



## Product Description

Flintec Force Transducers are designed to meet the most stringent accuracy requirements. The CT3 *Precision* shear web metric series force transducers offer the following items.

## Key Features

- Capacities: 1.5 kN to 450 kN
- High accuracy (0.02-0.04 %)
- Low height
- First choice for structural and materials testing
- Guaranteed maximum off-centre load and moment error
- Low creep
- Low susceptibility to magnetic fields
- Barometric pressure compensated
- Temperature compensated
- Output up to 4 mV/V
- Bayonet connector
- Protection IP 67

## Options

- Additional bridges
- Output adjustment to standard
- Compression overload protection
- Integral cable
- Custom connectors
- Imperial versions available

## Available Accessories

- Mating connector
- Loading fixtures
- Interconnection cable
- Shunt calibration connector
- Instrumentation

Specifications						
<b>MODEL</b>			CT3-10M-	CT3-10M-	CT3-20M-	CT3-30M-
Maximum capacity	(E <sub>max</sub> )	kN	1.5 / 2.5 / 5 / 10	25 / 50	100 / 250	450
<b>ACCURACY</b>						
Static error band		%*RO	≤ ± 0.02	≤ ± 0.03	≤ ± 0.04	≤ ± 0.05
Non-linearity		%*RO	≤ ± 0.03	≤ ± 0.04		≤ ± 0.05
Hysteresis		%*RO	≤ ± 0.02	≤ ± 0.04		≤ ± 0.05
Non-repeatability		%*RO	≤ ± 0.01			
Creep error (20 minutes)		%*RO	≤ ± 0.03			
Off-centre load sensitivity		%*RO/cm	≤ ± 0.04	≤ ± 0.25		
Side load sensitivity		%*RO	≤ ± 0.1	≤ ± 0.25		
Zero balance		%*RO	≤ ± 1.0			
<b>TEMPERATURE</b>						
Compensated temperature range		°C	-10...+45			
Operating temperature range		°C	-55...+90			
Temperature effect on sensitivity	(TC <sub>LC</sub> )	%*of reading/°C	≤ ± 0.0015	≤ ± 1.0		
Temperature effect on zero	(TC <sub>0</sub> )	%*RO/°C	≤ ± 0.0027			
<b>ELECTRICAL</b>						
Rated Output	(RO)	mV/V	2 ± 10%	4 ± 10%		
Excitation voltage		V	recommended 10, max. 20			
Input resistance	(R <sub>LC</sub> )	Ω	350 +40/-3.5			
Output resistance	(R <sub>out</sub> )	Ω	350 ± 3.5			
Insulation resistance (50 V DC)		MΩ	≥ 5000			
<b>MECHANICAL</b>						
Safe load limit	(E <sub>lim</sub> )	%*E <sub>max</sub>	150			
Weight		kg	1.2	3	10	24
Flexure material			aluminium	steel		
Protection according DIN 40.050			IP 67			

Dimensions (in mm)										
<b>Type</b>	<b>H1</b>	<b>H2</b>	<b>H3</b>	<b>H4</b>	<b>H5</b>	<b>D1</b>	<b>D2</b>	<b>D3</b>	<b>cell thread</b>	<b>base thread</b>
CT3-10M-1.5/2.5/5/10 kN	3.1	31.8	28.7	0.8	5.1	104.8	32.8	31.8	M12x1.25	M12x1.25
CT3-10M-25/50 kN	3.1	31.8	28.7	0.8	5.1	104.8	32.8	31.8	M16x2	M16x2
CT3-20M-100/250 kN	3.1	41.4	44.5	0.8	7.6	154.0	100 kN-59.4 250 kN-65.5	57.2	M33x2	M33x2
CT3-30M-450 kN	6.3	57.2	50.8	0.8	10.2	203.2	95.5	76.2	M42x2	M42x2

**Wiring**

- The force transducer is provided with a bayonet connector.