

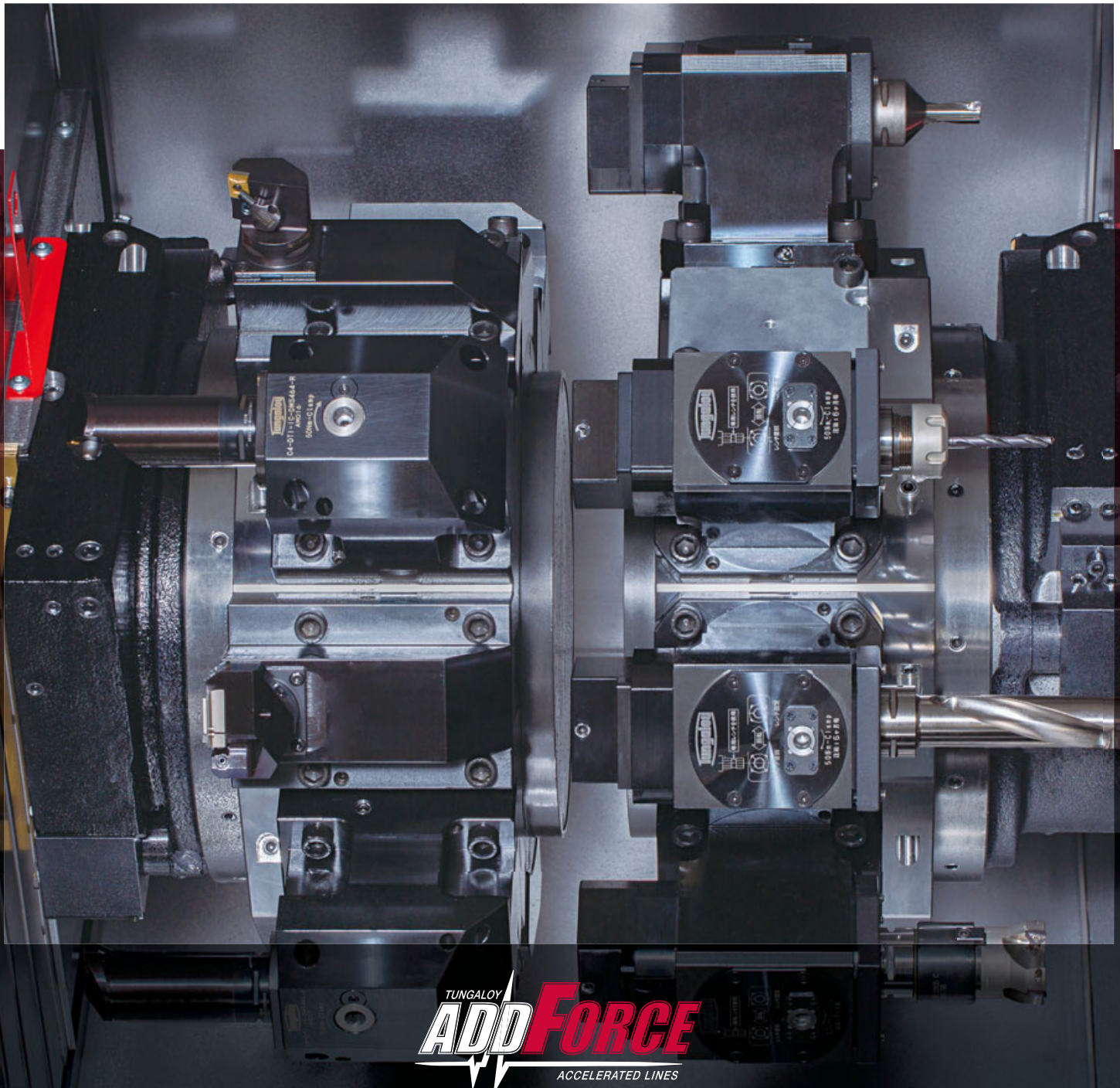


PSC Tooling

**TUNG**CAP

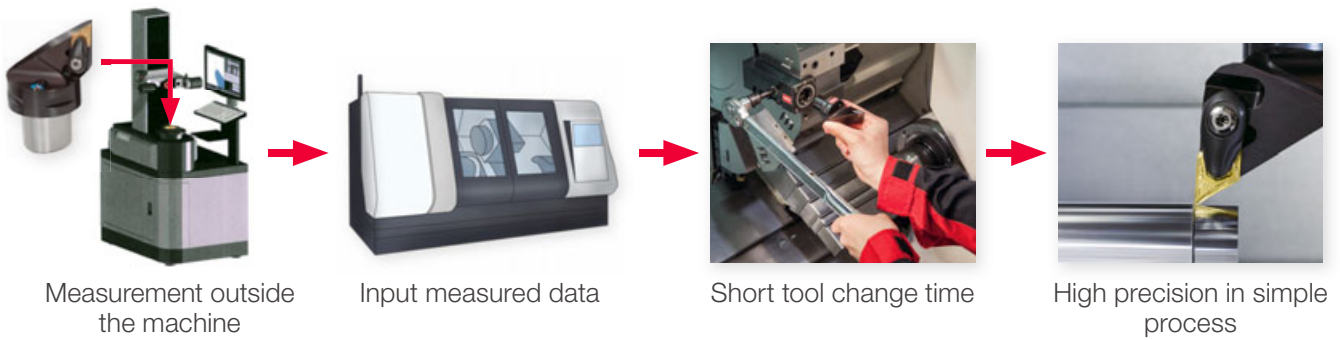
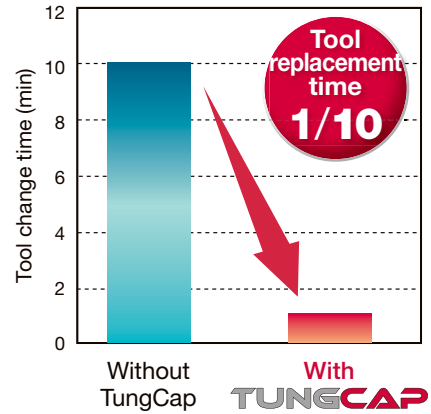
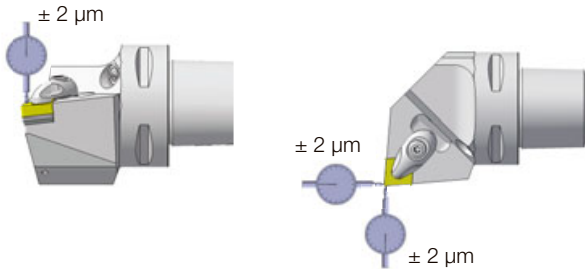
Tungaloy Report No. 410S4-G

# Expansion of PSC clamping units for CNC turning centers & lathes

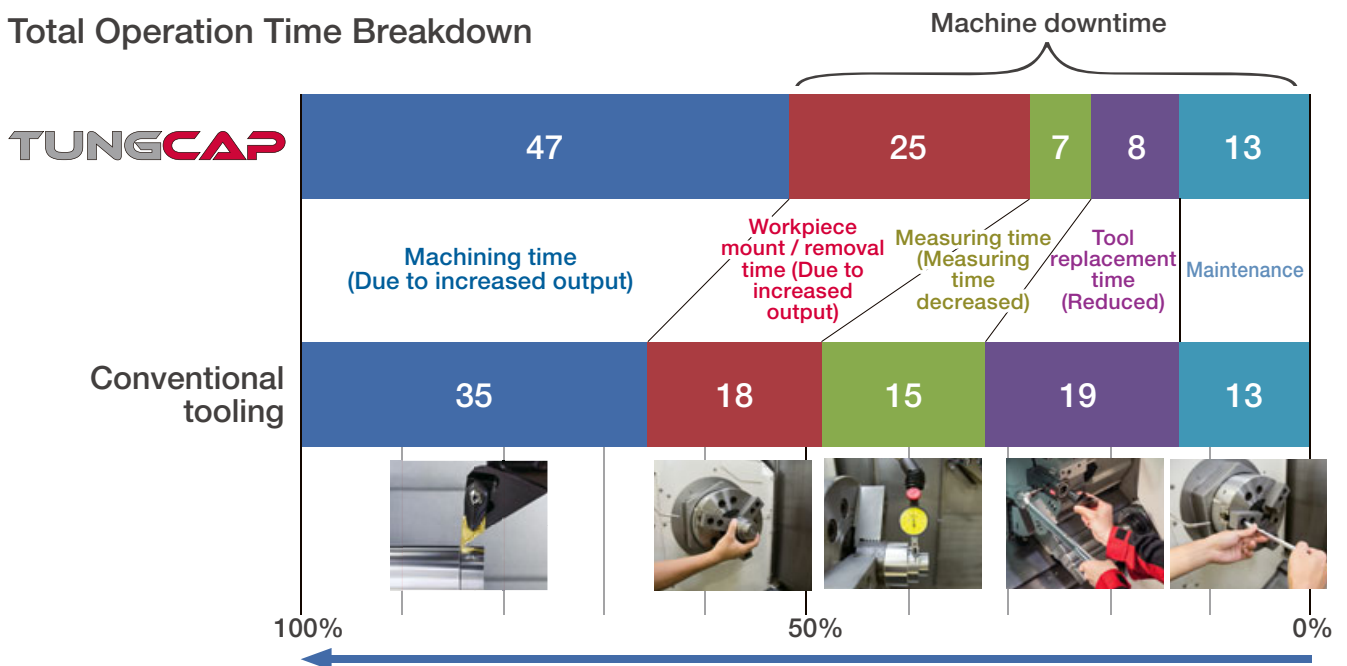


## Reduced downtime

- High repeatability of the edge position during tool change up to  $\pm 2 \mu\text{m}$
- In measuring, tool setup and changing

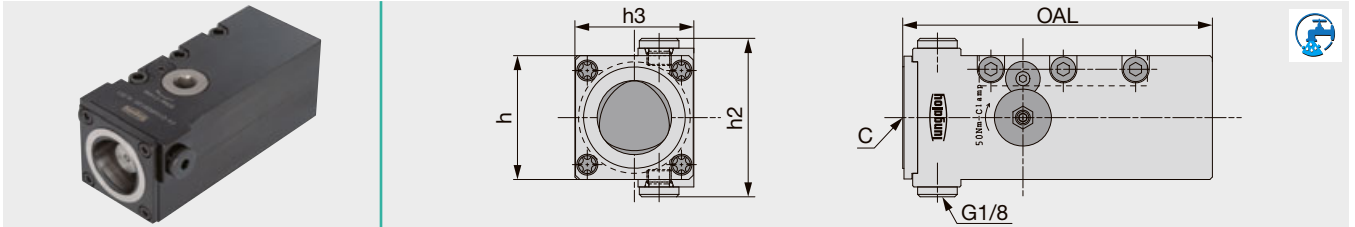


## Total Operation Time Breakdown



## C-DTOSR/L

Manual clamping unit, square shank



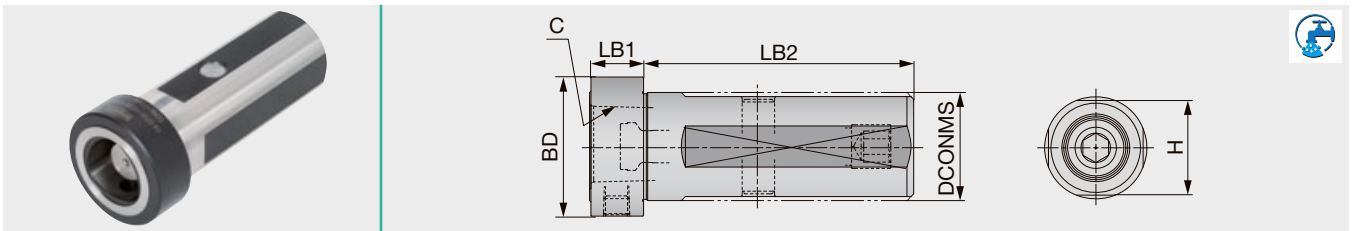
| Designation    | C  | Turret size h | h3 | h2 | OAL | Torque <sup>(1)</sup> |
|----------------|----|---------------|----|----|-----|-----------------------|
| C3-DTOS4038R/L | C3 | 40            | 38 | 62 | 95  | 35                    |
| C4-DTOS5048R/L | C4 | 50            | 48 | 64 | 125 | 50                    |
| C5-DTOS6464R/L | C5 | 60            | 64 | 68 | 145 | 70                    |

Applicable for 7 MPa coolant

(1) Recommended clamping torque (N-m)

## C-DTIR

Manual clamping unit, round shank



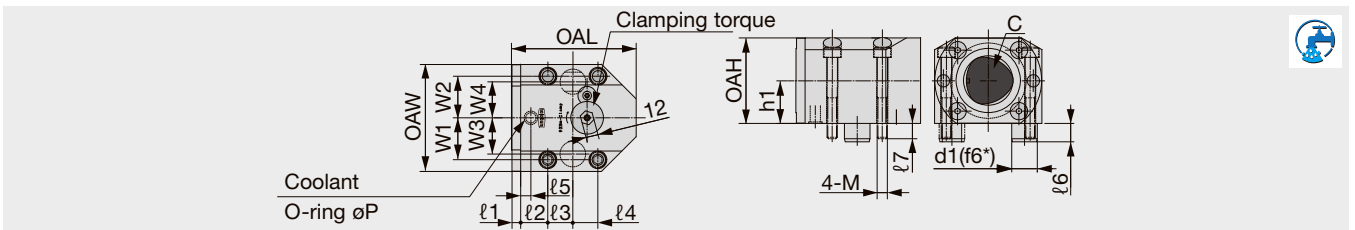
| Designation       | C  | DCONMS | BD   | H  | LB2 | LB1 | Torque <sup>(1)</sup> |
|-------------------|----|--------|------|----|-----|-----|-----------------------|
| C3-DTIR-08018-D32 | C3 | 32     | 41.5 | 30 | 80  | 18  | 35                    |
| C4-DTIR-10020-D40 | C4 | 40     | 51.5 | 37 | 100 | 20  | 50                    |
| C4-DTIR-12020-D50 | C4 | 50     | 51.5 | 47 | 120 | 20  | 50                    |
| C5-DTIR-12024-D50 | C5 | 50     | 61.5 | 47 | 120 | 24  | 70                    |

Applicable for 7 MPa coolant

(1) Recommended clamping torque (N-m)

## C-DTOFR/L

Manual clamping unit, fixed type



| Designation     | C  | OAH | h1 | OAL | OAW | W1 | W2   | W3 | W4   | l1   | l2 | l3 | l4 | l5 | l6  | l7  | d1(f6*) | P | M | Torque <sup>(1)</sup> |
|-----------------|----|-----|----|-----|-----|----|------|----|------|------|----|----|----|----|-----|-----|---------|---|---|-----------------------|
| C5-DTOFR/L32048 | C5 | 64  | 32 | 100 | 92  | 35 | 31   | 8  | 19   | 21   | 7  | 11 | 15 | 20 | P8  | M10 | 70      |   |   |                       |
| C6-DTOFR/L42060 | C6 | 84  | 42 | 122 | 105 | 41 | 35.5 | 9  | 26.5 | 24.5 | 10 | 18 | 15 | 25 | P10 | M10 | 90      |   |   |                       |
| C8-DTOFR/L50088 | C8 | 100 | 50 | 146 | 133 | 55 | 46   | 12 | 33   | 43   | 13 | 19 | 20 | 32 | P11 | M12 | 130     |   |   |                       |

Applicable for 7 MPa coolant

\*f6 tolerance: d20 & 25 = -0.022 / -0.033, d32 = -0.025 / -0.041

(1) Recommended clamping torque (N-m)



## PSC clamping unit for major machine brands

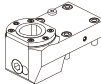

| Machine makers   | Page |
|--|------|
| Officine E. Biglia & C. S.p.a. (BIGLIA)                    | p.5  |
| Chiah Chyun Machinery co.,Ltd. (CHIAH CHYUN)               | p.5  |
| CMZ UK Ltd. (CMZ)  | p.6  |
| DMG MORI Co., Ltd. (DMG MORI)                              | p.8  |
| DN Solutions (DOOSAN)                                      | p.12 |
| Diplomatic Automation SPA (DIPLOMATIC)                     | p.16 |
| EMAG Maschinenfabrik GmbH (EMAG)                           | p.16 |
| EMCO GmbH (EMCO)   | p.18 |
| Goodway Machine Corp. (GOODWAY)                            | p.19 |
| Haas Automation, Inc (HAAS)                                | p.23 |
| Hwacheon Machinery Co., Ltd. (HWACHEON)                    | p.24 |
| Hyundai wia Machine Tools (KIA)                            | p.26 |
| Yamazaki Mazak Corporation (MAZAK)                         | p.29 |
| Citizen Machinery Co., Ltd. (MIYANO)                       | p.31 |
| MT EVO GmbH (MT RENT)                                      | p.32 |
| Murata Machinery, Ltd. (MURATEC)                           | p.33 |
| Nakamura-Tome Precision Industry Co., Ltd. (NAKAMURA-TOME) | p.35 |
| Okuma Corporation (OKUMA)                                  | p.39 |
| Romi Machine Tools, Ltd. (ROMI)                            | p.42 |
| SMEC Co., Ltd. (SAMSUNG)                                   | p.45 |
| Spinner Machine Tools (SPINNER)                            | p.47 |
| Takamaz Machinery Co., Ltd. (TAKAMAZ)                      | p.49 |
| Takisawa Machine Tool Co., Ltd. (TAKISAWA)                 | p.52 |
| Victor Machinery Solutions, Inc. (VICTOR)                  | p.55 |
| Yeong Chin Machinery Industries Co., Ltd. (YCM)            | p.58 |

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit.  
These units are designed for the use on the metric turret



# BIGLIA



B301/445/470/501Y/S/510/545/550/565/620/650/658/1200  
 B446/465/745/765, B750/1250 16ST., BV210/315

| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C5   |  | BGL0675010/LC | 46     |
| AXIAL SINGLE REAR SET STATIC TOOL  | External, Internal | C5   |  | BGL0685010/LC | 100    |

Description for L hand added "LC"  
 H: Center height position



# CHIAH CHYUN

CT1/CT2/CT3-52/65 YM/Y2M/Y2MS

| Application                       | Coolant  | Size | Fig.   | Description   | H (mm) |
|-----------------------------------|----------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL          | Internal | C4   |  | NKM0874010/LC | 75     |
| AXIAL SINGLE REAR SET STATIC TOOL | Internal | C4   |  | NKM1064010/LC | 75     |

Description for L hand added "LC"  
 H: Center height position












WTS-52/65 Y2M 16ST., ML-250

| Application                       | Coolant            | Size | Fig.   | Description   | H (mm) |
|-----------------------------------|--------------------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL          | External, Internal | C4   |  | DWO3804010/LC | 85     |
| AXIAL SINGLE REAR SET STATIC TOOL | Internal           | C4   |  | DWO2434010/LC | 85     |

Description for L hand added "LC"  
 H: Center height position

## CMZ

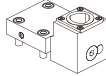

TL25AM/AMS/BM/BMS, TL20M/MS/TM, TA15/20/25/30M/Y/MS/MY/YS  
 TC15/20/25/30/35M/Y/MS/MY/YS, TD15/20/25/30/35/45/55M/Y/MS/MY/YS

| Application                                    | Coolant                     | Size | Fig.   | Description   | H (mm) |
|--|-----------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL 6,000 RPM                   | External                    | C4   |    | MSL0060140    | 20     |
|  | External,<br>Internal 7 Mpa | C4   |  | MSL0060240    | 20     |
| RADIAL DRIVEN TOOL 12000 RPM<br>12,000 RPM     | External                    | C4   |    | MSL0320140    | 20     |
|  | External,<br>Internal 7 Mpa | C4   |  | MSL0320240    | 20     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                 | External                    | C4   |    | MSL0050140    | 55     |
|  | External,<br>Internal 7 Mpa | C4   |  | MSL0050240    | 55     |
| AXIAL DRIVEN TOOL<br>12,000 RPM                | External                    | C4   |    | MSL0310140    | 55     |
|  | External,<br>Internal 7 Mpa | C4   |  | MSL0310240    | 55     |
| AXIAL DRIVEN TOOL FOR SUBSPINDLE<br>6,000 RPM  | External                    | C4   |    | MSL0590140    | 55     |
|  | External,<br>Internal 7 Mpa | C4   |  | MSL0590240    | 55     |
| AXIAL DRIVEN TOOL FOR SUBSPINDLE<br>12,000 RPM | External                    | C4   |   | MSL0600140    | 55     |
|  | External,<br>Internal 7 Mpa | C4   |  | MSL0600240    | 55     |
| RADIAL SINGLE REAR SET STATIC TOOL             | Internal                    | C4   |  | MSL0044010/LC | 25     |
| RADIAL SINGLE REAR SET STATIC TOOL             | Internal                    | C5   |  | MSL0045010/LC | 40     |
| AXIAL SINGLE STATIC TOOL                       | Internal                    | C4   |  | MSL0034010/LC | 40     |
| AXIAL SINGLE STATIC TOOL                       | Internal                    | C5   |  | MSL0035010/LC | 40     |
| AXIAL OPPOSITE FACE TWIN STATIC TOOL           | External, Internal          | C4   |  | MSL0564020/LC | 40, 82 |

Description for L hand added "LC"  
 RPM: maximum number of revolutions  
 H: Center height position

# CMZ











TX52Y3/Y2, QUATTRO Y2/TW/IN, TTL52  
TX66Y3/Y2, QUATTRO Y2/TW/IN, TTL66  
TA15/20/25/30 M/Y/MS/MY/YS 15ST.

| Application                        | Coolant  | Size | Fig.   | Description   | H (mm) |
|------------------------------------|----------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | Internal | C4   |  | NKM1514010/LC | 55     |
| AXIAL SINGLE REAR SET STATIC TOOL  | Internal | C4   |  | NKM1524010/LC | 75     |

Description for L hand added "LC"  
H: Center height position

## DMG MORI

NL1500/200/2500 12 ST., NLX1500/2000/2500/3000 12ST., NLX4000  
 NZL2000/25000, NZX2500 (BMT60), NT4200/4250/4300/5400  
 NTX2000/2500/3000 2ND GEN.10 ST., CTX2500 (BMT60)

| Application  | Coolant                     | Size  | Fig.   | Description                         | H (mm) |
|--|-----------------------------|-------|--|-------------------------------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | MNL0530140                          | 70     |
|  | External                    | C4    |  | C4-DDC-OC-DMS444 <sup>*1)</sup>     | 59     |
|  | External                    | C4    |  | C4-DDC-OC-DMS454 <sup>*2)</sup>     | 58     |
|  | External, Internal          | C4    |  | C4-DDC-WC-DMS445 <sup>*3)</sup>     | 85     |
|  | External                    | C5    |  | MNL0530150                          | 70     |
| RADIAL DRIVEN TOOL<br>10,000 RPM                   | External                    | C4    |    | MNL0810140                          | 70     |
|  | External                    | C5    |  | MNL0810150                          | 70     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                     | External, Internal          | C4    |    | C4-DDS-WC-DMS441 <sup>*4)</sup>     | 80     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                     | External                    | C4    |   | MNL0520140                          | 90     |
|  | External, Internal          | C4    |  | C4-DDS-WC-DMS446 <sup>*3)</sup>     | 90     |
|  | External,<br>Internal 7 Mpa | C4    |  | MNL0520240                          | 90     |
|  | External                    | C5    |  | MNL0520150                          | 90     |
|  | External,<br>Internal 7 Mpa | C5    |  | MNL0520250                          | 90     |
| AXIAL DRIVEN TOOL<br>10,000 RPM                    | External                    | C4    |  | MNL0800140                          | 90     |
|  | External,<br>Internal 7 Mpa | C4    |  | MNL0800240                          | 90     |
|  | External                    | C5    |  | MNL0800150                          | 90     |
|  | External,<br>Internal 7 Mpa | C5    |  | MNL0800250                          | 90     |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>10,000 RPM | External                    | C4+C4 |  | MNL1170240                          | 90     |
| RADIAL DRIVEN TOOL<br>6,000 RPM                    | Internal                    | C4    |  | MNL0464010/LC                       | 90     |
|  | Internal                    | C4    |  | C4-DTO-IC-DMS443-R/L <sup>*1)</sup> | 75     |
|  | Internal                    | C4    |  | C4-DTO-IC-DMS458-R/L <sup>*2)</sup> | 75     |
|  | Internal                    | C4    |  | C4-DTO-IC-DMS408-R/L <sup>*2)</sup> | 40     |
|  | Internal                    | C5    |  | MNL0465010/LC                       | 95     |
|  | Internal                    | C5    |  | MNL0465015/LC                       | 95     |
|  | Internal                    | C6    |  | MNL0466010/LC                       | 108    |
| RADIAL DOUBLE STATIC TOOL                          | Internal                    | C4    |  | MNL0474020/LC                       | 90     |
|  | Internal                    | C5    |  | MNL0475020/LC                       | 95     |
| RADIAL DOUBLE 2+2 STATIC TOOL                      | Internal                    | C3    |  | MNL0483240/LC                       | 105    |
| RADIAL DOUBLE 3+3 STATIC TOOL                      | Internal                    | C3    |  | MNL0483260/LC                       | 105    |

Description for L hand added "LC" or "L", RPM: maximum number of revolutions, H: Center height position

\*1) For NL/NLX1500-2500 NZX2500 12ST., NZX2500 L/MC/Y 12ST is for only upper turret

\*2) For NL/NLX1500-2500 NZX2500 12ST., NZX2500 L/MC/Y 12ST is for only lower turret





\*3) For NL/NLX1500-2500 NZX2500 12ST., NZX2500 L/MC/Y 12ST is for only upper turret NZX2500 L/MC/Y upper 12 ST. and lower 8 ST. is only for upper turret

\*4) For NL/NLX1500-2500 NZX2500 12ST., NZX2500 L/MC/Y 12ST is for only lower turret NZX2500 L/MC/Y upper 12 ST. and lower 8 ST. is only for upper turret



# DMG MORI

NL1500/200/2500 12 ST. NLX1500/2000/2500/3000 12ST., NLX4000  
 NZL2000/25000, NZX2500 (BMT60), NT4200/4250/4300/5400, NTX2000/2500/3000 2ND GEN.10 ST., CTX2500 (BMT60)

| Application                          | Coolant            | Size | Fig.  | Description                         | H (mm) |
|--------------------------------------|--------------------|------|---|-------------------------------------|--------|
| AXIAL SINGLE STATIC TOOL             | Internal           | C4   |   | MNL0494010/LC                       | 90     |
|                                      | Internal           | C4   |   | C4-DTI-IC-DMS402-R/L <sup>*1)</sup> | 90     |
|                                      | Internal           | C4   |   | C4-DTI-IC-DMS409-R/L <sup>*2)</sup> | 90     |
|                                      | External, Internal | C5   |   | MNL0495010/LC                       | 90     |
|                                      | Internal           | C5   |   | MNL0495015/LC                       | 120    |
| AXIAL SINGLE STATIC TOOL             | Internal           | C6   |   | MNL0496010/LC                       | 90     |
|                                      | External, Internal | C6   |   | MNL1196010/LC                       | 90     |
| AXIAL SINGLE REAR SET STATIC TOOL    | Internal           | C4   |   | MNL0514010/LC                       | 90     |
|                                      | Internal           | C5   |   | MNL0515010/LC                       | 90     |
| AXIAL OPPOSITE FACE TWIN STATIC TOOL | External, Internal | C4   |  | MNL0504020/LC                       | 90     |

Description for L hand added "LC" or "L"

RPM: maximum number of revolutions

H: Center height position

\*1) For NL/NLX1500-2500 NZX2500 12ST., NZX2500 L/MC/Y 12ST is for only upper turret



\*2) For NL/NLX1500-2500 NZX2500 12ST., NZX2500 L/MC/Y 12ST is for only lower turret

\*3) For NL/NLX1500-2500 NZX2500 12ST., NZX2500 L/MC/Y 12ST is for only upper turret  
 NZX2500 L/MC/Y upper 12 ST. and lower 8 ST. is only for upper turret

\*4) For NL/NLX1500-2500 NZX2500 12ST., NZX2500 L/MC/Y 12ST is for only lower turret  
 NZX2500 L/MC/Y upper 12 ST. and lower 8 ST. is only for upper turret

# DMG MORI

NLX6000, NZX4000






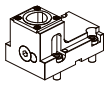





| Application                     | Coolant                     | Size | Fig.   | Description | H (mm) |
|---------------------------------|-----------------------------|------|--|-------------|--------|
| RADIAL DRIVEN TOOL<br>8,000 RPM | External,<br>Internal 7 Mpa | C6   |  | NZL0090260  | 100    |
| AXIAL DRIVEN TOOL<br>8,000 RPM  | External                    | C4   |  | NZL0100160  | 105    |
|                                 | External,<br>Internal 7 Mpa | C5   |  | NZL0100260  | 105    |

RPM: maximum number of revolutions

H: Center height position

## DMG MORI

NZ1500/2000, NZX1500/2000, NZX2500 (BMT40), NT3100/3150/3200  
 NRX2000, NL1500/2000/2500 20ST., NLX1500/2000/2500 20ST.  
 NT1000/2000, NTX1000/2000, NTX1000/2000/2500/3000 2ND GEN.12ST.  
 DURATURN 2050MC/2550MC, ALX1500/2000/2500, ECPTURN 450(BMT40)

| Application                       | Coolant                     | Size | Fig.   | Description                         | H (mm) |
|-----------------------------------|-----------------------------|------|--|-------------------------------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM   | External                    | C3   |    | MNZ0330130                          | 54     |
|                                   | External                    | C4   |  | MNZ0330140                          | 63     |
|                                   | External                    | C4   |  | C4-DDC-OC-DMS454 <sup>*1)</sup>     | 58     |
| RADIAL DRIVEN TOOL<br>12,000 RPM  | External                    | C3   |    | MNZ0500130                          | 54     |
|                                   | External                    | C4   |  | MNZ0500140                          | 63     |
| AXIAL DRIVEN TOOL<br>6,000 RPM    | External, Internal          | C4   |    | C4-DDS-WC-DMS441 <sup>*1)</sup>     | 80     |
| AXIAL DRIVEN TOOL<br>6,000 RPM    | External                    | C3   |   | MNZ0320130                          | 85     |
|                                   | External,<br>Internal 7 Mpa | C3   |  | MNZ0320230                          | 85     |
|                                   | External                    | C4   |  | MNZ0320140                          | 85     |
|                                   | External,<br>Internal 7 Mpa | C4   |  | MNZ0320240                          | 85     |
| AXIAL DRIVEN TOOL<br>12,000 RPM   | External                    | C3   |  | MNZ0510130                          | 85     |
|                                   | External,<br>Internal 7 Mpa | C3   |  | MNZ0510230                          | 85     |
|                                   | External                    | C4   |  | MNZ0510140                          | 85     |
|                                   | External,<br>Internal 7 Mpa | C4   |  | MNZ0510240                          | 85     |
| RADIAL SINGLE STATIC TOOL         | Internal                    | C3   |  | MNZ0253210/LC                       | 75     |
|                                   | Internal                    | C4   |  | MNZ0254010/LC                       | 75     |
|                                   | Internal                    | C4   |  | C4-DTO-IC-DMS458-R/L <sup>*1)</sup> | 75     |
|                                   | Internal                    | C4   |  | C4-DTO-IC-DMS408-R/L <sup>*2)</sup> | 40     |
|                                   | Internal                    | C4   |  | C4-DTO-IC-DMS461-R/L <sup>*3)</sup> | 59     |
| RADIAL DOUBLE STATIC TOOL         | Internal                    | C3   |  | MNZ0263220/LC                       | 75     |
|                                   | Internal                    | C4   |  | MNZ0264020/LC                       | 75     |
| AXIAL SINGLE STATIC TOOL          | External, Internal          | C3   |  | MNZ0273210/LC                       | 100    |
|                                   | External, Internal          | C4   |  | MNZ0274010/LC                       | 100    |
|                                   | External, Internal          | C4   |  | C4-DTI-IC-DMS409-R/L <sup>*1)</sup> | 100    |
| AXIAL SINGLE REAR SET STATIC TOOL | Internal                    | C4   |  | MNZ0294010/LC                       | 100    |
| AXIAL SINGLE REAR SET STATIC TOOL | Internal                    | C4   |  | MNZ0604010/LC                       | 145    |
| AXIAL SINGLE REAR SET STATIC TOOL | Internal                    | C3   |  | MNZ0283220/LC                       | 100    |
|                                   | External, Internal          | C4   |  | MNZ0284020/LC                       | 100    |

Description for L hand added "LC" or "L", RPM: maximum number of revolutions, H: Center height position









\*1) For NL/NLX2000 20ST., NZX1500-2000 16ST., NTX1000-3000 2nd Gen.10 ST., NTX2000-3000 2nd 12ST.

\*2) For NL/NLX2000 20ST. and NZX1500-2000 16ST. Is only Lhand spindle, NZX2500 is only lower turret

\*3) For NL/NLX2000 20ST., NZX1500-2000 16ST 2 turret Is only R hand spindle, NZX 16ST 3 turret is only L hand spindle

# DMG MORI


SL-ZL200/203/204/250/253/254 MC/SMC  
SL2500Y, DL-ZL200/250 MC

| Application                                      | Coolant                     | Size | Fig.   | Description   | H (mm) |
|--|-----------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                  | External                    | C4   |    | MSL0060140    | 20     |
|  | External,<br>Internal 7 Mpa | C4   |  | MSL0060240    | 20     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                   | External                    | C4   |    | MSL0050140    | 55     |
|  | External,<br>Internal 7 Mpa | C4   |  | MSL0050240    | 55     |
| AXIAL DRIVEN TOOL FOR<br>SUBSPINDLE<br>6,000 RPM | External                    | C4   |    | MSL0590140    | 55     |
|  | External,<br>Internal 7 Mpa | C4   |  | MSL0590240    | 55     |
| RADIAL SINGLE REAR SET STATIC TOOL               | Internal                    | C4   |    | MSL0044010/LC | 25     |
| RADIAL SINGLE REAR SET STATIC TOOL               | Internal                    | C5   |   | MSL0045010/LC | 40     |
| AXIAL SINGLE STATIC TOOL                         | Internal                    | C4   |  | MSL0034010/LC | 40     |
| AXIAL SINGLE STATIC TOOL                         | Internal                    | C5   |  | MSL0035010/LC | 40     |
| AXIAL OPPOSITE FACE TWIN<br>STATIC TOOL          | Internal                    | C4   |  | MSL0564020/LC | 40, 82 |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## DOOSAN BMT 45




LYNX 200 M/LM, LMS/LY/LSY  
 LYNX 2100 M/LM/LMS/LY/LSY, PUMA MX16000 16ST.  
 PUMA TW2100M 10ST., PUMA TT13000SY/SYY

| Application              | Coolant            | Size | Fig.   | Description   | H (mm) |
|--------------------------|--------------------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL | External, Internal | C4   |  | DWO3374010/LC | 85     |

Description for L hand added "LC"  
 H: Center height position

## DOOSAN BMT 55

PUMA230/PUMA 240M-MS/PUMA 280LM/PUMA H250TM  
 PUMA1500/2000/2100/2500/2600 M/MS/Y/SY, LYNX 300M  
 PUMA2100/2600Y/SY 16ST. /PUMA TW2600 10ST.  
 PUMA TT1500/1800/2100 MS/SY/SYY/PUMA TL2000/2500  
 MMX1600/2100ST 12ST./SMX2100ST/PUMA GT2100/2600M  
 PUMA QL200HM/LYNX2600 Y/SY 12ST./16ST.








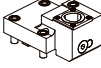
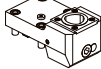
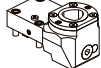

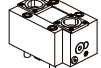
| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C4   |  | DWO0444010/LC | 40     |
| AXIAL SINGLE STATIC TOOL           | External, Internal | C4   |  | DWO3804010/LC | 85     |
| AXIAL SINGLE REAR SET STATIC TOOL  | Internal           | C4   |  | DWO2434010/LC | 85     |

Description for L hand added "LC"  
 H: Center height position



# DOOSAN BMT 65






PUMA300M/MS - V400M - TT2000SY/2500SY/2500MS  
PUMA2100/2600M/MS/Y/SY (BMT65), PUMA3100M/Y  
MX2000ST/2500 LT/ST/LST, MX2600 T/ST  
VT450 M-TM, PUMA INVERTURN 3000M  
PUMA GT3100M, SMX2600/3100ST

| Application                                       | Coolant                     | Size  | Fig.   | Description   | H (mm) |
|---|-----------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                   | External                    | C4    |    | DWO3150140    | 62     |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3150240    | 62     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3080140    | 72     |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3080240    | 72     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3110140    | 85     |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3110240    | 85     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3120140    | 95     |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3120240    | 95     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |   | DWO3130140    | 100    |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3130240    | 100    |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |  | DWO3140240    | 85     |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |  | DWO3770240    | 100    |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C4    |  | DWO1384010/LC | 60     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C5    |  | DWO3505010/LC | 50     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C6    |  | DWO3176010/LC | 70     |
| RADIAL DOUBLE STATIC TOOL                         | External, Internal          | C4    |  | DWO3954020/LC | 70     |
| RADIAL DOUBLE STATIC TOOL                         | External, Internal          | C4    |  | DWO3424020/LC | 80     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## DOOSAN BMT 65




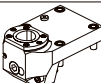
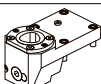
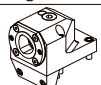
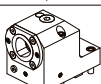
PUMA300M/MS - V400M - TT2000SY/2500SY/2500MS  
 PUMA2100/2600M/MS/Y/SY (BMT65), PUMA3100M/Y  
 MX2000ST/2500 LT/ST/LST, MX2600 T/ST  
 VT450 M-TM, PUMA INVERTURN 3000M  
 PUMA GT3100M, SMX2600/3100ST

| Application                                      | Coolant            | Size | Fig.   | Description   | H (mm) |
|--|--------------------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL                         | Internal           | C4   |    | DWO2644010/LC | 72     |
| AXIAL SINGLE STATIC TOOL                         | External, Internal | C4   |    | DWO3414010/LC | 115    |
| AXIAL SINGLE STATIC TOOL                         | External, Internal | C5   |    | DWO3515010/LC | 100    |
| AXIAL SINGLE STATIC TOOL                         | External, Internal | C6   |    | DWO3166010/LC | 100    |
| AXIAL OPPOSITE FACE REAR SET<br>TWIN STATIC TOOL | External, Internal | C4   |  | DWO3404020/LC | 115    |

Description for L hand added "LC"  
 H: Center height position

# DOOSAN BMT 75




PUMA400 /480 M/LM/XLM  
PUMA4100M/5100M/Y  
V550 - VT750M/TM, V8300M

| Application                        | Coolant                     | Size | Fig.   | Description   | H (mm) |
|------------------------------------|-----------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM    | External,<br>Internal 7 Mpa | C5   |    | DWO3030250    | 77     |
| AXIAL DRIVEN TOOL<br>6,000 RPM     | External                    | C4   |    | DWO0610140    | 60     |
|                                    | External,<br>Internal 7 Mpa | C4   |  | DWO0610240    | 60     |
|                                    | External                    | C5   |  | DWO0610150    | 60     |
|                                    | External,<br>Internal 7 Mpa | C5   |  | DWO0610250    | 60     |
| AXIAL DRIVEN TOOL<br>6,000 RPM     | External                    | C4   |   | DWO3430140    | 110    |
|                                    | External,<br>Internal 7 Mpa | C4   |  | DWO3430240    | 110    |
|                                    | External                    | C5   |  | DWO3430150    | 110    |
|                                    | External,<br>Internal 7 Mpa | C5   |  | DWO3430250    | 110    |
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal          | C5   |  | DWO0505010/LC | 46     |
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal          | C6   |  | DWO3716010/LC | 45     |
| AXIAL SINGLE STATIC TOOL           | Internal                    | C6   |  | DWO0516010/LC | 60     |
| AXIAL SINGLE STATIC TOOL           | External, Internal          | C6   |  | DWO2856010/LC | 90     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## DOOSAN BMT 85


PUMA600M/LM/LY, PUMA700M/LM/LY, PUMA800M/LM/LY  
 PUMA600M/LM/LYII, PUMA700M/LM/LYII, PUMA800M/LM/LYII  
 VT900M/TM, V9300M, VT1100M

| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C5   |  | DWO3095010/LC | 35     |
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C6   |  | DWO3096010/LC | 35     |
| AXIAL SINGLE REAR SET STATIC TOOL  | Internal           | C6   |  | DWO3106010/LC | 85     |

Description for L hand added "LC"  
 H: Center height position

## DUPLOMATIC



### VDI50

| Application                           | Coolant                     | Size | Fig.   | Description R hand                                  | Description L hand | H (mm) |
|---------------------------------------|-----------------------------|------|--|---|--------------------|--------|
| RADIAL DRIVEN TOOL VDI50<br>4,000 RPM | External                    | C4   |  | DUP0550140 <sup>*1</sup> , DUP0551140 <sup>*2</sup> |                    | 100    |
|                                       | External,<br>Internal 7 Mpa | C4   |  | DUP0550240 <sup>*1</sup> , DUP0551240 <sup>*2</sup> |                    | 100    |

RPM: maximum number of revolutions  
 H: Center height position  
 \*1) Right hand  
 \*2) Left hand

## EMAG

### VL2, VL2P, VL4-V2, VLC100, VT2, VTC100-4 (BMT55 SHORT)



| Application               | Coolant  | Size | Fig.   | Description   | H (mm) |
|---------------------------|----------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL  | Internal | C5   |  | DWO3675010/LC | 45     |
| RADIAL SINGLE STATIC TOOL | Internal | C5   |  | DWO2675010/LC | 80     |
|                           | Internal | C5   |  | DWO3665010/LC | 75     |

Description for L hand added "LC"  
 H: Center height position



# EMAG


## VL3DUO, VL5 DUO, VL4-V3 (BMT55 SHORT)

| Application               | Coolant  | Size | Fig.   | Description   | H (mm) |
|---------------------------|----------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL  | Internal | C5   |  | DWO3675010/LC | 45     |
| RADIAL SINGLE STATIC TOOL | Internal | C5   |  | DWO2675010/LC | 80     |
|                           | Internal |      |  | DWO3665010/LC | 75     |

Description for L hand added "LC"  
H: Center height position

# EMAG





## VL6, VM9, VMC450, VM9-4, VMC450-4 (BMT65)

| Application               | Coolant  | Size | Fig.   | Description   | H (mm) |
|---------------------------|----------|------|--|---------------|--------|
| RADIAL SINGLE STATIC TOOL | Internal | C5   |  | DWO3045010/LC | 82     |

Description for L hand added "LC"  
H: Center height position

# EMAG


## VL8, VL10, VLC500, VM12, VMC600 (BMT75)

| Application                     | Coolant                     | Size | Fig.   | Description   | H (mm) |
|---------------------------------|-----------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM | External,<br>Internal 7 MPa | C5   |  | EMG0230250    | 77     |
|                                 | External                    | C4   |  | EMG0240140    | 60     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External,<br>Internal 7 MPa | C4   |  | EMG0240240    | 60     |
|                                 | External                    | C5   |  | EMG0240150    | 60     |
|                                 | External,<br>Internal 7 MPa | C5   |  | EMG0240250    | 60     |
| AXIAL SINGLE STATIC TOOL        | External, Internal          | C6   |  | DWO3636010/LC | 50     |
| RADIAL SINGLE STATIC TOOL       | External, Internal          | C6   |  | DWO3626010/LC | 107    |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## EMCO



### HYPER TURN45 (BMT45)

| Application              | Coolant            | Size | Fig.   | Description   | H (mm) |
|--------------------------|--------------------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL | External, Internal | C4   |  | DWO3374010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

## EMCO







### HYPER TURN65 M/MY/SM/SMY, MAXXTURN95 (BMT55)

| Application                       | Coolant            | Size | Fig.   | Description   | H (mm) |
|-----------------------------------|--------------------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL          | External, Internal | C4   |   | DWO3804010/LC | 85     |
| AXIAL SINGLE REAR SET STATIC TOOL | Internal           | C4   |  | DWO2434010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

## EMCO




### HYPER TURN95-110 SMB/SM2Y (BMT65) HYPER TURN100 POWERMILL, MAXXTURN110 (BMT65)

| Application                                      | Coolant                     | Size | Fig.   | Description   | H (mm) |
|--|-----------------------------|------|--|---------------|--------|
| AXIAL DRIVEN TOOL<br>6,000 RPM                   | External                    | C4   |  | DWO3240140    | 100    |
|  | External,<br>Internal 7 Mpa | C4   |  | DWO3240240    | 100    |
| RADIAL DOUBLE STATIC TOOL                        | External, Internal          | C4   |  | DWO3424020/LC | 80     |
| AXIAL SINGLE STATIC TOOL                         | External, Internal          | C4   |  | DWO3414010/LC | 115    |
| AXIAL SINGLE STATIC TOOL                         | External, Internal          | C5   |  | DWO3515010/LC | 100    |
| AXIAL SINGLE STATIC TOOL                         | External, Internal          | C6   |  | DWO3166010/LC | 100    |
| AXIAL OPPOSITE FACE REAR SET<br>TWIN STATIC TOOL | External, Internal          | C4   |  | DWO3404020/LC | 115    |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

# EMCO








## MAXXTURN200 (BMT85)

| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C5   |  | DWO3095010/LC | 35     |
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C6   |  | DWO3096010/LC | 35     |
| AXIAL SINGLE STATIC TOOL           | Internal           | C6   |  | DWO3106010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

# GOODWAY










## GS200/230/260/280, GA200/260/280 GA2000/26000/2800/3000/3300/3600

| Application                                   | Coolant                     | Size | Fig.   | Description   | H (mm) |
|---|-----------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM               | External                    | C4   |  | MSL0060140    | 20     |
|   | External,<br>Internal 7 Mpa | C4   |  | MSL0060240    | 20     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                | External                    | C4   |  | MSL0050140    | 55     |
|   | External,<br>Internal 7 Mpa | C4   |  | MSL0050240    | 55     |
| AXIAL DRIVEN TOOL FOR SUBSPINDLE<br>6,000 RPM | External                    | C4   |  | MSL0590140    | 55     |
|   | External,<br>Internal 7 Mpa | C4   |  | MSL0590240    | 55     |
| RADIAL SINGLE REAR SET STATIC TOOL            | Internal                    | C4   |  | MSL0044010/LC | 25     |
| RADIAL SINGLE REAR SET STATIC TOOL            | Internal                    | C5   |  | MSL0045010/LC | 40     |
| AXIAL SINGLE STATIC TOOL                      | Internal                    | C4   |  | MSL0034010/LC | 40     |
| AXIAL SINGLE STATIC TOOL                      | Internal                    | C5   |  | MSL0035010/LC | 40     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## GOODWAY







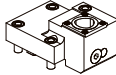
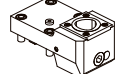
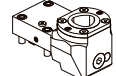
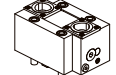

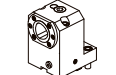
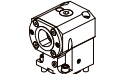
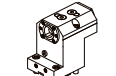
GS2000/26000/2800/3000/3300/3600/4000 12ST.  
GMS2000 12ST.

| Application                          | Coolant                     | Size | Fig.   | Description   | H (mm) |
|--------------------------------------|-----------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM      | External                    | C4   |    | GDW0370140    | 70     |
|                                      | External                    | C5   |  | GDW0370150    | 70     |
| AXIAL DRIVEN TOOL<br>6,000 RPM       | External                    | C4   |    | GDW0360140    | 90     |
|                                      | External,<br>Internal 7 Mpa | C4   |  | GDW0360240    | 90     |
|                                      | External                    | C5   |  | GDW0360150    | 90     |
|                                      | External,<br>Internal 7 Mpa | C5   |  | GDW0360250    | 90     |
| RADIAL SINGLE STATIC TOOL            | Internal                    | C4   |    | GDW0384010/LC | 90     |
|                                      | Internal                    | C5   |  | GDW0385010/LC | 95     |
|                                      | Internal                    | C5   |  | GDW0385015/LC | 95     |
| RADIAL DOUBLE STATIC TOOL            | Internal                    | C4   |   | GDW0394020/LC | 90     |
|                                      | Internal                    | C5   |  | GDW0395020/LC | 95     |
| RADIAL DOUBLE 2+2 STATIC             | Internal                    | C3   |  | GDW0403240/LC | 105    |
| RADIAL DOUBLE 3+3 STATIC TOOL        | Internal                    | C3   |  | GDW0403260/LC | 105    |
| AXIAL SINGLE STATIC TOOL             | Internal                    | C4   |  | GDW0414010/LC | 90     |
|                                      | External, Internal          | C5   |  | GDW0415010/LC | 90     |
|                                      | Internal                    | C5   |  | GDW0415015/LC | 120    |
|                                      | Internal                    | C6   |  | GDW0416010/LC | 90     |
| AXIAL SINGLE REAR SET STATIC TOOL    | Internal                    | C4   |  | GDW0434010/LC | 90     |
|                                      | Internal                    | C5   |  | GDW0435010/LC | 90     |
| AXIAL OPPOSITE FACE TWIN STATIC TOOL | Internal                    | C4   |  | GDW0424020/LC | 90     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

# GOODWAY

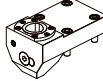


GTX2000/2600 12ST. , GTZ2000/2600 12ST. GS2000/2800/33000 16ST. ,  
GTM2000, GMS2000 15ST. GLS2800/33000 12ST. , GTH2000/2600 12ST.

| Application                                   | Coolant                     | Size  | Fig.   | Description   | H (mm) |
|---|-----------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL                            | External                    | C4    |    | DWO3150140    | 62     |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3150240    | 62     |
| AXIAL DRIVEN TOOL                             | External                    | C4    |    | DWO3110140    | 85     |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3110240    | 85     |
| AXIAL DRIVEN TOOL                             | External                    | C4    |    | DWO3120140    | 95     |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3120240    | 95     |
| AXIAL DRIVEN TOOL                             | External                    | C4    |    | DWO3130140    | 100    |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3130240    | 100    |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL          | External                    | C4+C4 |    | DWO3140240    | 85     |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL          | External                    | C4+C4 |   | DWO3770240    | 100    |
| RADIAL SINGLE REAR SET STATIC TOOL            | External, Internal          | C4    |  | DWO1384010/LC | 60     |
| RADIAL SINGLE REAR SET STATIC TOOL            | External, Internal          | C5    |  | DWO3505010/LC | 50     |
| RADIAL SINGLE REAR SET STATIC TOOL            | External, Internal          | C6    |  | DWO3176010/LC | 70     |
| RADIAL DOUBLE STATIC TOOL                     | External, Internal          | C4    |  | DWO3424020/LC | 80     |
| AXIAL OPPOSITE FACE TWIN STATIC TOOL          | External, Internal          | C4    |  | DWO3414010/LC | 115    |
| AXIAL SINGLE STATIC TOOL                      | External, Internal          | C5    |  | DWO3515010/LC | 100    |
| AXIAL SINGLE STATIC TOOL                      | External, Internal          | C6    |  | DWO3166010/LC | 100    |
| AXIAL OPPOSITE FACE REAR SET TWIN STATIC TOOL | External, Internal          | C4    |  | DWO3404020/LC | 115    |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## GOODWAY

GTX2000/2600 16ST. , GTZ2000/2600 16ST.













| Application                          | Coolant            | Size | Fig.   | Description   | H (mm) |
|--------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL   | External, Internal | C4   |  | DWO0444010/LC | 40     |
| AXIAL OPPOSITE FACE TWIN STATIC TOOL | External, Internal | C4   |  | DWO3804010/LC | 85     |
| AXIAL SINGLE STATIC TOOL             | Internal           | C4   |  | DWO2434010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

# HAAS

ST20/25/28/30/35 (BMT65)

DS30 (BMT65)




| Application                                       | Coolant                     | Size  | Fig.   | Description   | H (mm) |
|---|-----------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                   | External                    | C4    |    | DWO3150140    | 62     |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3150240    | 62     |
| RADIAL DRIVEN TOOL<br>6,000 RPM                   | External                    | C4    |    | DWO3080140    | 72     |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3080240    | 72     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3110140    | 85     |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3110240    | 85     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3120140    | 95     |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3120240    | 95     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3130140    | 100    |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3130240    | 100    |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |   | DWO3770240    | 85     |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4    |  | DWO3770240    | 100    |
| RADIAL DOUBLE STATIC TOOL                         | External, Internal          | C4    |  | DWO3424020/LC | 80     |
| AXIAL SINGLE STATIC TOOL                          | Internal                    | C4    |  | DWO2644010/LC | 72     |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C4    |  | DWO3414010/LC | 115    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C5    |  | DWO3515010/LC | 100    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C6    |  | DWO3166010/LC | 100    |
| AXIAL OPPOSITE FACE REAR SET<br>TWIN STATIC       | External, Internal          | C4    |  | DWO3404020/LC | 115    |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position



## HWACHEON




### CUTEX160/180, C1 (BMT55)

| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C4   |  | DWO0444010/LC | 40     |
| AXIAL SINGLE STATIC TOOL           | External, Internal | C4   |  | DWO3804010/LC | 85     |
| AXIAL SINGLE REAR SET STATIC TOOL  | Internal           | C4   |  | DWO2434010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

## HWACHEON








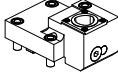
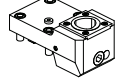
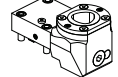
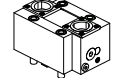





### HI-TECH550/700MC, VT550/650MC

| Application                     | Coolant                     | Size | Fig.   | Description   | H (mm) |
|---------------------------------|-----------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM | External,<br>Internal 7 Mpa | C5   |  | DWO3030250    | 77     |
|                                 | External                    | C4   |  | DWO3430140    | 110    |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External,<br>Internal 7 Mpa | C4   |  | DWO3430240    | 110    |
|                                 | External                    | C5   |  | DWO3430150    | 110    |
|                                 | External,<br>Internal 7 Mpa | C5   |  | DWO3430250    | 110    |
| AXIAL SINGLE STATIC TOOL        | External, Internal          | C6   |  | DWO2856010/LC | 90     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

# HWACHEON


HI-TECH200/230 /300/350/400/450, T2, CUTEX240

| Application                                       | Coolant                     | Size  | Fig.   | Description   | H(mm) |
|---|-----------------------------|-------|--|---------------|-------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                   | External                    | C4    |    | DWO3150140    | 62    |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3150240    | 62    |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3080140    | 72    |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3080240    | 72    |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3110140    | 85    |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3110240    | 85    |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3120140    | 95    |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3120240    | 95    |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3130140    | 100   |
|   | External,<br>Internal 7 Mpa | C4    |  | DWO3130240    | 100   |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |   | DWO3140240    | 85    |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |  | DWO3770240    | 100   |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C4    |  | DWO1384010/LC | 60    |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C5    |  | DWO3505010/LC | 50    |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C6    |  | DWO3176010/LC | 70    |
| RADIAL DOUBLE STATIC TOOL                         | External, Internal          | C4    |  | DWO3424020/LC | 80    |
| AXIAL SINGLE STATIC TOOL                          | Internal                    | C4    |  | DWO2644010/LC | 72    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C4    |  | DWO3414010/LC | 115   |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C5    |  | DWO3515010/LC | 100   |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C6    |  | DWO3166010/LC | 100   |
| AXIAL OPPOSITE FACE REAR SET TWIN STATIC          | External, Internal          | C4    |  | DWO3404020/LC | 115   |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## HYUNDAI-WIA (KIA)

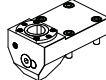
SE2200M/LM/LMS/MA/LMA/LMSA/LMC/LMSC  
SE2200Y/LY/LSY/YA/LYA/LSYA

| Application              | Coolant            | Size | Fig.   | Description   | H (mm) |
|--------------------------|--------------------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL | External, Internal | C4   |  | DWO3374010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

## HYUNDAI-WIA (KIA)

















SKT160TTMS/TTSY, LM1600TTMS/TTSY  
SKT180TTMS/TTSY, LM1800TTMS/TTSY  
L160/230LMSA, HD2200/2600M/Y/SY (BMT55)

| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C4   |  | DWO0444010/LC | 40     |

Description for L hand added "LC"  
H: Center height position

# HYUNDAI-WIA (KIA)





SKT200TTM/TTMS/TTSY, LM2000 TTM/TTMS/TTSY  
 SKT250TTM/TTMS/TTSY, LM2500 TTM/TTMS/TTSY  
 SKT250M/LM/MS, STT300M/LM/MS, L300M/LM/MS/LMS  
 KM2600MTTS, HD2600/3100 (BMT65)

| Application  | Coolant                     | Size  | Fig.   | Description   | H (mm) |
|--|-----------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                      | External                    | C4    |    | DWO3150140    | 62     |
|  | External,<br>Internal 7 Mpa | C4    |  | DWO3150240    | 62     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                       | External                    | C4    |    | DWO3080140    | 72     |
|  | External,<br>Internal 7 Mpa | C4    |  | DWO3080240    | 72     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                       | External                    | C4    |    | DWO3110140    | 85     |
|  | External,<br>Internal 7 Mpa | C4    |  | DWO3110240    | 85     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                       | External                    | C4    |    | DWO3120140    | 95     |
|  | External,<br>Internal 7 Mpa | C4    |  | DWO3120240    | 95     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                       | External                    | C4    |   | DWO3130140    | 100    |
|  | External,<br>Internal 7 Mpa | C4    |  | DWO3130240    | 100    |
| AXIAL OPPOSITE FACE TWIN<br>DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |  | DWO3140240    | 85     |
| AXIAL OPPOSITE FACE TWIN<br>DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |  | DWO3770240    | 100    |
| RADIAL SINGLE REAR SET STATIC TOOL                   | External, Internal          | C4    |  | DWO1384010/LC | 60     |
| RADIAL SINGLE REAR SET STATIC TOOL                   | External, Internal          | C5    |  | DWO3505010/LC | 50     |
| RADIAL SINGLE REAR SET STATIC TOOL                   | External, Internal          | C6    |  | DWO3176010/LC | 70     |
| RADIAL DOUBLE STATIC TOOL                            | External, Internal          | C4    |  | DWO3424020/LC | 80     |
| AXIAL SINGLE STATIC TOOL                             | Internal                    | C4    |  | DWO2644010/LC | 72     |
| AXIAL SINGLE STATIC TOOL                             | External, Internal          | C4    |  | DWO3414010/LC | 115    |
| AXIAL SINGLE STATIC TOOL                             | External, Internal          | C5    |  | DWO3515010/LC | 100    |
| AXIAL SINGLE STATIC TOOL                             | External, Internal          | C6    |  | DWO3166010/LC | 100    |
| AXIAL OPPOSITE FACE REAR SET<br>TWIN STATIC          | External, Internal          | C4    |  | DWO3404020/LC | 115    |

Description for L hand added "LC"  
 RPM: maximum number of revolutions  
 H: Center height position

## HYUNDAI-WIA (KIA)


SKT400 M/LMC, L400/500 MA/MC/LMC  
 SKT-V80R M/LM, LV500R M/LM, LV800R M/LM  
 LV8500R M/LM

| Application                     | Coolant                     | Size | Fig.   | Description   | H (mm) |
|---------------------------------|-----------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM | Internal 7 Mpa              | C5   |    | DWO3030250    | 77     |
|                                 | External                    | C4   |  | DWO0610140    | 60     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External,<br>Internal 7 Mpa | C4   |    | DWO0610240    | 60     |
|                                 | External                    | C5   |  | DWO0610150    | 60     |
|                                 | External,<br>Internal 7 Mpa | C5   |  | DWO0610250    | 60     |
|                                 | External                    | C4   |  | DWO3430140    | 110    |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External,<br>Internal 7 Mpa | C4   |    | DWO3430240    | 110    |
|                                 | External                    | C5   |  | DWO3430150    | 110    |
|                                 | External,<br>Internal 7 Mpa | C5   |  | DWO3430250    | 110    |
|                                 | External                    | C4   |  | DWO3430140    | 110    |
| AXIAL SINGLE STATIC TOOL        | External, Internal          | C6   |  | DWO2856010/LC | 90     |

Description for L hand added "LC"  
 RPM: maximum number of revolutions  
 H: Center height position

## HYUNDAI-WIA (KIA)










SKT600LM, L600LMA, SKT700LM  
 SKT-V110RM, L700LMA, L800LMA, LV1100RM  
 KL7000/8000LY

| Application              | Coolant  | Size | Fig.   | Description   | H (mm) |
|--------------------------|----------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL | Internal | C6   |  | DWO3106010/LC | 85     |

Description for L hand added "LC"  
 H: Center height position

# MAZAK

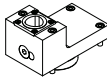

MULTIPLEX420/620/625/6200/6250/8200/W-200 12ST.  
 HYPER QUADREX200/250MSY 12ST.

| Application                                    | Coolant                     | Size | Fig.   | Description   | H (mm) |
|--|-----------------------------|------|--|---------------|--------|
| AXIAL DRIVEN TOOL<br>10,000 RPM                | External                    | C4   |    | MZK1121140    | 130    |
|  | External,<br>Internal 7 Mpa | C4   |  | MZK1121240    | 130    |
| AXIAL DRIVEN TOOL FOR SUBSPINDLE<br>10,000 RPM | External                    | C4   |    | MZK1120140    | 130    |
|  | External,<br>Internal 7 Mpa | C4   |  | MZK1120240    | 130    |
| RADIAL SINGLE STATIC TOOL                      | Internal                    | C4   |    | MZK0514010/LC | 100    |
| RADIAL SINGLE STATIC TOOL                      | Internal                    | C5   |    | MZK0515010/LC | 90     |
| RADIAL DOUBLE STATIC TOOL                      | External, Internal          | C5   |   | MZK1165020/LC | 90     |
| AXIAL SINGLE STATIC TOOL                       | Internal                    | C4   |  | MZK0524010/LC | 150    |
| AXIAL SINGLE STATIC TOOL                       | Internal                    | C5   |  | MZK0525010/LC | 145    |
| AXIAL SINGLE STATIC TOOL                       | External, Internal          | C5   |  | MZK1145010/LC | 135    |
| AXIAL SINGLE STATIC TOOL FOR SUBSPINDLE        | External, Internal          | C5   |  | MZK1155010/LC | 135    |

Description for L hand added "LC"  
 RPM: maximum number of revolutions  
 H: Center height position

## MAZAK





QUICK TURN SMART100M/150M/200M/250M, QT200/250M  
 QTC100/200/300M, QTE100/200/300M, QTU200/250/350M QT-Ez 8/10/12M

| Application               | Coolant            | Size | Fig.   | Description   | H (mm) |
|---------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE STATIC TOOL | External, Internal | C4   |  | MZK0874010/LC | 75     |
| AXIAL SINGLE STATIC TOOL  | Internal           | C4   |  | MZK0884010/LC | 95     |

Description for L hand added "LC"  
 H: Center height position

## MAZAK

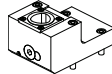
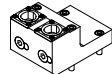
SQT15-18 M/MS/MY/MSY 12ST. , SQT200/250 M/MS/MY/MSY 12ST.  
 QT NEXUS200/250 (II) M/MS/MY/NSY 12ST.  
 SUPER QUADREX200/250N, IVS200/300M

| Application                            | Coolant                     | Size  | Fig.   | Description   | H (mm) |
|--|-----------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM        | External                    | C4    |  | MZK1210140    | 105    |
|  | External,<br>Internal 7 Mpa | C4    |  | MZK1210240    | 105    |
| AXIAL DRIVEN TOOL<br>6,000 RPM         | External                    | C4    |  | MZK1200140    | 130    |
|  | External,<br>Internal 7 Mpa | C4    |  | MZK1200240    | 130    |
| RADIAL SINGLE STATIC TOOL<br>6,000 RPM | External                    | C4+C4 |  | MZK1190240    | 130    |
| AXIAL SINGLE STATIC TOOL               | Internal                    | C4    |  | MZK1114010/LC | 140    |

Description for L hand added "LC"  
 RPM: maximum number of revolutions  
 H: Center height position

# MIYANO

ABX-51/64/80 SYY/THY














| Application                      | Coolant            | Size | Fig.   | Description   | H (mm) |
|----------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE STATIC TOOL        | External, Internal | C4   |  | MYA0194010/LC | 70     |
| RADIAL SINGLE DOUBLE STATIC TOOL | External, Internal | C3   |  | MYA0203220/LC | 70     |

Description for L hand added "LC"  
H: Center height position



## MT RENT


### MT CUT T25/T32 Y/SY

| Application  | Coolant                     | Size  | Fig.   | Description   | H (mm) |
|--|-----------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | MNL0530140    | 70     |
|  | External                    | C5    |  | MNL0530150    | 70     |
| RADIAL DRIVEN TOOL<br>10,000 RPM                   | External                    | C4    |    | MNL0810140    | 70     |
|  | External                    | C5    |  | MNL0810150    | 70     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                     | External                    | C4    |    | MNL0520140    | 90     |
|  | External,<br>Internal 7 MPa | C4    |  | MNL0520240    | 90     |
|  | External                    | C5    |  | MNL0520150    | 90     |
| AXIAL DRIVEN TOOL<br>10,000 RPM                    | External,<br>Internal 7 MPa | C5    |   | MNL0520250    | 90     |
|  | External                    | C4    |  | MNL0800140    | 90     |
|  | External,<br>Internal 7 MPa | C4    |  | MNL0800240    | 90     |
| AXIAL DRIVEN TOOL<br>10,000 RPM                    | External                    | C5    |  | MNL0800150    | 90     |
|  | External,<br>Internal 7 MPa | C5    |  | MNL0800250    | 90     |
|  | External                    | C4    |  | MNL0800140    | 90     |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>10,000 RPM | External                    | C4+C4 |  | MNL1170240    | 90     |
| RADIAL SINGLE STATIC TOOL                          | Internal                    | C4    |  | MNL0464010/LC | 90     |
|  | Internal                    | C5    |  | MNL0465010/LC | 95     |
|  | Internal                    | C5    |  | MNL0465015/LC | 95     |
|  | Internal                    | C6    |  | MNL0466010/LC | 108    |
| RADIAL DOUBLE STATIC TOOL                          | Internal                    | C4    |  | MNL0474020/LC | 90     |
|  | Internal                    | C5    |  | MNL0475020/LC | 95     |
| RADIAL DOUBLE 2+2 STATIC TOOL                      | Internal                    | C3    |  | MNL0483240/LC | 105    |
| RADIAL DOUBLE 3+3 STATIC TOOL                      | Internal                    | C3    |  | MNL0483260/LC | 105    |
| AXIAL SINGLE STATIC TOOL                           | Internal                    | C4    |  | MNL0494010/LC | 90     |
|  | Internal, External          | C5    |  | MNL0495010/LC | 90     |
|  | Internal                    | C5    |  | MNL0495015/LC | 120    |
|  | Internal                    | C6    |  | MNL0496010/LC | 90     |
| AXIAL SINGLE REAR SET STATIC TOOL                  | Internal                    | C4    |  | MNL0514010/LC | 90     |
|  | Internal                    | C5    |  | MNL0515010/LC | 90     |
| AXIAL OPPOSITE FACE TWIN STATIC TOOL               | Internal                    | C4    |  | MNL0504020/LC | 90     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

# MT RENT



T22Y/SY 16ST.

| Application              | Coolant  | Size | Fig.   | Description   | H (mm) |
|--------------------------|----------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL | Internal | C4   |  | DWO3374010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

# MT RENT

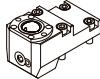


T36FMC 12ST.

| Application                     | Coolant                     | Size | Fig.   | Description | H (mm) |
|---------------------------------|-----------------------------|------|--|-------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM | External,<br>Internal 7 MPa | C5   |  | DWO3030250  | 77     |
|                                 | External                    | C4   |  | DWO0610140  | 60     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External,<br>Internal 7 MPa | C4   |  | DWO0610240  | 60     |
|                                 | External                    | C5   |  | DWO0610150  | 60     |
|                                 | External,<br>Internal 7 MPa | C5   |  | DWO0610250  | 60     |

RPM: maximum number of revolutions  
H: Center height position

# MURATEC




MW120 8ST. MW120 12ST.

| Application               | Coolant  | Size | Fig.   | Description                           | H (mm) |
|---------------------------|----------|------|--|---------------------------------------|--------|
| RADIAL SINGLE STATIC TOOL | Internal | C4   |  | C4-DTO-IC-MRTA4141-R/L <sup>*1)</sup> | 65     |
|                           | Internal | C4   |  | C4-DTO-IC-MRTA403-R/L <sup>*2)</sup>  | 51     |
| AXIAL SINGLE STATIC TOOL  | Internal | C4   |  | C4-DTI-IC-MRT492-R/L <sup>*2)</sup>   | 85     |
| AXIAL SINGLE STATIC TOOL  | Internal | C4   |  | C4-DTI-IC-MRT457-R/L <sup>*1)</sup>   | 100    |

Description for L hand added "L"  
H: Center height position  
\*1) For MW120 8ST.  
\*2) For MW120 12ST.

## MURATEC







MD120/200 10ST., MD200 10ST.

| Application               | Coolant  | Size | Fig.   | Description                           | H (mm) |
|---------------------------|----------|------|--|---------------------------------------|--------|
| RADIAL SINGLE STATIC TOOL | Internal | C4   |  | C4-DTO-IC-MRTA4123-R/L <sup>*1)</sup> | 85     |
|                           | Internal | C4   |  | C4-DTO-IC-MRTA404-R/L <sup>*2)</sup>  | 85     |
| AXIAL SINGLE STATIC TOOL  | Internal | C4   |  | C4-DTI-IC-MRT476-R/L <sup>*2)</sup>   | 120    |
| AXIAL SINGLE STATIC TOOL  | Internal | C4   |  | C4-DTI-IC-MRT450-R/L <sup>*1)</sup>   | 130    |

Description for L hand added "L"  
 RPM: maximum number of revolutions  
 H: Center height position  
 \*1) For MW200 10ST.  
 \*2) For MW200 12ST.

## MURATEC








VTURN-A26CM/SCM/YCM/YSCM  
 VTURN-S26CM

| Application                     | Coolant            | Size | Fig.   | Description                           | H (mm) |
|---------------------------------|--------------------|------|--|---------------------------------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM | External           | C3   |  | C3-DDC-OC-MRT304 <sup>*1)</sup>       | 80     |
|                                 | External           | C4   |  | C4-DDC-OC-MRT412 <sup>*2)</sup>       | 88     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External, Internal | C4   |  | C4-DDS-WC-MRT494 <sup>*1)</sup>       | 95     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External, Internal | C4   |  | C4-DDS-WC-MRT469 <sup>*2)</sup>       | 125    |
| RADIAL SINGLE STATIC TOOL       | Internal           | C4   |  | C4-DTO-IC-MRTA409-R/L <sup>*1)</sup>  | 70     |
|                                 | Internal           | C4   |  | C4-DTO-IC-MRTA4123-R/L <sup>*2)</sup> | 85     |
| AXIAL SINGLE STATIC TOOL        | Internal           | C4   |  | C4-DTI-IC-MRT416-R/L <sup>*2)</sup>   | 95     |
| AXIAL SINGLE STATIC TOOL        | Internal           | C4   |  | C4-DTI-IC-MRT450-R/L <sup>*2)</sup>   | 130    |

Description for L hand added "L"  
 RPM: maximum number of revolutions  
 H: Center height position  
 \*1) For MD120/200 10ST.  
 \*2) For MD200 10ST.

# NAKAMURA-TOME

WT100, WY100, WY100II 12ST., SUPER NTY<sup>3</sup>  
 NTY<sup>3</sup>-100 12ST., SUPER NTMX, SUPER NTMXL  
 MX-5, NTJ100, SC100, SC100X2, MX100

| Application                     | Coolant            | Size | Fig.   | Description                         | H (mm) |
|---------------------------------|--------------------|------|--|-------------------------------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM | External           | C3   |    | C3-DDC-OC-NAT320 <sup>*1)</sup>     | 45     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External, Internal | C3   |    | C3-DDS-WC-DMS324 <sup>*2)</sup>     | 60     |
|                                 | External           | C3   |  | C3-DDS-OC-DMS329 <sup>*2)</sup>     | 60     |
|                                 | External, Internal | C3   |  | C3-DDS-WC-DMS319 <sup>*3)</sup>     | 60     |
| RADIAL SINGLE STATIC TOOL       | Internal           | C3   |    | C3-DTO-IC-NAT323-R/L <sup>*2)</sup> | 47.5   |
|                                 | Internal           | C4   |  | C4-DTO-IC-NAT427-R/L <sup>*3)</sup> | 42.5   |
| RADIAL DOUBLE STATIC TOOL       | Internal           | C3   |    | C3-DTO-IC-NAT317-R/L <sup>*2)</sup> | 47.5   |
|                                 | Internal           | C4   |  | C4-DTO-IC-NAT428-R/L <sup>*3)</sup> | 42.5   |
| RADIAL DOUBLE STATIC TOOL       | External, Internal | C3   |   | NKM1923240/LC                       | 52.5   |
| AXIAL SINGLE STATIC TOOL        | Internal           | C3   |  | C3-DTI-IC-NAT303-R/L <sup>*2)</sup> | 73     |
|                                 | Internal           | C4   |  | C4-DTI-IC-NAT429-R/L <sup>*3)</sup> | 85     |
| AXIAL DOUBLE STATIC TOOL        | External, Internal | C3   |  | NKM1933220/LC                       | 90     |

Description for L hand added "LC"

RPM: maximum number of revolutions

H: Center height position


\*1) For NTY3-100, WY-100, WT-100, NTMX

\*2) For NTY3-100, WY-100, WT-100

\*3) For NTMX

## NAKAMURA-TOME



SC-450, STS40, STW-40, TW30 12ST.

| Application                    | Coolant                     | Size | Fig.   | Description | H (mm) |
|--------------------------------|-----------------------------|------|--|-------------|--------|
| AXIAL DRIVEN TOOL<br>6,000 RPM | External                    | C4   |  | NKM1870140  | 100    |
|                                | External,<br>Internal 7 MPa | C4   |  | NKM1870240  | 100    |
|                                | External                    | C5   |  | NKM1870150  | 100    |
|                                | External,<br>Internal 7 MPa | C5   |  | NKM1870250  | 100    |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## NAKAMURA-TOME




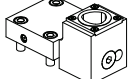


SUPER Mill WT150/WT150II/WY250/SC200L  
SUPER NTY<sup>3</sup>JUMBO

| Application                       | Coolant  | Size | Fig.   | Description   | H (mm) |
|-----------------------------------|----------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL          | Internal | C4   |  | NKM0874010/LC | 75     |
| AXIAL SINGLE REAR SET STATIC TOOL | Internal | C4   |  | NKM1064010/LC | 75     |

Description for L hand added "LC"  
H: Center height position

# NAKAMURA-TOME

WT150/250, WT150II/250II, WTW150, WTS150, JX200/250 SUPER NTM<sup>3</sup>,  
 SUPER NTJ, SUPER NTJX, SC150/200/250, SC300II 16ST. NTY<sup>3</sup>150/250,  
 TW10 M/MY/MM/MMY/MMYY, TW10 12ST.  
 TW20M/MY/MM/MMY/MMYY 16ST., WY150/250, AS200 15/12 ST.

| Application                        | Coolant            | Size | Fig.   | Description                         | H (mm) |
|------------------------------------|--------------------|------|--|-------------------------------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM    | External           | C3   |    | C3-DDC-OC-NAT321 <sup>*1)</sup>     | 45.5   |
| AXIAL DRIVEN TOOL<br>6,000 RPM     | External, Internal | C3   |    | C3-DDS-WC-NAT326 <sup>*1)</sup>     | 60     |
|                                    | External, Internal |      |  | C3-DDS-WC-NAT322 <sup>*2)</sup>     | 70     |
| RADIAL SINGLE STATIC TOOL          | Internal           | C3   |    | C3-DTO-IC-NAT327-R/L <sup>*1)</sup> | 55     |
|                                    | Internal           |      |  | C3-DTO-IC-NAT313-R/L <sup>*2)</sup> | 80     |
| RADIAL SINGLE REAR SET STATIC TOOL | Internal           | C4   |    | NKM1514010/LC                       | 55     |
| RADIAL DOUBLE STATIC TOOL          | Internal           | C4   |   | C3-DTO-IC-NAT328-R/L <sup>*1)</sup> | 55     |
|                                    | Internal           | C4   |  | C4-DTO-IC-NAT318-R/L <sup>*2)</sup> | 60     |
| AXIAL SINGLE REAR SET STATIC TOOL  | Internal           | C3   |  | C3-DTI-IC-NAT325-R/L <sup>*1)</sup> | 70     |
|                                    | Internal           | C3   |  | C3-DTI-IC-NAT314-R/L <sup>*2)</sup> | 85     |
|                                    | Internal           | C4   |  | C4-DTI-IC-NAT438-R/L <sup>*1)</sup> | 70     |
|                                    | Internal           | C4   |  | NKM1524010/LC                       | 75     |
|                                    | Internal           | C4   |  | C4-DTI-IC-NAT435-R/L <sup>*2)</sup> | 85     |
|                                    | Internal           | C4   |  |                                     |        |

Description for L hand added "LC" or "L"

RPM: maximum number of revolutions






H: Center height position

\*1) For NTY3-150/250, WT-150-250, NTJX

\*2) Super NTJX

## NAKAMURA-TOME

WT300, SC300II 12ST., TMC200/300M  
 SUPER NTX/NTXL, TW20 M/MY/MM/MMY/MMYY 12ST.  
 TW20M/MY/MM/MMY/MMYY 16ST.

| Application                       | Coolant                     | Size | Fig.  | Description                         | H (mm) |
|-----------------------------------|-----------------------------|------|---|-------------------------------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM   | External,<br>Internal 7 MPa | C4   |   | NKM2110240                          | 62     |
|                                   | External                    | C4   |   | C4-DDC-OC-NAT432* <sup>1)</sup>     | 61     |
| AXIAL DRIVEN TOOL<br>6,000 RPM    | External                    | C4   |   | NKM2130140                          | 65     |
|                                   | External,<br>Internal 7 MPa | C4   |   | NKM2130240                          | 65     |
|                                   | External, Internal          | C4   |   | C4-DDS-WC-NAT433* <sup>1)</sup>     | 65     |
| RADIAL SINGLE STATIC TOOL         | Internal                    | C4   |   | C4-DTO-IC-NAT436-R/L* <sup>1)</sup> | 48     |
| RADIAL DOUBLE STATIC TOOL         | Internal                    | C4   |   | C4-DTO-IC-NAT431-R/L* <sup>1)</sup> | 48     |
| AXIAL SINGLE REAR SET STATIC TOOL | External, Internal          | C4   |  | NKM21240101/LC                      | 90     |
|                                   | Internal                    | C4   |   | C4-DTI-IC-NAT437-R/L* <sup>1)</sup> | 90     |

Description for L hand added "LC" or "L"











RPM: maximum number of revolutions

H: Center height position

\*1) For WT-300 12 ST. Super NTX 12ST.

# OKUMA

LB2000/2500/3000EX(I) M/MY/MW/MYW, LB2000/2500/3000EX(II) MY/MY/MW/MYW  
 LU3000EX M/MY/MW, GENOS L300MW/MYW, GENOS L3000e M/MY  
 MULTUS U3000/4000/5000 2SW



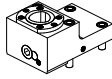
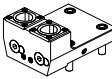


| Application                          | Coolant                     | Size | Fig.   | Description                         | H (mm) |
|--------------------------------------|-----------------------------|------|--|-------------------------------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM      | External                    | C4   |    | OKU0280140                          | 62     |
|                                      | External                    | C4   |  | C4-DDC-OC-OKM466 <sup>*1)</sup>     | 53.5   |
|                                      | External, Internal          | C4   |  | C4-DDC-WC-OKM456 <sup>*1)</sup>     | 66     |
| AXIAL DRIVEN TOOL<br>6,000 RPM       | External                    | C4   |    | OKU0270140                          | 70     |
|                                      | External,<br>Internal 7 MPa | C4   |  | OKU0270240                          | 70     |
|                                      | External Internal           | C4   |  | C4-DDS-WC-OKM457 <sup>*1)</sup>     | 70     |
| AXIAL DRIVEN TOOL<br>6,000 RPM       | External                    | C4   |    | OKU1670140                          | 90     |
|                                      | External,<br>Internal 7 MPa | C4   |  | OKU1670240                          | 90     |
| RADIAL SINGLE STATIC TOOL            | Internal                    | C4   |   | OKU0344010/LC                       | 70     |
|                                      |                             |      |  | C4-DTO-IC-OKM405-R/L <sup>*1)</sup> | 70     |
| RADIAL SINGLE DOUBLE STATIC TOOL     | Internal                    | C3   |  | OKU0393220/LC                       | 70     |
| RADIAL DOUBLE STATIC TOOL            | External, Internal          | C4   |  | OKU0354020/LC                       | 70     |
| RADIAL DOUBLE 2+2 STATIC TOOL        | Internal                    | C3   |  | OKU0403240/LC                       | 70     |
| AXIAL SINGLE STATIC TOOL             | External, Internal          | C4   |  | OKU0364010/LC                       | 90     |
|                                      | Internal                    | C4   |  | C4-DTI-IC-OKM406-R/L                | 90     |
| AXIAL SINGLE REAR-SET STATIC TOOL    | External, Internal          | C4   |  | OKU0384010/LC <sup>*1)</sup>        | 90     |
| AXIAL OPPOSITE FACE TWIN STATIC TOOL | Internal                    | C4   |  | OKU0374020/LC                       | 90     |

Description for L hand added "LC" or "L"  
 RPM: maximum number of revolutions  
 H: Center height position  
<sup>\*1)</sup> For LB2000-3000EXII 12ST.



## OKUMA



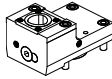
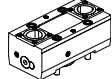



LB4000EX(I),LB4000EX(II),LU4000EX

| Application                       | Coolant                      | Size | Fig.   | Description   | H (mm) |
|-----------------------------------|------------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM   | External                     | C4   |    | OKU0590140    | 65.5   |
|                                   | External ,<br>Internal 7 MPa | C4   |  | OKU0590240    | 70     |
| AXIAL DRIVEN TOOL<br>6,000 RPM    | External                     | C4   |    | OKU0580140    | 85     |
|                                   | External ,<br>Internal 7 MPa | C4   |  | OKU0580240    | 85     |
| RADIAL SINGLE STATIC TOOL         | Internal                     | C5   |    | OKU0605010/LC | 75     |
| RADIAL SINGLE DOUBLE STATIC TOOL  | Internal                     | C4   |    | OKU0614020/LC | 70     |
| AXIAL SINGLE STATIC TOOL          | External, Internal           | C5   |   | OKU0625010/LC | 90     |
|                                   | Internal                     | C6   |  | OKU0626010/LC | 90     |
| AXIAL SINGLE REAR SET STATIC TOOL | External, Internal           | C5   |  | OKU0635010/LC | 90     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

# OKUMA


LT2000EX 16ST.

| Application                          | Coolant                     | Size | Fig.   | Description   | H (mm) |
|--------------------------------------|-----------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM      | External                    | C3   |    | OKU0870130    | 50     |
| AXIAL DRIVEN TOOL<br>6,000 RPM       | External                    | C3   |    | OKU0860130    | 65     |
|                                      | External,<br>Internal 7 MPa | C3   |  | OKU0860230    | 65     |
| RADIAL SINGLE STATIC TOOL            | Internal                    | C4   |    | OKU1034010/LC | 64     |
| RADIAL DOUBLE STATIC TOOL            | Internal                    | C4   |    | OKU1044020/LC | 64     |
| AXIAL SINGLE STATIC TOOL             | Internal                    | C4   |   | OKU1054010/LC | 85     |
| AXIAL SINGLE REAR SET STATIC TOOL    | Internal                    | C4   |  | OKU1074010/LC | 85     |
| AXIAL OPPOSITE FACE TWIN STATIC TOOL | Internal                    | C4   |  | OKU1064020/LC | 85     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## ROMI




### GL250Y/S

| Application              | Coolant            | Size | Fig.   | Description   | H (mm) |
|--------------------------|--------------------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL | External, Internal | C4   |  | DWO3374010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

## ROMI








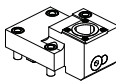
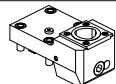
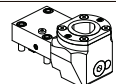
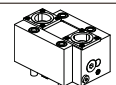
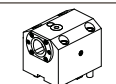
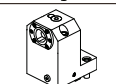
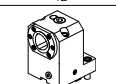
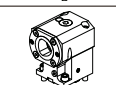
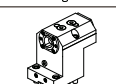
### GL300Y/S

| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C4   |  | DWO0444010/LC | 40     |
| AXIAL SINGLE STATIC TOOL           | External, Internal | C4   |  | DWO3804010/LC | 85     |
| AXIAL SINGLE REAR SET STATIC TOOL  | Internal           | C4   |  | DWO2434010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

# ROMI







GL350M/Y/S

| Application                                       | Coolant                     | Size  | Fig.   | Description   | H (mm) |
|---|-----------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                   | External                    | C4    |    | DWO3150140    | 62     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3150240    | 62     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3080140    | 72     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3080240    | 72     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3110140    | 85     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3110240    | 85     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3120140    | 95     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3120240    | 95     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |   | DWO3130140    | 100    |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3130240    | 100    |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |  | DWO3140240    | 85     |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |  | DWO3770240    | 100    |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C4    |  | DWO1384010/LC | 60     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C5    |  | DWO3505010/LC | 50     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C6    |  | DWO3176010/LC | 70     |
| RADIAL DOUBLE STATIC TOOL                         | External, Internal          | C4    |  | DWO3424020/LC | 80     |
| AXIAL SINGLE STATIC TOOL                          | Internal                    | C4    |  | DWO2644010/LC | 72     |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C4    |  | DWO3414010/LC | 115    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C5    |  | DWO3515010/LC | 100    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C6    |  | DWO3166010/LC | 100    |
| AXIAL OPPOSITE FACE REAR SET<br>TWIN STATIC TOOL  | External, Internal          | C4    |  | DWO3404020/LC | 115    |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## ROMI





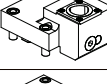
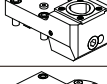
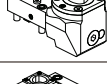
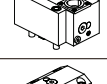
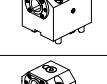
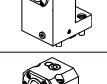
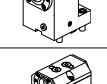
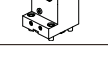
GL450M/Y/S

| Application                         | Coolant                     | Size | Fig.   | Description   | H (mm) |
|-------------------------------------|-----------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM     | External,<br>Internal 7 MPa | C5   |    | DWO3030250    | 77     |
| AXIAL DRIVEN TOOL TOOL<br>6,000 RPM | External                    | C4   |    | DWO3430140    | 110    |
|                                     | External,<br>Internal 7 MPa | C4   |  | DWO3430240    | 110    |
|                                     | External                    | C5   |  | DWO3430150    | 110    |
|                                     | External,<br>Internal 7 MPa | C5   |  | DWO3430250    | 110    |
| RADIAL SINGLE REAR SET STATIC TOOL  | External, Internal          | C5   |    | DWO0505010/LC | 46     |
| RADIAL SINGLE REAR SET STATIC TOOL  | External, Internal          | C6   |   | DWO3716010/LC | 45     |
| AXIAL SINGLE STATIC TOOL            | Internal                    | C6   |  | DWO0516010/LC | 60     |
| AXIAL SINGLE STATIC TOOL            | External, Internal          | C6   |  | DWO2856010/LC | 90     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

# SMEC (SAMSUNG)





SL20/25/35MC, PL20/25/35MC  
 SL25ASY, PL2000/2500SY, SL2000T2Y2  
 SL2500/3000M/Y/SY, SL3500Y, SLV500M

| Application                                       | Coolant                     | Size  | Fig.   | Description   | H (mm) |
|---|-----------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                   | External                    | C4    |    | DWO3150140    | 62     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3150240    | 62     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3080140    | 72     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3080240    | 72     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3110140    | 85     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3110240    | 85     |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |    | DWO3140240    | 85     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C4    |   | DWO1384010/LC | 60     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C5    |  | DWO3505010/LC | 50     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C6    |  | DWO3176010/LC | 70     |
| RADIAL DOUBLE STATIC TOOL                         | External, Internal          | C4    |  | DWO3424020/LC | 80     |
| AXIAL SINGLE STATIC TOOL                          | Internal                    | C4    |  | DWO2644010/LC | 72     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C4    |  | DWO3414010/LC | 115    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C5    |  | DWO3515010/LC | 100    |
| AXIAL OPPOSITE FACE REAR SET<br>TWIN STATIC TOOL  | External, Internal          | C4    |  | DWO3404020/LC | 115    |

Description for L hand added "LC"  
 RPM: maximum number of revolutions  
 H: Center height position

## SMEC (SAMSUNG)


SL45MC, PL45MC/LY, SLV80M, SLV800M  
PL800VM, SL4500M/Y, SL5500M

| Application                     | Coolant                     | Size | Fig.  | Description   | H (mm) |
|---------------------------------|-----------------------------|------|---|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM | Internal 7 MPa              | C5   |   | DWO3030250    | 77     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External                    | C4   |   | DWO0610140    | 60     |
|                                 | External,<br>Internal 7 MPa | C4   |   | DWO0610240    | 60     |
|                                 | External                    | C5   |   | DWO0610150    | 60     |
|                                 | External,<br>Internal 7 MPa | C5   |   | DWO0610250    | 60     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External                    | C4   |   | DWO3430140    | 110    |
|                                 | External,<br>Internal 7 MPa | C4   |   | DWO3430240    | 110    |
|                                 | External                    | C5   |   | DWO3430150    | 110    |
|                                 | External,<br>Internal 7 MPa | C5   |   | DWO3430250    | 110    |
| AXIAL SINGLE STATIC TOOL        | External Internal           | C6   |  | DWO2856010/LC | 90     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## SMEC (SAMSUNG)




SL60/65MC, PL60/65/70/80MC  
SLV1000M, SL6500/8500M

| Application              | Coolant  | Size | Fig.   | Description   | H (mm) |
|--------------------------|----------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL | Internal | C6   |  | DWO3106010/LC | 85     |

Description for L hand added "LC", H: Center height position

## SMEC (SAMSUNG)


PL240LM, PL250VM  
SL1500/2000M/Y/SY

| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C4   |  | DWO0444010/LC | 40     |
| AXIAL SINGLE STATIC TOOL           | External, Internal | C4   |  | DWO3804010/LC | 85     |
| AXIAL REAR SET SINGLE STATIC TOOL  | Internal           | C4   |  | DWO2434010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

# SMEC (SAMSUNG)


PL1600M/CM, PL2000M, SL15M, NS2100SY

| Application              | Coolant            | Size | Fig.   | Description   | H (mm) |
|--------------------------|--------------------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL | External, Internal | C4   |  | DWO3374010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

# SPINNER

TC300 12ST., TC600 16ST.  
TTC300 12ST., TTS42/65 (BMT45 SHORT)  
MICROTURN36/52









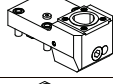
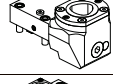
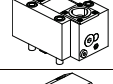
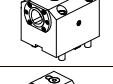
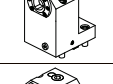
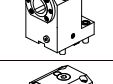
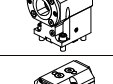

| Application              | Coolant            | Size | Fig.   | Description   | H (mm) |
|--------------------------|--------------------|------|--|---------------|--------|
| AXIAL SINGLE STATIC TOOL | External, Internal | C4   |  | DWO3374010/LC | 85     |

Description for L hand added "LC"  
H: Center height position



## SPINNER






### TC800SMCY (BMT65)

| Application                                       | Coolant                     | Size  | Fig.   | Description   | H (mm) |
|---|-----------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                   | External                    | C4    |    | DWO3150140    | 62     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3150240    | 62     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3080140    | 72     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3080240    | 72     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3110140    | 85     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3110240    | 85     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3120140    | 95     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3120240    | 95     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |   | DWO3130140    | 100    |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3130240    | 100    |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |  | DWO3140240    | 85     |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4    |  | DWO3770240    | 100    |
| SINGLE REAR SET STATIC TOOL                       | External, Internal          | C4    |  | DWO1384010/LC | 60     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C5    |  | DWO3505010/LC | 50     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C6    |  | DWO3176010/LC | 70     |
| RADIAL DOUBLE STATIC TOOL                         | External, Internal          | C4    |  | DWO3424020/LC | 80     |
| AXIAL SINGLE STATIC TOOL                          | Internal                    | C4    |  | DWO2644010/LC | 72     |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C4    |  | DWO3414010/LC | 115    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C5    |  | DWO3515010/LC | 100    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C6    |  | DWO3166010/LC | 100    |
| AXIAL OPPOSITE FACE REAR SET<br>TWIN STATIC TOOL  | External, Internal          | C4    |  | DWO3404020/LC | 115    |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

# TAKAMAZ

XW-130/130m/200/200, XWT-10 8/10ST.

| Application                       | Coolant            | Size | Fig.  | Description                       | H (mm) |
|-----------------------------------|--------------------|------|---|-----------------------------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM   | External           | C3   |   | C3-DDC-OC-TAK360-R <sup>*1)</sup> | 72     |
|                                   |                    |      |   | C3-DDC-OC-TAK360-L <sup>*2)</sup> | 72     |
| AXIAL DRIVEN TOOL<br>6,000 RPM    | External, Internal | C3   |   | C3-DDS-WC-TAK326                  | 106    |
| RADIAL SINGLE STATIC TOOL         | Internal           | C4   |   | C4-DTO-IC-TAK429-R/L              | 75     |
| AXIAL SINGLE STATIC TOOL          | Internal           | C4   |   | C4-DTI-IC-TAK406-R/L              | 115    |
| AXIAL SINGLE REAR SET STATIC TOOL | Internal           | C4   |  | C4-DTI-IC-TAK421-R/L              | 115    |

RPM: maximum number of revolutions






H: Center height position

\*1) For R turret

\*2) For L turret

# TAKAMAZ

XY-120plus 12ST., XW-60/60M 8/10ST.





| Application                       | Coolant            | Size | Fig.   | Description          | H (mm) |
|-----------------------------------|--------------------|------|--|----------------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM   | External           | C3   |  | C3-DDC-OC-TAK321     | 60     |
| AXIAL DRIVEN TOOL<br>6,000 RPM    | External, Internal | C3   |  | C3-DDS-WC-TAK322     | 75     |
| RADIAL SINGLE STATIC TOOL         | Internal           | C3   |  | C3-DTO-IC-TAK327-R/L | 60     |
| AXIAL SINGLE STATIC TOOL          | Internal           | C3   |  | C3-DTI-IC-TAK307-R/L | 80     |
| AXIAL SINGLE REAR SET STATIC TOOL | Internal           | C3   |  | C3-DTI-IC-TAK318-R/L | 80     |

RPM: maximum number of revolutions

H: Center height position



## TAKAMAZ

XW-30plus, USL-480

| Application                          | Coolant  | Size | Fig.   | Description          | H (mm) |
|--------------------------------------|----------|------|--|----------------------|--------|
| AXIAL SINGLE STATIC TOOL             | Internal | C3   |  | C3-DTS-IC-TAK308-R/L | 40     |
| AXIAL SINGLE REAR SET STATIC TOOL    | Internal | C3   |  | C3-DTS-IC-TAK309-R/L | 40     |
| AXIAL SINGLE DOUBLE STATIC TOOL      | Internal | C3   |  | C3-DTS-IC-TAK310-R/L | 40     |
| AXIAL SINGLE SIDE TRIPLE STATIC TOOL | Internal | C3   |  | C3-DTS-IC-TAK314-R/L | 40     |





## TAKAMAZ

XC-150, XL-150 8ST., XL-150 10ST.

| Application               | Coolant  | Size | Fig.   | Description          | H (mm) |
|---------------------------|----------|------|--|----------------------|--------|
| RADIAL SINGLE STATIC TOOL | Internal | C4   |  | C4-DTO-IC-TAK416-R/L | 25     |
| AXIAL SINGLE STATIC TOOL  | Internal | C4   |  | C4-DTI-IC-TAK419-R/L | 40     |

## TAKAMAZ



XC-150 12ST.

| Application                     | Coolant            | Size | Fig.   | Description          | H (mm) |
|---------------------------------|--------------------|------|--|----------------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM | External           | C3   |  | C3-DDC-OC-TAK328     | 30     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External, Internal | C3   |  | C3-DDS-WC-TAK329     | 62     |
| RADIAL SINGLE STATIC TOOL       | Internal           | C4   |  | C4-DTO-IC-TAK417-R/L | 25     |
| AXIAL SINGLE STATIC TOOL        | Internal           | C4   |  | C4-DTI-IC-TAK418-R/L | 40     |

RPM: maximum number of revolutions  
H: Center height position





# TAKAMAZ

XC-100, XT-6 8ST.

| Application               | Coolant  | Size | Fig.   | Description          | H (mm) |
|---------------------------|----------|------|--|----------------------|--------|
| RADIAL SINGLE STATIC TOOL | Internal | C3   |  | C3-DTO-IC-TAK323-R/L | 15     |
| AXIAL SINGLE STATIC TOOL  | Internal | C3   |  | C3-DTI-IC-TAK302-R/L | 40     |

# TAKAMAZ

XT-6, XT-6M 12ST.

| Application                     | Coolant            | Size | Fig.   | Description                         | H (mm) |
|---------------------------------|--------------------|------|--|-------------------------------------|--------|
| RADIAL DRIVEN TOOL<br>2,000 RPM | External           | C3   |  | C3-DDC-OC-TAK319                    | 35     |
| AXIAL DRIVEN TOOL<br>2,000 RPM  | External, Internal | C3   |  | C3-DDS-WC-TAK320                    | 38     |
| RADIAL SINGLE STATIC TOOL       | Internal           | C3   |  | C3-DTO-IC-TAK315-R/L <sup>(1)</sup> | 15     |
|                                 |                    |      |  | C3-DTO-IC-TAK317-R/L <sup>(2)</sup> | 15     |
| AXIAL SINGLE STATIC TOOL        | Internal           | C3   |  | C4-DTI-IC-TAK316-R/L                | 45     |

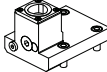

RPM: maximum number of revolutions H: Center height position

\*1) For XT-6

\*2) For XT-6M

## TAKISAWA












EX308/310/508/510/708/710/910, TC350MC, TT350MC  
 VTL450M, NEX108/110/908/910M, LA200/250/300M/Y  
 LA250TS 15ST., FX-800, MX-800, EX2000M/Y, LX2500M/Y

| Application               | Coolant            | Size | Fig.   | Description   | H (mm) |
|---------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE STATIC TOOL | External, Internal | C4   |  | TKW0844010/LC | 75     |
| AXIAL SINGLE STATIC TOOL  | External, Internal | C4   |  | TKW0854010/LC | 90     |

Description for L hand added "LC"  
 H: Center height position

# TAKISAWA





## TS3000/4000/5000Y/YS 12ST. (3 KEYS TURRET)

| Application  | Coolant                  | Size  | Fig.   | Description   | H (mm) |
|--|--------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                    | External                 | C4    |    | MNL0530140    | 70     |
|  | External                 | C5    |  | MNL0530150    | 70     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                     | External                 | C4    |    | MNL0520140    | 90     |
|  | External, Internal 7 MPa | C4    |  | MNL0520240    | 90     |
|  | External                 | C5    |  | MNL0520150    | 90     |
|  | External, Internal 7 MPa | C5    |  | MNL0520250    | 90     |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>10,000 RPM | External                 | C4+C4 |    | MNL1170240    | 90     |
| RADIAL SINGLE STATIC TOOL                          | Internal                 | C4    |   | MNL0464010/LC | 90     |
|  | Internal                 | C5    |  | MNL0465010/LC | 95     |
|  | Internal                 | C5    |  | MNL0465015/LC | 95     |
|  | Internal                 | C6    |  | MNL0466010/LC | 108    |
| RADIAL DOUBLE STATIC TOOL                          | Internal                 | C4    |  | MNL0474020/LC | 90     |
|  | Internal                 | C5    |  | MNL0475020/LC | 95     |
| RADIAL DOUBLE 2+2 STATIC TOOL                      | Internal                 | C3    |  | MNL0483240/LC | 105    |
| RADIAL DOUBLE 3+3 STATIC TOOL                      | Internal                 | C3    |  | MNL0483260/LC | 105    |
| AXIAL SINGLE STATIC TOOL                           | Internal                 | C4    |  | MNL0494010/LC | 90     |
|  | External, Internal       | C5    |  | MNL0495010/LC | 90     |
|  | Internal                 | C5    |  | MNL0495015/LC | 120    |
|  | Internal                 | C6    |  | MNL0496010/LC | 90     |
| AXIAL SINGLE STATIC TOOL                           | External, Internal       | C6    |  | MNL1196010/LC | 90     |
| AXIAL SINGLE REAR SET STATIC TOOL                  | Internal                 | C4    |  | MNL0514010/LC | 90     |
|  | Internal                 | C5    |  | MNL0515010/LC | 90     |
| AXIAL OPPOSITE FACE TWIN STATIC TOOL               | Internal                 | C4    |  | MNL0504020/LC | 90     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

## TAKISAWA

TT-2100G/CMG 10ST., TT-2100G 12ST., TT-2600G/CMG 10ST.

| Application                     | Coolant            | Size | Fig.   | Description                         | H (mm) |
|---------------------------------|--------------------|------|--|-------------------------------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM | External           | C4   |  | C4-DDC-OC-TKS301 <sup>*1)</sup>     | 86     |
|                                 | External           | C4   |  | C4-DDC-OC-TKS302 <sup>*2)</sup>     | 86     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External, Internal | C4   |  | C4-DDS-WC-TKS409 <sup>*1)</sup>     | 95     |
|                                 | External, Internal | C4   |  | C4-DDS-WC-TKS410 <sup>*2)</sup>     | 105    |
| RADIAL SINGLE STATIC TOOL       | Internal           | C4   |  | C4-DTO-IC-TKS403-R/L <sup>*3)</sup> | 75     |
|                                 | Internal           | C4   |  | C4-DTO-IC-TKS405-R/L <sup>*4)</sup> | 75     |
|                                 | Internal           | C4   |  | C4-DTO-IC-TKS406-R/L <sup>*2)</sup> | 85     |
| AXIAL SINGLE STATIC TOOL        | Internal           | C3   |  | C4-DTI-IC-TKS301-R/L <sup>*3)</sup> | 86     |
|                                 | Internal           | C4   |  | C4-DTI-IC-TKS404-R/L <sup>*4)</sup> | 105    |
|                                 | Internal           | C4   |  | C4-DTI-IC-TKS424-R/L <sup>*2)</sup> | 110    |

RPM: maximum number of revolutions

H: Center height position

\*1) For TT-2100G CMG 10ST.





\*2) For TT-2600G/CMG 10ST.

\*3) For TT-2100G/CMG 10ST.

\*4) For TT-2100G CMG 12ST.

# VICTOR

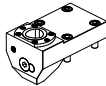


## VTURN-40/45YCM, VTURN-S36CM

| Application                     | Coolant                     | Size | Fig.   | Description   | H (mm) |
|---------------------------------|-----------------------------|------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM | External,<br>Internal 7 MPa | C5   |    | DWO3030250    | 77     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External                    | C4   |    | DWO0610140    | 60     |
|                                 | External,<br>Internal 7 MPa | C4   |  | DWO0610240    | 60     |
|                                 | External                    | C5   |  | DWO0610150    | 60     |
|                                 | External,<br>Internal 7 MPa | C5   |  | DWO0610250    | 60     |
| AXIAL DRIVEN TOOL<br>6,000 RPM  | External                    | C4   |    | DWO3430140    | 110    |
|                                 | External,<br>Internal 7 MPa | C4   |  | DWO3430240    | 110    |
|                                 | External                    | C5   |  | DWO3430150    | 110    |
|                                 | External,<br>Internal 7 MPa | C5   |  | DWO3430250    | 110    |
| AXIAL SINGLE STATIC TOOL        | External, Internal          | C6   |  | DWO2856010/LC | 90     |

Description for L hand added "LC"  
RPM: maximum number of revolutions  
H: Center height position

# VICTOR

## VTURN-A16/A20/A200CM/SCM/YCM/YSCM VTURN-Q200, VTURN-NP20CM

| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C4   |  | DWO0444010/LC | 40     |
| AXIAL SINGLE STATIC TOOL           | External, Internal | C4   |  | DWO3804010/LC | 85     |
| AXIAL SINGLE REAR SET STATIC TOOL  | Internal           | C4   |  | DWO2434010/LC | 85     |







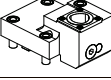
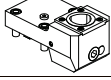
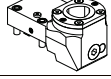
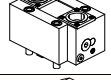
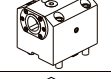
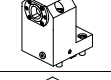
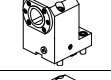
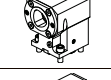
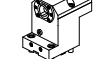
Description for L hand added "LC"  
H: Center height position



## VICTOR

VTURN-A26CM/SCM/YCM/YSCM




VTURN-S26CM

| Application                                       | Coolant                     | Size  | Fig.   | Description   | H (mm) |
|---|-----------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                   | External                    | C4    |    | DWO3150140    | 62     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3150240    | 62     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3080140    | 72     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3080240    | 72     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3110140    | 85     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3110240    | 85     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3120140    | 95     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3120240    | 95     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |   | DWO3130140    | 100    |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3130240    | 100    |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |  | DWO3770240    | 100    |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C4    |  | DWO1384010/LC | 60     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C5    |  | DWO3505010/LC | 50     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C6    |  | DWO3176010/LC | 70     |
| RADIAL DOUBLE STATIC TOOL                         | External, Internal          | C4    |  | DWO3424020/LC | 80     |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C4    |  | DWO2644010/LC | 72     |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C4    |  | DWO3414010/LC | 115    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C5    |  | DWO3515010/LC | 100    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C6    |  | DWO3166010/LC | 100    |
| AXIAL OPPOSITE FACE REAR SET<br>TWIN STATIC TOOL  | External, Internal          | C4    |  | DWO3404020/LC | 115    |

Description for L hand added "LC"  
H: Center height position

# VICTOR









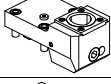
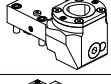
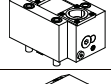
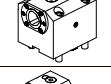
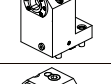
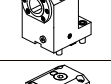
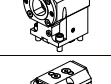

## VTURN-V1000 (CM)

| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C5   |  | DWO3095010/LC | 35     |
| RADIAL SINGLE REAR SET STATIC      | External, Internal | C6   |  | DWO3096010/LC | 35     |
| AXIAL SINGLE REAR SET STATIC TOOL  | Internal           | C6   |  | DWO3106010/LC | 85     |

Description for L hand added "LC"  
 H: Center height position

## YCM

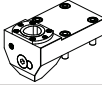


NT2000/2500 12ST.

| Application                                       | Coolant                     | Size  | Fig.   | Description   | H (mm) |
|---|-----------------------------|-------|--|---------------|--------|
| RADIAL DRIVEN TOOL<br>6,000 RPM                   | External                    | C4    |    | DWO3150140    | 62     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3150240    | 62     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3080140    | 72     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3080240    | 72     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3110140    | 85     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3110240    | 85     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |    | DWO3120140    | 95     |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3120240    | 95     |
| AXIAL DRIVEN TOOL<br>6,000 RPM                    | External                    | C4    |   | DWO3130140    | 100    |
|   | External,<br>Internal 7 MPa | C4    |  | DWO3130240    | 100    |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |  | DWO3140240    | 85     |
| AXIAL OPPOSITE FACE TWIN DRIVEN TOOL<br>6,000 RPM | External                    | C4+C4 |  | DWO3770240    | 100    |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C4    |  | DWO1384010/LC | 60     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C5    |  | DWO3505010/LC | 50     |
| RADIAL SINGLE REAR SET STATIC TOOL                | External, Internal          | C6    |  | DWO3176010/LC | 70     |
| RADIAL DOUBLE STATIC TOOL                         | External, Internal          | C4    |  | DWO3424020/LC | 80     |
| AXIAL SINGLE STATIC TOOL                          | Internal                    | C4    |  | DWO2644010/LC | 72     |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C4    |  | DWO3414010/LC | 115    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C5    |  | DWO3515010/LC | 100    |
| AXIAL SINGLE STATIC TOOL                          | External, Internal          | C6    |  | DWO3166010/LC | 100    |
| AXIAL OPPOSITE FACE REAR SET<br>TWIN STATIC TOOL  | External, Internal          | C4    |  | DWO3404020/LC | 115    |

Description for L hand added "LC"  
H: Center height position

# YCM

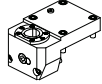
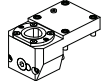
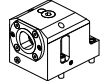
## NT2000 16ST., NTC-16000/2000M/LM/LS/Y/LY/LSY

| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C4   |  | DWO0444010/LC | 40     |
| AXIAL SINGLE STATIC TOOL           | External, Internal | C4   |  | DWO3804010/LC | 85     |
| AXIAL SINGLE REAR SET STATIC TOOL  | Internal           | C4   |  | DWO2434010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

# YCM

## TC46

| Application                        | Coolant            | Size | Fig.   | Description   | H (mm) |
|------------------------------------|--------------------|------|--|---------------|--------|
| RADIAL SINGLE REAR SET STATIC TOOL | External, Internal | C5   |  | DWO3095010/LC | 35     |
| RADIAL SINGLE REAR SET STATIC      | External, Internal | C6   |  | DWO3096010/LC | 35     |
| AXIAL SINGLE REAR SET STATIC TOOL  | Internal           | C6   |  | DWO3106010/LC | 85     |

Description for L hand added "LC"  
H: Center height position

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