



CE Equipment number: 2007420000

Umriya ZD-X20  
Technical specifications  
Model: ZD-X20  
Capacity: 2000m  
Speed: 1000m/min  
Power: 1500W  
Voltage: 220V  
Frequency: 50Hz  
Weight: 150kg  
Dimensions: 1000x1000x1500mm



**Umriya**



# PURPOSE AND SPECIFICATIONS

## USE

This product is an automatic CNC milling cutter grinder powered by a servo motor, suitable for regrinding tungsten steel, hard alloy, and high-speed steel cutting tools

Grinding tool models: flat milling cutter, ball milling cutter, round nose milling cutter, drill bit, chamfering cutter, centering drill, corn milling cutter.

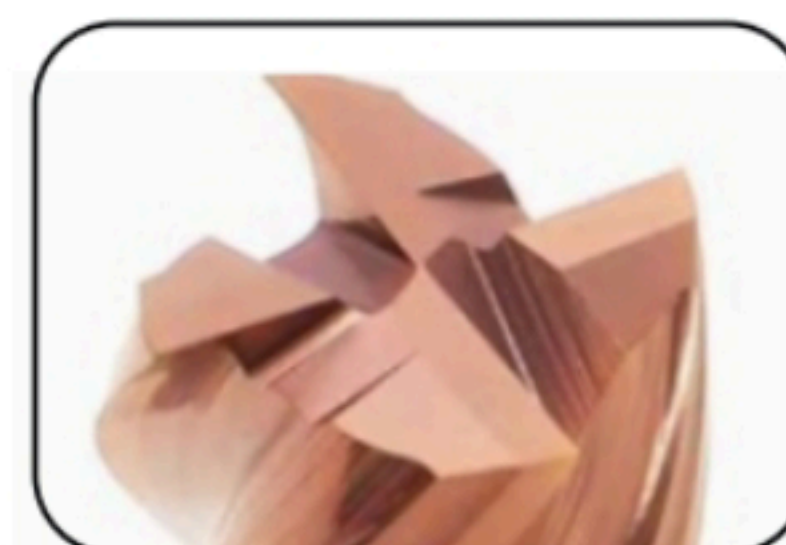
## SPECIFICATION OF EQUIPMENT

Model	ZD-X20
Power supply voltage	220V/50Hz
Rated power	1500W
Spindle motor speed	3000rpm
Equipment external dimensions	862mm×788mm×1435mm
Grinding angle of milling cutter blade	Front angle 7 °, rear angle 24 °, slot 30 °
Net weight of equipment	180KG
Grinding wheel size	Aφ124×11/Bφ124×11/Cφ124×10/Dφ124×5.50

## FLAT MILLING BLADE DIAMETER SPECIFICATIONS

( 2 Blades, 3 Blades, 4 Blades, 5 Blades, 6 Blades )

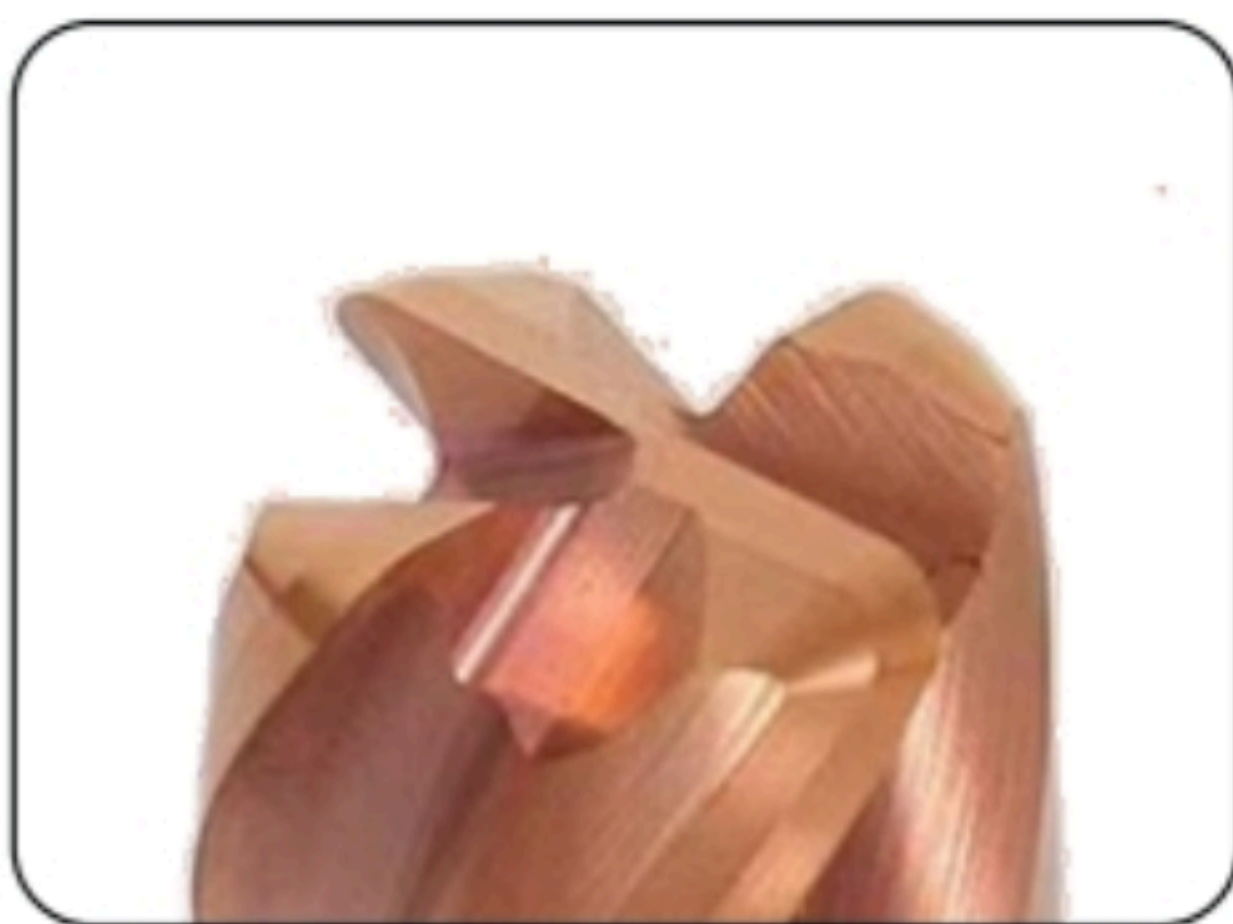
φ4	φ5	φ6	φ7	φ8	φ9
φ10	φ12	φ14	φ16	φ18	φ20



→ End Mill

## SPECIFICATION FOR CUTTING EDGE DIAMETER OF ROUND NOSE MILLING CUTTER

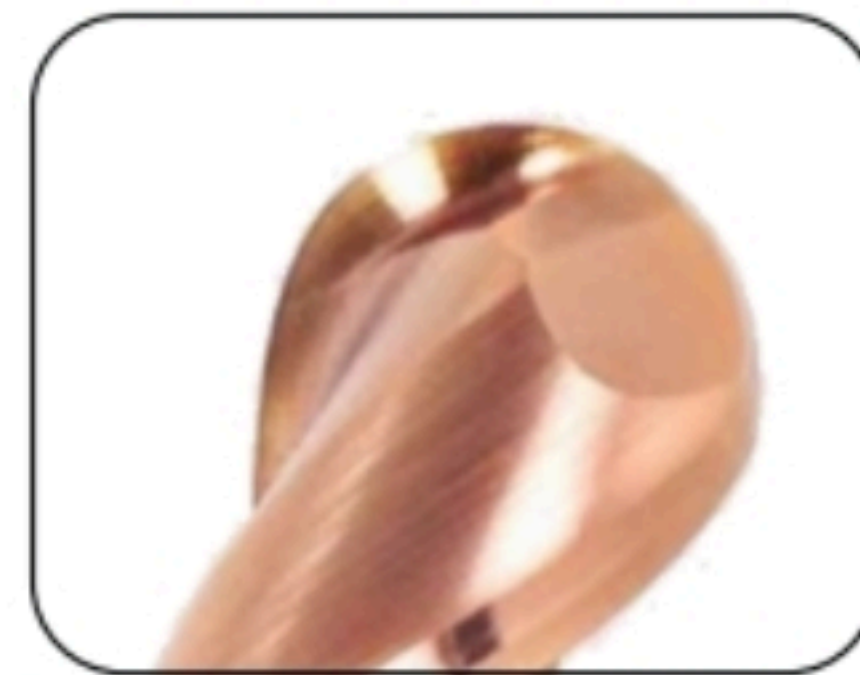
Round nose milling cutter (2 edges) (4 edges)									
Blade diameter	R	R	R	R	R	R	R	R	R
φ4	0.5	1							
φ5	0.5	1							
φ6	0.5	1	1.5	2					
φ8	0.5	1	1.5	2	2.5	3			
φ10	0.5	1	1.5	2	2.5	3			
φ12	0.5	1	1.5	2	2.5	3	4		
φ14	0.5	1	1.5	2	2.5	3	4		
φ16	0.5	1	1.5	2	2.5	3	4	5	
φ18	0.5	1	1.5	2	2.5	3	4	5	6
φ20	0.5	1	1.5	2	2.5	3	4	5	6



→ Round nose milling cutter

## BALL MILLING CUTTER BLADE DIAMETER SPECIFICATION

Ball milling cutter (2 edges) (4 edges)	
Radius	Blade diameter
R2	$\phi 4$
R2.5	$\phi 5$
R3	$\phi 6$
R4	$\phi 8$
R5	$\phi 10$
R6	$\phi 12$
R7	$\phi 14$
R8	$\phi 16$
R9	$\phi 18$
R10	$\phi 20$



Ball milling cutter



Drill bit

## ALLOY DRILL BIT DIAMETER SPECIFICATION

$\phi 4.0$ ----- $\phi 20$

## CORN MILLING CUTTER BLADE DIAMETER SPECIFICATION

Corn milling cutter (2 edges)			
$\phi 4$	$\phi 5$	$\phi 6$	$\phi 8$
$\phi 10$	$\phi 12$		



→ Corn milling cutter

## CHAMFERING BLADE DIAMETER SPECIFICATION

Chamfering blade diameter (2 blades, 3 blades)				
$\phi 4$	$\phi 5$	$\phi 6$	$\phi 8$	$\phi 10$
$\phi 12$				

The angle of the chamfering edge can be input according to your desired angle.



Chamfer cutter

## CENTERING DRILL BLADE DIAMETER SPECIFICATION

Centering drill (enter the blade angle according to your desired angle)				
$\phi 4$	$\phi 5$	$\phi 6$	$\phi 8$	$\phi 10$
$\phi 12$	$\phi 14$	$\phi 16$	$\phi 18$	$\phi 20$



Pilot drill

## GRINDING WHEEL SELECTION

Features of the grinding wheel equipped with the machine:

1. Electroplated grinding wheel;
2. High precision;
3. Good sharpness;
4. Excellent cutting performance;
5. High abrasive density;
6. More durable and wear-resistant.

Tool material	Grinding wheel model
Tungsten steel and hard alloy	SDC grinding wheel
High speed steel material (commonly known as white steel)	CBN grinding wheel

## MACHINE STANDARD CONFIGURATION

Name	Quantity
Automatic milling cutter grinder	1 unit
Power cord	1 piece
High quality and high concentration grinding fluid	1 liter
Instruction Manual	1 book
Hex key	6mm wrench and 5mm wrench each
Er32 elastic chuck	1 set of 9 pieces (see next page for details)
Clamping wrench	crescent wrench and 1 open-end wrench each
Door panel key	2 units
Short probe	1 unit
Knife block	1 unit
Grinding wheel washer 3	1 unit

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## ER CLAMP DETAILS

Er32 clamp specifications		
$\phi 4-\phi 3$	$\phi 6-\phi 5$	$\phi 8-\phi 7$
$\phi 10-\phi 9$	$\phi 12-\phi 11$	$\phi 15-\phi 13$
$\phi 16-\phi 15$	$\phi 18-\phi 17$	$\phi 20-\phi 19$