

**Toyo Seiki Seisaku-sho, Ltd.** 5-15-4, Takinogawa, Kita-ku, Tokyo 114-8557, Japan

# No.522 Melt Indexer Model G-02



Note: With optional flow-rate device (encoder) and manual cutting device

#### **APPLICATION**

The Melt Indexer G-02 conforms to the ISO 1133 (JIS K 7210) and ASTM D1238, and measures the plastic melt mass-flow rate (hereafter referred to as "MFR") in accordance with Procedure A, and the MFR and the melt volume-flow rate (hereafter referred to as "MVR") in accordance with Procedure B (using the flow rate device).

#### **■**SPECIFICATIONS

SPECIFICATIONS	
Model	G-02
Temperature range	100 to 350°C (400°C optional)
	(Note: Standard calibration temperatures: 190°C, 230°C, 280°C, 300°C)
Temperature accuracy	±0.2°C
	Resistance temperature detector: Pt100
Temperature resolution	0.1°C / 0.01°C
	(Can be changed in the environment settings)
Test weights	0.325kg, 2.16kg (Standard feature)
	1.0kg, 1.05kg, 1.2kg, 3.8kg, 5.0kg, 10.0kg, 12.5kg, 21.6kg (Optional)
Touch-screen	4 inch LCD touch-screen
	Languages: English, Chinese, Korean, and Japanese
	Test condition: 100 conditions can be saved
	Measurement data: 100 data can be saved
Interface	RS-232C
Power requirement	■ Single-phase, AC100 to 115V, 50Hz or 60Hz, 0.6kVA
	■ Single-phase, AC200 to 230V, 50Hz or 60Hz, 0.6kVA
	(To be selected)
Dimensions	W400 x D370 x H560mm
	W400 x D370 x H820-945mm (Including weight lifting device)
Weight	Approx. 40kg
	Approx. 55kg (Including weight lifting device)
Related standards	ISO 1133
	ASTM D1238
	JIS K 7210, K 6760, K 6870, K 6719, K 6758



Touch screen

## ■ ACCESSORIES & OPTIONS

●Included ○Optional

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Name	Model (Part No.)	Photo	G-02
Piston (For without use of flow-rate device)	PS50R		•
Piston (For use of flow-rate device)	PS50FR		<u></u> *1
Piston, Hastelloy (For without use of flow-rate device)			0
Piston, Hastelloy (For use of flow-rate device)			0
Funnel			•
Orifice (Die) ■ Ø2.095mm, L:8mm (Standard) ■ Material: Carbide	2100320		•
Orifice (Die) ■ Ø1mm ■ Material: Carbide			0
Half size orifice (Die) For ASTM D 1238, Procedure C ■ Ø1.05mm, L=4mm			0
Hastelloy orifice (Die)  ■ Ø2.095mm, L:8mm  ■ Material: Hastelloy	2110030		0
Orifice gauge (Go/no go gauge) For Ø2.095mm	2100330	2.00	•
Orifice cleaning rod	2100344		•
Sample push rod			•
Furnace cleaning rod	2100334		•

Weight for 2.16kg	W-GF		•
Weight for 1.0kg	W-GA		0
Weight for 1.05kg	W-GB		0
Weight for 1.2kg	W-GC		0
Weight for 3.8kg	W-GE		0
Weight for 5.0kg	W-GG		0
Weight set for 10.0kg	L10.00		$\circ$
(Consist of W-GD, W-GK)			
Weight set for 12.5kg	L12.50		0
(Consist of W-GD, W-GE, W-GH,			
W-GI)			
Weight set for 21.6kg	L21.60		0
(Consist of W-GE, W-GG, W-GI, W-GJ,			
W-GK)			
Flow-rate device for method B (Piston displacement transducer / Encoder) Accuracy: ±0.02mm	FRG1		0
Weight lifting device	WLG1		0
Manual cutting device (Not possible to use with Die plug, model FPG2)	MCG2-A	Melt Inc	0
Manual cutting device (Possible to use with Die plug, model FPG2)	MCG2-B		0

Automatic cutting device (Not possible to use with die plug, model FPG2)	ACG2		0
Die plug	FPG2		0
Piston stopper jig (5mm & 10mm)	S-SP		0
Orifice cleaning tool	YG		0
Real time data output (Data acquisition software)  Note: Spreadsheet software is required. (Not provided)	RTD1	C   10   Globel   Secure   S	0
Mini thermal printer	PRT	0080	0
Anticorrosion option (Piston, barrel and orifice)	WC		0
High temperature option (Calibration temperatures: 190°C, 230°C, 300°C, 400°C)	НТ		0
Safety cover		Melt Indexer G-02	0

Blade for cutting device	2110200	 ○*2
Accessories box (Small)	cos	 0
Accessories box (Large)	COL	 0
Power supply, Single-phase, AC100 to 115V		 •
Power supply, Single-phase, AC200 to 230V		 0
Power cord, Type B (For Japan)		 •
Power cord, Type B (For USA etc.)	AC-U	 0
Power cord, Type F (CEE7/4, For Germany etc.)	AC-C	 0
Power cord, Type F (For Korea)	AC-K	 0
Power cord, Type G (BS1363 (For UK etc.)	AC-B	 0
Power cord, Type I (For China)	AC-G	 0

<sup>\*1</sup> Supplied as standard feature when flow-rate device is selected.
\*2 Supplied as standard when cutting device is selected.

## **■WEIGHT COMBINATION**

Load	Combination (code of individual weight)	Remark
0.325kg	Piston	Standard
2.16kg	Piston + W-GF (1.835kg)	Standard
1.0kg	Piston + W-GA (0.675kg)	Option
1.05kg	Piston + W-GB (0.725kg)	Option
1.2kg	Piston + W-GC (0.875kg)	Option
3.8kg	Piston + W-GF (1.835kg) + <b>W-GE (1.64kg)</b>	Option
5.0kg	Piston + W-GF (1.835kg) + <b>W-GG (2.84kg)</b>	Option
10.0kg	Piston + W-GF (1.835kg) + W-GD (1.45kg) + W-GK (6.39kg)	Option
12.5kg	Piston + W-GF (1.835kg) + <b>W-GD (1.45kg)</b> + <b>W-GE (1.64kg)</b>	Option
	+ W-GH (3.225kg) + W-GI (4.025kg)	
21.6kg	Piston + W-GF (1.835kg) + W-GE (1.64kg) + W-GG (2.84kg)	Option
	+ W-GI (4.025kg) + W-GJ (4.545kg) + W-GK (6.39kg)	

	0.325kg	2.16kg	1.0kg	1.05kg	1.2kg	3.8kg	5.0kg	10.0kg	12.5kg	21.6kg
Standard	0	0								
L1.00			0							
L1.05				0						
L1.20					0					
L3.80						0				
L5.00							0			
L10.00								0		
L12.50						0			0	
L21.60						0	0			0

## Melt Indexer, model G-02 Multi-weight (With automatic load changing unit)



This unit is designed for ASTM D 1238 procedure D.



#### **■**SPECIFICATIONS

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Model	G-02 Multi-weight
Multi-weight	3 weight steps
Test weight	8 different test weights with automatic selection 0.325, 2.16Kg, 3.8Kg, 5Kg, 10Kg, 12.5Kg, 21.6Kg +select 1 kind from 1Kg, 1.05Kg, 1.2Kg  *A: Selected with 1.0, 1.05 or 1.2kg
Power requirement	Single-phase, AC100 to 115V or 200 to 230V, 50Hz or 60Hz
Compressed air requirement	0.4MPa
Dimensions	W700 x D730 x H1400

Note:	

Note:	

Note:	

Specifications are subject to change without notice.



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