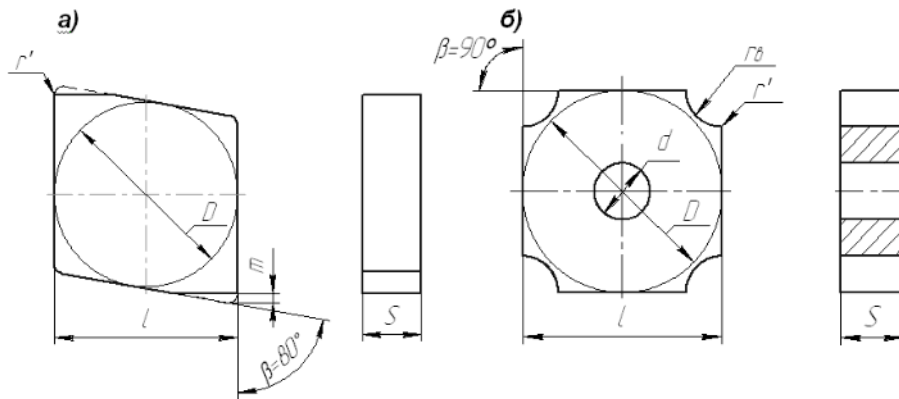


...», ...» ...» (, , ,) ,
 ...» « - » , ,)
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 ,
 . , ,
 : , -
 , .
 , .
 () .
 ,
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 ,
 (,),
 .
 70...80%,
 , - , 50%.
 . [1-3]
 , :
 1) , - , 2) -
 ; 3) -
 -
 (.1.).
 .
 (,
),
 .
 :
 1) (\$8 , -
),
 , (,
 - 90%), ;

2)

[1, 2]



. 1.

r ,

r

:)

m ,

5.

6.

r

.1. .

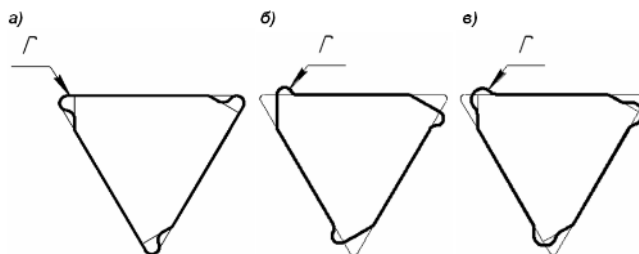
(3)

r ,

r ,

(.2):

0,2



.2.

r

:)

,)

,)

r

.2. ,

r

.2. ,

r ,

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r

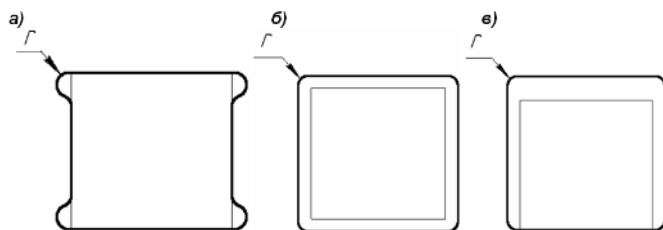
r

2

80 55 90 : r 1%,

(.3.)

(.3. ,),

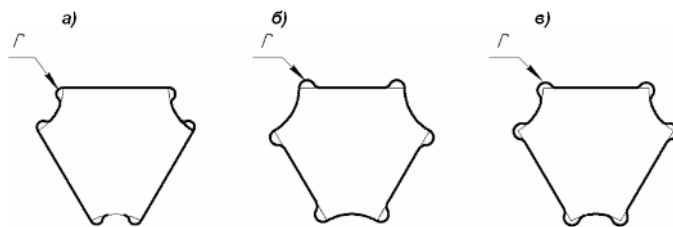


.3.

()

(,)

r , (.2, 3), (.4).



.4.

)

,)

r :) r ,

.4. ,

r

30%

2

1

,

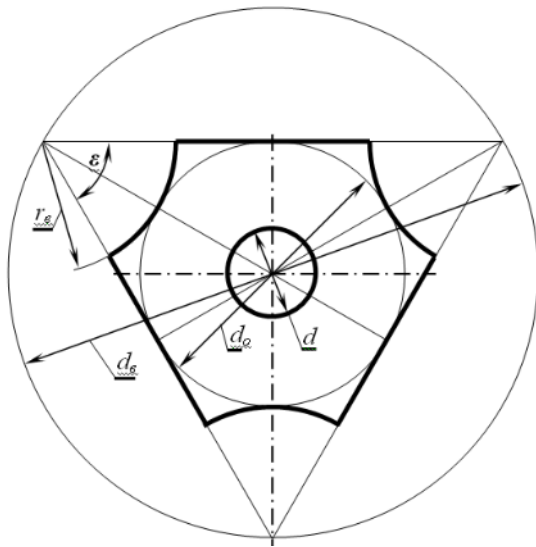


,

,)

:)

,)



.6.

r

5-

(1)

$d :$

$r ,$

d_o

:

$$d := 2r + d_o \quad (1)$$

r

:

$$r = d_o / (2 \sin(\epsilon/2)) - d_o/2 = d_o (1/\sin(\epsilon/2) - 1)/2, \quad (2)$$

—

:

$$= (n - 2)/n = (1 - 2/n), \quad (3)$$

$n -$

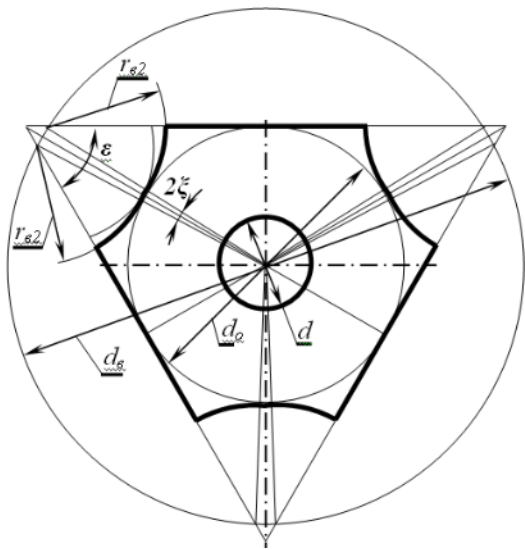
80 , 55 ,

1.

	d_o	d		%	%
3-	9,525	3,81	4,7625	29,5	39,27
	12,70	5,16	6,35	29,9	39,8
	15,875	6,35	7,9375	29,7	39,45
3-	9,525	3,81	2,65	13,8	15,81
	12,70	5,16	3,53	14,6	16,83
	15,875	6,35	4,42	14,1	16,1
	9,525	3,44	1,95	13,2	23,5
	12,70	5,16	2,603	13,4	26,3
	15,875	6,35	3,25	13,2	25,8
5-	9,525	3,81	1,12	6,87	20,76
	12,70	5,16	1,49	7,13	21,44
	19,05	7,93	2,24	7,02	22,04
6-	15,875	6,35	1,27	4,25	18,77
	19,05	7,93	1,524	3,89	19,63
	22,20	7,93	1,776	4,23	15,82

30 4%

10...12% (1). , , 3- . 5- 6- . , r_2 , . 7. (4), r_2 :



$$(r_2 + d_o/2)\sin(\xi/2 + \varepsilon) = d_o/2, \tag{4}$$

: 1...2 .

$$r_2\sin(\xi/2 + \varepsilon) = d_o/2(1 - \sin(\xi/2 + \varepsilon)),$$

$$r_2 = d_o/2(1/(\sin(\xi/2 + \varepsilon)) - 1) \tag{5}$$

7. r_2 , 80 , 55 , , .

(+1%) , r_2 , 5. r ,

(30%) , 1 , 20...30%.

“ - ”.

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 200509216 30.09.05. 4 10.04.07.
 31.05.2010

1,5

NEW CONSTRUCTIONS OF MULTIFACETED NO-REFACE CUTTING PLATES OF LATERAL SETTING

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This paper concerns the field of mechanical engineering and machining in particular; – assembled tools with mechanical fastening of multifaceted plates, which are not resharpened as well as rotary quickly replaced cutting plates for their equipment. The new designs of tools and plates are given, the cost of which per one cutting edge being 1,5 times less than cost of plates which are produced by the leading cutting tools manufacturers.

Keywords: machines tool, multifaceted no-reface plates