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**WGY-50kN/100kN/200kN/300kN Orthopaedics Testing Machine/Metallic Bone Plates Testing Machine**

**Product description:**

WGY-50kN/100kN/200kN/300kN Orthopaedics Testing Machine/Metallic Bone Plates Testing Machine



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PRODUCT DETAILS    PRODUCT VIDEO

**1. Uses:**

It is used for the tensile test, compression test, bending test, etc. of the metal bone plate of bone joint implants at room temperature, and the experimental test and research on the mechanical and mechanical properties of orthopedic materials.

- 1) Medical devices, bone implants, surgical implants, straight bone plates, angle bone plates, grasping bone plates, tubular bone plates, L-shaped bone plates, hook bone plates, double curved bone Plate, Y-shaped bone plate, golf club-shaped bone plate, T-shaped bone plate, reconstructed bone plate, arc-shaped reconstructed bone plate; corrugated steel plate; point-contact bone plate; contact dynamic compression bone plate;
- 2) Intramedullary device bone plate, bone plate bar, bone plate wire, bone plate plate, femoral end fixation implant, bone needle and bone wire, metal bone needle, malleable wire, suture wire for suture, Surgical forging wire, metal orthopedic rod, locking compression plate, osteotomy locking plate, femoral limited plate, proximal femoral plate, femoral ankle plate, upper extremity plate, lower extremity plate, femoral neck plate, lateral plate, Restricted contact bone plate, femoral condyle support bone plate, trefoil bone plate, hand and foot bone plate, threaded suture needle, medical suture needle steel wire;

**2. Standards:**

- YY/T0342-Implants for surgery-Determination of bending strength and stiffness of bone plate (ISO 9585:1990,IDT) ;
- YY0341-General technological requirements for non-active metallic surgical implementations for osteosynthesis ;
- YY0017-Implants for osteosynthesis-Metallic Bone Plates ;
- GB/T13810-Wrought titanium and titanium alloy for surgical implants
- GB23102-Implants for surgery- Metallic materials-Wrought titanium-6aluminium-7niobium alloy ;
- ISO 5832-12-Implants for surgery-Metallic materials-Part12:Wrought cobalt-chromium-molybdenum alloy ;
- ISO 13356-Implants for surgery- Ceramic materials based on yttria-stabilized tetragonal zirconia (Y-TZP) ;
- NF S94-063-Implants for surgery- Ceramic materials based on yttria-stabilized tetragonal zirconia (Y-TZP).
- ASTM F382-2014 Standard Specification and Test Method for Metallic Bone Plates ;
- DIN ISO 5832-9-Implants for surgery -Metallic materials-Part9: Wrought high nitrogen stainless steel ;
- EN ISO 5832-2-2012 Implants for surgery -Metallic materials-Part2:Unalloyed titanium ;
- DIN ISO 5832-3-Implants for surgery -Metallic materials-Part3: Wrought titanium6-aluminium4-vanadium alloy ;
- DIN ISO 5832-4-Implants for surgery- Metallic materials-Part4: Cobalt-chromium-molybdenum casting alloy ;
- DIN ISO 5832-1-Surgical implants Metal materials Part 1: Forged stainless steel;
- DIN ISO 5832-5-Surgical implants Metal materials Part 5: Forged cobalt-chromium-tungsten-nickel alloys;
- DIN ISO 5832-6-Surgical implants Metal materials Part 6: Forged cobalt nickel chromium molybdenum alloy;
- DIN ISO 5832-7-Surgical implants. Metal materials. Part 7: Cobalt, chromium, nickel, molybdenum and iron alloys ;
- DIN ISO 5832-8-Surgical implants. Metal materials. Part 8: Forged cobalt nickel chromium molybdenum tungsten iron alloy ;
- DIN ISO 5832-9-Surgical implants. Metal materials. Part 9: Forged high-nitrogen stainless steel ;
- DIN ISO 5832-11-Surgical implants. Metal materials. Part 11: Forged 6 titanium / 7 aluminum / niobium alloys ;
- GB/T228.1- Metallic materials-Tensile testing-Part1 : Method of test at room temperature ; (ISO 6892-1 : 2009.MOD) ;
- ASTM E8M-04: Standard Test Methods for Tension Testing of Metallic Materials [Metric] ;
- BS EN10002-1 : Tensile testing of metallic materials - part 1 : test methods at room temperature ;
- GB/T232-<Metallic materials-Bend test> ; (ISO 7348 : 2005.MOD).

**3. Technical Parameter**

Model	WGY-50kN / 100kN / 200kN/300kN		
Max. Load(kN)	50	100	200/300
Load accuracy	Class 1		
Load range	2% ~ 100%F·S		
Load resolution	1/300000		
Resolution of deformation	0.04um		
Accuracy of displacement	Within±0.5%of indicating load		
Resolution of displacement	0.01mm		
Test speed(mm/min)	0.05-500 stepless arbitrary setting		
Speed accuracy	within ±1% / ±0.5% of set speed		
E-Tensile space(mm)	Customized		
E-Compression space(mm)	Customized		
F-Beam travel distance(mm)	1050	1150	1150
H-Workbench thickness(mm)	58	68	108
I-Base height(mm)	435	460	560
Power supply	AC220V±10% , 50Hz/60Hz (can be customized)		
Video show	<a href="https://youtu.be/KyIRjSt60mQ">https://youtu.be/KyIRjSt60mQ</a> ( <a href="https://youtu.be/KyIRjSt60mQ">https://youtu.be/KyIRjSt60mQ</a> )		

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