INSTRON®

The difference is measurable®

FLOOR MODEL DEBRIS SHIELDS

High Force Applications

To maximize safety during high force testing, an Instron test system can be paired with a protective shield. Violent failures of specimens are common when testing materials that can shatter or create projectiles upon failure, such as rebar, cable, composites, or concrete. To protect operators without decreasing usability, test space enclosures or protective shields are sometimes necessary. Instron test shields are made of clear Lexan™ panels to maximize safety while allowing for observation during the test.

Shields are compatible with typical testing operations and can be modified for more complex needs.

PRINCIPLE OF OPERATION

- Floor model shields are bolted directly to the frame, with doors that can swing or slide open.
- Both front and rear shields are available, with options for extra height.
- Relocation kits are available to re-position the 3400 Series control panels or 6800 Series handsets and E-Stops.

When dictated by a procedure or directive, door interlocks can be integrated into the shield door. This will require that the door(s) be closed prior to starting a test and will interrupt the test if the door is opened during a test. When used with Instron® software that allows a test to be paused, access is allowed to the test space at specific points during the test to allow removal of extensometry without halting the test.

The non-interlocked Debris Shield may be appropriate in low risk applications for protection against non-hazardous debris such as dust, fibers or heat treat scales. If your risk assessment indicates that the breakup of your specimens may create hazardous projectiles, or if crush hazards exist when inserting very short specimens by hand, then an interlocked guard should be used for compliance with international regulations and directives.

If your risk assessment shows that a hazard exists from dangerous projectiles ejecting toward the rear of the machine, then a rear guard may be required.

IMPORTANT NOTE: It is essential and often required by regulations that users perform their own risk assessment based on their particular application(s). Instron can assist users in conducting a risk assessment.

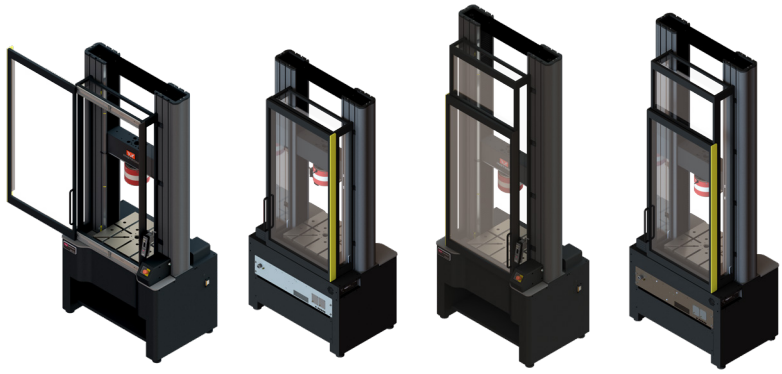


2910-062 Debris Shield on 68FM-300 with door closed



SWING DOOR SHIELDS

2910-062	CP134333	CP134349
Front / Rear Standard Height	Front Standard Height	Rear Standard Height

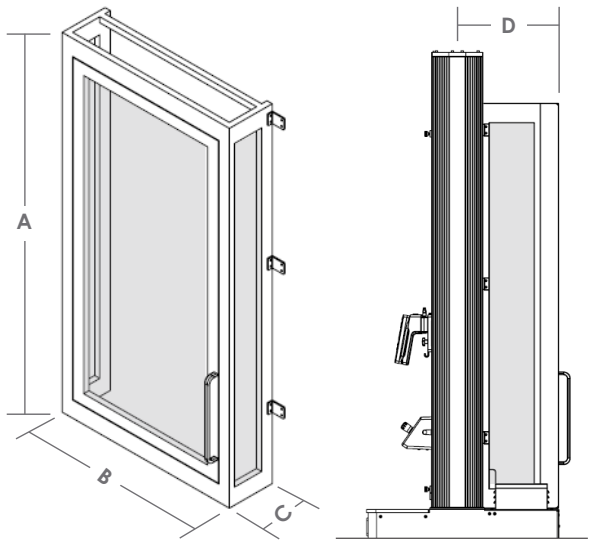


SLIDING DOOR SHIELDS

CP133322	CP133556	CP133554	CP133955
Front Standard Height	Rear Standard Height	Front Extended Height	Rear Extended Height

SWING DOOR SHIELD SPECIFICATIONS

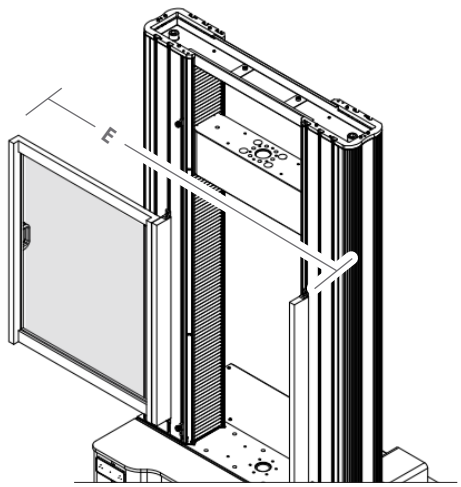
		2910-062[1]	CP134333	CP134349
Location[2]		Front or Rear	Front	Rear
Frame Height		Standard Height	Standard Height	Standard Height
Shield Height (A)	mm	915	1577	1577
	in	36.0	62.1	62.1
Shield Width (B)	mm	750	810	788
	in	29.5	31.9	31.0
Shield Depth (C)	mm	132	229	295
	in	5.2	9.0	11.6
Clearance from Centerline (D)	mm	168	255	310
	in	6.6	10.0	12.2
Width when Open (E)	mm	1512	1784	1816
	in	59.5	70.2	71.5



Notes:
1. Shield does not provide full vertical coverage
2. All front shields have a right-handed swinging door, and rear shields have a left-handed swinging door.

SLIDING DOOR SHIELD SPECIFICATIONS

		CP133322	CP133556	CP133554	CP133955
Location[3]		Front	Rear	Front	Rear
Frame Height		Standard Height	Standard Height	Extra Height	Extra Height
Shield Height (A)	mm	1577	1577	2077	2077
	in	62.1	62.1	81.8	81.8
Shield Width (B)	mm	810	800	810	800
	in	31.9	31.5	31.9	31.5
Shield Depth (C)	mm	229	294	229	294
	in	9.0	11.6	9.0	11.6
Clearance from Centerline (D)	mm	255	310	255	310
	in	10.0	12.2	10.0	12.2
Width when Open (E)	mm	1784	1816	1784	1816
	in	70.2	71.5	70.2	71.5



Note:
3. All front shields have a right-handed door, and rear shields have a left-handed door. Both slide horizontally, to the left for the front, and to the right for the rear.

INTERLOCK KITS

CP134681	One-door interlock kit, compatible with 3400 and 6800 floor model systems and all debris shields.
CP134682	Two-door interlock kit, compatible with 3400 and 6800 floor model systems and all debris shields.

RELOCATION KITS

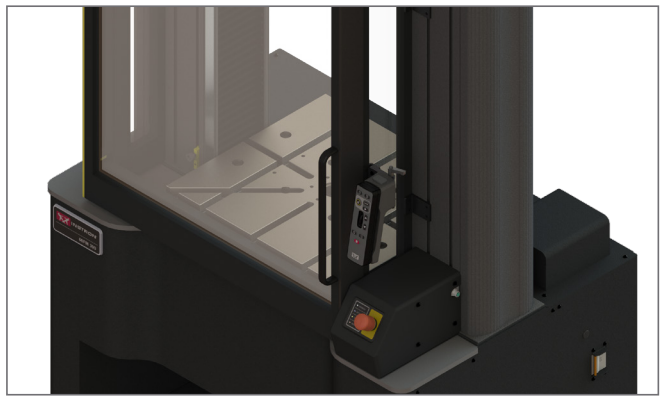
Relocation kits are required for all shields except 2910-062.

CP133413	3400 control panel relocation kit
CP133415	6800 handset and E-stop relocation kit

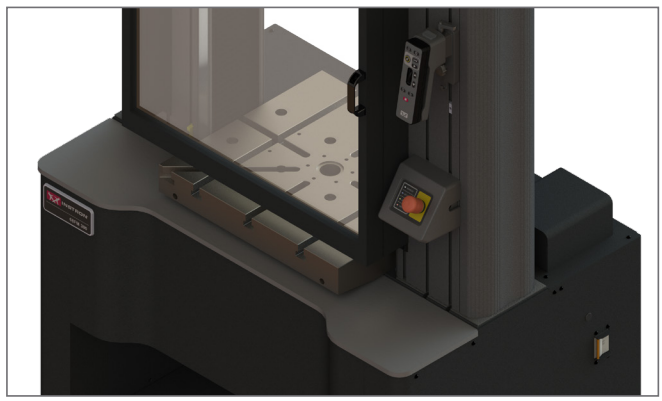
ACCESSORIES

Reference the table below for accessory compatibility. Note that an incompatible accessory will need a modified shield. Contact factory for details.

	Front Shield	Rear Shield
Clip-On Extensometer	●	●
LVDT	●	●
Chamber	●	
Furnace	●	
AutoX	●	
AVE2		●
T-Slot Table	●	●
Tensile Grips below 300 kN	●	●



CP134333 shield on 6800 floor model with CP133415 relocation kit



2910-062 shield on 6800 floor model without relocation kit

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