

# SKIPPER EML1200

## Electromagnetic Speed Log

Speed log

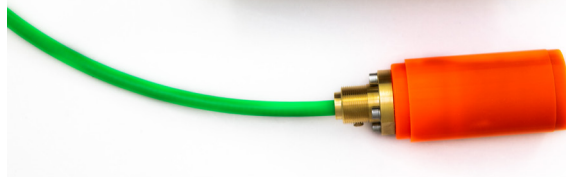
Single/Dual axis

Graphic display

Automated

Accurate

Water temp



*The SKIPPER EML1200 is a single or dual axis STW speed log, working on the electromagnetic principle, providing longitudinal and transversal ship's speed relative to sea water. The EML1200 gives accurate navigation parameters, measured as they happen, and presented in a logical, user friendly way.*

SKIPPER Electronics manufacture marine electronics for the merchant fleet as well as the fishing fleet, based on experience, research and tradition. Our products are known worldwide for reliability, sophistication and good value for money.

### Features:

*Speed through water in 1 or 2 axis*

*Water temperature*

*Interfaces - Serial (IEC61162-1), LW (IEC61162-450), pulse (200PPNM)*

*Display - 10.1 Touch screen with full night dimming*

*3 easy to use, user programmable screens, integrated menus*

*Fully automatic settings*

*Openbridge Web interface*

*Mounting options - tank, Sea Valve for single or double bottom hull designs*

Electromagnetic technology is considered a good low end solution for speed log requirements. 1 and 2 axis versions available.

The EML1200 measures the speed of the vessel through the water at all times and in any depth. The measurement is made on the surface of the hull and has no minimum depth. The system includes a single sensor mounted in a tank or Sea Valve. The display housing can be mounted anywhere on the bridge and a connection box can be placed wherever it is most convenient for connection.


The EML1200 present the critical parameters on screen and can be interfaced with bridge systems and repeaters. The EML1200 can also present temperature and other NMEA values from the serial or LAN Interface.

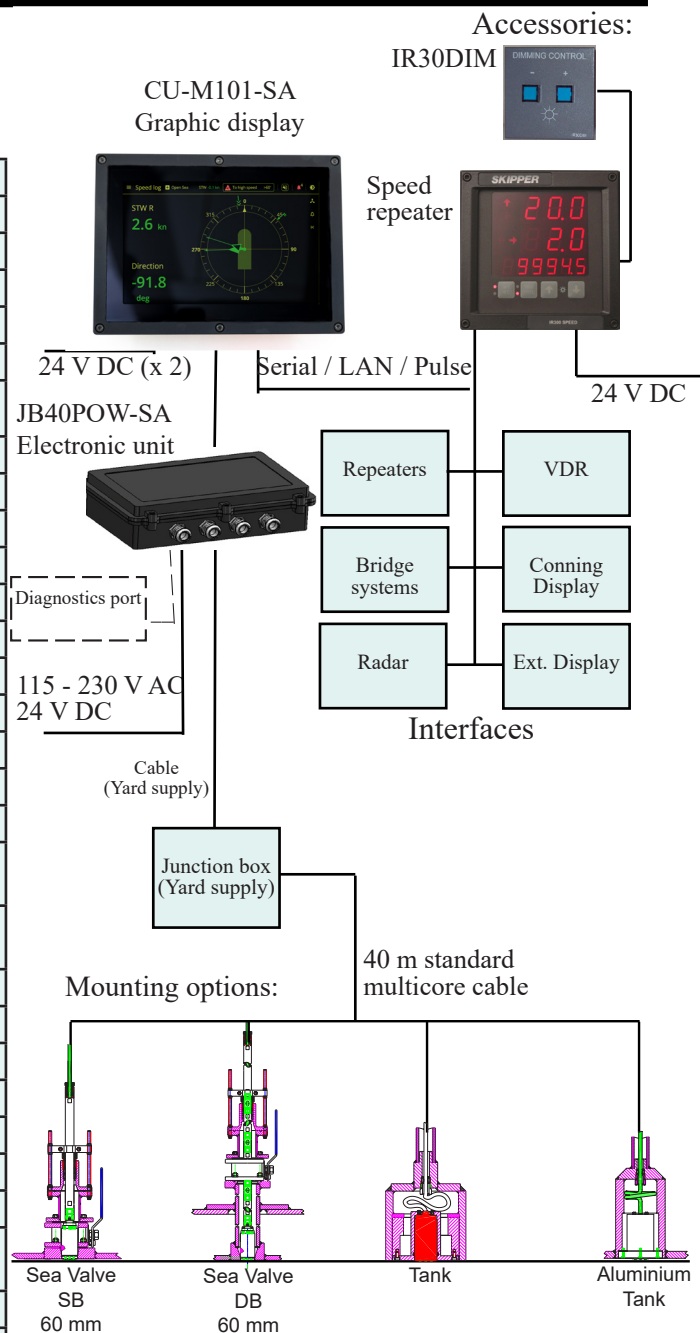
# SKIPPER EML1200

## Compact Electromagnetic Speed Log

### Specifications

### Overview

Log	SY-EML1100-xx	SY-EML1200-xx	Units
	Single Axis	Dual Axis	
Number of Axis	1	2	
Speed range Long	±40	±40	knots
Speed range Trans	na	±40	knots
Water track (from)	0	0	meters
Speed/distance accuracy	< 0.2knots or 2% Whatever is greater	< 0.2knots or 2% Whatever is greater	
Temperature accuracy	< 1	< 1	°C
Mounting dimensions	290 x 210 mm Panel mounting		
Depth	59 mm		
Weight cabinet	1 kg		
Mounting			
Gatevalve:			
Single bottom	Yes	Yes	
Double bottom	Yes	Yes	
Tank:			
Steel	Yes	Yes	
Aluminium	Yes	Yes	
Outputs	- 2 x IEC61162-1 - 1 x Pulse out (optocoupler), 1x relay		
Inputs	- 2 NMEA 0183 (OPTO isolated) - External Dimming (pulse and NMEA)		
LAN	2 independant ports IEC61162-450		
NMEA Outputs			
Speed	VBW, VHW*		
Distance	VLW		
Others	MTW (temp), ALF		
Power supply	DC: 24 V		
Power consumption	Max. 30 W		
Display (CU-M101-SA)	10.1" capacitive touch, 1024x800		
Languages	English		
Accessories	JB40POW-SA Buffer/power unit, IR300 Speed repeater, CD401MR Multi repeater, IR31DIM-SA Dimming control		
Classificatidon	IMO		



# SKIPPER

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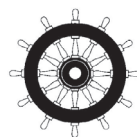
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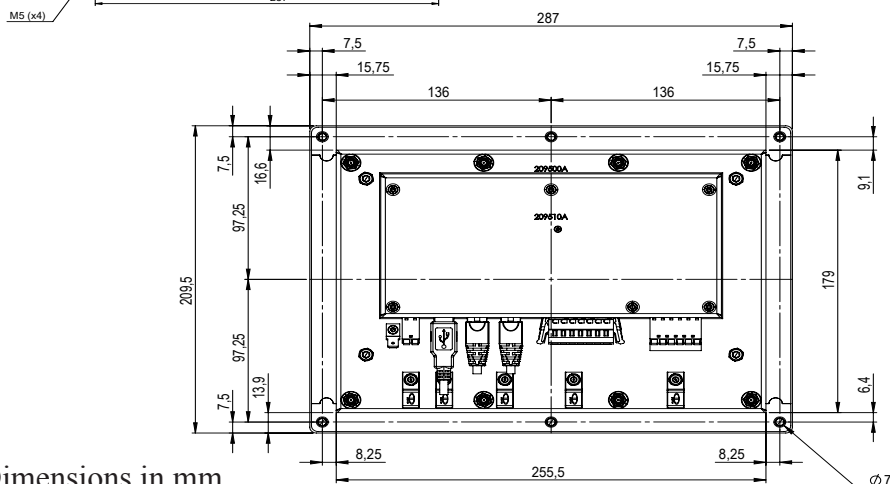
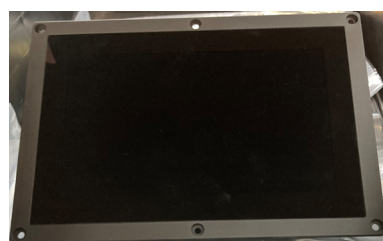
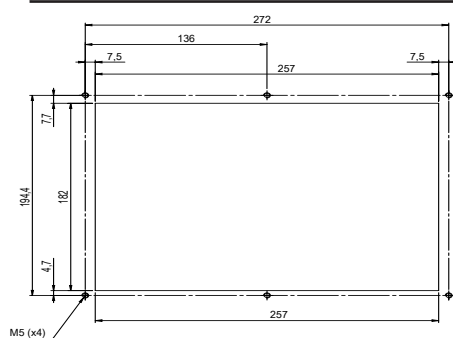


# Preliminary Product Datasheet

## CU-M101-SA Multi - PanelPC 10.1 inch touch display

### Specifications

<b>Description</b>	Multi - PanelPC 10inch touch display 10.1" Touch display. Capacitive touch, Resolution 1280 x 8000. LED backlight. 430 Nits. Viewing angle 80/80/80/80 degrees Night dimming via touch or NMEA Flush mount
<b>Input/Output</b>	2 LAN. IEC 61162-450 (individual stack/ IP) 2 NMEA in. 2 NMEA out. NMEA 0183, IEC61162-1/2 (1 powered Sensor port (RS485/NMEA))
<b>Used with</b>	Direct to sensor, or with JB40, JB50, JB70, JB90 Electronic units*
<b>Package consist of</b>	10.1" Control unit Flush mount screws for wood or Bolts Connectors for all plugs (Spring clips) Cable ties for securing cables
<b>Mounting options</b>	Flush
<b>Packaging dimensions</b>	325 x 125 x 230 mm*
<b>Packaging weight</b>	2.5 kg
<b>Power</b>	2 x 24VDC inputs Nominal 24VDC (18 - 28 V DC), max 10 W, typ 6 W 1 x 24 VDC monitored output for sensor
<b>IP rating</b>	22 (56 on front when flush mounted using rear clips*)
<b>Operating temperature</b>	-15 to 55°C
<b>Storage temperature</b>	-20 to 70°C
<b>Humidity</b>	10 to 90% relative. No condensation
<b>Standards</b>	IEC60945 , IEC62288, Shock
<b>Designed to work with the following SKIPPER systems*</b>	EML1100, EML1200, EML2 : Electromagnetic speedlog systems DL1100, DL2200 DL2-INS Doppler speedlog systems ESN1100, ESN2, ESN200 Echosounder systems
<b>items marked * are preliminary and may change</b>	



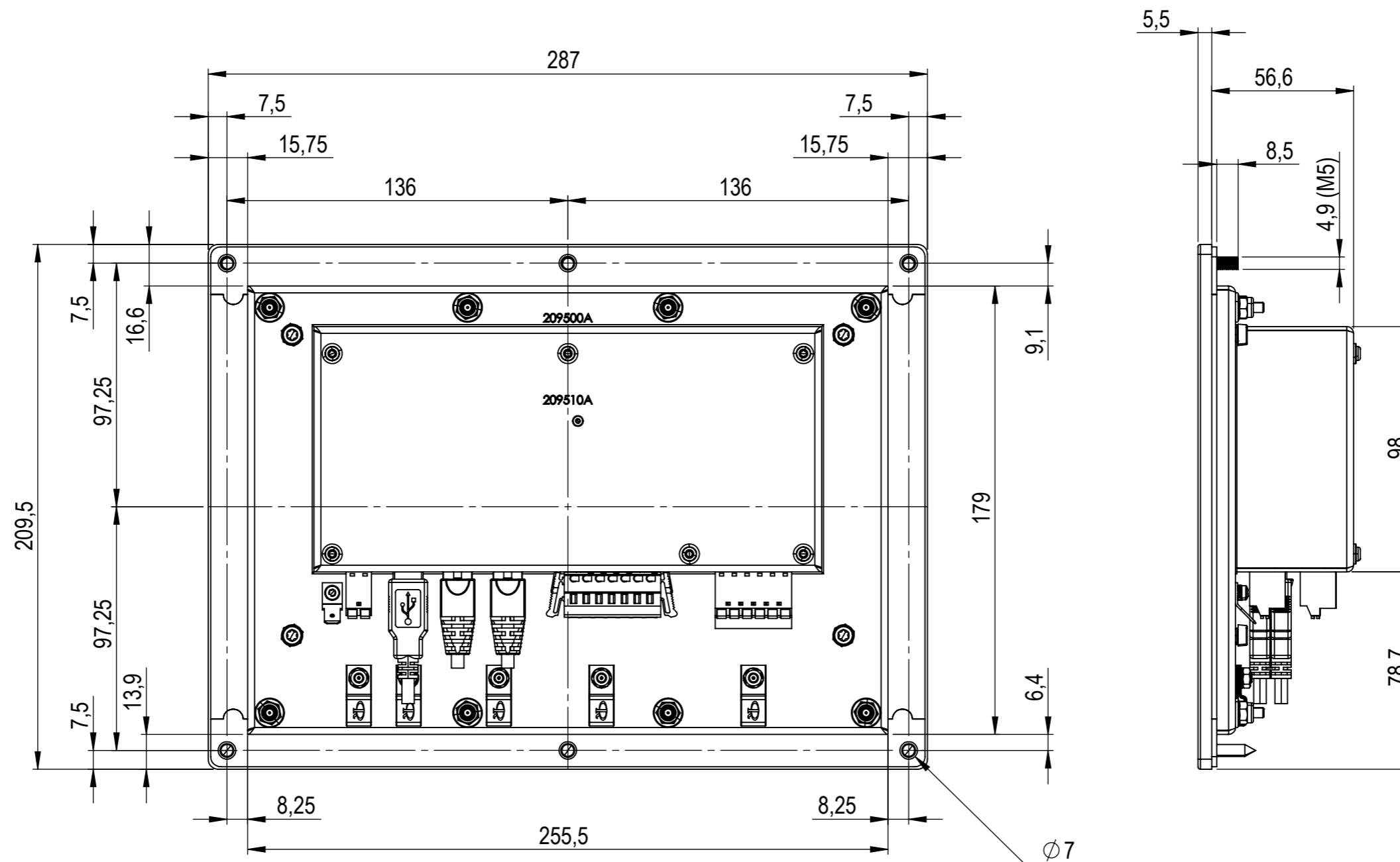
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
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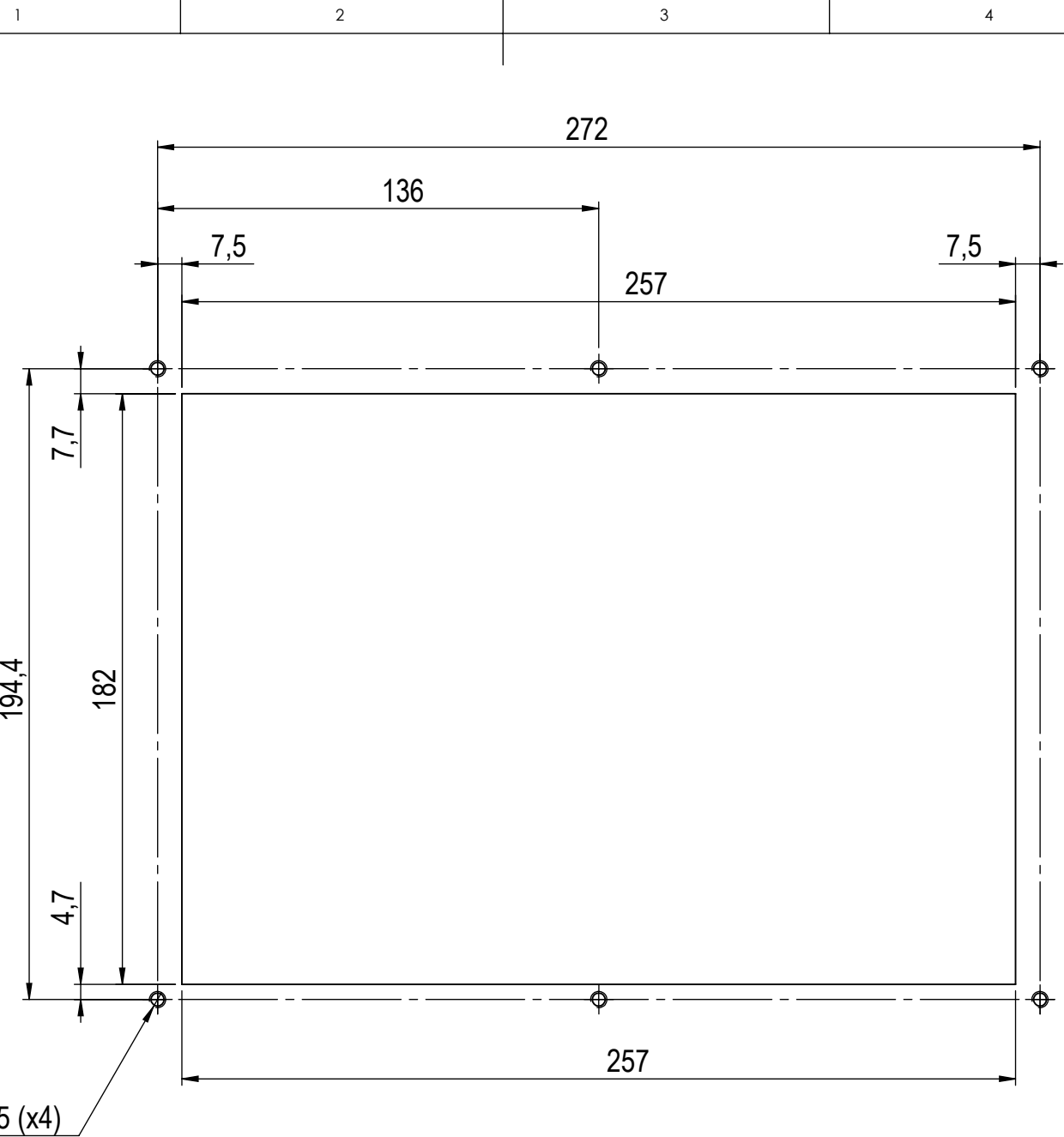
Dimensions in mm

All product specifications are subject to change without notice



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					Name Outline drawing				
					Drwg. no. CU-M101-SA-001				Revision 00
Gen. tolerance ISO2768m		Eur. projection 		Scale	Edition date 2022.04.26	Sheet 1 of 1			



M5 (x4)

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Designed by - date ST 2022.04.26	Approved by - date XX YYYY.MM.DD	<i>All sharp edges to be broke or deburred</i>			Material <b>N/A</b>				
					Name Cutout drawing				
					Drwg. no. CU-M101-SA-002				Revision 00
Gen. tolerance ISO2768m		Eur. projection 		Scale	Edition date 2022.04.26	Sheet 1 of 1			