

## High Feed Diemaster

SKSTYPE

G-Body

Standard Type



Fig.1 Through Coolant Hole

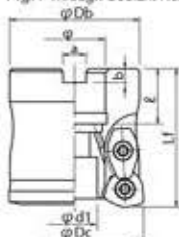
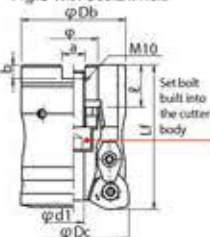


Fig.2 Without Coolant Hole



Fig.3 With Coolant Hole



## BODY/FACE MILL TYPE

| Type        | Cat. No.        | Stock | No. of Flutes | Dimensions (mm) |    |     |    |      |      |     |    | Weight (kg) | Applicable Inserts | Fig. |
|-------------|-----------------|-------|---------------|-----------------|----|-----|----|------|------|-----|----|-------------|--------------------|------|
|             |                 |       |               | φDc             | Lf | φDb | φd | φd1  | a    | b   | ℓ  |             |                    |      |
| Metric Bore | SKS-3040R-06-16 | ●     | 3             | 40              | 45 | 37  | 16 | 14   | 8.4  | 5.6 | 18 | 0.3         | WD※※06...          | 1    |
|             | SKS-3050R-08-22 | ●     | 3             | 50              | 50 | 47  | 22 | 16.5 | 10.4 | 6.3 | 20 | 0.4         |                    | 1    |
|             | SKS-4050R-08-22 | ●     | 4             | 50              | 50 | 47  | 22 | 16.5 | 10.4 | 6.3 | 20 | 0.4         |                    | 1    |
|             | SKS-4052R-08-22 | ●     | 4             | 52              | 50 | 47  | 22 | 17   | 10.4 | 6.3 | 20 | 0.4         |                    | 1    |
|             | SKS-4063R-08-22 | ●     | 4             | 63              | 50 | 60  | 22 | 17   | 10.4 | 6.3 | 20 | 0.7         | WD※※08...          | 1    |
|             | SKS-4063R-08-27 | ●     | 4             | 63              | 50 | 60  | 27 | 20   | 12.4 | 7   | 22 | 0.7         |                    | 1    |
|             | SKS-4066R-08-27 | ●     | 4             | 66              | 50 | 61  | 27 | 20   | 12.4 | 7   | 22 | 0.7         |                    | 1    |
|             | SKS-5080R-08-27 | ●     | 5             | 80              | 55 | 76  | 27 | 37   | 12.4 | 7   | 22 | 1.6         |                    | 2    |
|             | SKS-6100R-08-32 | ●     | 6             | 100             | 55 | 96  | 32 | 45   | 14.4 | 8   | 32 | 1.9         |                    | 2    |
|             | SKS-3050R-10-22 | □     | 3             | 50              | 65 | 47  | 22 | 9.6  | 10.4 | 6.3 | 19 | 0.7         |                    | 3    |
|             | SKS-4063R-10-22 | ●     | 4             | 63              | 50 | 60  | 22 | 17   | 10.4 | 6.3 | 20 | 0.5         |                    | 1    |
|             | SKS-4063R-10-27 | ●     | 4             | 63              | 50 | 60  | 27 | 20   | 12.4 | 7   | 22 | 0.5         |                    | 1    |
|             | SKS-5080R-10-27 | ●     | 5             | 80              | 55 | 76  | 27 | 37   | 12.4 | 7   | 22 | 1.4         | WD※※10...          | 2    |
|             | SKS-6100R-10-32 | ●     | 6             | 100             | 55 | 96  | 32 | 45   | 14.4 | 8   | 32 | 1.7         |                    | 2    |
|             | SKS-6125R-10-40 | ●     | 6             | 125             | 55 | 85  | 40 | 60   | 16.4 | 9   | 35 | 3.1         |                    | 2    |
|             | SKS-7160R-10-40 | ●     | 7             | 160             | 55 | 120 | 40 | 85   | 16.4 | 9   | 35 | 4.6         |                    | 2    |

- Note) 1. All cutters are supplied without inserts.  
 2. Please refer page C027-C032 for recommended cutting conditions.  
 3. In case of using double clamp type please refer page C009.

Modular Head Type Please refer Page B012

## High Feed Diemaster

SKS<sub>TYPE</sub>

G-Body

Fine Pitch Type



Fig.1 Through Coolant Hole

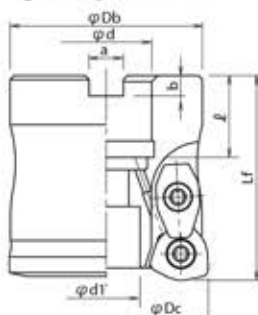
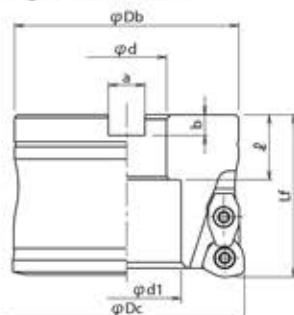


Fig.2 Without Coolant Hole



## BODY/FACE MILL TYPE

| Type        | Cat. No.        | Stock | No. of flutes | Dimensions (mm) |       |               |             |               |      |     |        | Weight (kg) | Applicable Inserts | Fig. |
|-------------|-----------------|-------|---------------|-----------------|-------|---------------|-------------|---------------|------|-----|--------|-------------|--------------------|------|
|             |                 |       |               | $\varphi D_c$   | $L_f$ | $\varphi D_b$ | $\varphi d$ | $\varphi d_1$ | a    | b   | $\ell$ |             |                    |      |
| Metric Bore | SKS-5050R-06-22 | ●     | 5             | 50              | 50    | 47            | 22          | 16.5          | 10.4 | 6.3 | 20     | 0.4         | WD※※06...          | 1    |
|             | SKS-5052R-06-22 | ●     | 5             | 52              | 50    | 47            | 22          | 17            | 10.4 | 6.3 | 20     | 0.6         | WD※※06...          | 1    |
|             | SKS-5063R-08-22 | ●     | 5             | 63              | 50    | 60            | 22          | 17            | 10.4 | 6.3 | 20     | 0.7         | WD※※08...          | 1    |
|             | SKS-5063R-08-27 | ●     | 5             | 63              | 50    | 60            | 27          | 20            | 12.4 | 7   | 22     | 0.7         | WD※※08...          | 1    |
|             | SKS-5066R-08-27 | ●     | 5             | 66              | 50    | 61            | 27          | 20            | 12.4 | 7   | 22     | 0.7         | WD※※08...          | 1    |
|             | SKS-6080R-08-27 | ●     | 6             | 80              | 55    | 76            | 27          | 37            | 12.4 | 7   | 22     | 1.2         | WD※※08...          | 2    |

- Note) 1. All cutters are supplied without inserts.  
 2. Please refer page C027-C032 for recommended cutting conditions.  
 3. In case of using double clamping mechanism type, please refer page C009.

Modular Head Type Please refer Page B012

## High Feed Diemaster

SKSTYPE

Through Coolant Hole



(p.16, p.17)



Face Milling



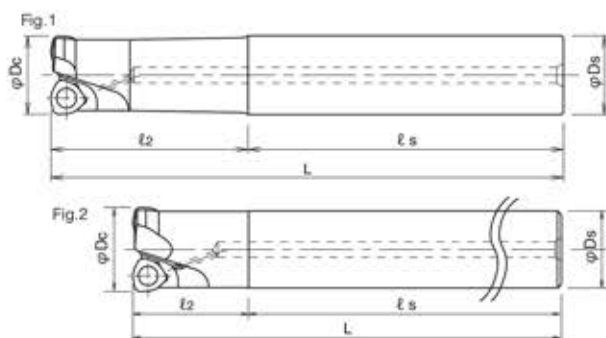
Pocket Milling



Copy Milling



Helical Interpolation



## BODY/END MILL TYPE

| Type             | Cat. No.         | Stock | No. of flutes | Dimensions (mm) |     |     |     |            | Applicable Inserts | Fig. |
|------------------|------------------|-------|---------------|-----------------|-----|-----|-----|------------|--------------------|------|
|                  |                  |       |               | φDc             | ℓ2  | ℓs  | L   | φDs        |                    |      |
| Regular type     | SKS-2016-20-S15  | ●     | 2             | 16              | 20  | 90  | 110 | 15         |                    | 2    |
|                  | SKS-2016-50-S16  | ●     | 2             | 16              | 50  | 60  | 110 | 16         | W0***04...         | 1    |
|                  | SKS-2017-20-S16  | ●     | 2             | 17              | 20  | 90  | 110 | 16         |                    | 2    |
|                  | SKS-2020-50-S20  | ●     | 2             | 20              | 50  | 80  | 130 | 20         | WD***05...         | 1    |
|                  | SKS-2021-50-S20  | ●     | 2             | 21              | 50  | 80  | 130 | 20         | WD***05...         | 1    |
|                  | SKS-2025-60-S25  | ●     | 2             | 25              | 60  | 80  | 140 | 25         | WD***06...         | 3    |
|                  | SKS-2026-60-S25  | ●     | 2             | 26              | 60  | 80  | 140 | 25         | WD***06...         | 3    |
|                  | SKS-2032-70-S32  | ●     | 2             | 32              | 70  | 80  | 150 | 32         | WD***08...         | 3    |
|                  | SKS-3032-70-S32  | ●     | 3             | 32              | 70  | 80  | 150 | 32         | WD***06...         | 3    |
| Long type        | SKS-2016-20L-S15 | ●     | 2             | 16              | 20  | 130 | 150 | 15         |                    | 2    |
|                  | SKS-2016-70-S16  | ●     | 2             | 16              | 70  | 80  | 150 | 16         | W0***04...         | 1    |
|                  | SKS-2017-20L-S16 | ●     | 2             | 17              | 20  | 130 | 150 | 16         |                    | 2    |
|                  | SKS-2020-100-S20 | ●     | 2             | 20              | 100 | 80  | 180 | 20         | WD***05...         | 1    |
|                  | SKS-2021-50L-S20 | ●     | 2             | 21              | 50  | 130 | 180 | 20         | WD***05...         | 1    |
|                  | SKS-2025-120-S25 | ●     | 2             | 25              | 120 | 80  | 200 | 25         | WD***06...         | 3    |
| SKS-2026-60L-S25 | ●                | 2     | 26            | 60              | 140 | 200 | 25  | WD***06... | 3                  |      |

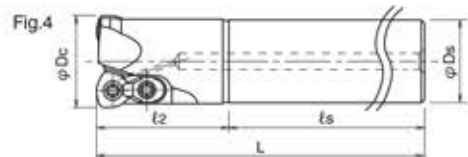
- Note) 1. All cutters are supplied without inserts.  
 2. Please refer page C027-C029, C033-C034 for recommended cutting conditions.  
 3. In case of using double clamping mechanism type, please refer page C009.

Modular Head Type Please refer Page B012

## High Feed Diemaster

SKSTYPE

## Through Coolant Hole



## BODY/END MILL TYPE


| Type       | Cat. No.         | Stock | No. of flutes | Dimensions (mm) |          |          |     |              | Applicable Inserts | Fig. |
|------------|------------------|-------|---------------|-----------------|----------|----------|-----|--------------|--------------------|------|
|            |                  |       |               | $\varphi Dc$    | $\ell 2$ | $\ell s$ | L   | $\varphi Ds$ |                    |      |
| Long type  | SKS-2032-120-S32 | ●     | 2             | 32              | 120      | 80       | 200 | 32           | WD※※08...          | 3    |
|            | SKS-3032-120-S32 | ●     | 3             | 32              | 120      | 80       | 200 | 32           | WD※※06...          | 3    |
| Extra Long | SKS-2020-130-S20 | ●     | 2             | 20              | 130      | 120      | 250 | 20           | WD※※05...          | 1    |
|            | SKS-2021-50E-S20 | □     | 2             | 21              | 50       | 200      | 250 | 20           | WD※※05...          | 1    |
|            | SKS-2025-180-S25 | ●     | 2             | 25              | 180      | 120      | 300 | 25           | WD※※06...          | 3    |
|            | SKS-2026-60E-S25 | □     | 2             | 26              | 60       | 240      | 300 | 25           | WD※※06...          | 3    |
|            | SKS-2032-180-S32 | □     | 2             | 32              | 180      | 120      | 300 | 32           | WD※※08...          | 3    |
|            | SKS-3032-180-S32 | ●     | 3             | 32              | 180      | 120      | 300 | 32           | WD※※06...          | 3    |

- Note) 1. All cutters are supplied without inserts.  
 2. Please refer page C027-C029, C033-C034 for recommended cutting conditions.  
 3. In case of using double clamping mechanism type, please refer page C009.

Modular Head Type Please refer Page B012

● : Standard stock items   □ : Stock in Japan   ○ : Soon to be deleted

## PARTS

| Applicable Inserts | Clamp screw | Clamp set   | Wrench  |
|--------------------|-------------|---|---|
|                    |             |  |  |
| WO※※04...          | TSW-2556H   | -   | A-08SD  |
| WD※※05...          | DSW-306H    | -   | A-10  |
| WD※※06...          | CSW-408H    | DCM-18  | A-15T FaceMillType<br>A-15 EndMillType  |
| WD※※08...          | DSW-4510H   | DCM-17  | A-20 FaceMillType<br>A-20SD EndMillType   |
| WD※※10...          | DSW-4512H   | DCM-17  | A-20  |

| Clamp Screw | Recommended Torque (N·m) |
|-------------|--------------------------|
| TSW-2556H   | 0.9                      |
| DSW-306H    | 1.8                      |
| CSW-408H    | 3.6                      |
| DSW-4510H   | 6.0                      |
| DSW-4512H   | 6.0                      |

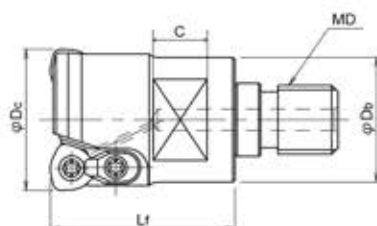
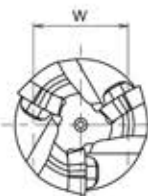
## High Feed Diemaster

MSH<sup>TYPE</sup>

G-Body

Standard Type

Through Coolant Hole



## BODY

| Cat No.      | Stock | No. of flutes | Dimensions (mm) |    |            |     |      | Inserts | Parts     |             |           |        |
|--------------|-------|---------------|-----------------|----|------------|-----|------|---------|-----------|-------------|-----------|--------|
|              |       |               | $\phi D_c$      | Lf | $\phi D_b$ | MD  | C    |         | W         | Clamp Screw | Clamp Set | Wrench |
| MSH-2016-M8  | ●     | 2             | 16              | 23 | 15         | M8  | 8    | 12      | WO※※04... | TSW-2556H   | -         | A-08SD |
| MSH-2017-M8  | ●     | 2             | 17              |    |            |     |      |         |           |             |           |        |
| MSH-2020-M10 | ●     | 2             | 20              | 30 | 19         | M10 | 9    | 14      | WD※※05... | DSW-306H    | -         | A-10   |
| MSH-2021-M10 | ●     | 2             | 21              |    |            |     |      |         |           |             |           |        |
| MSH-2025-M12 | ●     | 2             | 25              | 35 | 23.6       | M12 | 10   | 17      | WD※※06... | CSW-408H    | DCM-18    | A-15   |
| MSH-2026-M12 | ●     | 2             | 26              |    |            |     |      |         |           |             |           |        |
| MSH-2032-M16 | ●     | 2             | 32              | 43 | 29         | M16 | 12.5 | 22      | WD※※08... | DSW-4510H   | DCM-17    | A-20SD |
| MSH-3032-M16 | ●     | 3             | 32              |    |            |     |      |         | WD※※06... | CSW-408H    | DCM-18    | A-15   |
| MSH-2033-M16 | ●     | 2             | 33              | 43 | 29         | M16 | 12.5 | 22      | WD※※08... | DSW-4510H   | DCM-17    | A-20SD |
| MSH-3033-M16 | ●     | 3             | 33              |    |            |     |      |         | WD※※06... | CSW-408H    | DCM-18    | A-15   |
| MSH-2035-M16 | □     | 2             | 35              | 43 | 29         | M16 | 12.5 | 22      | WD※※08... | DSW-4510H   | DCM-17    | A-20SD |
| MSH-3035-M16 | ●     | 3             | 35              |    |            |     |      |         | WD※※06... | CSW-408H    | DCM-18    | A-15   |

Note) 1. Please refer page B015-B021 for recommended cutting conditions.

2. All cutters are supplied without inserts.

3. Please refer page B009 for recommended tightening torque.

4. In case of using double clamping mechanism type, please refer page B010 "Insert setup installation points of double clamping mechanism type"

Arbor B193

| Clamp Screw | Recommended Torque (N·m) |
|-------------|--------------------------|
| TSW-2556H   | 0.9                      |
| DSW-306H    | 1.8                      |
| CSW-408H    | 3.6                      |
| DSW-4510H   | 6.0                      |

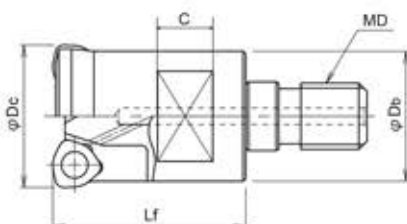
## High Feed Diemaster

MSH TYPE

G-Body

Fine Pitch Type

Through Coolant Hole



## BODY

| Cat. No.     | Stock | No. of flutes | Dimensions (mm) |    |           |     |    | Inserts | Parts     |             |        |
|--------------|-------|---------------|-----------------|----|-----------|-----|----|---------|-----------|-------------|--------|
|              |       |               | $\phi Dc$       | Lf | $\phi Db$ | MD  | C  |         | W         | Clamp Screw | Wrench |
| MSH-3020-M10 | ●     | 3             | 20              | 30 | 19        | M10 | 9  | 14      |           |             |        |
| MSH-3021-M10 | ●     | 3             | 21              | 30 | 19        | M10 | 9  | 14      | WO※※04... | TSW-2556H   | A-08SD |
| MSH-3025-M12 | ●     | 3             | 25              | 35 | 23.6      | M12 | 10 | 17      | WD※※05... | DSW-306H    | A-10   |
| MSH-3026-M12 | ●     | 3             | 26              | 35 | 23.6      | M12 | 10 | 17      |           |             |        |
| MSH-4032-M16 | □     | 4             | 32              | 43 | 29        | M16 | 12 | 22      |           |             |        |
| MSH-5040-M16 | ●     | 5             | 40              | 43 | 32        | M16 | 14 | 26      |           |             |        |

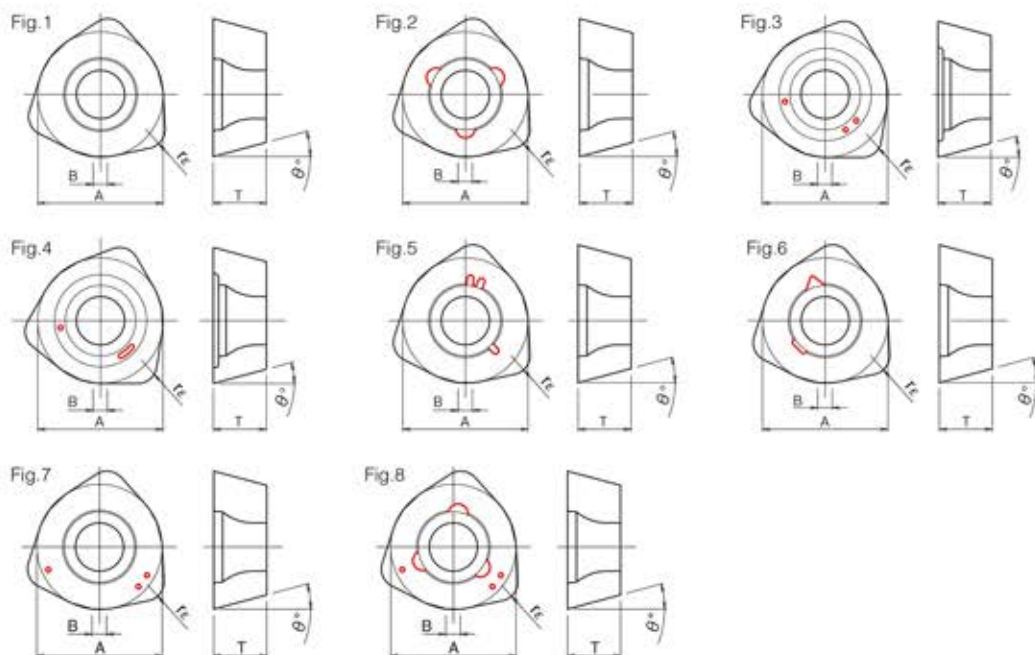
- Note) 1. Please refer page B015-B021 for recommended cutting conditions.  
 2. All cutters are supplied with out inserts.  
 3. Please refer page B009 for recommended tightening torque.

Arbor

B193

| Clamp Screw | Recommended Torque (N·m) |
|-------------|--------------------------|
| TSW-2556H   | 0.9                      |
| DSW-306H    | 1.8                      |

## ■ INSERT WITHOUT CHIPBREAKER



| Cat.No.       | Tolerance | Dimensions (mm) |      |     |     |    | PVD coated |         |         |        |         |
|---------------|-----------|-----------------|------|-----|-----|----|------------|---------|---------|--------|---------|
|               |           | A               | T    | B   | rε  | θ° | JC7560     | JC8015  | JC8050  | JC8118 | JC5040  |
| WOMW04T215ZER |           | 6.5             | 2.8  | 0.8 | 1.5 | 13 | ● Fig.1    | ● Fig.1 | ● Fig.1 | ●      | ● Fig.2 |
| WDMW050316ZER |           | 8               | 3.2  | 1   | 1.6 | 15 |            |         | ● Fig.4 |        |         |
| WDMW050316ZTR |           | 8               | 3.2  | 1   | 1.6 | 15 | ● Fig.1    | ● Fig.1 | ● Fig.1 | ●      | ● Fig.2 |
| WDMW06T320ZER |           | 10              | 3.97 | 1.2 | 2   | 15 |            |         | ● Fig.4 |        |         |
| WDMW06T320ZTR | M         | 10              | 3.97 | 1.2 | 2   | 15 | ● Fig.1    | ● Fig.1 | ● Fig.1 | ●      | ● Fig.2 |
| WDMW080520ZER |           | 13              | 5.5  | 1.5 | 2   | 15 |            |         | ● Fig.4 |        |         |
| WDMW080520ZTR |           | 13              | 5.5  | 1.5 | 2   | 15 | ● Fig.5    | ● Fig.5 | ● Fig.5 | ●      | ● Fig.6 |
| WDMW10X620ZER |           | 16              | 6    | 2   | 2   | 15 |            |         | ● Fig.4 |        |         |
| WDMW10X620ZTR |           | 16              | 6    | 2   | 2   | 15 | ● Fig.7    | ● Fig.7 | ● Fig.7 | ●      | ● Fig.8 |

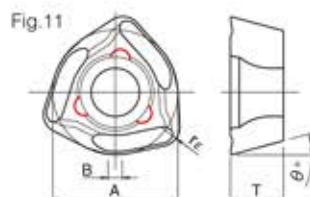
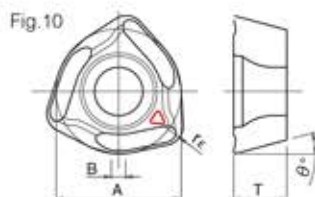
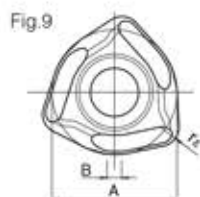
10 inserts per case

## High Feed Diemaster

SKSTYPE

## ■ INSERT WITH CHIPBREAKER

PVD Coated



| Cat. No.      | Tolerance | Dimensions (mm) |      |     |     |                | PVD coated |         |          |        |
|---------------|-----------|-----------------|------|-----|-----|----------------|------------|---------|----------|--------|
|               |           | A               | T    | B   | rE  | $\theta^\circ$ | JC7560     | JC8015  | JC8050   | JC8118 |
| WOMT04T215ZER |           | 6.5             | 2.8  | 0.8 | 1.5 | 13             | ● Fig.11   | ● Fig.9 | ● Fig.11 | ●      |
| WDMT050316ZER |           | 8               | 3.2  | 1   | 1.6 | 15             | ● Fig.10   | ● Fig.9 | ● Fig.10 | ●      |
| WDMT06T320ZER | M         | 10              | 3.97 | 1.2 | 2   | 15             | ● Fig.10   | ● Fig.9 | ● Fig.10 | ●      |
| WDMT080520ZER |           | 13              | 5.5  | 1.5 | 2   | 15             | ● Fig.10   | ● Fig.9 | ● Fig.10 | ●      |
| WDMT10X620ZER |           | 16              | 6    | 2   | 2   | 15             | ● Fig.10   | ● Fig.9 | ● Fig.10 | ●      |

10 inserts per case