

Hydraulic Pump Vane



[Hydraulic pump vane and rotor](#), stator and waist into, the new structure of oil outlet of the pump core components. Blade mounted in the rotor, when the rotor is driven by the prime mover is rotated, the blades being thrown under the effect of centrifugal force, the inner stator surface moving along a curve, to maintain contact with the inner surface of the stator, between the blade tips and the stator is formed reliable seal.

Eccentric rotor and stator installation, as the rotor turns, between the stator and blade in the formation of the change of volume increase and a decrease in volume. The stator is provided with the oil port, the use of the valve plate into the oil chamber and the oil chamber separated. Valve plate mounted on the stator, the rotor blades and components side, the suction port located on the site of the volume increases, the oil port is located at the site of the volume is reduced, all the oil through the port plate into and out of the pumping mechanism.

ZT International — **The most professional exporter on special steel**

Tel: +86-571-28903510

E-mail: marketing@zt-corp.com

Fax: +86-571-28903510

baron.dayuan@gmail.com

Skype: [baron.dayuan](https://www.skype.com/user/baron.dayuan)

Web: <http://www.zt-corp.com>

ADD: A401, Oceanwide International Center, 2# Xiangzhang Road, Hangzhou, Zhejiang, China 310018.

1. Material : [SKH51, M2 , High Speed Steel](#)
2. Hardness : HRC 60° ~65°
3. Precision : 0.003~0.005mm or custom-made is acceptable
4. Surface Roughness: Ra<0.2

Thickness	Width	Length	Radius
1.430	8.580	15.575	+R1.8
1.425	8.780	21.945	+R2.0
1.425	8.550	26.940	+R1.8
1.685	10.200	15.520	+R1.8
1.685	10.200	21.925	+R2.0
1.685	10.200	26.999	+R2.0
1.685	10.200	30.450	+R2.0
2.500	27.000	40.000	Chamfer15°+R1
2.500	27.000	50.000	Chamfer15°+R1
2.500	27.000	60.000	Chamfer15°+R1
2.500	27.000	70.000	Chamfer15°+R1
2.500	27.000	80.000	Chamfer15°+R1
1.600	9.000	12.000	+R0.9
1.600	8.450	20.000	+R0.9
1.600	9.650	22.000	+R0.9
1.615	8.230	19.980	1side:2*Chamfer40°
1.800	8.000	22.000	-R1.5
1.800	9.500	30.000	-R1.5
1.800	10.000	37.000	-R1.5
1.800	12.000	37.000	-R1.5
1.800	12.000	18.000	-R1.5
2.200	12.000	30.000	-R1.8
2.200	19.000	24.000	-R1.8
2.200	17.000	30.000	-R1.8
2.200	19.000	19.000	-R1.8
2.200	19.000	30.000	-R1.8
2.200	19.000	42.000	-R1.8
2.400	18.000	55.000	-R1.8

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