple machines (Movable Stand type & Fixed type)

Model : S240R

Model : F450



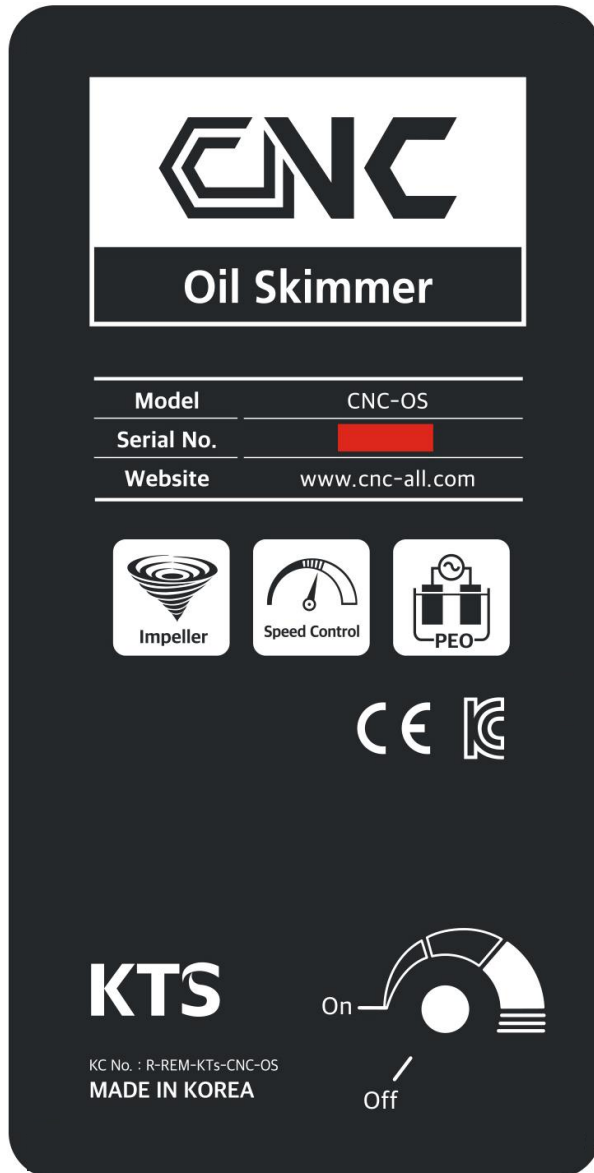
Poster

Catalog

3. Dealer Supports (over 50 per order & over 200 per year)



★ Distributor logo on Membrane



- KTS -



- Japan -



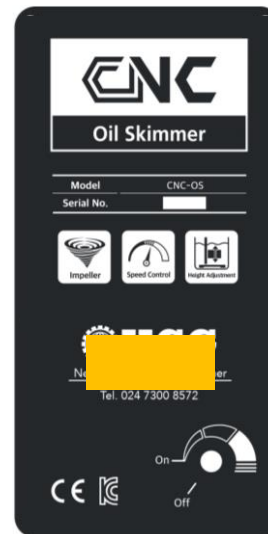
- Germany -



- UK -



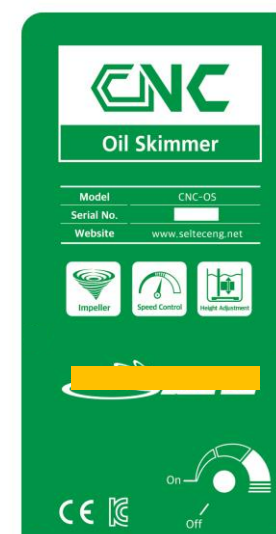
- Netherlands -



- Vietnam -



- Korea -



- Korea -



- Korea -

#. Delivered to Japanese Distributor

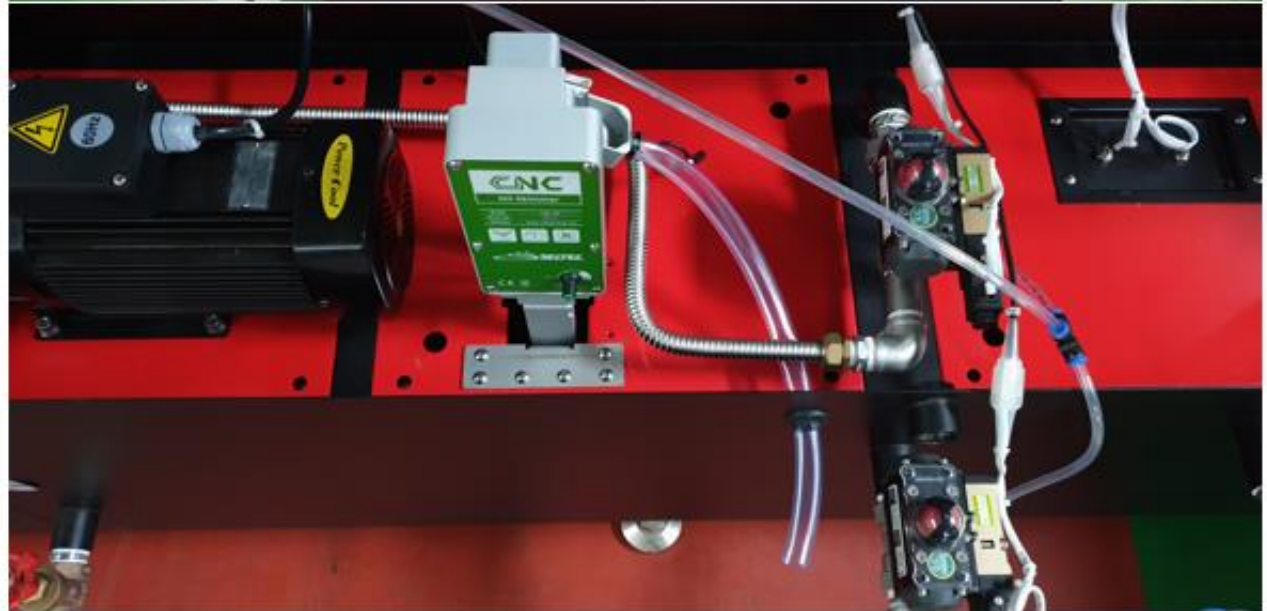


200EA

#. Delivered to German Distributor



#. Delivered to Machine Manufacturer



#. Delivered to Coolant Manufacturer





Thank you...