

Model	Weight gm	Sensitivity PC/lbf	Compression Range lbf	Max. Compression lbf	Tension Range lbf	Max. Tension lbf	Min. Temp. °F (°C)	Max. Temp. °F (°C)	Environmental Seal	Connector
1050C	32	-18	5,000	15,000	500	1,000	-100 (-73)	+500 (+260)	epoxy	axial 10-32
1051C	32	-18	5,000	15,000	500	1,000	-100 (-73)	+500 (+260)	epoxy	radial 10-32
1060C	460	-9	25,000	60,000	500	1,000	-100 (-73)	+500 (+260)	epoxy	axial 10-32
1061C	420	-9	25,000	60,000	500	1,000	-100 (-73)	+500 (+260)	epoxy	radial 10-32
1210C1	12	-18	5,000	10,000	N/A	N/A	-60 (-51)	+400 (+204)	hermetic	radial 10-32
1210C2	24	-18	10,000	15,000	N/A	N/A	-60 (-51)	+400 (+204)	hermetic	radial 10-32
1210C3	39	-18	20,000	25,000	N/A	N/A	-60 (-51)	+400 (+204)	hermetic	radial 10-32
1210C4	60	-18	40,000	50,000	N/A	N/A	-60 (-51)	+400 (+204)	hermetic	radial 10-32
1210C5	85	-18	60,000	70,000	N/A	N/A	-60 (-51)	+400 (+204)	hermetic	radial 10-32
1210C6	168	-18	80,000	90,000	N/A	N/A	-60 (-51)	+400 (+204)	hermetic	radial 10-32
1210C7	372	-18	100,000	110,000	N/A	N/A	-60 (-51)	+400 (+204)	hermetic	radial 10-32

PRODUCT SELECTION GUIDE

IMPULSE HAMMERS

Model	Head Weight gm	Sensitivity mV/lb	Range lbf	Max. Force lbf	Connector	Overall Length in
58002	100	100	50	1,000	BNC jack	8.7
58003	100	50	100	1,000	BNC jack	8.7
58004	100	10	500	1,000	BNC jack	8.7
58005	100	5	1,000	2,000	BNC jack	8.7
5800SL	2	100	50	75	10-32 jack	4.3
5802A	3 lbs	1	5,000	10,000	BNC jack	15.8
5803A	12 lbs	1	5,000	10,000	BNC jack	35.3
5805A	1 lb	1	5,000	10,000	BNC jack	11.8

IMPULSE HAMMERS

Dytran Model 5800SL

The Dytran model 5800SL is a compact, lightweight version of the 5800B series IEPE impulse hammer, offering an ultra low mass of 9.8 grams and very high stiffness.



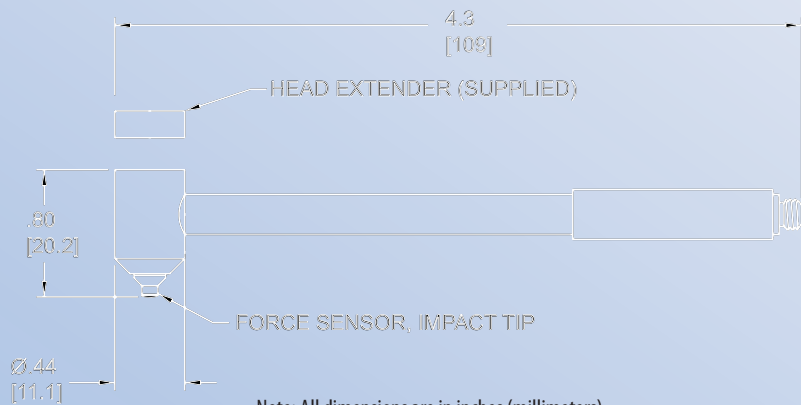
With a measurement range of 50 lbf, the Dytran model 5800SL has a head weight of just two grams and is supplied with a brass head extender. Electrical connection is achieved via a 10-32 jack located at the end of the hammer handle. Design of the model 5800SL incorporates an ultra miniature quartz force sensor built into the impact hammer tip, coupled with an onboard miniature IC amplifier. The reduced size and weight of the hammer head and handle further reduce overall hammer inertia for quicker rebounding. This produces a very high-frequency excitation, allowing the user to excite smaller structures with higher frequency content and input forcing function.

Features

- Ultra miniature impulse hammer
- 2-gram head weight
- Available in 50 lbf range
- IEPE

Applications

- Impulse testing of very low mass, high resonant frequency components
- Modal and structural analysis of very light structures such as small turbine blades, PC boards and disc drives



Specifications	Units	5800SL
Head Weight	oz (gm)	0.07 (2)
Housing, Head		stainless steel
Housing, Handle		fiberglass
Sensing Element		quartz
Sensitivity	mV/lb (mV/N)	100 (23)
Range	lbf (kN)	50 (0.22)
Maximum Force	lbf (kN)	75 (0.33)
Electrical Connection		10-32 jack
Recommended Accessories		
Head Extender	One (1) model 6278 brass head extender (supplied)	
Cabling	Model 6011A coaxial cable assembly (sold separately)	

IMPULSE HAMMERS

Dytran Model 5802A

Dytran model 5802A is an IEPE impulse sledge hammer, used to excite larger structures with a definable impulse force, for purposes of studying their dynamic behavior. The impulse is used to identify resonances, an important measurement parameter for the study of dynamic behavior, as well as to help determine the overall structural health of a test specimen.



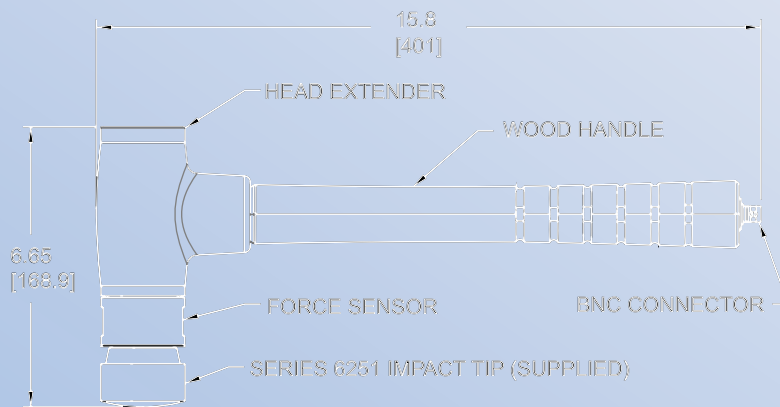
With a sensitivity of 1 mV/lbf and an available measurement range of 5,000 lbf, Dytran model 5802A is available with a head weight of 3 pounds, and is supplied with four interchangeable impact tips. Electrical connection is achieved via a BNC jack located at the end of the hammer handle. Design of the Dytran IEPE impulse sledge hammer incorporates a special acceleration compensated piezoelectric force sensors in the hammer head at the striking face, ensuring a smooth frequency spectrum that is free from anomalies.

Features

- Offered with a head weight of 3 pounds
- Available with 5,000 lbf range
- IEPE

Applications

- Modal and structural analysis of very heavy structures such as concrete castings, storage tanks, pipelines, towers, bridges, dams and concrete structures
- Structural testing of locomotives, ships and building foundations
- Other low to very low-frequency structural testing requirements



Note: All dimensions are in inches (millimeters).

Specifications	Units	5802A
Head Weight	oz (lb)	48 (3)
Housing, Head		stainless steel
Housing, Handle		wood
Sensing Element		quartz
Sensitivity	mV/lb (mV/N)	1 (0.22)
Range	lbf (kN)	5,000 (22.24)
Maximum Force	lbf (kN)	10,000 (44.48)
Electrical Connection		BNC jack
Recommended Accessories		
Impact Tips	One (1) model 6251H hard impact tip, one (1) model 6251M medium impact tip, one (1) model 6251S soft impact tip, one (1) model 6251T tough impact tip (supplied)	
Cabling	Model 6020A coaxial cable assembly (sold separately)	

IMPULSE HAMMERS

Dytran Model 5803A

The Dytran model 5803A is an IEPE impulse sledge hammer, used to excite larger structures with a definable impulse force, for purposes of studying their dynamic behavior. The impulse is used to identify resonances, an important measurement parameter for the study of dynamic behavior, as well as to help determine the overall structural health of a test specimen.



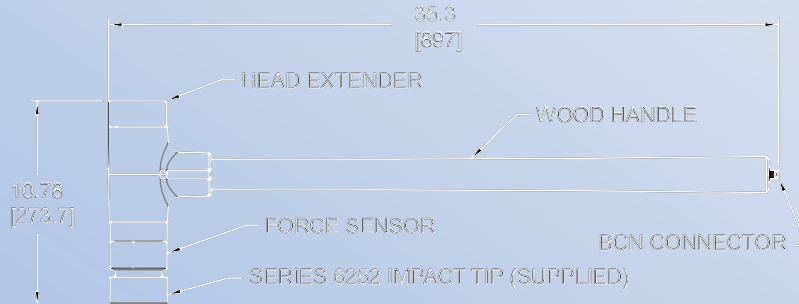
With a sensitivity of 1 mV/lbf and an available measurement range of 5,000 lbf, model 5803A is the largest of the Dytran sledge hammers with a head weight of 12 pounds, and is supplied with four interchangeable impact tips. Electrical connection is achieved via a BNC jack located at the end of the hammer handle. Design of the Dytran IEPE impulse sledge hammer incorporates a special acceleration compensated piezoelectric force sensors in the hammer head at the striking face, ensuring a smooth frequency spectrum that is free from anomalies.

Features

- Offered with a head weight of 12 pounds
- Available with 5,000 lbf range
- IEPE

Applications

- Modal and structural analysis of very heavy structures such as concrete castings, storage tanks, pipelines, towers, bridges, dams and concrete structures
- Structural testing of locomotives, ships and building foundations
- Other low to very low-frequency structural testing requirements



Note: All dimensions are in inches (millimeters).

Specifications	Units	5803A
Head Weight	oz (lb)	192 (12)
Housing, Head		stainless steel
Housing, Handle		wood
Sensing Element		quartz
Sensitivity	mV/lb (mV/N)	1 (0.22)
Range	lbf (kN)	5,000 (22.24)
Maximum Force	lbf (kN)	10,000 (44.48)
Electrical Connection		BNC jack
Recommended Accessories		
Impact Tips	One (1) model 6252H hard impact tip, one (1) model 6252M medium impact tip, one (1) model 6252S soft impact tip, one (1) model 6252T tough impact tip (supplied)	
Cabling	Model 6020A coaxial cable assembly (sold separately)	

IMPULSE HAMMERS

Dytran Model 5805A

The Dytran model 5805A is an IEPE impulse sledge hammer, used to excite larger structures with a definable impulse force, for purposes of studying their dynamic behavior. The impulse is used to identify resonances, an important measurement parameter for the study of dynamic behavior, as well as to help determine the overall structural health of a test specimen.



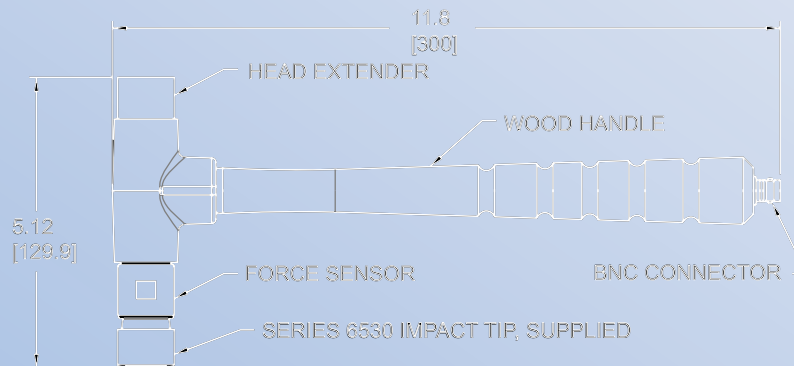
With a sensitivity of 1 mV/lbf and an available measurement range of 5,000 lbf, model 5805A is the smallest of the Dytran sledge hammers with a head weight of 1 pound, and is supplied with four interchangeable impact tips. Electrical connection is achieved via a BNC jack located at the end of the hammer handle. Design of the Dytran IEPE impulse sledge hammer incorporates a special acceleration compensated piezoelectric force sensors in the hammer head at the striking face, ensuring a smooth frequency spectrum that is free from anomalies.

Features

- Offered with a head weight of 1 pound
- Available with 5,000 lbf range
- IEPE

Applications

- Modal and structural analysis of very heavy structures such as concrete castings, storage tanks, pipelines, towers, bridges, dams and concrete structures
- Structural testing of locomotives, ships and building foundations
- Other low to very low-frequency structural testing requirements



Note: All dimensions are in inches (millimeters).

Specifications	Units	5805A
Head Weight	oz (lb)	16 (1)
Housing, Head		stainless steel
Housing, Handle		wood
Sensing Element		quartz
Sensitivity	mV/lb (mV/N)	1 (0.22)
Range	lbf (kN)	5,000 (22.24)
Maximum Force	lbf (kN)	10,000 (44.48)
Electrical Connection		BNC jack
Recommended Accessories		
Impact Tips	One (1) model 6530H hard impact tip, one (1) model 6530M medium impact tip, one (1) model 6530S soft impact tip, one (1) model 6530T tough impact tip (supplied)	
Cabling	Model 6020A coaxial cable assembly (sold separately)	