

## TIRATest Universal Testing machines



**TT 28600**  
**TT 281300**

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.

Typ	TT 28600	TT 281300
<b>Load frame:</b>		
Max. test force (N):	600	1.300
Max. stroke (mm):	1.750*	2.300*
Total height (A) (mm):	2.800	3.700
Total width (B) without/with controller (B1) (mm):	1.550/1.800	1.750/2.000
Total depth (C) (mm):	1.050	1.300
Working height (D) (mm):	700	800
Weight (kg):	3.550	6.500
<b>Test area dimensions:</b>		
Height (G) (mm):	1.850*	2.550*
Width (E) (mm):	750	700
Depth (F) (mm):	--	--
Control cabinet Width x Height x Depth (mm):	600 x 900 x 400	800 x 1.600 x 500
Weight control cabinet (kg):	80	120
<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 - 200	0,01 - 200
<b>Electrical connection:</b>		
Connection voltage:	400V	
Main frequency:	50Hz	
Power consumption:	6kVA	10kVA
* 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

