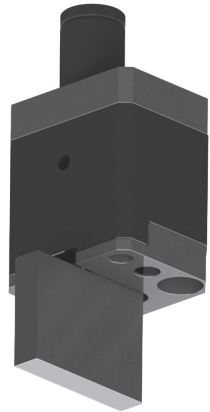


# Floating Cutter

Anti-burr / Anti-chip Cutting Unit

**NEW**

Aid for trimming, as well as reducing burring and chips



### ● Cutter Supplied As Blank

Supplied as a blank for ease of accurate machining with trim line and scrap cutter which results in less burrs, chips, and high design flexibility.

### ● Off-set Structure

Design means no interference with the pad return.

### ● Easy Adjustment

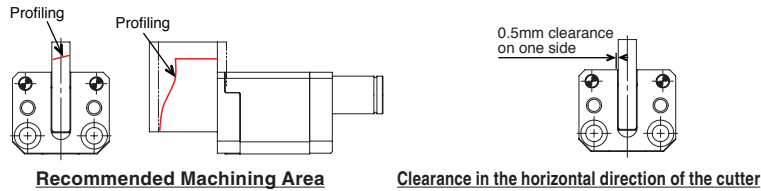
A 0.5 mm clearance on either side of the blade helps ensure ease of installation.

### ● Compact Design

Low maintenance.

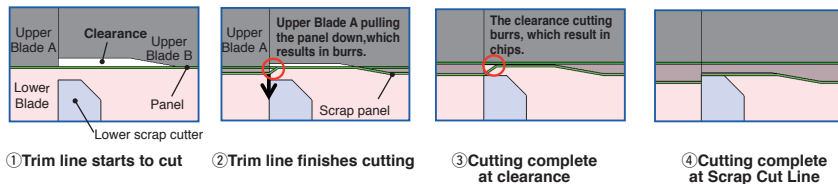
### ● Durability

500,000 cycles under normal use.

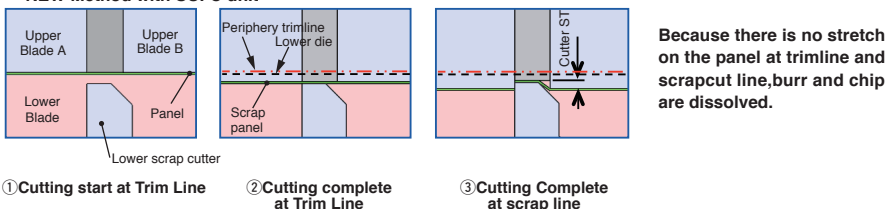


## ■ Comparison of NEW SUFC unit with the Current Method

### ■ The Current Method

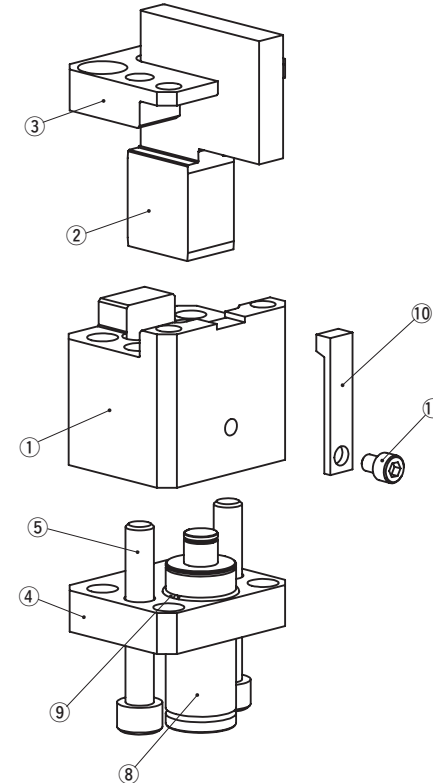


### ■ NEW Method with SUFC unit



## Technical Information

### ■ SUFC Assembly/ Dis-assembly



### ● Disassembling SUFC

Simply remove the hex socket bolts, (See ⑤).

### ● Re-assembly

Reassembly is the reverse procedure of disassembly.

Ensure that all parts are clean, particularly the sliding components, to which a small amount of grease is applied and is then placed in position.

Take care that the respective tolerances are observed when assembling the holder (①) and cutter (②).

Ensure that all bolts are tightened to the recommended torque.

Recommended Torque for Hexagon Socket Head Bolt (⑤)  
61 N·m

### ■ Table of Components

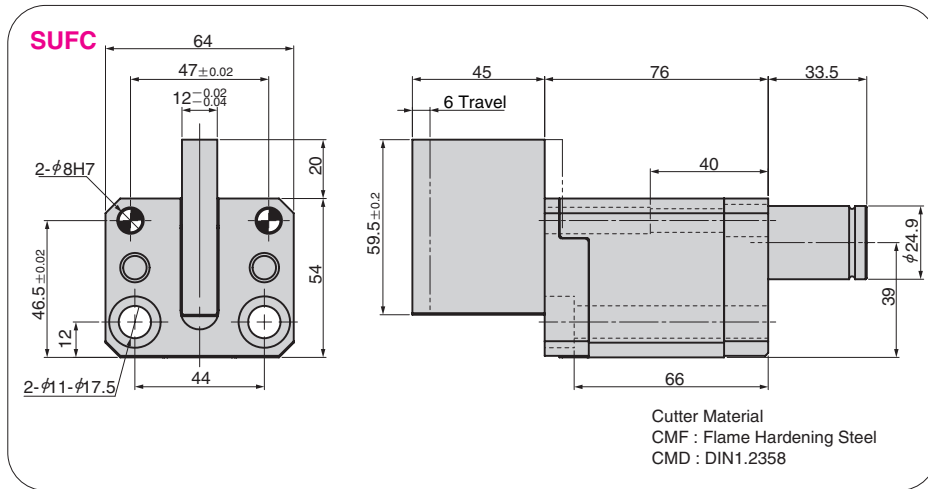
No.	Description	Qty	Material and Remark
①	Holder	1	Bronze
②	Cutter	1	Tool Steel
③	Plate-A	1	Steel
④	Plate-B	1	Steel
⑤	Hexagon Socket Head Bolt	2	M10-65
⑥	Hexagon Socket Head Bolt	2	M10-85
⑦	Dowel Pin	2	φ8-50
⑧	Gas Spring	1	Refer to the Spring Specification table
⑨	Snap (Retention) Ring	1	
⑩	Locking Plate	1	Steel
⑪	Hexagon Socket Head Bolt	1	M6-8

※⑥ and ⑦ supplied with unit.

# Floating Cutter

Anti-burr / Anti-chip Cutting Unit

**NEW** CAD FILE



Cutter Material  
CMF : Flame Hardening Steel  
CMD : DIN1.2358

Working Force kN	Catalog No.	Cutter Width W	Travel ST	Cutter Material CMT	Spring Type PS
4.4	SUFC	12	6	CMF CMD	GK NGK GH NGH GD NGD

GK: Gas Spring (KALLER)      NGK/NGH/NGD: Without Gas Spring.  
GH: Gas Spring (HYSON)      Mounting hardware for gas spring included.  
GD: Gas Spring (DADCO)



Option

Option Code	Specification
NF	Nitrogen gas not charged.



Order

Catalog No.	W	ST	CMT	PS	PS Option
SUFC	12	6	CMF	GK	NF
SUFC	12	6	CMF	GH	
SUFC	12	6	CMD	NGH	

## Spring Specification

Initial		Model Spring
Deflection	Load kN	
0.5	4.4	CU4 420-10(KALLER) T4SC-420 x10-V152(HYSON) SC.00420.010(DADCO)

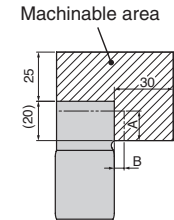


**Gas Spring :**  
Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog.  
For use and maintenance of gas spring, please contact the manufacturer directly.

## Operational Information

### ① Machinable Area

Machine cross-hatched area as needed.  
A minimum of 20mm is required for Dimension A although A can be less than 20mm as long as A > B.

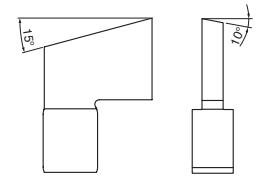


Machinable area shown for regular use

### ② Machine Limits

Allowable angle: 15 degrees front to back and 10 degrees left to right.

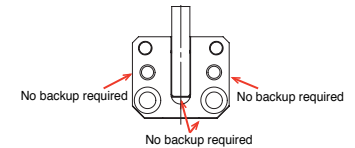
NOTE: Cutter blade welding and surface treatment are the same as the cross-hatched areas, mentioned above.



Allowable cutter max angle (upper)

### ③ Backup Requirements

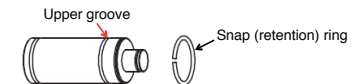
No reinforcements needed for holder and cutter.



Backup requirements

### ④ Replaceable Gas Spring

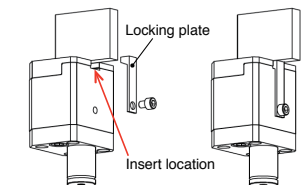
Easily remove snap (retention) ring and apply it to upper groove of new spring.



Snap (retention) ring location

### ⑤ Retention of Cutter During Machining

Ideal condition is to use both locking plate and gas spring to hold the cutter in place during profile machining.  
Only a gas spring is sufficient if locking plate is missing.



Locking plate attachment