

## TIRATest Universal Testing machines



**TT28100**  
**TT28300**  
**TT28500**



Universally applicable material testing machine according to DIN 51220 and EN ISO 7500-1 for tensile, compression and bending tests. The machine is employable for research development, quality control and education.

Type	TT 28100	TT 28300	TT28500
<b>Load frame:</b>			
Max. test force (N):	100.000	300.000	500.000
Max. stroke (mm):	1.100*	1.250*	1.550*
Total height (A) (mm):	2.050	2.250	2.550
Total width (B) without/with controller (B1) (mm):	1.050/1.270	1.250/1.500	1.500/1.750
Total depth (C) (mm):	700	900	1.050
Working height (D) (mm):	600	650	600
Weight without control cabinet (kg):	720	1.550	3.350
<b>Test area dimensions:</b>			
Height (G) (mm):	1.250*	1.400*	1.700*
Width (E) (mm):	580	650	750
Depth (F) (mm):	--	--	--
Control cabinet Width x Height x Depth (mm):	600 x 900 x 400		
Weight control cabinet (kg):	80		
<b>Measuring, regulation and control electronics:</b>			
Interface:	Ethernet		
Extension slots:	up to 7 slots		
Force resolution:	up to 200.000 steps		
Data logging rate:	up to 5kHz		
Optional remote control:	Yes		
<b>Drive unit:</b>			
Motor:	AC-Servomotor		
Set value:	Incremental, $\pm 15$ bit resolution		
Cross head travel (resolution) (mm):	<0,001		
Cross head travel (speed) (mm/min):	0,01 – 500	0,01 – 200	
<b>Electrical connection:</b>			
Connection voltage:	400V		
Main frequency:	50Hz		
Power consumption:	3kVA	6kVA	
* without force transducers and coupling			
** including EDC			
- Ball screw spindle adjusted without free play of single nuts			
- Force measurement with exchangeable force transducer			
- Force measuring accuracy with 0,5% or 1% according to EN ISO 7500-1 and ASTM E4			
- Further options on request		- All information is supplied without guarantee.	

