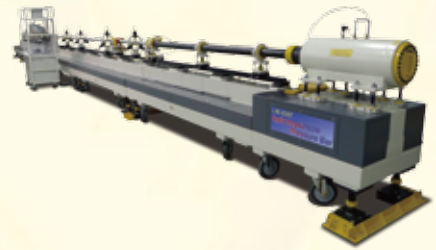


Series of High-Strain-Rate Test Apparatus

LW-9397 Split Hopkinson Pressure Bar

- A type: 30~75 mm of bar diameter
- B type: 12~25 mm of bar diameter
- Controllable pressure: 0~40 kg/cm²



LW-9398 Split Hopkinson Tension Bar

- A type: Incident & Transmitted bar
- B type: Loading, Input & Output bar
- Energy range: 4~2,000 J
- Strike bar speed: 4~20 m/sec



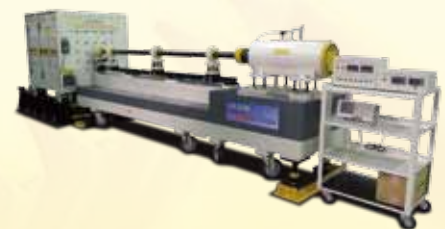
LW-9361 Split Hopkinson Torsion Bar

- Automatic torque setting and maintenance
- Torque range: 10~500 N-m; Accuracy 0.2% FS
- Maximum angle: 90°; Accuracy <0.04°



LW-9396 Penetration Tester

- Controllable pressure: 0~100 kg/cm²
- Replaceable guide barrel
- Alignment mechanism



We Provide



Professional Design



Competent Manufacture

- Metal
- Alloy
- Rock
- Concrete
- Rubber



Experience in Various Systems

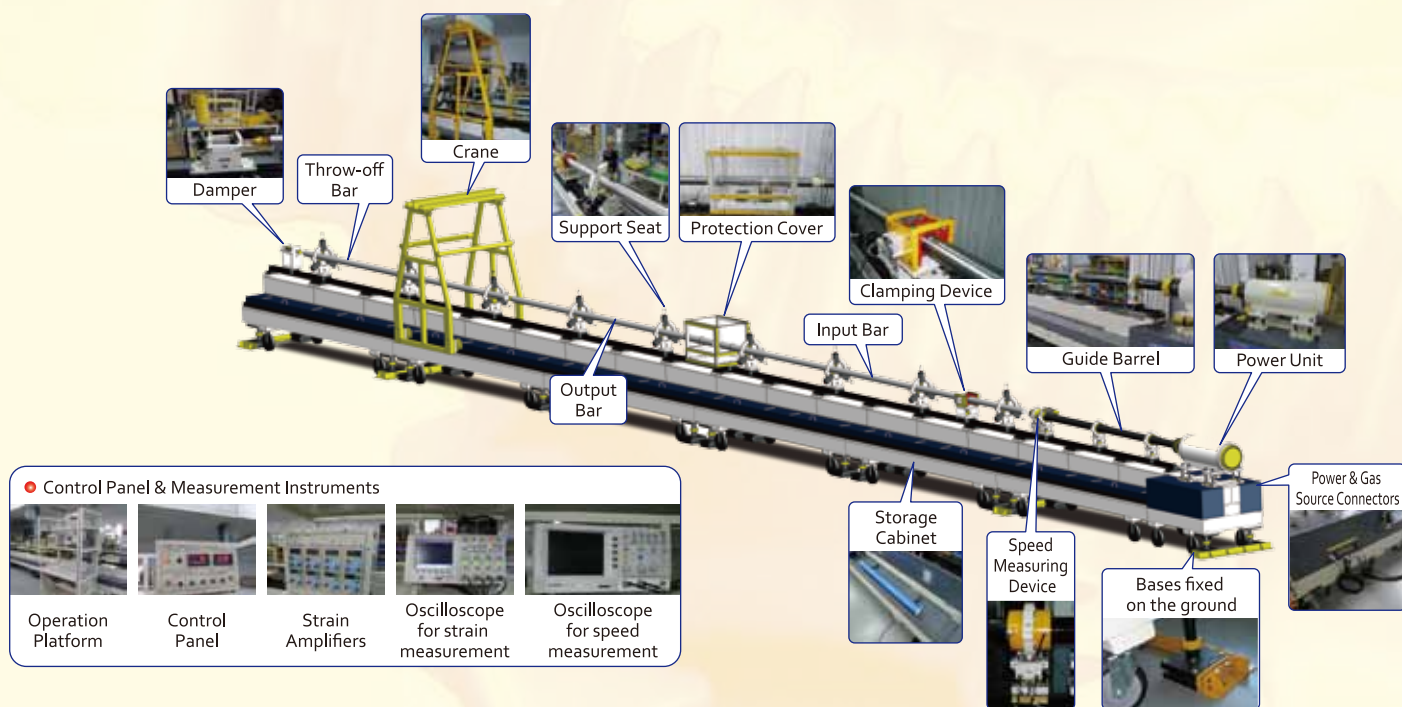


Long-term Service & Complete Warranty

- Planer-type milling machine 1.2(W) x 0.8(H) x 3(L) m
- External grinding machine Φ250 mm x 1.5 m (L)
- Lathe Φ1.2 x 3 m
- Heavy-duty vertical milling machine
- 2,000 W Laser cutting machine
- Various CNC machines
- EDM, wire cutting, laser welding & marking
- Welding machine : TIG, CO₂, laser, etc.



● LW-9397 Split Hopkinson Pressure Bar Tester



1. Dimension

Model	Nominal Diameter*	Length of				
		Input bar	Output bar	Strike bar	Throw-off bar	Guide barrel
	mm	m	m	mm	m	m
9397A	75	5.4	5.4	300~2000	3	3
	50	4	4	200~1200	2	3
	30	3	3	100~1000	2	3
9397B	25	1.5	1.5	100~1000	1.5	1.5
	18	1.5	1.5	100~1000	1.5	1.5
	15	1.5	1.5	100~1000	1.5	1.5
	12	1.2	1.2	100~1000	1.5	1.5

* The diameter of bar system can be modified according to clients' need. It is very welcomed to discuss with us.

2. Material

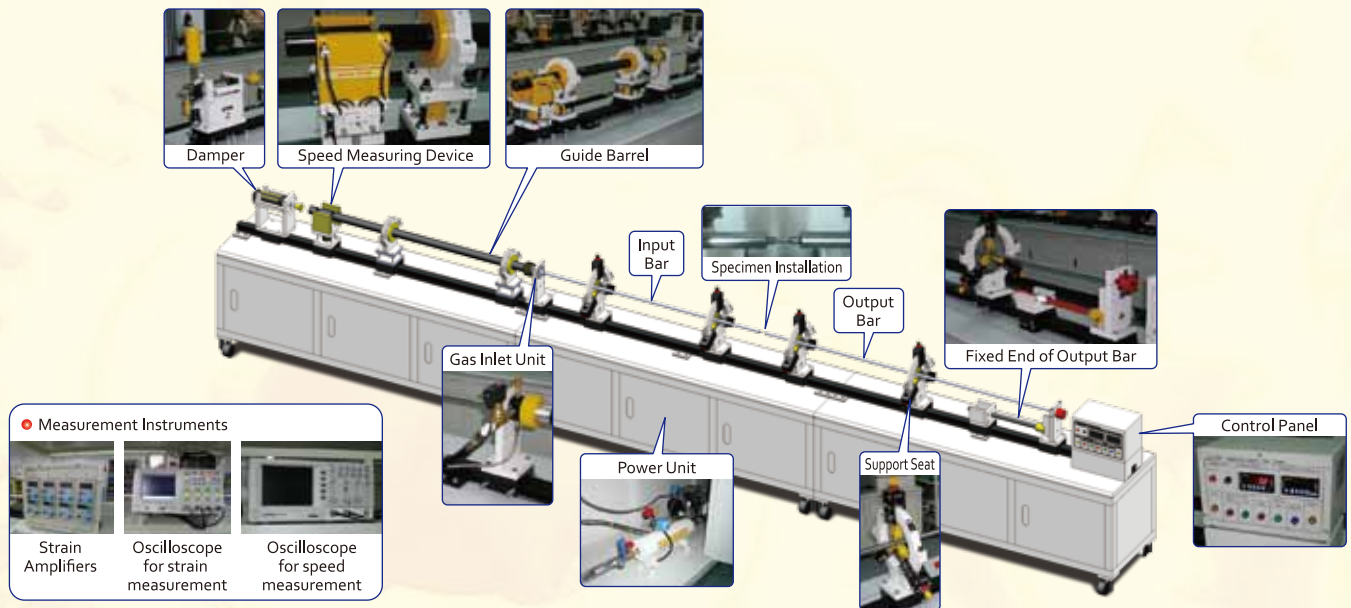
Model	Bar	Options*						
		SAE 1045	A7075-T6	SCM440 HRC30	SK-4	SUS630 H1150	Ti-6Al-4V alloy	SKH-51
9397A	Input	V	V	V				
	Output	V	V	V				
	Strike	V	V	V				
	Throw-off	V	V					
9397B	Input	V	V	V	V			
	Output	V	V	V	V	Ø12~17.1 mm	Ø12~18 mm	Ø5~12 mm
	Strike	V	V	V	V			
	Throw-off	V	V					

* Yield strength of each option:

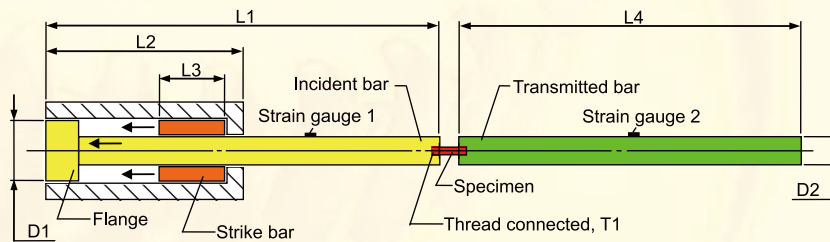
A7075-T6: >500 MPa; SCM440: >500 MPa; SK-4: >500 MPa;
 SUS630_H1150: >950 MPa; Ti-6Al-4V alloy: >950 MPa; SKH-51: >1,200 MPa;

* Other options about bar material can be discussed based on clients' requirement.

● LW-9398 Split Hopkinson Tension Bar Tester



● LW-9398A – Without loading bar structure



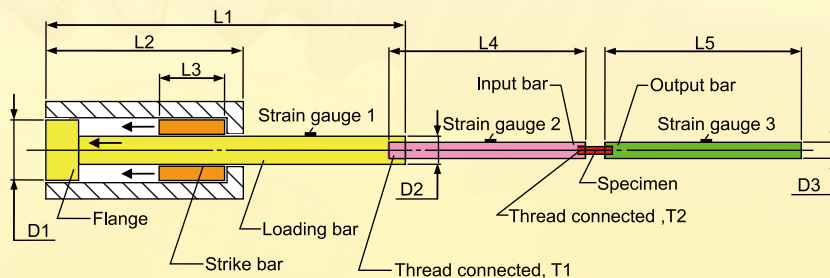
1. Dimension

Spec	Nominal Dimension of						
	D1	D2	L1	L2	L3	L4	T1
	mm	mm	m	m	mm	m	
# 1	25	18	3	1	100-500	2	M10 x 1.5
# 2	35	25	3	1	100-500	2	M12 x 1.5
# 3	45	35	3	1	100-500	2	M20 x 2
# 4	55	40	3	1	100-500	2	M24 x 2
# 5	60	40	3	1	100-500	2	M24 x 2

2. Material

Bar	Options*				
	SAE 1045	A7075 -T6	SCM440 HRC30	SUS630 H1150	Ti-6Al-4V alloy
Strike	V	V	V		
Incident	V		V		
Transmitted	V		V		

● LW-9398B – With loading bar structure



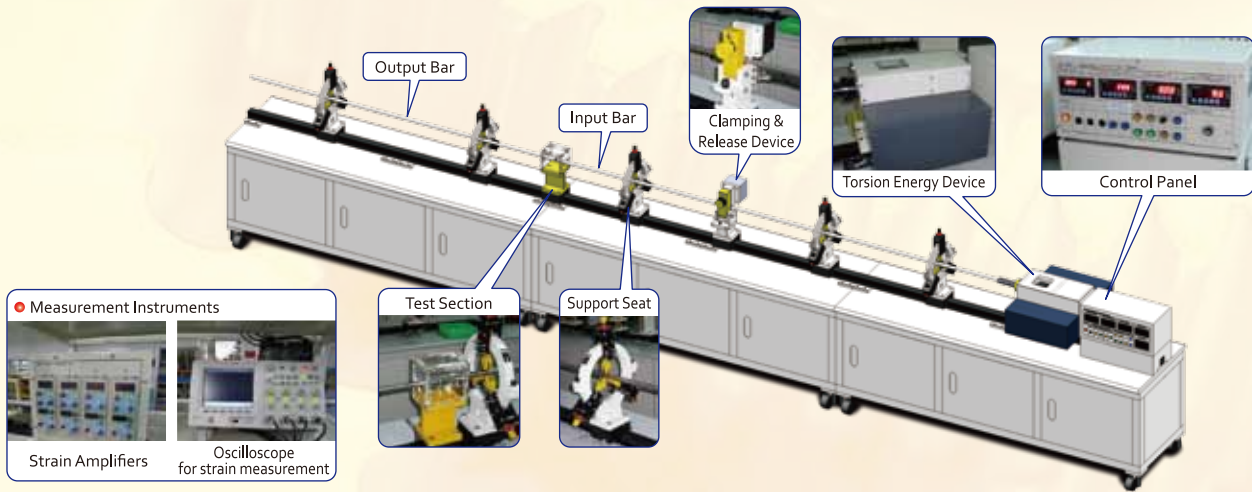
1. Dimension

Spec	Nominal Dimension of									
	D1	D2	D3	L1	L2	L3	L4	L5	T1	T2
	mm	mm	mm	m	m	mm	m	m	Thread connected	
# 1	35	25	16-20	1.5	1	100-500	1.5	1.5	M16 x 2	M10 x 1.5
# 2	45	35	20-28	1.5	1	100-500	2	2	M20 x 2	M12 x 1.5
# 3	55	40	24-32	1.5	1	100-500	2.4	2.4	M24 x 2	M16 x 2
# 4	60	40	24-32	1.5	1	100-500	2.4	2.4	M24 x 2	M16 x 2

2. Material

Bar	Options*				
	SAE 1045	A7075 -T6	SCM440 HRC30	SUS630 H1150	Ti-6Al-4V alloy
Loading	V		V		
Strike	V	V	V		
Input & Output	V	V	V	V	V

● LW-9361 Split Hopkinson Torsion Bar Tester



1. Dimension

Nominal Diameter*	Length of	
	Input bar	Output bar
mm	m	m
18	3	2

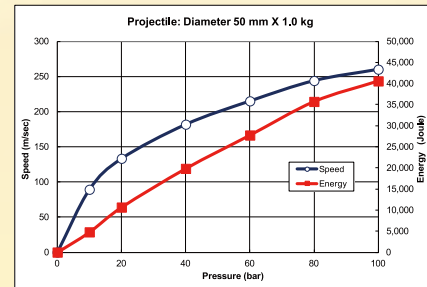
* The diameter of bar system can be modified from 12~25 mm according to clients' need.

2. Material

Bar	Options*				
	SAE 1045	A7075-T6	SCM440 HRC30	SUS630 H1150	Ti-6Al-4V alloy
Input	V	V	V	V	V
Output	V	V	V	V	V

* Other options about bar material can be discussed based on clients' requirement.

● LW-9396 Penetration Tester



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