OCT type

" Octoblader "



TOOLING BY DIJET.







ОСТ Туре

ECONOMY CUTTER WITH 8 CORNERS

Features and Benefits

Economy cutter with 8 corners.

8 corners can be used when cutting depth is 4mm or less.

8 indexes per insert means:

2 times more indexes than a square insert.

OCT (End-mill Type)

4 times more indexes than a rectangle/parallelogram insert. An incredibly economical insert!

Increased insert rigidity.

- We've improved insert rigidity by increasing insert thickness by 15%, or to 5.5mm. Compare this to a standard thickness of just 4.76mm.
- Also, with an obtuse corner angle of 135 degrees and a corner radius of 1.2mm (competitors' are generally 0.8mm), the insert corner strength is increased making it difficult to become damaged even under severe cutting conditions.

A strong tool body for a wide array of applications.

- A wide clearance between the cutting edge makes this tool ideal for 3D cutting.
- In addition, a much wider chip pocket allows for more efficient chip ejection given any cutting condition, without sacrificing cutter rigidity.

Easy, quick, and accurate indexing.

A quick loosening of the screw is all that is needed to index (no need to pull the screw out)! It is, by far, a very simple, quick, and reliable method of indexing.

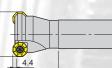


Fig.5/4	
	pg

B	0	d	V

Cat. No. S	0	No. of		Dimensio	ons (mm)		
	Stock	inserts	D	12	L	d	Fig.
OCT-02040-100-S42		2	40	100	200	42	1





Body (Profiling End-mill)

Cat Na	Stock No. of			Dimensio	ons (mm)		F in
Cat. No.		inserts	øD	2	L	ød	Fig.
OCT-03050PF-050-S32		3	50	50	150	32	2
OCT-03063PF-050-S32		3	63	50	150	32	2

Indexable Tools

Stock in Japan

Indexable Tools

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" Octoblader "

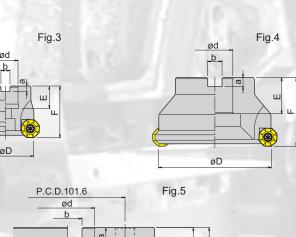
OCT (Face Mill Type)

Cat. No.	Steak	No. of			Dimensi	ons (mm)			E in
Cal. NO.	Stock		øD	F	ød	а	b	E	Fig.
OCT-04050-22R		4	50	45	22	6.3	10.4	20	3
OCT-05063-22R		5	63	50	22	6.3	10.4	20	3
OCT-05080-27R		5	80	55	27	7	12.4	22	3
OCT-06100-32R		6	100	55	32	8	14.4	32	4
OCT-08125-40R		8	125	55	40	9	16.4	35	4
OCT-10160-40R		10	160	55	40	9	16.4	35	4
OCT-12200-60R		12	200	63	60	14	25.7	35	5

Body

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	P.C.D.101.6	Fig.5
CABTA-TOZ ATZT-2000	øD	u u







" Octoblader "

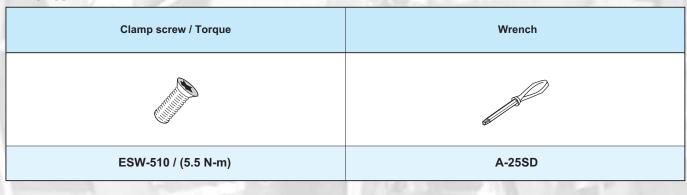


	Cot No	Соа	ated	Dimensions (mm)		
	Cat. No. JC8015		JC5040	А	Т	
	ODMT0606AEN	•	•	16	5.5	
NEW	ODMW0606AEN	•		16	5.5	

Caution! This insert fit only original Dijet Body.

New product on request

Parts



Recommended cutting conditions for "OCTOBLADER"

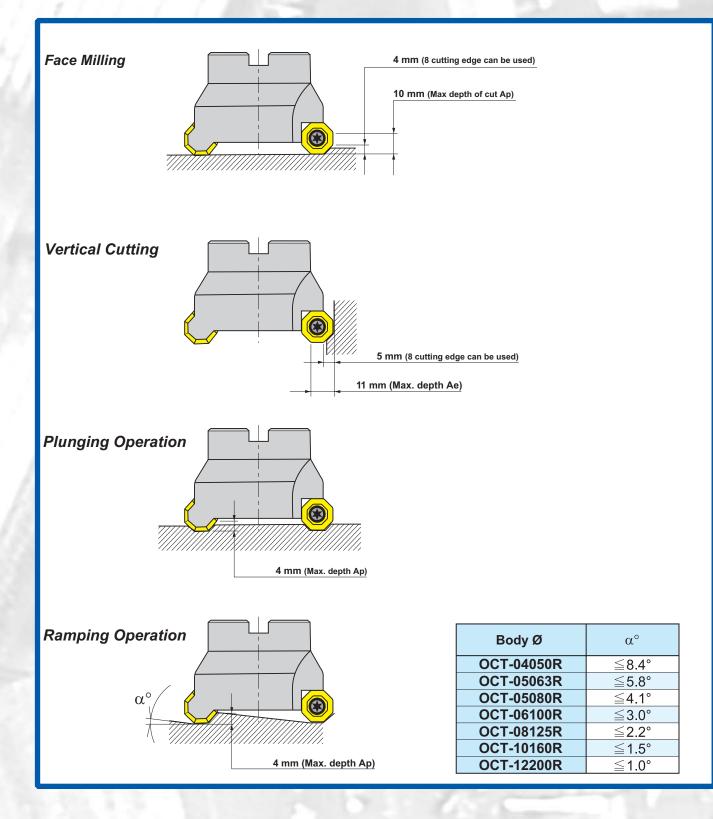
Work materials	Insert grade	Hardness (HB)	Cutting speed (m/min)	feed (mm/insert)
Low carbon steel, Mild steel	JC5040	180 - 280	180 - 250	0.15 - 0.45
Medium carbon steel, High carbon steel	120		150 - 200	0.15 - 0.45
Alloy steel, Tool steel	JC5040	180 - 280	120 - 170	0.15 - 0.35
Stainless steel	JC8015	- 270	80 - 150	0.10 - 0.30
Gray cast iron	JC8015	JC8015 200 - 250 150 - 250		0.25 - 0.45
Nodular cast iron	JC8015	180 - 250	150 - 250	0.25 - 0.45



" Octoblader "

ОСТ Туре

Cutting applications for OCT.



" Octoblader "

Cutting data for "Octoblader"

1. High efficient machining by 4 x D tool. (Q=211cm³/min)

Roughing		Part name	Injection mold
Overhang length: 250mm (L=4 x D)	Work	Material	S50C
		Hardness	-
T. S.L.	Tool	Tool No.	OCT- 4063PF-22R
	1001	Insert No.	ODMT0606AEN, JC5040
		Cutting speed	158 m/min (800 min ⁻¹)
		Feed speed	2,112 mm/min
	Cutting	Ар	2 mm
Result	conditions	Ae	50 mm
Competitor could cut only 1mm Ap due to chatter Octoblader could cut 2 mm.		Coolant	Dry cut
without chatter. Smooth cut Q=211cm³/min.		Machine	Horizontal MC

2. Cost reduction (Reduced the cost to 1/8)

Roughing operation		Part name	Stamping die for hood
to the	Work	Material	FC250
and the second		Hardness	260 HB
	Tool	Tool No.	OCT-10160R
050 0	1001	Insert No.	ODMT0606AEN, JC5040
		Cutting speed	116 m/min (220 min ⁻¹)
		Feed speed	700 mm/min
2/	Cutting	Ар	4 mm
Result	conditions	Ae	MAX. 160 mm
Competitor could not index 8 corners due to chipping and tool life was 10h.		Coolant	Dry cut
Octoblader could use 8 corners and got 40h tool life. Reduced the cost to 1/8.		Machine	Vertical MC/22kW