

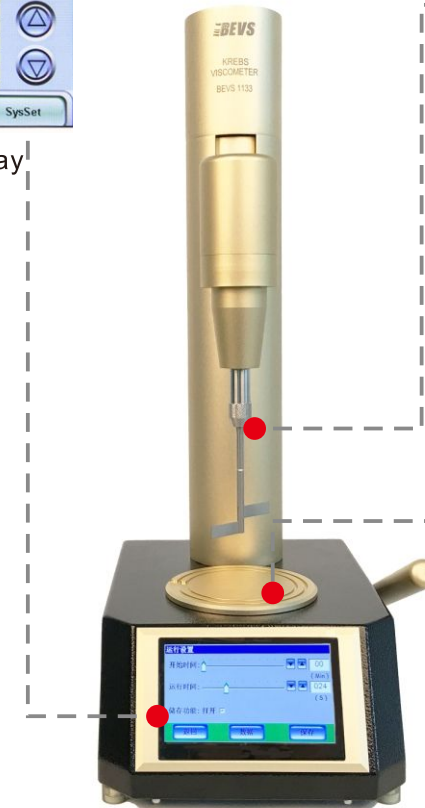
Intelligent Krebs Viscometer (Manual)



Real-time graph display



Quickly change spindle



Smart design to easy clean waste liquid

Viscosity

- Intelligent Krebs Viscometer
- Intelligent Cone and Plate Viscometer
- Intelligent Rotothinner
- AI Viscometer
- DIN Cup
- Frikmar Cup
- Ford Cup
- Cup Stand

- Zahn Cup
- Afnor Cup
- ISO Cup
- Iwata Cup

Intelligent Krebs Viscometer

Introduction:

BEVS Intelligent Krebs Viscometer adopts new touch screen technology. It is applied for measuring Newton fluid or near non Newton liquids such as paint, coatings, adhesives, pulp, ink etc. High precision DC motor ensures accuracy value.



Manual



Auto

Features:

- ☐ Easy operation
- ☐ Humanization design
- ☐ Touch screen control
- ☐ Units: KU, G, cP simultaneously display
- ☐ Preset start test time and duration
- ☐ Real-time display graph with viscosity and time
- ☐ Real-time display environment temperature
- ☐ Measure sample temperature
- ☐ Output measurement data(optional)



Measurement



Interface

Standard:

ASTM D562, D856

Application:

Coating industry, food industry, pharmaceutical industry, automotive industry, laboratory .etc

Technical info:

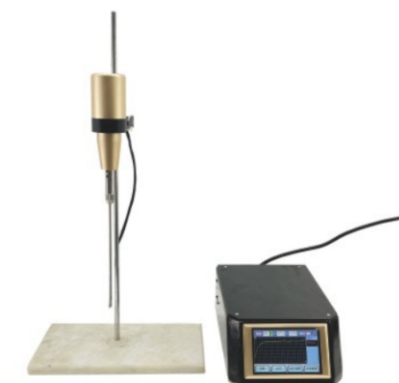
Range	40-141KU / 27-5274cP / 32-1099g
Resolution	0.1KU / 5cP / 1g
Accuracy	± 1% (Full Scale)
Rpeatability	± 0.5% (Full Scale)
Speed	200 ± 1rpm
Power	Max. 18W
Power supply	100-250V/50-60Hz

Online Krebs Viscometer

In order to realize online measurement of fluid viscosity, ensure the best process operation environment and product quality, and improve production efficiency, BEVS has manufactured an online Krebs viscometer. It can measure the viscosity of coatings, paints, adhesives, pastes, inks, etc. online. The modular split structure is suitable for access to various online automatic measurement systems. The software communication interface is compatible with a variety of communication protocols to achieve full automatic detection and measurement.



Handheld type

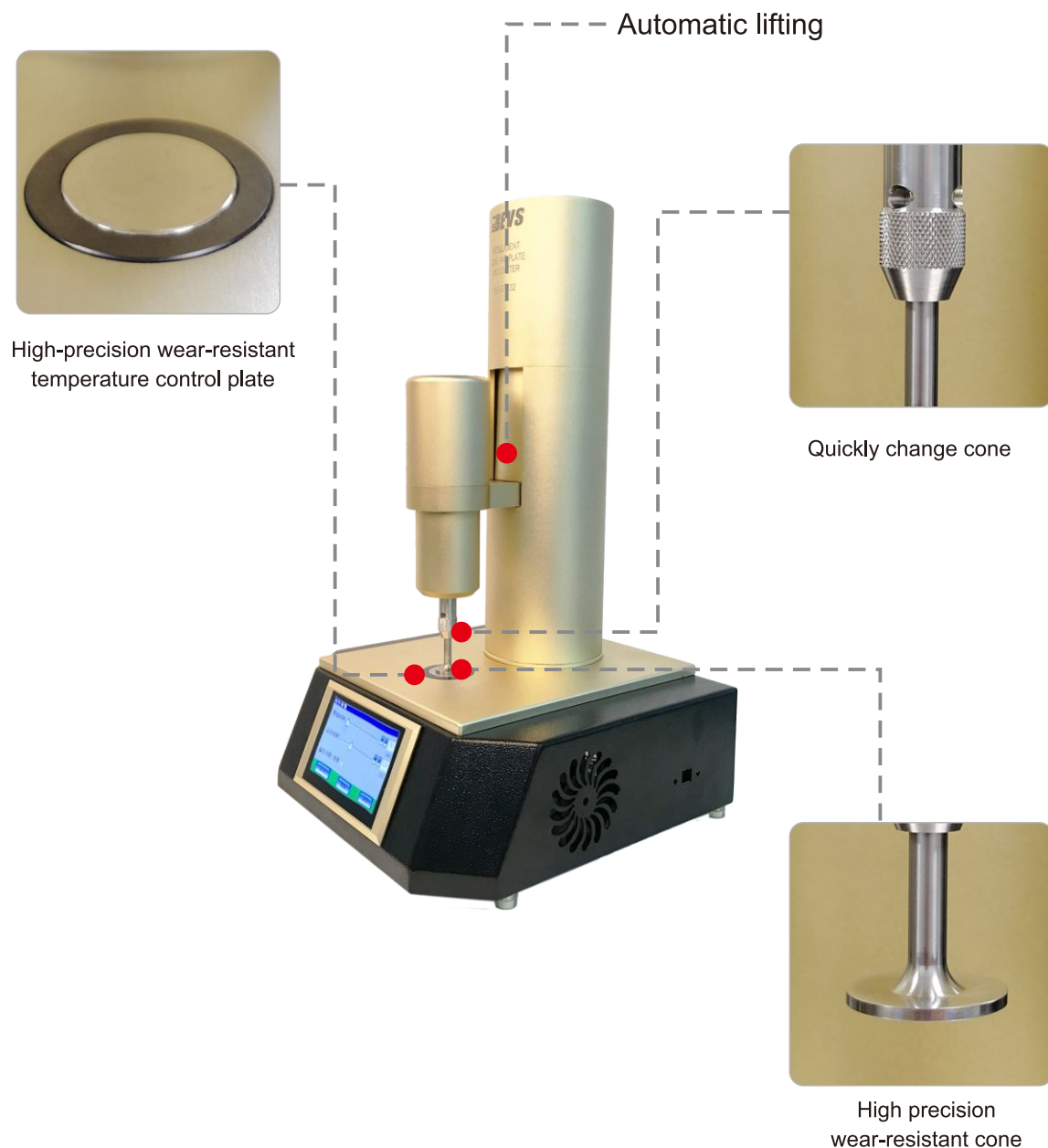


Bracket fixed type

Order info:

BEVS 1122U Intelligent Krebs Viscometer (Auto)
 BEVS 1133 Intelligent Krebs Viscometer (Manual)
 BEVS 1135 Online Krebs Viscometer (handheld)
 BEVS 1136 Online Krebs Viscometer (bracket fixed type)

Intelligent Cone and Plate Viscometer



Intelligent Cone and Plate Viscometer

Introduction:

BEVS 1132 Intelligent Cone and Plate Viscometer is a highly accurate instrument that research the rheological properties of fluid products. It is a automatic viscometer with adjustable shear rate and controllable temperature. High precision DC motor and automatic lifting platform to keep the viscosity measurement becomes simpler and more accurate.

Since Newtonian or non-Newtonian fluids show different viscosities relative to the shear rate, the BEVS1132 Intelligent Cone and Plate Viscometer strictly control the shear rate of $10,000 \text{ S}^{-1}$ (BS standard) and $12,000 \text{ S}^{-1}$ (ASTM standard). In addition, the shear rate of $333\text{-}20000 \text{ S}^{-1}$ can also be freely controlled by the operator.

Since most viscosity measurements are very sensitive to temperature, the BEVS 1132 can accurately control the temperature control plate from $+5 - 75^\circ\text{C}$ by placing the sample on the temperature control plate. The temperature curve and the shear rate viscosity curve can be obtained. The portable instrument makes it more practical and versatile in the study of rheological properties of Newtonian or non-Newtonian products.

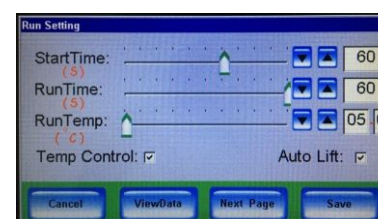


Features:

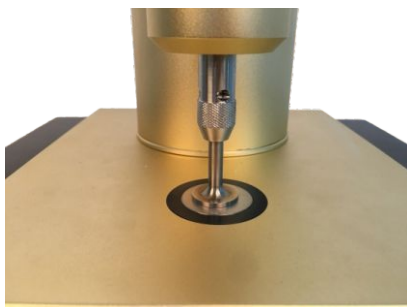
- ☐ Automatic lifting
- ☐ Automatic measurement
- ☐ Compatible with various speeds
- ☐ High definition touch screen display
- ☐ Display temperature and viscosity curve
- ☐ Display shear rate
- ☐ Precise temperature control
- ☐ Output data(optional)



Measurement



Setting



Technical info:

- ☐ Rotational speed: 100-1500 rpm
- ☐ Shear rate: 333-20000 s⁻¹
- ☐ Controllable temperature range: +5 - 75
- ☐ Cone: 5 types
- ☐ Resolution: 1 cP
- ☐ Measurement accuracy: ±1% (full scale)
- ☐ Measurement repeatability: ±0.5%(full scale)
- ☐ Temperature resolution: 0.1
- ☐ Temperature accuracy: ±0.3
- ☐ Input voltage: 100-240VAC / 50-60Hz

Application:

Food, cosmetics, pharmaceuticals, coatings, inks, mining, construction, petrochemicals, polymers

Standard:

BS 3900 A7-1, ASTM D 4287, ISO 2884-1

Order info:

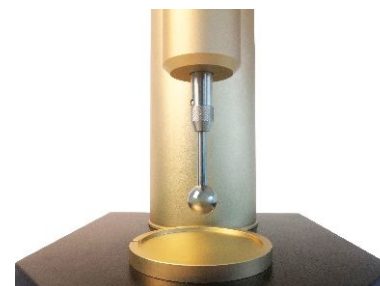
BEVS 1132	Intelligent Cone and Plate Viscometer (without cone)
BEVS 1132/5	Cone 1 with 5 oils (0-5P)
BEVS 1132/10	Cone 2 with 5 oils (0-10P)
BEVS 1132/20	Cone 3 with 5 oils (0.1-20P)
BEVS 1132/50	Cone 4 with 5 oils (0.1-50P)
BEVS 1132/100	Cone 5 with 5 oils (0.1-100P)

Cone 1:	0-5P	0-500cP
Cone 2:	0-10P	0-1000cP
Cone 3:	0.1-20P	10-2000cP
Cone 4:	0.1-50P	10-5000cP
Cone 5:	0.1-100P	10-10000cP

Intelligent Rotothinner

Introduction:

BEVS 1131 Intelligent Rotothinner is used to measure the viscosity of most non-Newtonian and Newtonian fluids. The speed is 562 rpm. It is a two-in-one instrument for researching the viscosity of materials and on-line inspection of products. It is easy to continuously monitor the viscosity of the test sample when adding thinner or additives. The instrument can also start to test the viscosity according to the preset time. The testing time can be freely chosen by operators, and the temperature of samples can be measured in real time. It provides accurate data related to shear properties. It is ideal for R&D, laboratory and QC application.



Features:

- ☐ Automatic lifting
- ☐ Automatic measurement
- ☐ High definition touch screen display
- ☐ High precision measuring motor
- ☐ Easy to operate
- ☐ Data saving and output(optional)

Standard:

ISO 2884, BS3900 A7

Spindle measurement range:

No. 1	0-25P	0-2500cP
No. 2	0.1-80P	10-8000cP
No. 3	1-360P	100-36000cP



Technical info:

- ☐ Spindle speed: 562 rpm ± 1%
- ☐ Spindle: 3 types
- ☐ Resolution: 1cP
- ☐ Accuracy: ±1%(full scale)
- ☐ Repeatability: ±0.5%(full scale)
- ☐ Sample can: 250ml tin can
- ☐ Input voltage: 100-240VAC / 50-60Hz
- ☐ Weight: 10kg



Spindle No. 1

Spindle No. 2

Spindle No. 3

Order info:

BEVS 1131/25 Intelligent Rotothinner (0-25P)

BEVS 1131/80 Intelligent Rotothinner (0.1-80P)

BEVS 1131/360 Intelligent Rotothinner (1-360P)

AI Viscometer



■ Introduction:

BEVS 1138 AI Viscomeeter is designed for measuring fluids with a wide range of viscosities. With the AI technology, it enables full-process measurement through voice control and conveys information to users via voice, allowing them to access the required data more quickly and effortlessly. Its flexible design adapts to various measurement needs, making it widely applicable in industries such as petrochemicals, food and beverages, personal care, and pharmaceuticals.

AI Viscometer

■ Features:

- ☐ AI voice control
- ☐ AI voice broadcasting
- ☐ Automatic zero calibration
- ☐ Timed measurement function
- ☐ Automatic over-torque alarm
- ☐ Automatic spindle identification
- ☐ One-touch intelligent measurement
- ☐ Automatic instrument level detection
- ☐ Customizable users and user groups
- ☐ Customizable measurement plans (up to 10)
- ☐ Automatic selection of optimal speed for testing
- ☐ Multiple speed settings for the same sample as needed

■ Applications:

Range	1~6,000,000cP
Sample volume	500ml
Rotation speed	0.1~2001pm
Accuracy	+1%, full scale
Repeatability	+0.2%, full scale
Storage	Up to 1000 measured data points
Data output	USB
Electricity	AC 220/110V, 50/60Hz

■ Applications:

Petrochemical Products	Food & Beverages	Household Chemicals	Pharmaceuticals
Petroleum	Dairy products	Body wash	Polyvinyl alcohol
Paints, coatings	Juice, carbonated beverages	Toner, lotion	Carbomer
Oil, inks, solvents	Honey, syrup	Mouthwash	Cellulose derivatives
Photosensitive resins, latex	Candy	Perfume, floral water	Hand sanitizer
Rubber solution	Gels	Essential oil	
High polymer solution		Dishwashing detergent	
Solvent-based adhesives		Laundry detergent	

■ Standards:

GB/T 40280, GB/T 2794, GB/T 21059, GB/T 14797.2, GB/T 15357, ASTM D1337, ASTM D115, ASTM D1338, ASTM D789, ASTM D1417, ASTM D1076, ASTM D1439, ASTM D1084, ASTM D1824, ASTM D1986, ASTM D2196, ISO 1652, ISO 2535, ISO 2555, ISO 2884, ISO 8003, ISO 8003, ISO 10364-12



Spindle Measurement Range

LV-1 Spindle	15-6,000cP
LV-2 Spindle	75-30,000cP
LV-3 Spindle	300-120,000cP
LV-4 Spindle	1500-600,000cP

From right to left: LV-1, LV-2, LV-3, LV-4.

■ Order info:

BEVS 1138	AI Viscometer
BEVS 1138/P/010	SL spindle set (4 spindles in one set)

DIN Cup

■ Introduction:

BEVS DIN Cup is designed according to DIN 53211 standard and adapted to test the thin liquid at low viscosity.

■ Technical info:

- ☐ Orifice Precision: $\pm 0.02\text{mm}$
- ☐ Volume: 100 ml
- ☐ Material: Cup body-aluminum alloy; Nozzle-stainless steel

■ Order info:

Order No.	Orifice(mm)	Viscosity Range(cSt)	Flow Time(sec)
BEVS 1108/2	2	15-30	25-150
BEVS 1108/4	4	112-685	25-150
BEVS 1108/6	6	550-1500	25-150



Frikmar Cup

■ Introduction:

BEVS Frikmar Cup is based on standard DIN 53211 with a handle to allow dipping test easily.

■ Technical info:

- ☐ Nozzle precision: $\pm 0.02\text{ mm}$
- ☐ Volume: 100 ml
- ☐ Material: Cup body-aluminum alloy, Nozzle-stainless steel

■ Order info:

Order No.	Orifice(mm)	Viscosity Range(cSt)	Flow Time(sec)
BEVS 1109/2	2	15-30	25-150
BEVS 1109/4	4	112-685	25-150
BEVS 1109/6	6	550-1500	25-150



Ford Cup

■ Introduction:

It is designed according to ASTM D1200, D333 and D365 standards and widely used to measure the viscosity of paints, inks, lacquers and other liquids.

■ Technical info:

- ☐ Volume: 100 ml
- ☐ Material: Cup body-aluminum alloy; Nozzle-stainless steel



■ Order info:

Order No.	Orifice(mm)	Viscosity Range(cSt)	Flow Time(sec)
BEVS 1101/1	2.1	10-35	55-100
BEVS 1101/2	2.8	25-120	40-100
BEVS 1101/3	3.4	49-220	30-100
BEVS 1101/4	4.1	70-370	30-100
BEVS 1101/5	5.8	200-1200	30-100

Cup Stand

■ Introduction:

BEVS Cup Stand is used in concert with Ford Cup, DIN Cup, Afnor Cup, ISO Cup and other similar cups, which provides level platform for the cups. It consist of three adjustable stainless steel poles and an aluminum ring.

■ Order info:

BEVS 1112 Cup Stand



Zahn Cup

■ Introduction:

BEVS 1107 Zahn Cup is designed according to the standard of ASTM D4212-93 which is used to measure the viscosity of Newtonian or near-Newtonian liquids.



■ Technical info:

- ☐ Material: Stainless steel
- ☐ Capacity: 44 ml

■ Order info:

Order No.	Orifice(mm)	Viscosity Range(cSt)	Flow Time(sec)
BEVS 1107/1	1.92	5-60	35-80
BEVS 1107/2	2.70	20-250	20-80
BEVS 1107/3	3.85	100-800	20-80
BEVS 1107/4	4.40	200-1200	20-80
BEVS 1107/5	5.40	400-1800	20-80

Afnor Cup

■ Introduction:

BEVS NF Cup is designed according to French NFT30-014 standard and it is widely used by European company and French company especially.



■ Technical info:

- ☐ Volume: 100±1 ml
- ☐ Material: Cup body-aluminum alloy; Nozzel-stainless steel

■ Order info:

Order No.	Orifice(mm)	Viscosity Range(cSt)	Flow Time(sec)
BEVS 1118/2.5	2.5	5-140	30-300
BEVS 1118/4	4	50-1100	30-300
BEVS 1118/6	6	510-5100	30-300