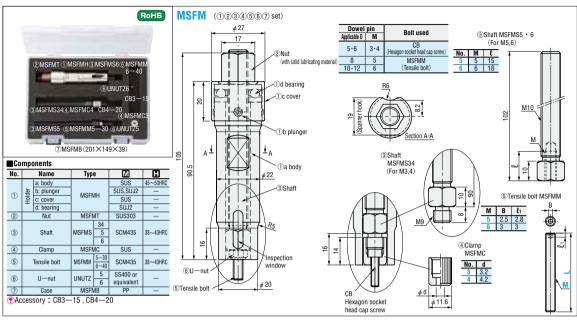
DOWEL PIN EXTRACTORS

-ROTATION TYPE-(APPLICABLE DOWEL PINS: D13 \sim 20)



■ Dowel pin extractor set (1) (2) (3) (4) (5) (6) (7))

Catalog No.

?Accessory: CB3-15, CB4-20

■Single tensile bolt (5) only

| Catalog No. | | | | , | | |
|-------------|---|----|----|----|----|----|
| Туре | M | | | | | |
| MSFMM | 5 | 25 | 30 | 40 | 50 | |
| MISTMIM | 6 | | 30 | 40 | 50 | 60 |

• MSFM set is provided with MSFMM5—30 and MSFMM6—40.

■Ultra—long socket(Separately sold)

Catalog No.

4NV-17L100

• Use for impact wrench (insertion angle: 12.7)

• Can be stored in 7 Case by inserting the shaft in the ultra—long socket.













■Other single components

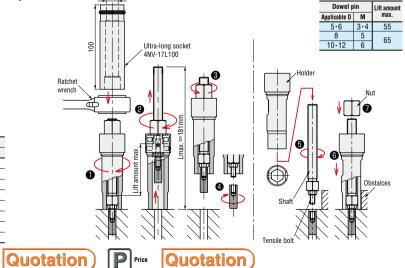
| Name | Catalog No. | | |
|---------------------------------------|-------------|-----|--|
| Name | Туре | No. | |
| 1)Holder | MSFMH | | |
| ②Nut(with solid lubricating material) | MSFMT | | |
| | | 34 | |
| 3Shaft | MSFMS | 5 | |
| | | 6 | |
| 4)Clamp | MSFMC | 3 | |
| (For shaft MSFMS34) | MISTING | 4 | |
| (7)Case | MSFMB | | |

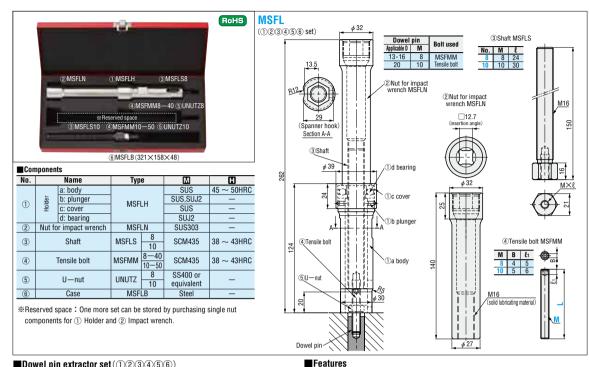
- •The rotation of the bolt and nut help the dowel pin be extracted smoothly.
- •The compact shape make it possible to remove the dowel pin without demounting the die sets from the press machines.
- · Because this structure reduces the shock during extraction, it solve those problems as shifting of peripheral components due to damage of bolt or vibration.



The dowel pin can be either extracted by applying ratchet wrench or spanner to the nut, or removed by using impact wrench after changing the nut to the separately sold ultra-long socket 4NV-17L100.

- -Without obstalces-
- M×1 2mm from the holder Turn the holder and screw the tensile bolt into the dowel pin. (Return about 1/2) rotation when the tensile bolt reached the incomplete thread of the dowel pin.)
- 2 Turn the nut and extract the dowel pin.
- 3 Rotate the nut and out the dowel pin from the holder.
- A Remove the dowel pin.
- -With obstacles nearby- By using the nut adjust the tensile bolts to extends about Screw the shaft into the dowel pin by more than 5 threads (Return about 1/2 rotation when the
 - tensile bolt reached the incomplete thread of the dowel pin. 6 Insert the cut face of the holder into the
 - shaft along the obstraction Install and turn the nut





■Dowel pin extractor set (1)(2)(3)(4)(5)(6))

Catalog No.

■Single tensile bolt(4) only)

| Catalog I | No. | | | | | | |
|-----------|-----|----|----|----|----|-----|-----|
| Туре | M | | | | _ | | |
| | 8 | 40 | 50 | 60 | 80 | 100 | |
| MSFMM | 10 | 40 | 50 | 60 | 80 | 100 | |
| | 10 | | | | | | 120 |

• MSFL set is provided with MSFMM8—40 and MSFMM10—50.











Quotation

| Nama | Catalog No. | | |
|---------------------------------------|-------------|----|--|
| Name | Type N | | |
| ①Holder | MSFLH | | |
| ②Nut for impact wrench | MSFLN | | |
| ③Shaft | MSFLS | | |
| 3) Silait | MISTLS | 10 | |
| 6 Case | MSFLB | | |
| Nut (with solid lubricating material) | | | |
| M16 M1: SUS303 | MSFLT | | |

MSFL (dowel pin extractor set) is not provided with MSFLT (nut).

The state of the s use with M8 and M10.













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·The rotation of the bolt and nut help the dowel pin be extracted smoothly.

as shifting of peripheral components due to damage of bolt or vibration.

fingers and fallover due to damage of bolt and welded part.

· It solves the problems that could easily occur with the traditional hammer-

type dowel pin extractor used in large-diameter dowel pin, such as pinching of

· Extraction is easy even for dowel pin of tight engagement like MST (p6 tolerance).

· Because this structure reduces the shock during extraction, it solve those problems

Two removal modes are available depending on application.

dowel pin)

a) Dowel pin can be easily removed with

impact wrench (insertion angle: 12.7)

· Turn the holder and screw the tensile bolt

into the dowel pin by more than 5 threads.

bolt reached the incomplete thread of the

· Use the impact wrench to turn the nut for

impact wrench, and remove the dowel pin.

Dowel pin Lift amount
Applicable D M max.

13-16 8 86 20 10 85

Ratchet wrench

b) With the separately sold nut MSFLT, removal can be done using ratchet wrench and

spanner, and application is possible in narrow space not accessible to impact wrench.

(Return about 1/2 rotation when the tensile