eitag
cutting tools & supplies

# TOOLING SYSTEM

2026

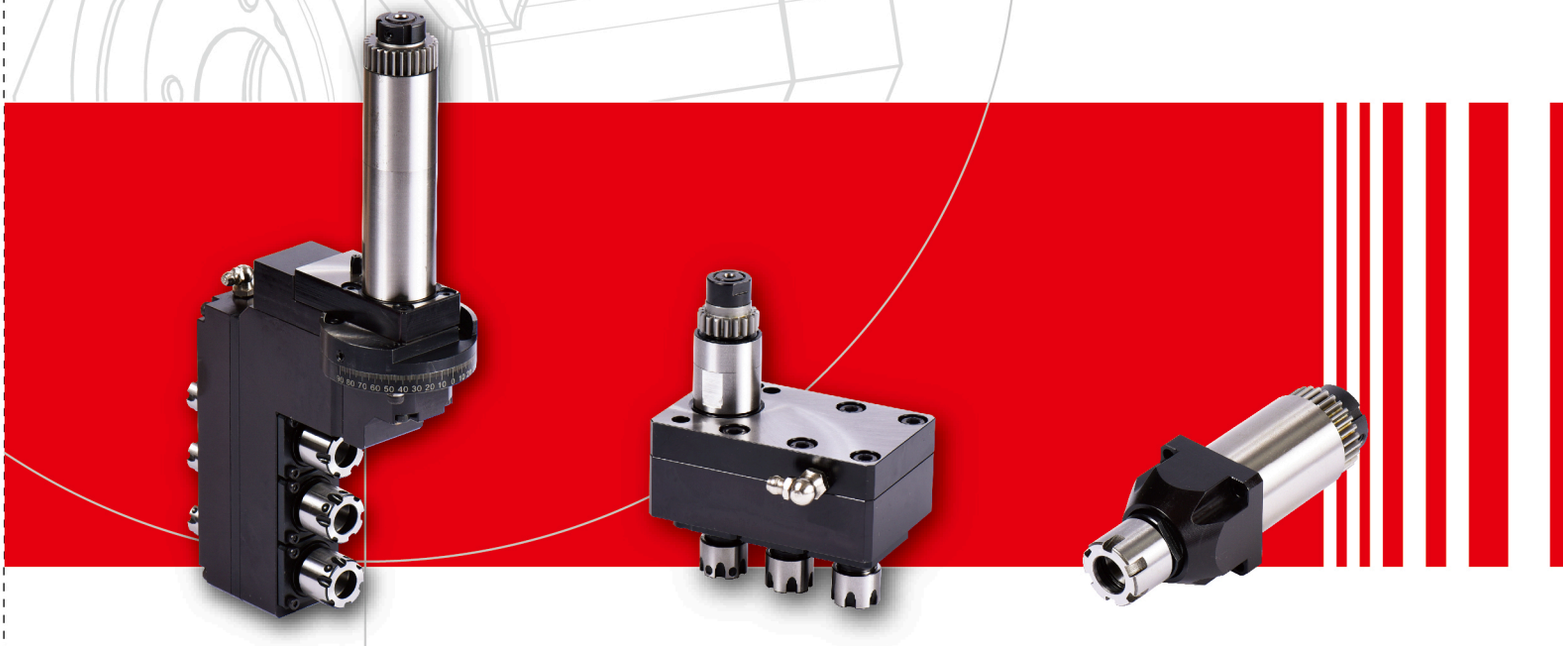
STAR / CINCOM / TSUGAMI / NOMURA

MIYANO / HANWHA / DOOSAN

NEXTURN

TOOLS

CUSTOMIZED PRODUCTS



# INDEX












STAR 2

TSUGAMI 10

MIYANO 15

NOMURA 16

HANWHA 18

DOOSAN 24

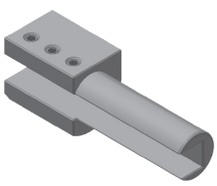
CITIZEN 26

TOOLS 34

STAR

# TOOLING FOR GANG TOOL POST

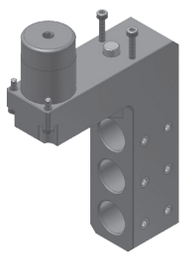
## (SHANK Ø34mm)



SR20R-11510

Turning holder

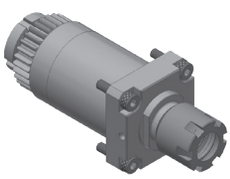
| | |
|---|---|
| TOOL SHANK | Ø34mm |
| BITE HOLDER SHANK | 12x12mm |



SR20R-11030

3 tool sleeve holder

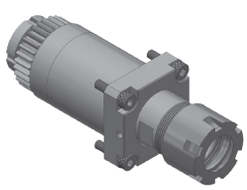
| | |
|---|---|
| TOOL SHANK | Ø34mm |
| DRILL SLEEVE SHANK | Ø22mm |



SR20R-20310

Cross drilling/milling unit

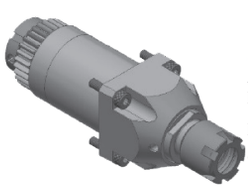
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER16M |
| STAR CODE | 33150 |



SR20R-20310-1

Cross drilling/milling unit

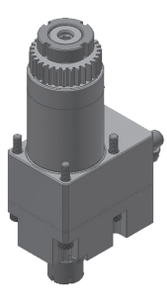
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER20M |



SR20R-20310-2

Cross drilling/milling unit

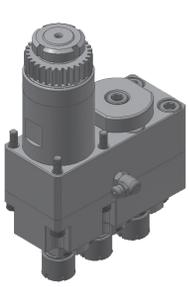
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER16M |
| STAR CODE | 57155 |



SR20R-23310

Cross drilling/milling unit

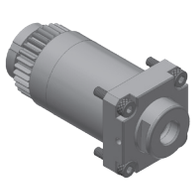
| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11M |



SR20R-22330

3 spindle cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER11M |

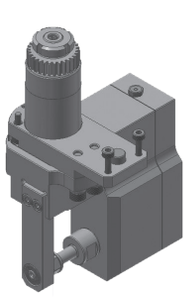


SR20R-21710

Cross milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |

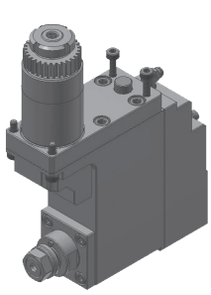
MILLING TOOL



SR20R-10710

Gear hobbing unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| CUTTER OD(MAX) | Ø30.0mm |
| CUTTER SHANK | Ø10.0mm |



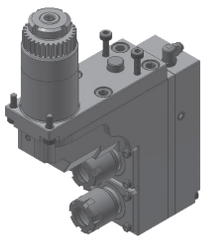
SR32J-10810

Polygon unit

| | |
|---|---|
| RATIO | 1 : 0.6 |
| RPM(MAX) | 3000 |
| TOOL CLAMPING | Polygon head KT130480058 |
| STAR CODE | 67191 |

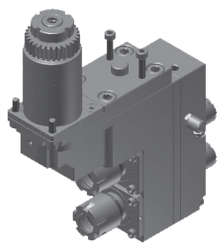
# TOOLING FOR GANG TOOL POST

## (SHANK Ø34mm)



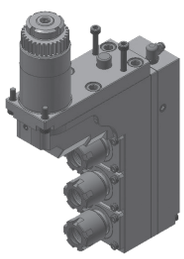
### SR20R-20120
2 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| STAR CODE | 54151 |



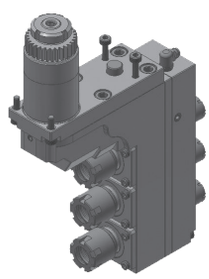
### SR20R-21120
2 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |
| STAR CODE | 66159 |



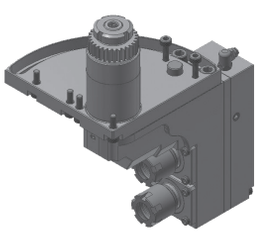
### SR20R-20130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| STAR CODE | 66151 |



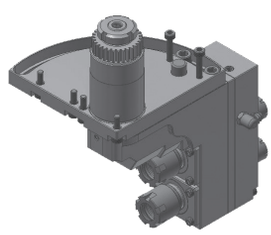
### SR20R-21130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |
| STAR CODE | 67161 / 0M155 |



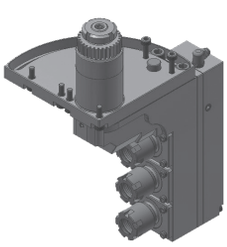
### SR20R-25020
2 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| ANGLE ADJUSTMENT | 0~90° |



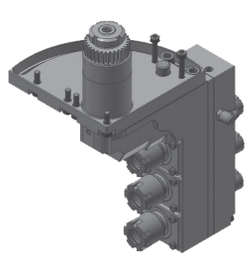
### SR20R-25120
2 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |
| ANGLE ADJUSTMENT | 0~90° |



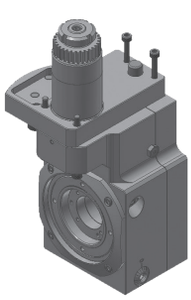
### SR20R-25030
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| ANGLE ADJUSTMENT | 0~90° |



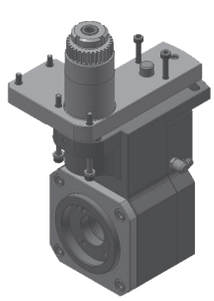
### SR20R-25130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |
| ANGLE ADJUSTMENT | 0~90° |



### SR20R-25510-1
Thread whirling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 4000 |
| THREAD(MAX) | M12 |
| HELIX ANGLE | ±20° |
| STAR CODE | 68172 |



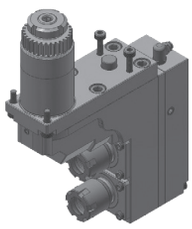
### SR32J-20510
Thread whirling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 4000 |
| THREAD(MAX) | M12 |
| HELIX ANGLE | ±15° |
| STAR CODE | 68172 |

STAR

# TOOLING FOR GANG TOOL POST

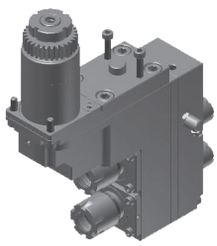
## (SHANK Ø34mm)



SR32J-20120

2 spindle drilling/milling unit

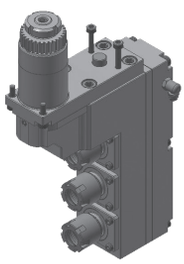
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| STAR CODE | 67152 |



SR32J-21120

2 spindle drilling/milling unit

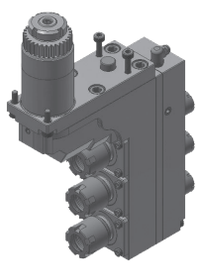
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |
| STAR CODE | 67158 |



SR32J-20130

3 spindle drilling/milling unit

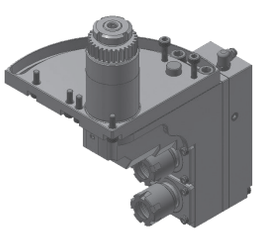
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| STAR CODE | 67151 |



SR32J-21130

3 spindle drilling/milling unit

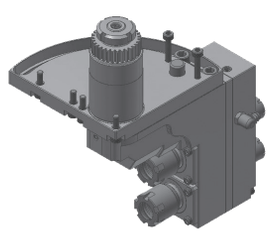
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |
| STAR CODE | 67159 |



SR32J-25020

2 spindle drilling/milling unit

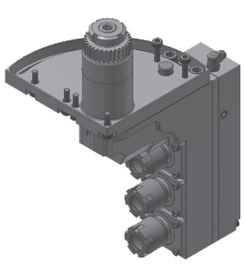
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| ANGLE ADJUSTMENT | 0~90° |



SR32J-25120

2 spindle drilling/milling unit

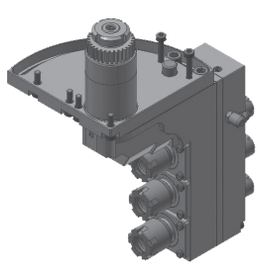
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |
| ANGLE ADJUSTMENT | 0~90° |



SR32J-25030

3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| ANGLE ADJUSTMENT | 0~90° |



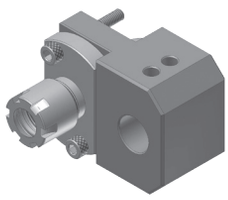
SR32J-25130

3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |
| ANGLE ADJUSTMENT | 0~90° |

# TOOLING FOR BACK TOOL POST

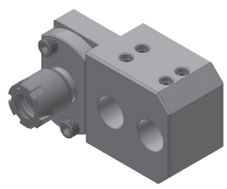
## (SHANK Ø22mm)



SR20J-31020

Extension tool holder

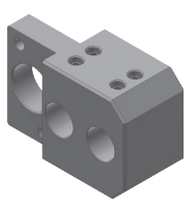
| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| DRILL SLEEVE SHANK | Ø16.0mm |
| MACHINE | SR20J/SB20R TYPE G |



SR20J-31030

Extension tool holder

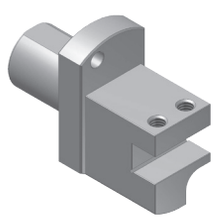
| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| DRILL SLEEVE SHANK | Ø16.0mm |
| MACHINE | SR20J |



SB20R-31030

Extension tool holder

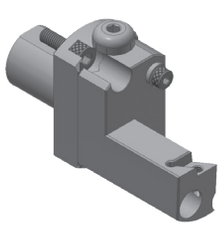
| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| DRILL SLEEVE SHANK | Ø16.0mm |
| MACHINE | SB20R TYPE G |



SR20R-31510

Turning tool holder

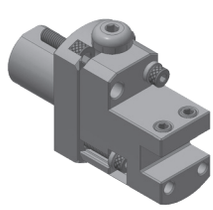
| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| BITE HOLDER SHANK | 10x10mm |



SR20R-51510

Turning holder (Center adjustable type)

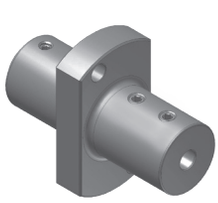
| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| INSERT TIP | MITSUBISHI DCM11T302 |
| CENTER ADJUSTMENT | ±1.0mm |



SR20R-51510-1

Turning holder (Center adjustable type)

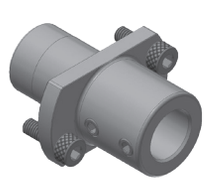
| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| BITE HOLDER SHANK | 10x10mm |
| CENTER ADJUSTMENT | ±1.0mm |



SR20R-51311

Boring sleeve

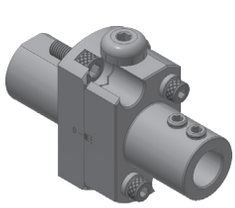
| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL ID | Ø12.0mm |
| BUSHING TYPE | BS12 |



SR32J-51311

Boring sleeve

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL ID | Ø16.0mm |
| BUSHING TYPE | BS16 |
| STAR CODE | 67175 |



SR20R-51510-2

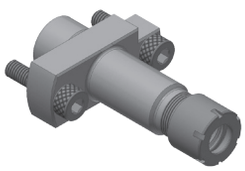
Boring sleeve (Center adjustable type)

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL ID | Ø12.0mm |
| CENTER ADJUSTMENT | ±1.0mm |
| BUSHING TYPE | BS12 |

STAR

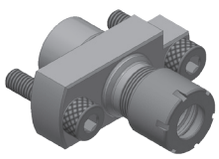
# TOOLING FOR BACK TOOL POST

## (SHANK Ø16/Ø22mm)



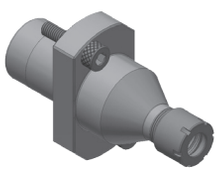
SR10J-31010
Drill sleeve

| | |
|---|---|
| TOOL SHANK | Ø16.0mm |
| TOOL CLAMPING | ER11M |
| STAR CODE | 69125 |
| MACHINE | SR10J |



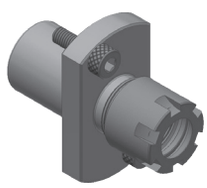
SR10J-31010-1
Drill sleeve (Short type)

| | |
|---|---|
| TOOL SHANK | Ø16.0mm |
| TOOL CLAMPING | ER11M |
| MACHINE | SR10J |



SR20R-31010
Drill sleeve

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL CLAMPING | ER11M |
| STAR CODE | 69124 |



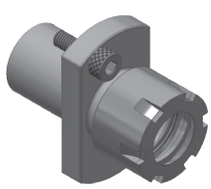
SR20R-51410
Drill sleeve

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL CLAMPING | ER16M |
| STAR CODE | 54121 |



SR20R-31011
Drill sleeve (Oil hole type)

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL CLAMPING | ER16M |
| STAR CODE | 67127 |



SR20R-31010-2
Drill sleeve

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL CLAMPING | ER20M |



SR32J-31011
Drill sleeve (Oil hole type)

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL CLAMPING | ER20M |

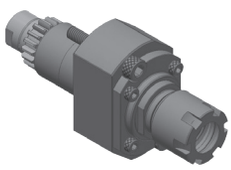


SR20R-31610
Tapping holder

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL CLAMPING | ER16M |
| TAPPING CAPACITY(MAX) | M8xP1.25 |
| STAR CODE | 54132 |

# TOOLING FOR BACK TOOL POST

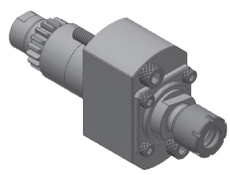
## (SHANK Ø22mm)



SR20R-30310

Drilling/milling unit

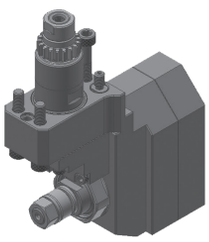
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| STAR CODE | 57161 |



SR20R-30310-1

Drilling/milling unit

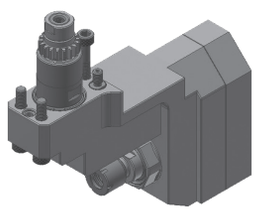
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11M |
| STAR CODE | 54161 |



SR10J-30410

Slotting unit

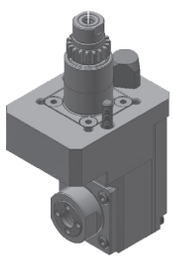
| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| SAW OD(MAX) | Ø50 |
| SAW ARBOR SHANK | Ø5.0/6.0/8.0/10.0/12.7/13.0mm |
| CENTER ADJUSTMENT | ±1.0mm |
| STAR CODE | 69165 / 69166 |



SR10J-30210

Slotting unit

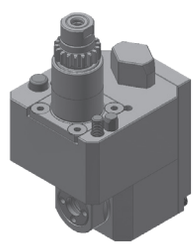
| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | ER11M |
| CENTER ADJUSTMENT | ±1.0mm |



SR10J-30210-1

Cross drilling/milling unit

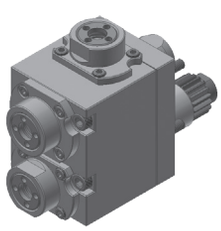
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11 |
| MACHINE | SR10J |



SR20R-30210

Cross drilling/milling unit

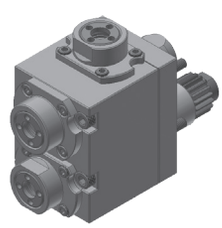
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11 |
| MACHINE | SB20R TYPE G<br>SR20RIII/SR20J/SR32J |



SR20R-30030

Cross drilling/milling and face drilling/milling unit

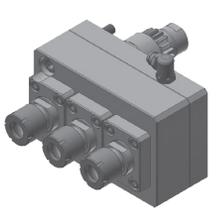
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11 |
| MACHINE | SR20RIII/SR20J/ECAS20 |



SB20R-30030

Cross drilling/milling and face drilling/milling unit

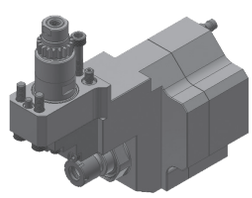
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11 |
| MACHINE | SB20R TYPE G |



SR20JC-30330

3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER11M |
| STAR ITEM NO. | 0E151 |
| MACHINE | SR20RIII/SR20J<br>SB12R/SB16R/SB20R TYPE G |



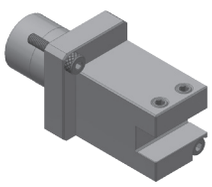
SR20R-33210

Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11M |
| CENTER ADJUSTMENT | ±1.0mm |

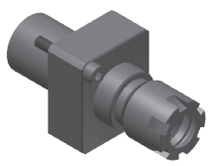
# TOOLING FOR BACK TOOL POST(SHANK Ø22mm)

## SR20RIV / SR32JII / SR38 / SW12RII / SW20 / SV20R
## SB16R TYPE G / SB20R TYPE G



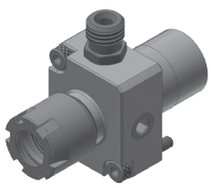
SR20RIV-31510
Turning holder

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| BITE HOLDER SHANK | 10x10mm |



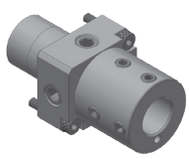
SR20RIV-51410
Drill sleeve

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL CLAMPING | ER16M |
| STAR CODE | 0R122 |



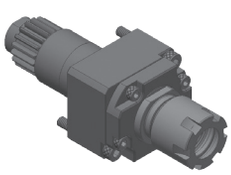
SR20RIV-31011
Drill sleeve (Oil hole type)

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL CLAMPING | ER16M |
| STAR CODE | 0R123 |



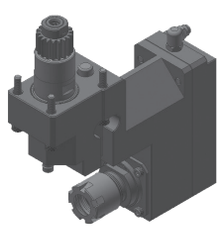
SR20RIV-51311
Boring bar sleeve (Oil hole type)

| | |
|---|---|
| TOOL SHANK | Ø22.0mm |
| TOOL ID | Ø16.0mm |
| BUSHING TYPE | BS16 |
| STAR CODE | 10111 |



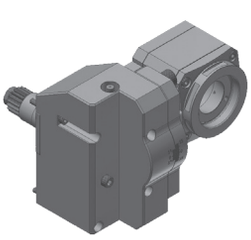
SR20RIV-30310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| STAR CODE | 0R161 |



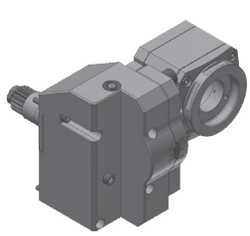
SR20RIV-30210
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| STAR CODE | 0R151 |



SR20RIV-30510
Thread whirling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 4000 |
| THREAD(MAX) | M10 |
| HELIX ANGLE | ±15° |
| MACHINE | SR20RIV |

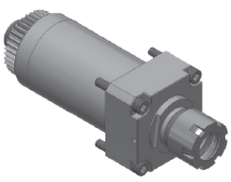


SR38-30510
Thread whirling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 4000 |
| THREAD(MAX) | M10 |
| HELIX ANGLE | ±15° |
| MACHINE | SR32JII/SR38 |

# TOOLING FOR GANG TOOL POST (SHANK Ø44mm)

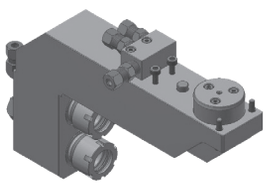
## MACHINE : SR38



SR38R-20310

Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER20M |
| STAR CODE | 10168 |



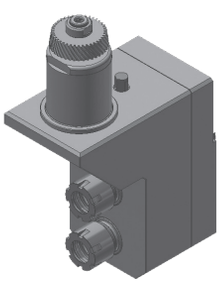
SR38-12021

2 tool deep hole drill holder

| | |
|---|---|
| TOOL SHANK | Ø44.0mm |
| TOOL CLAMPING | ER25M |
| DRILLING DEPTH(MAX) | 138mm |

# TOOLING FOR TURRET TOOL POST (SHANK Ø44mm)

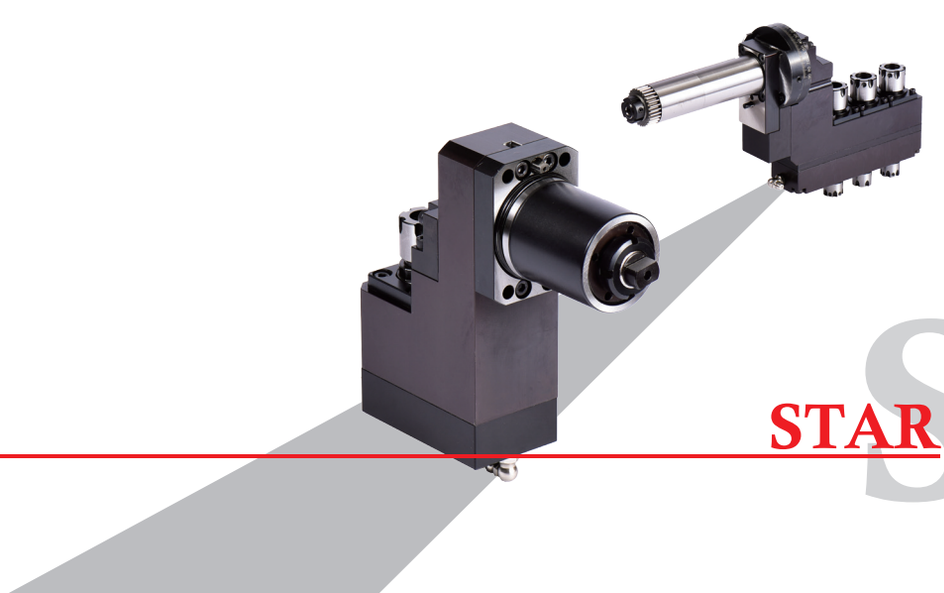
## MACHINE : SV32 / SV38R / ECAS32T / ST38



SV32-R220200N

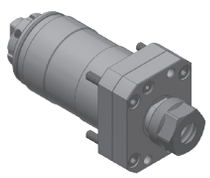
2 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER20M |
| | Back side : ER16M |



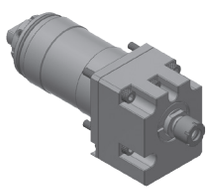
# TOOLING FOR GANG TOOL POST

## B0265/B0266/B0325/B0326/B0265II/B0266II
## B0325II/B0326II/B0385/SS20/SS32/HS26/HS32



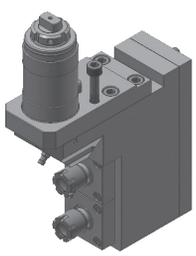
B0385-20310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16A |
| TSUGAMI CODE | 3268-T051 |



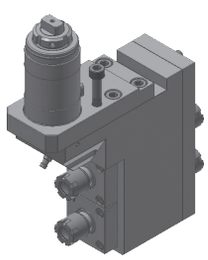
B0385-23310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11M |
| TSUGAMI CODE | 3290-Y670 |



B0385-20120
2 spindle drilling/milling unit

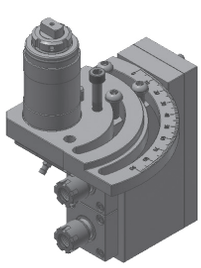
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| TSUGAMI CODE | 3268-Y241 |



B0385-21120
2 spindle drilling/milling unit

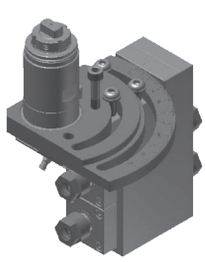
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER16M |
| TSUGAMI CODE | 3282-Y901 |

Not available for SS20/SS32/HS26/HS32



B0385-25020
2 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| ANGLE ADJUSTMENT | 0~90° |
| TSUGAMI CODE | 3268-Y281 |

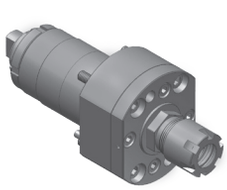


B0385-25120
2 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER16M |
| ANGLE ADJUSTMENT | 0~90° |
| TSUGAMI CODE | 3282-Y921 |

Not available for SS20/SS32/HS26/HS32

# B0125III/B0205III TOOLING FOR GANG TOOL POST

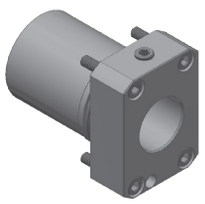


S206-20310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER16M |
| TSUGAMI CODE | 3281-T051 |

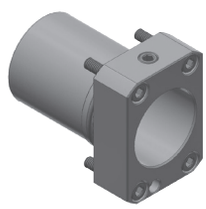
# TOOLING FOR BACK TOOL POST

## B0265/B0266/B0325/B0326/B0265II/B0266II
## B0325II/B0326II/B0385/SS267/SS327/HS267/HS327



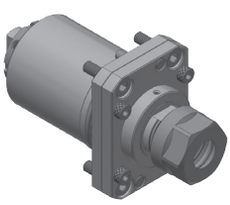
B0385-31310
Tool adapter

| | |
|---|---|
| TOOL SHANK | Ø42.0mm |
| SLEEVE SHANK | Ø25.0mm |
| TSUGAMI CODE | 3282-Y211 |



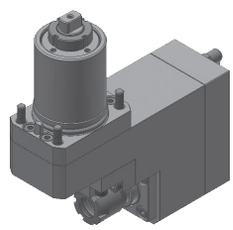
B0385-31310 -1
Tool adapter

| | |
|---|---|
| TOOL SHANK | Ø42.0mm |
| SLEEVE SHANK | Ø32.0mm |
| TSUGAMI CODE | 3282-Y212 |



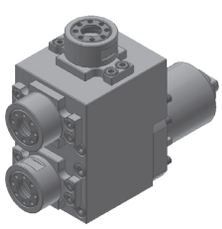
B0385-30310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16A |
| TSUGAMI CODE | 3282-Y041 |



B0385-30210
Cross drilling/milling unit

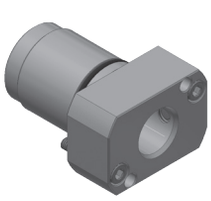
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| TSUGAMI CODE | 3290-Y041 |



B0325-30030
Cross drilling/milling and
face drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | ER16 |

# B0125III/B0205III TOOLING FOR BACK TOOL POST



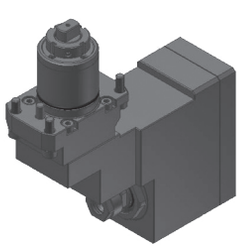
B0205-51310
Tool adapter

| | |
|---|---|
| TOOL SHANK | Ø35.0mm |
| SLEEVE SHANK | Ø20.0mm |
| TSUGAMI CODE | 3220-Y7073 |



B0205-30310
Drilling/milling unit

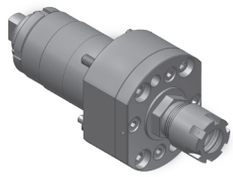
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| TSUGAMI CODE | 3220-Y7072 |



B0205-30210
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11A |
| TSUGAMI CODE | 3220-Y7074 |

# S205/S206/S207 TOOLING FOR GANG TOOL POST

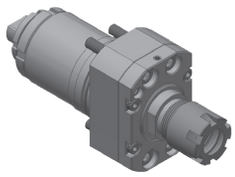


S206-20310

Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER16M |
| TSUGAMI CODE | 3281-T051 |

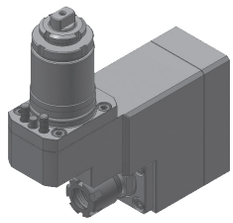
# S205/S206/S207/SS207/HS207 TOOLING FOR BACK TOOL POST



S206-30310

Drilling/milling unit

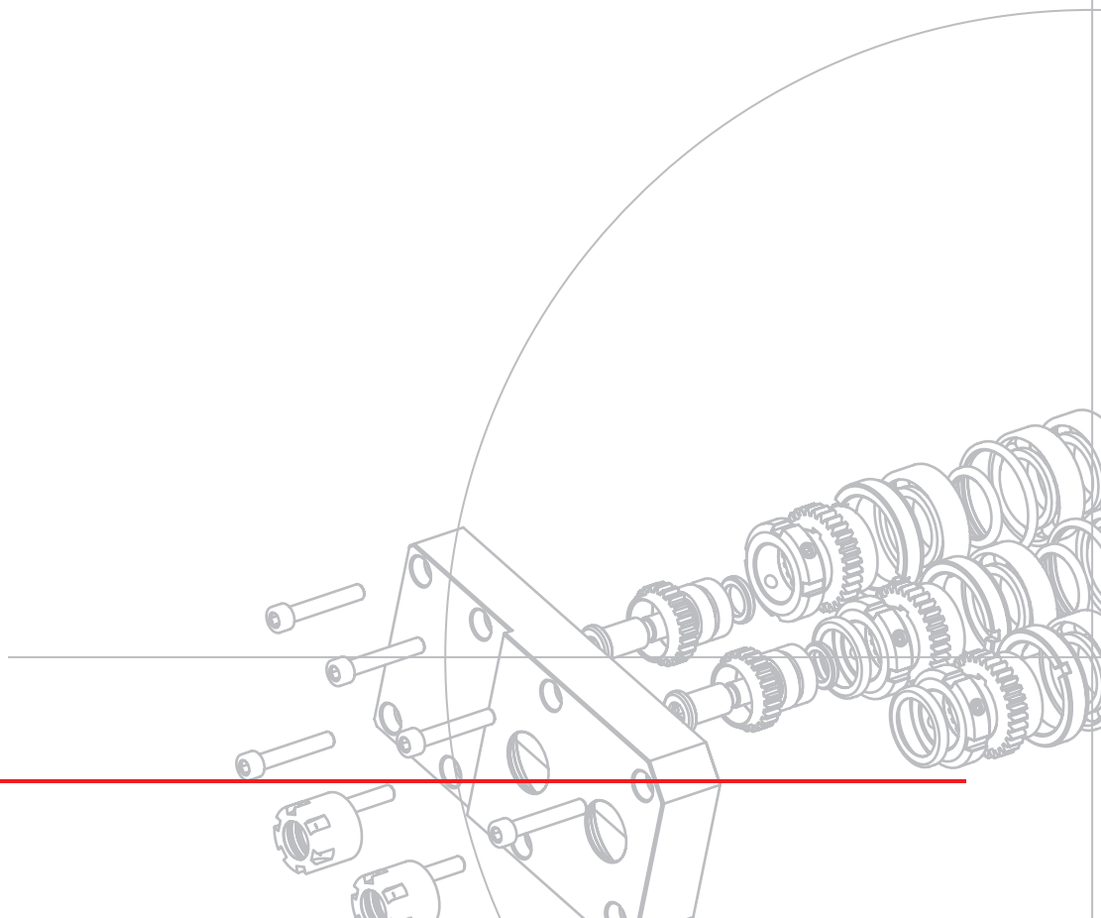
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER16M |
| TSUGAMI CODE | 3281-S080 |



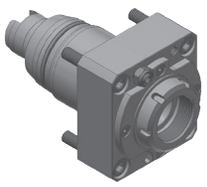
S206-30210

Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| TSUGAMI CODE | 3281-Y460 |

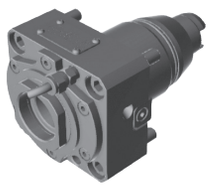


## M06D/M06SD/M06SY/M08D/M08SD/M08SY



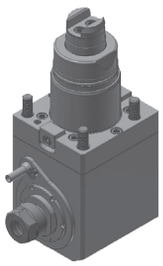
M06-A110250E
Axial driven tool holder

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER25UM |
| TSUGAMI CODE | 3295-Y161 |



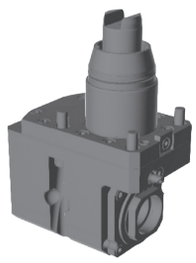
M06-A110320E
Axial driven tool holder

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER32A |
| TSUGAMI CODE | 3295-Y161 |



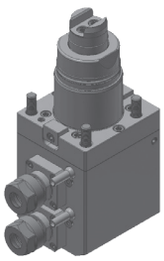
M06-R110200E
Radial driven tool holder

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER20A |
| TSUGAMI CODE | 3295-Y171 |



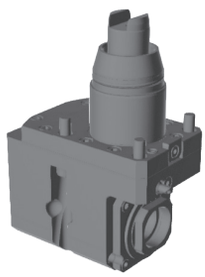
M06-R111320E
Radial driven tool holder / Offset

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER32A |



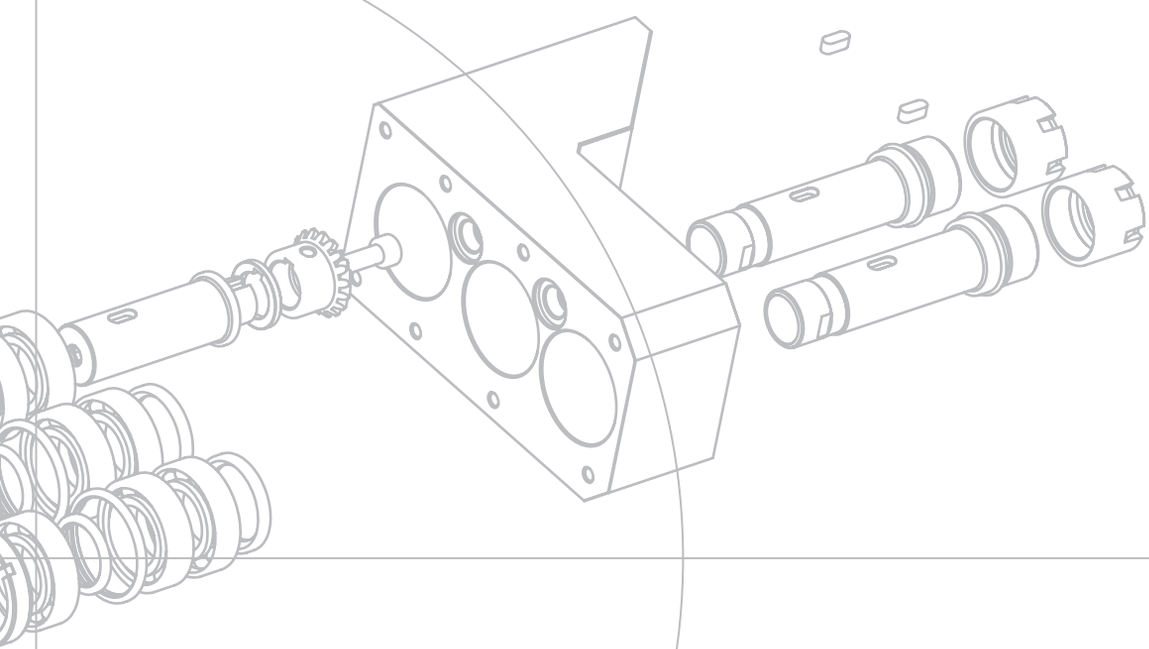
M06-R120200E
Radial driven tool holder / Double

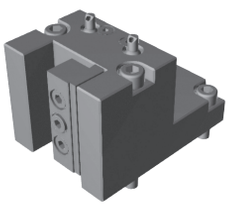
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER20A |



M06-R211320E
Radial driven tool holder
Both ends / Offset

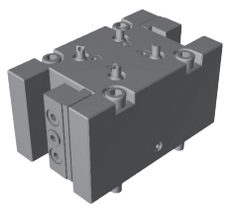
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER32A<br>Back side : ER32A |





M06-S011250E
OD Turning holder

| | |
|---|---|
| BITE HOLDER SHANK | 25x25mm |
| TSUGAMI CODE | 3295-H260 |



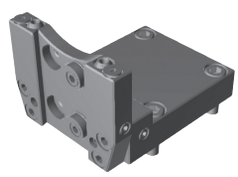
M06-S012250E
OD Turning holder / Double

| | |
|---|---|
| BITE HOLDER SHANK | 25x25mm |
| TSUGAMI CODE | 3295-H210 |



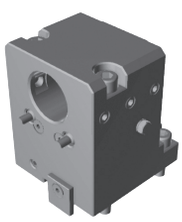
M06-S021250E
ID Turning holder

| | |
|---|---|
| BITE HOLDER SHANK | 25x25mm |



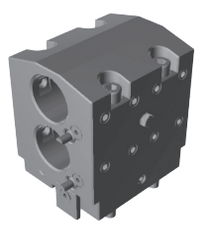
M06-S030320E
Cut off holder

| | |
|---|---|
| BITE HOLDER SHANK | 32mm |
| TSUGAMI CODE | 3295-H250 |



M06-S041400E
Boring bar holder

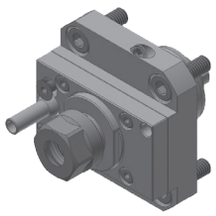
| | |
|---|---|
| DRILL SHANK | Ø40mm |
| TSUGAMI CODE | 3295-H290 |



M06-S042400E
Boring bar holder / Double

| | |
|---|---|
| DRILL SHANK | Ø40mm |
| TSUGAMI CODE | 3295-H220 |

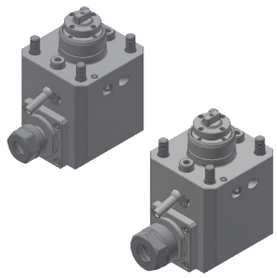
## BNA34C/BNA42C/BNA34S/BNA42S/BNA34DHY
## BNA42DHY/BNA42MSY



BMT38X371610

Axial driven tool holder

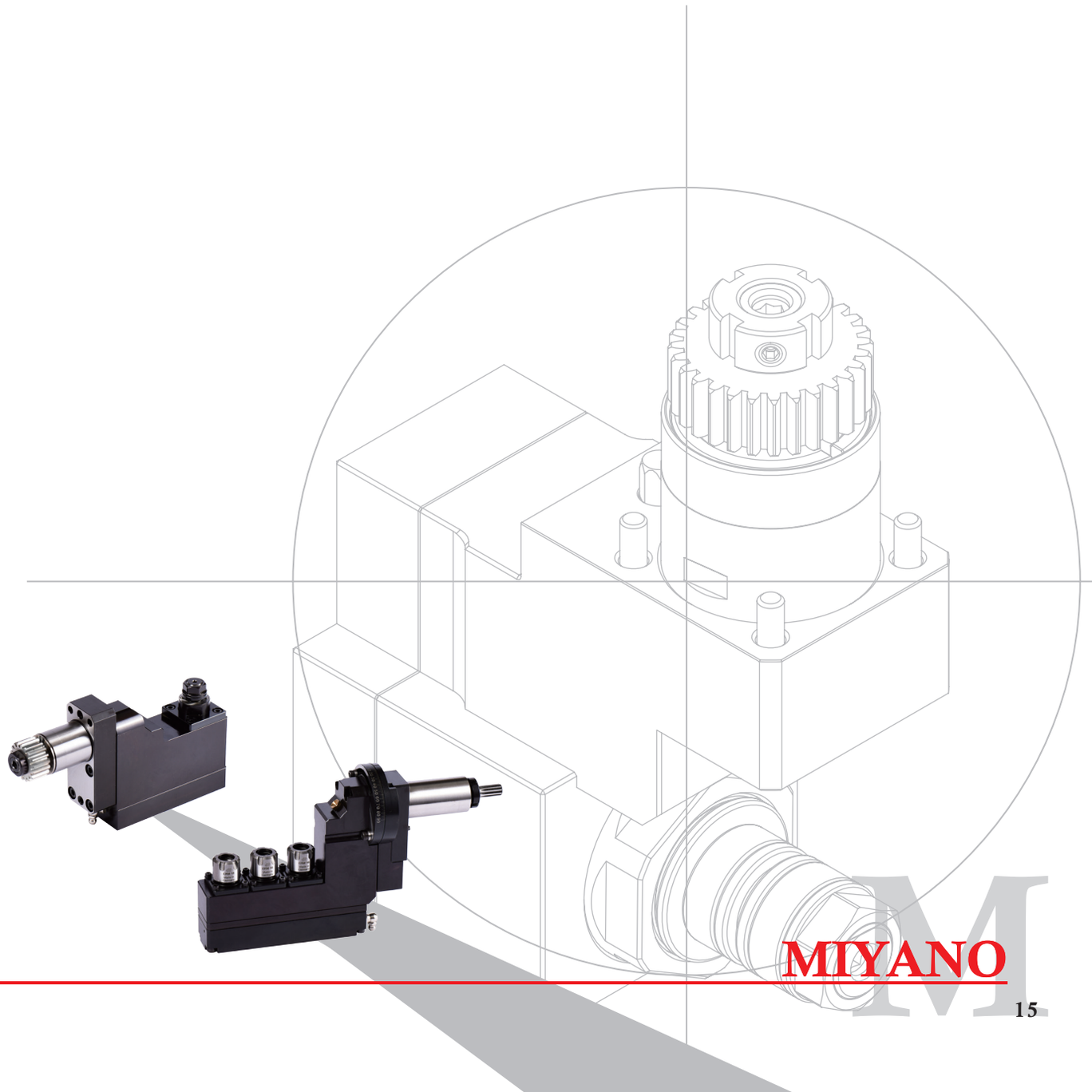
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16A |
| MIYANO CODE | CG70A000 |



BMT38Z371610/BMT38Z371610-1

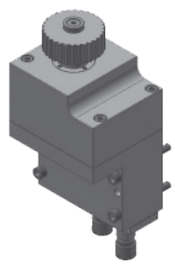
Radial driven tool holder

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | BMT38Z371610 : ER16A |
| | BMT38Z371610-1 : ER20A |
| MIYANO CODE | CG70C000 |



# NN16SB6/NN16SB7

## TOOLING FOR GANG TOOL POST



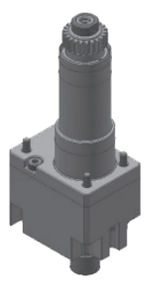
NN16S-13220

2 spindle cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11M |

# NN20J2

## TOOLING FOR GANG TOOL POST



NN20J2-23310

Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11M |

# NN32YB/NN32YB2

## TOOLING FOR GANG TOOL POST



NN32YB-20310

Cross drilling/milling unit

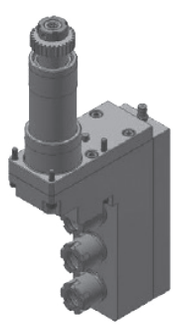
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16A |



NN32YB-23310

Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11M |



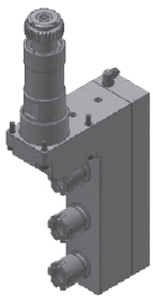
NN32YB2-20130

3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |

# NN38UB8

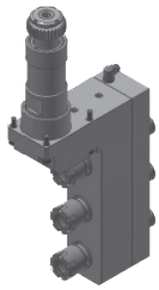
## TOOLING FOR GANG TOOL POST



NN38UB8-20130

3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |



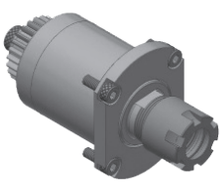
NN38UB8-21130

3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |

# NN25UB8/NN32UB8/NN32YB/NN32YB2

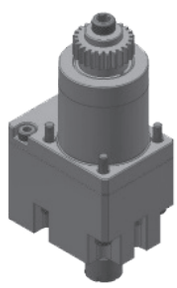
## TOOLING FOR BACK TOOL POST



NN25UB8-30310

Drilling/milling unit

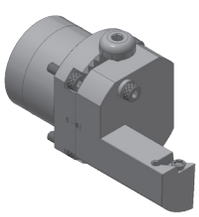
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |



NN32YB3-33310

Drilling/milling unit

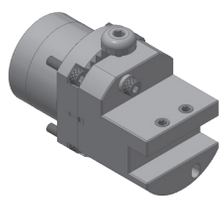
| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11M |



NN25UB8-51510

Turning holder (Center adjustable type)

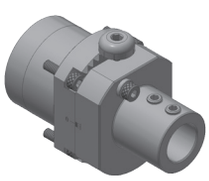
| | |
|---|---|
| TOOL SHANK | Ø38.0mm |
| INSERT TIP | MITSUBISHI |
| | DCM11T302 |
| CENTER ADJUSTMENT | ±1.0mm |



NN25UB8-51510-1

Turning holder (Center adjustable type)

| | |
|---|---|
| TOOL SHANK | Ø38.0mm |
| BITE HOLDER SHANK | 12x12mm |
| CENTER ADJUSTMENT | ±1.0mm |

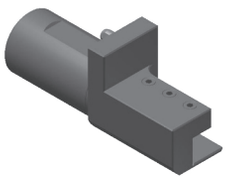


NN25UB8-51510-2

Boring holder (Center adjustable type)

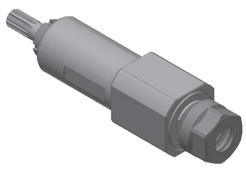
| | |
|---|---|
| TOOL SHANK | Ø38.0mm |
| TOOL ID | Ø16.0mm |
| BUSHING TYPE | BS16 |
| CENTER ADJUSTMENT | ±1.0mm |

# TOOLING FOR GANG TOOL POST



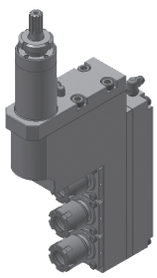
XD20H-11510
Turning holder

| | |
|---|---|
| TOOL SHANK | Ø30mm |
| BITE HOLDER SHANK | 12x12mm |



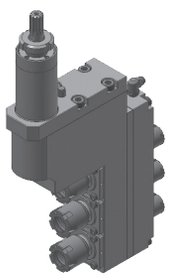
XD20H-10310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER16A |



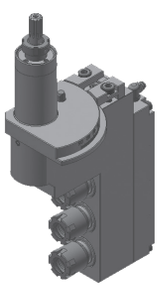
XD20H-10130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |



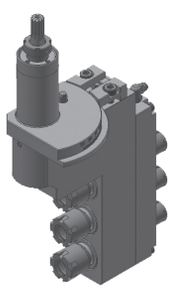
XD20H-11130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M<br>Back side : ER11M |



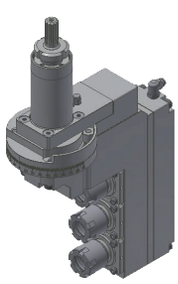
XD20H-15030
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| ANGLE ADJUSTMENT | 0~90° |



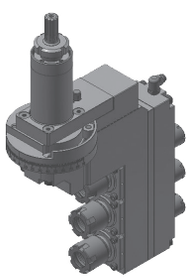
XD20H-15130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M<br>Back side : ER11M |
| ANGLE ADJUSTMENT | 0~90° |



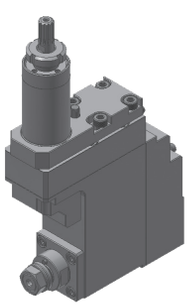
XD20H-16330
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| ANGLE ADJUSTMENT | ±90° |



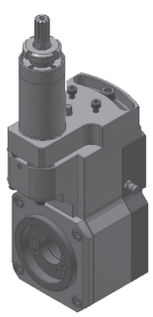
XD20H-16230
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M<br>Back side : ER11M |
| ANGLE ADJUSTMENT | ±90° |



XD20H-10810
Polygon unit

| | |
|---|---|
| RATIO | 1 : 0.6 |
| RPM(MAX) | 3000 |
| TOOL CLAMPING | Polygon head<br>KT130480058 |

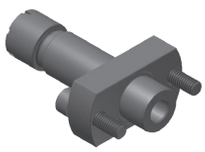


XD20H-20510
Thread whirling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| THREAD(MAX) | M12 |
| HELIX ANGLE | ±20° |

# XD12/XD16/XD12II/XD16II

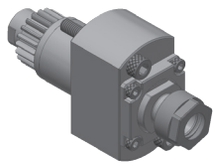
## TOOLING FOR BACK TOOL POST



XD12H-31010

Drill sleeve

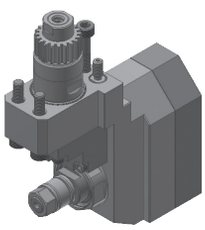
| | |
|---|---|
| TOOL SHANK | Ø15mm |
| TOOL CLAMPING | ER11M |



XD12H-30310

Drilling/milling unit

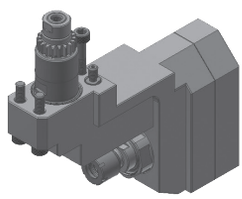
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11A |



XD12H-30410

Slotting unit

| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | Saw arbor shank |
| | Ø5.0/6.0/8.0/10.0/12.7/13.0mm |
| SAW OD(MAX) | Ø50mm |
| CENTER ADJUSTMENT | ±1.0mm |



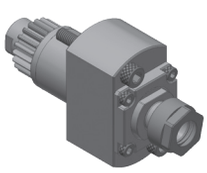
XD12H-30210

Cross drilling/milling(slotting) unit

| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | ER11M |
| CENTER ADJUSTMENT | ±1.0mm |

# XD12III/XD16III

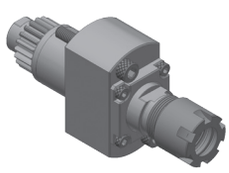
## TOOLING FOR BACK TOOL POST



XD12III-30310

Drilling/milling unit

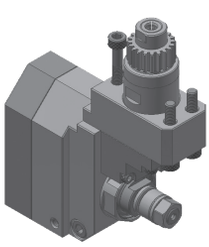
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11A |



XD12III-30310-1

Drilling/milling unit

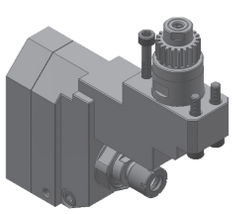
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |



XD12III-30410

Slotting unit

| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | Saw arbor shank |
| | Ø5.0/6.0/8.0/10.0/12.7/13.0mm |
| SAW OD(MAX) | Ø50mm |
| CENTER ADJUSTMENT | ±1.0mm |



XD12III-30210

Cross drilling/milling(slotting) unit

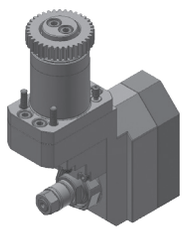
| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | ER11M |
| CENTER ADJUSTMENT | ±1.0mm |

## TOOLING FOR BACK TOOL POST



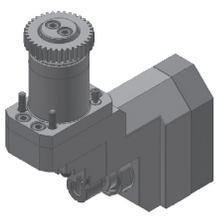
XD20H-30310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER16A |



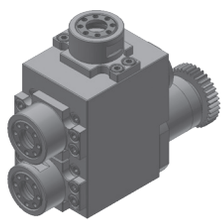
XD20H-30410
Slotting unit

| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | Saw arbor shank<br>Ø5.0/6.0/8.0/10.0/12.7/13.0mm |
| SAW OD(MAX) | Ø50mm |
| CENTER ADJUSTMENT | ±1.0mm |



XD20H-30210
Cross drilling/milling(slotting) unit

| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | ER11M |
| CENTER ADJUSTMENT | ±1.0mm |



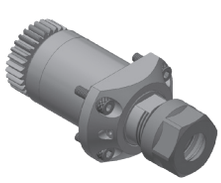
XD20H-30030
Face drilling/milling and
cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11 |

| REMARK |
|---|
| All 4 position of back tool post should be power driven when mounting this tool |
| Mounted on T24 and T25 positions |
| T24 for PIN T25 for SHANK |

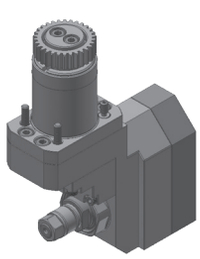
# XD20II/XD26II

## TOOLING FOR BACK TOOL POST



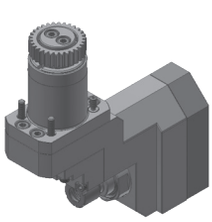
XD20II-30310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER16A |



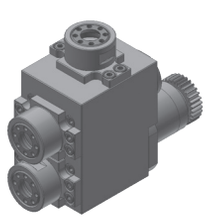
XD20II-30410
Slotting unit

| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | Saw arbor shank<br>Ø5.0/6.0/8.0/10.0/12.7/13.0mm |
| SAW OD(MAX) | Ø50mm |
| CENTER ADJUSTMENT | ±1.0mm |



XD20II-30210
Cross drilling/milling(slotting) unit

| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | ER11M |
| CENTER ADJUSTMENT | ±1.0mm |



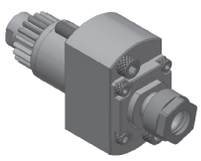
XD20II-30030
Face drilling/milling and
cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11 |

| REMARK |
|---|
| All 4 position of back tool post should be power driven when mounting this tool |
| Mounted on T24 and T25 positions |
| T24 for PIN T25 for SHANK |

# XD10

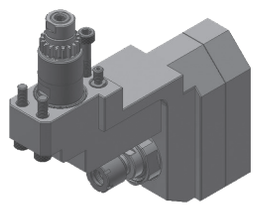
## TOOLING FOR BACK TOOL POST



XD10-30310

Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11A |



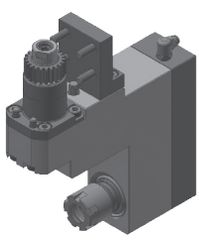
XD10-30210

Cross drilling/milling (slotting) unit

| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | ER11M |
| CENTER ADJUSTMENT | ±1.0mm |

# XD20V

## TOOLING FOR BACK TOOL POST



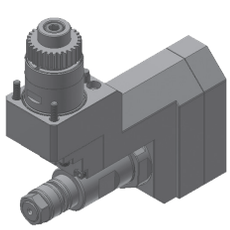
XD20V-50210

Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |

# XD32/XD35/XD38/XD32II/XD35II/XD38II

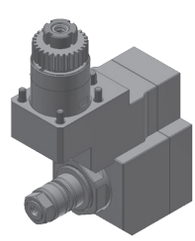
## TOOLING FOR BACK TOOL POST



XD32H-30410

Slotting unit

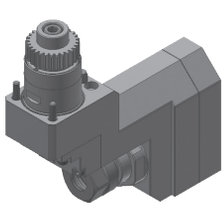
| | |
|---|---|
| RATIO | 1 : 0.77 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | Saw arbor shank<br>D12.7 / D13.0mm |
| SAW OD(MAX) | Ø50mm |
| CENTER ADJUSTMENT | ±1.0mm |



XD32H-30410A

Slotting unit

| | |
|---|---|
| RATIO | 1 : 0.77 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | Saw arbor shank<br>D12.7 / D13.0mm |
| SAW OD(MAX) | Ø50mm |
| CENTER ADJUSTMENT | ±1.0mm |

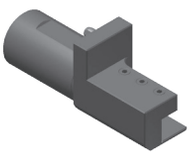


XD32H-30210

Cross drilling/milling(slotting) unit

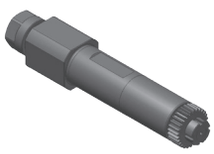
| | |
|---|---|
| RATIO | 1 : 0.77 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | ER16A |
| CENTER ADJUSTMENT | ±1.0mm |

# TOOLING FOR GANG TOOL POST



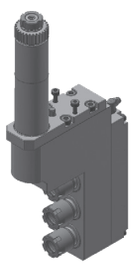
## XD20H-11510
### Turning holder

| | |
|---|---|
| TOOL SHANK | Ø30mm |
| BITE HOLDER SHANK | 12x12mm |



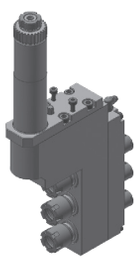
## XD20II-10310
### Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16A |



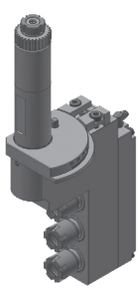
## XD20II-10130
### 3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |



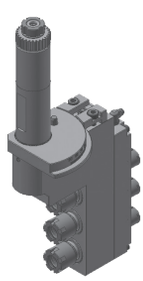
## XD20II-11130
### 3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |



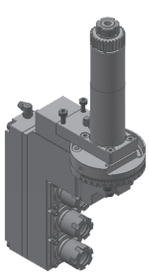
## XD20II-15030
### 3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| ANGLE ADJUSTMENT | 0~90° |



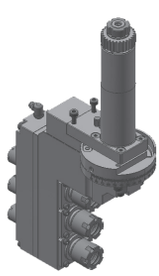
## XD20II-15130
### 3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |
| ANGLE ADJUSTMENT | 0~90° |



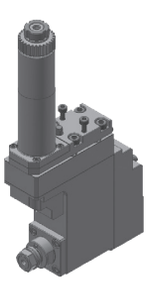
## XD20II-16330
### 3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| ANGLE ADJUSTMENT | ±90° |



## XD20II-16230
### 3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M |
| | Back side : ER11M |
| ANGLE ADJUSTMENT | ±90° |



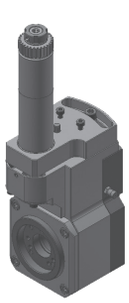
## XD20II-10810
### Polygon unit

| | |
|---|---|
| RATIO | 1 : 0.6 |
| RPM(MAX) | 3000 |
| TOOL CLAMPING | Polygon head |
| | KT130480058 |



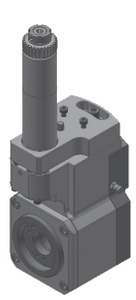
## XD26II-12110
### Cross drilling/milling unit, Offset

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| OFFSET DISTANCE | 20mm |



## XD20II-20510-1
### Thread whirling unit

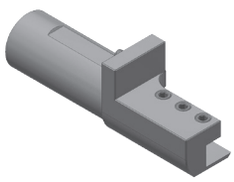
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 4000 |
| THREAD(MAX) | M12 |
| HELIX ANGLE | ±20° |



## XD20II-20510-2
### Thread whirling unit

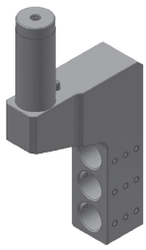
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 4000 |
| THREAD(MAX) | M12 |
| HELIX ANGLE | ±15° |

# TOOLING FOR GANG TOOL POST



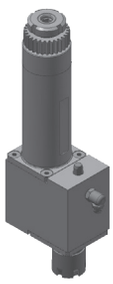
## XD38II-11510
Turning holder

| | |
|---|---|
| TOOL SHANK | Ø32mm |
| BITE HOLDER SHANK | 12x12mm |



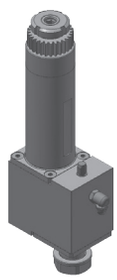
## XD38II-11030
3 tool sleeve holder

| | |
|---|---|
| TOOL SHANK | Ø32mm |
| DRILL SLEEVE SHANK | Ø25mm |



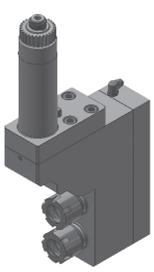
## XD38II-12110
Cross drilling/milling unit, Offset

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| OFFSET DISTANCE | 20mm |



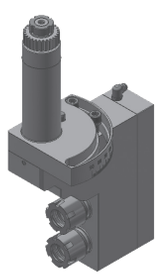
## XD38II-10410
Slotting unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | Saw arbor D16.0mm |



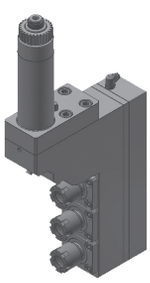
## XD38II-10120
2 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER20M |



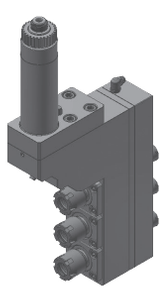
## XD38II-15020
2 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER20M |
| ANGLE ADJUSTMENT | 0~90° |



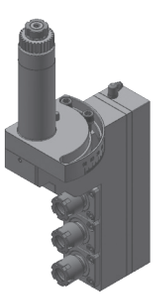
## XD32H-10130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |



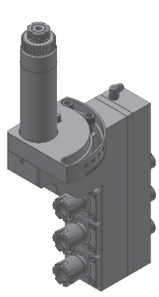
## XD32H-11130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M<br>Back side : ER11M |



## XD32H-15030
3 spindle drilling/milling unit

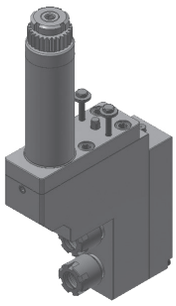
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| ANGLE ADJUSTMENT | 0~90° |



## XD32H-15130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16M<br>Back side : ER11M |
| ANGLE ADJUSTMENT | 0~90° |

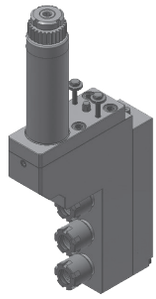
## TOOLING FOR GANG TOOL POST



ST20G-10120

2 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |



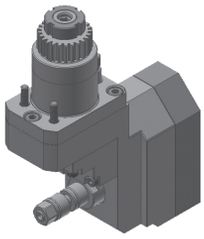
ST20G-10130

3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |

ST20G/ST20GS

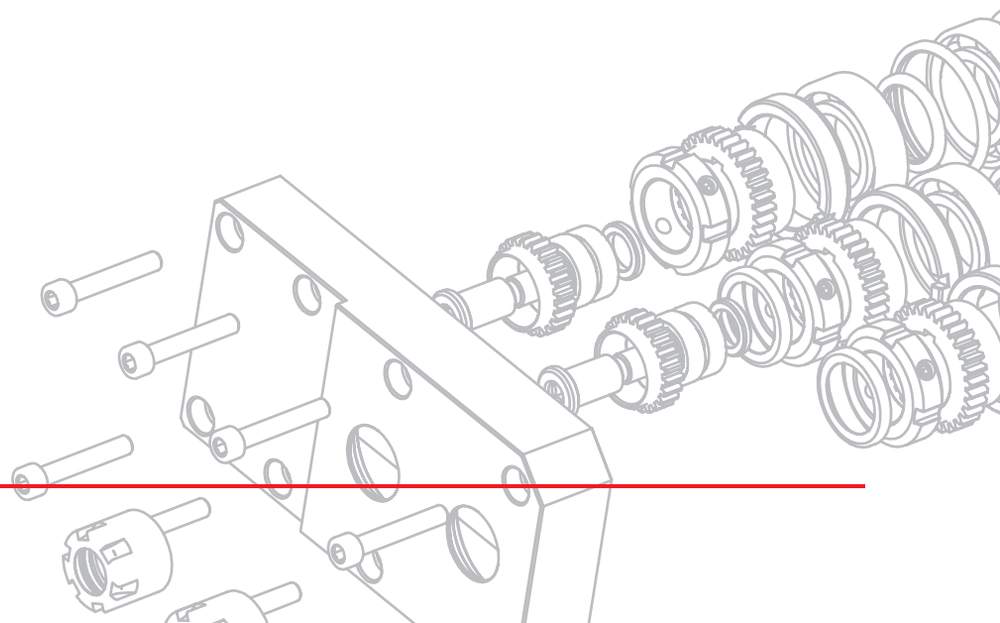
## TOOLING FOR BACK TOOL POST



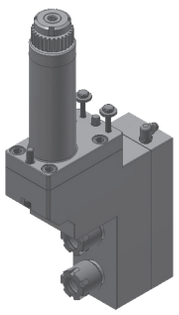
ST20G-30410A

Slotting unit

| | |
|---|---|
| RATIO | 1 : 0.55 |
| RPM(MAX) | 4000 |
| TOOL CLAMPING | Saw arbor D6.0mm |



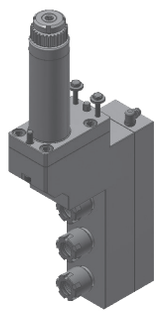
## TOOLING FOR GANG TOOL POST



ST35G-10120

2 spindle drilling/milling unit

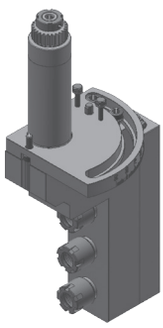
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |



ST35G-10130

3 spindle drilling/milling unit

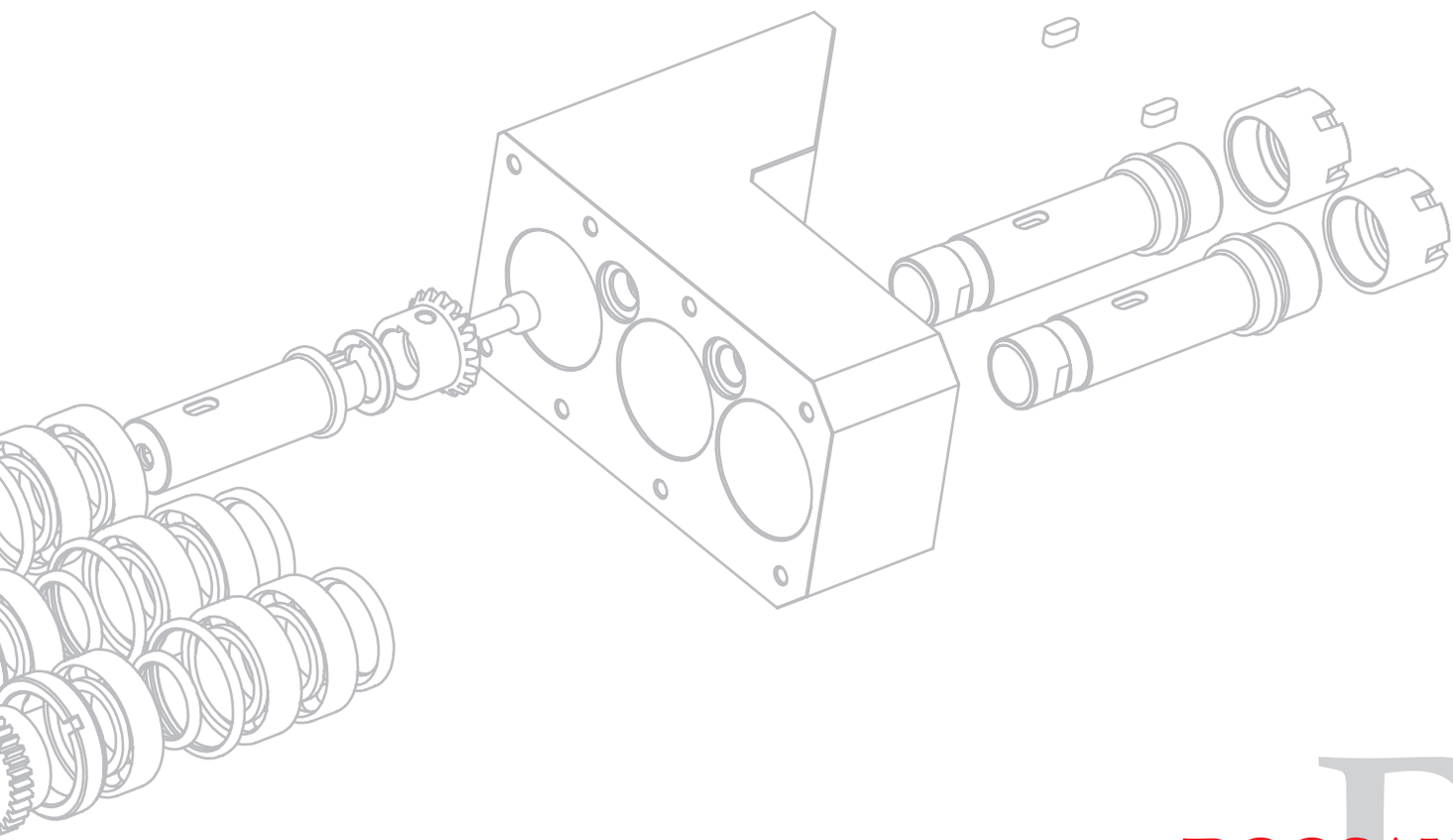
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |



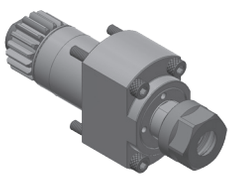
ST35G-15030

3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| ANGLE ADJUSTMENT | 0~90° |

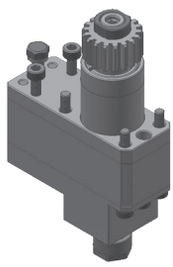


# TOOLING FOR GANG TOOL POST



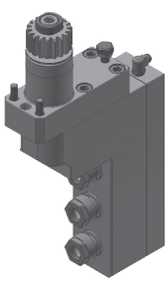
A20-10310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16A |
| CITIZEN CODE | GSC1110<br>GSC1310<br>CSM4-03 |



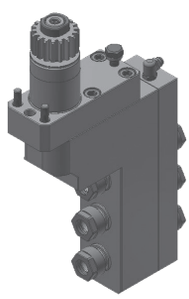
A20-23310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11A |



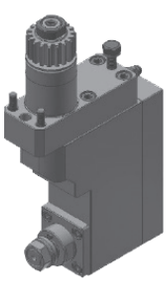
A20-10130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | BSE607 |



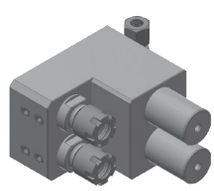
A20-11130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER11A<br>Back side : ER11A |
| CITIZEN CODE | BSE707 |



A20-10810
Polygon unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Polygon head<br>KT130480058 |

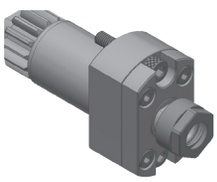


A20-22021
2 tool deep hole drill holder

| | |
|---|---|
| TOOL SHANK | Ø25.4mm |
| TOOL CLAMPING | ER16M |
| DRILLING DEPTH(MAX) | 95mm |

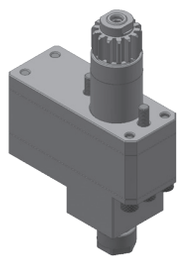
# A20VII

## TOOLING FOR BACK TOOL POST



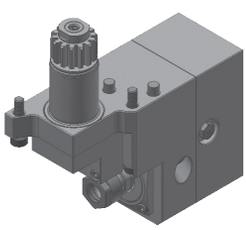
L20E-30310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | GSE3307 |
| | GSE3507 |
| | CSM4-04 |



L20E-33310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11A |

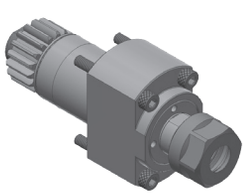


L20E-30210
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 0.9 |
| RPM(MAX) | 5000 |
| TOOL CLAMPING | ER11A |
| CENTER ADJUSTMENT | 0~3mm |
| CITIZEN CODE | GSS1330 |
| | GSS1530 |

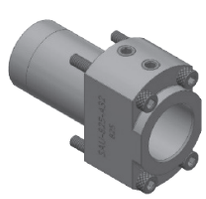
# A32VII

## TOOLING FOR BACK TOOL POST



A20-10310
Drilling/milling unit

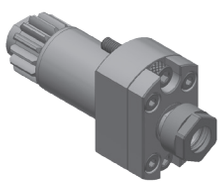
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16A |
| CITIZEN CODE | GSC1110 |
| | GSC1310 |
| | CSM4-03 |



L32-31310
Sleeve adapter

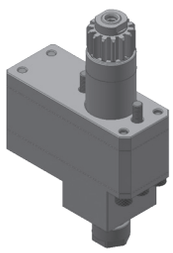
| | |
|---|---|
| TOOL SHANK | Ø31.0mm |
| SLEEVE SHANK | Ø25.4mm |
| CITIZEN CODE | SAU825 |

## TOOLING FOR GANG TOOL POST



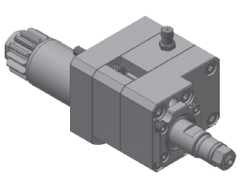
L20E-30310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 10000 |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | MSC507 |
| | CSM4-04 |



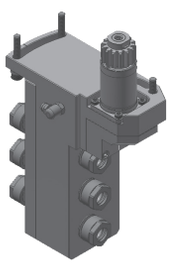
L20E-33310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11A |



L12-10410
Slotting unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 4000 |
| SAW OD(MAX) | Ø30mm |
| SAW ARBOR SHANK | Ø6mm |

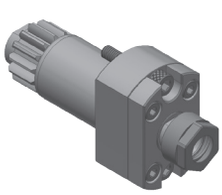


L12VII-15130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 10000 |
| TOOL CLAMPING | Front side : ER11A |
| | Back side : ER11A |
| ANGLE ADJUSTMENT | 0~30° |
| CITIZEN CODE | GSE3607 |

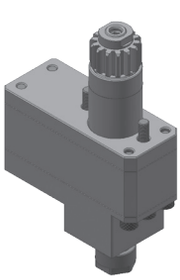
## L12VII

## TOOLING FOR BACK TOOL POST



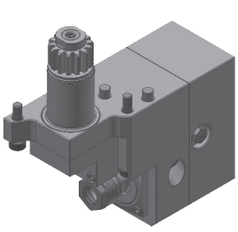
L20E-30310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 10000 |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | MSC507 |
| | CSM4-04 |



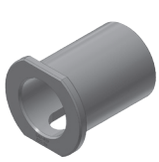
L20E-33310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11A |



L20E-30210
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 0.9 |
| RPM(MAX) | 5000 |
| TOOL CLAMPING | ER11A |
| CENTER ADJUSTMENT | 0~3mm |
| CITIZEN CODE | GSS1330 |
| | GSS1530 |



L220E-31310-1
Sleeve adapter

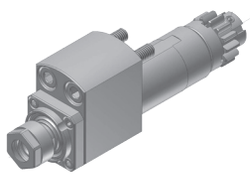
| | |
|---|---|
| TOOL SHANK | Ø25.0mm |
| SLEEVE SHANK | Ø19.05mm |
| CITIZEN CODE | SAU819 |

## TOOLING FOR GANG TOOL POST



L20VII-10310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER16A |
| CITIZEN CODE | GSC1010 |
| | CSM4-01 |

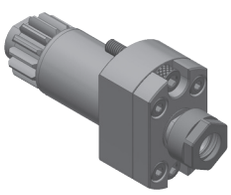


L20VII-10310-1
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | GSC907 |

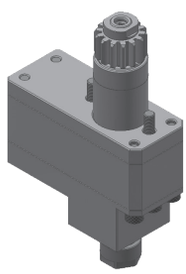
L20E/L20X

## TOOLING FOR BACK TOOL POST



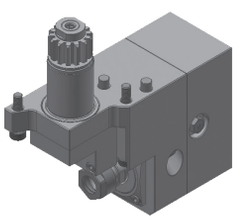
L20E-30310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | GSE3307 |
| | GSE3507 |
| | CSM4-04 |



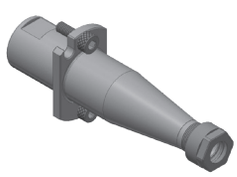
L20E-33310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11A |



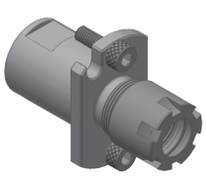
L20E-30210
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 0.9 |
| RPM(MAX) | 5000 |
| TOOL CLAMPING | ER11A |
| CENTER ADJUSTMENT | 0~3mm |
| CITIZEN CODE | GSS1330 |
| | GSS1530 |



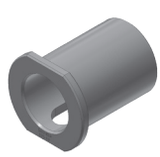
L220E-31010
Drill sleeve

| | |
|---|---|
| SLEEVE SHANK | Ø25.0mm |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | GDS107 |



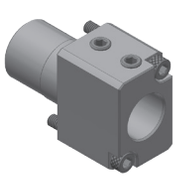
L220E-31010-1
Drill sleeve

| | |
|---|---|
| SLEEVE SHANK | Ø25.0mm |
| TOOL CLAMPING | ER16M |
| CITIZEN CODE | GDS210 |



L220E-31310-1
Sleeve adapter

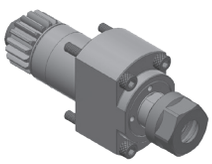
| | |
|---|---|
| TOOL SHANK | Ø25.0mm |
| SLEEVE SHANK | Ø19.05mm |
| CITIZEN CODE | SAU819 |



L220E-31310
Sleeve adapter

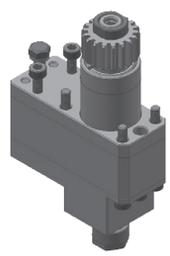
| | |
|---|---|
| TOOL SHANK | Ø25.0mm |
| SLEEVE SHANK | Ø19.05mm |
| CITIZEN CODE | SAU919 |

# TOOLING FOR GANG TOOL POST



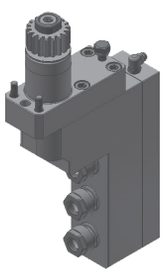
A20-10310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16A |
| CITIZEN CODE | GSC1110 |
| | GSC1310 |
| | CSM4-03 |



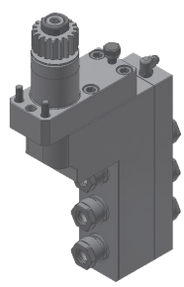
A20-23310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11A |



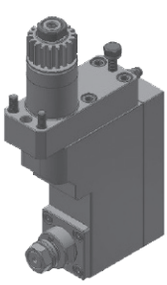
A20-10130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | BSE607 |



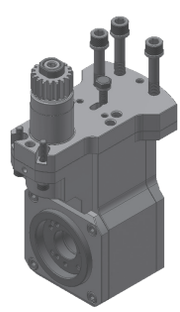
A20-11130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER11A |
| | Back side : ER11A |
| CITIZEN CODE | BSE707 |



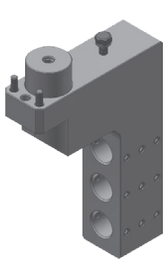
A20-10810
Polygon unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Polygon head |
| | KT130480058 |



L20E-15510-1
Thread whirling unit

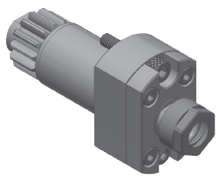
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| THREAD(MAX) | M12 |
| HELIX ANGLE | ±15° |



L220E-11030
3 tool sleeve holder

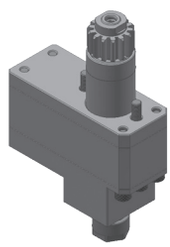
| | |
|---|---|
| TOOL SHANK | Ø31.0mm |
| SLEEVE SHANK | Ø19.05mm |
| CITIZEN CODE | GDF1207 |

# TOOLING FOR BACK TOOL POST



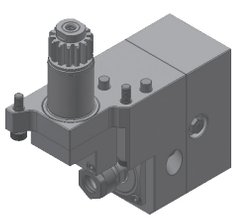
## L20E-30310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 8000 |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | GSE3307 |
| | GSE3507 |
| | CSM4-04 |



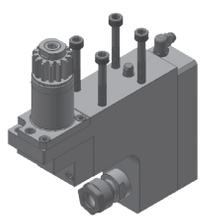
## L20E-33310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11A |



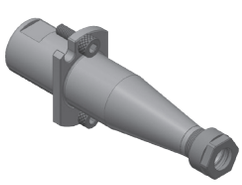
## L20E-30210
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 0.9 |
| RPM(MAX) | 5000 |
| TOOL CLAMPING | ER11A |
| CENTER ADJUSTMENT | 0~3mm |
| CITIZEN CODE | GSS1330 |
| | GSS1530 |



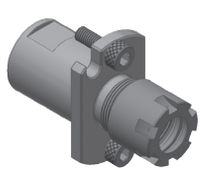
## L220E-30210
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | GSC1507 |



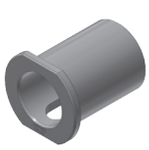
## L220E-31010
Drill sleeve

| | |
|---|---|
| SLEEVE SHANK | Ø25.0mm |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | GDS107 |



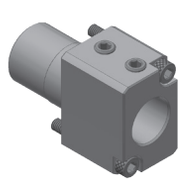
## L220E-31010-1
Drill sleeve

| | |
|---|---|
| SLEEVE SHANK | Ø25.0mm |
| TOOL CLAMPING | ER16M |
| CITIZEN CODE | GDS210 |



## L220E-31310-1
Sleeve adapter

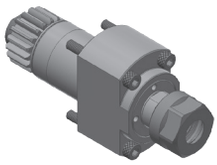
| | |
|---|---|
| TOOL SHANK | Ø25.0mm |
| SLEEVE SHANK | Ø19.05mm |
| CITIZEN CODE | SAU819 |



## L220E-31310
Sleeve adapter

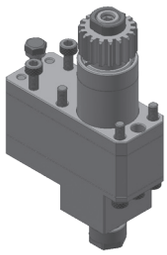
| | |
|---|---|
| TOOL SHANK | Ø25.0mm |
| SLEEVE SHANK | Ø19.05mm |
| CITIZEN CODE | SAU919 |

# TOOLING FOR GANG TOOL POST



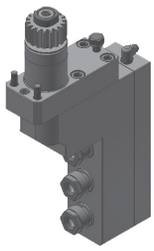
A20-10310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16A |
| CITIZEN CODE | GSC1110 |
| | GSC1310 |
| | CSM4-03 |



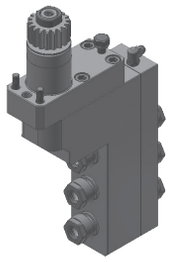
A20-23310
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11A |



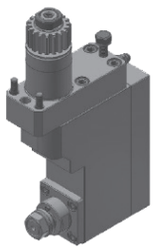
A20-10130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER11A |
| CITIZEN CODE | BSE607 |



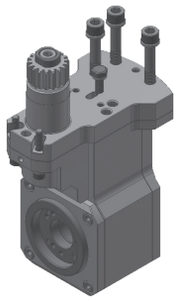
A20-11130
3 spindle drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER11A |
| | Back side : ER11A |
| CITIZEN CODE | BSE707 |



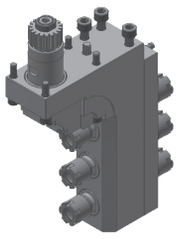
A20-10810
Polygon unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Polygon head |
| | KT130480058 |



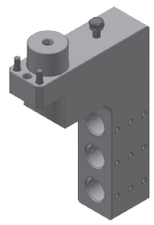
L20E-15510-1
Thread whirling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| THREAD(MAX) | M12 |
| HELIX ANGLE | ±15° |



L32-11130
3 spindle drilling/milling unit

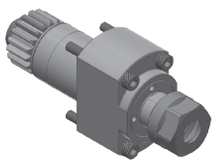
| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | Front side : ER16A |
| | Back side : ER16A |
| CITIZEN CODE | GSE1810 |



L220E-11030
3 tool sleeve holder

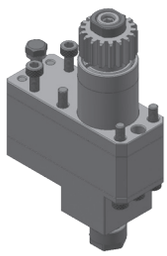
| | |
|---|---|
| TOOL SHANK | Ø31.0mm |
| SLEEVE SHANK | Ø19.05mm |
| CITIZEN CODE | GDF1207 |

# TOOLING FOR BACK TOOL POST



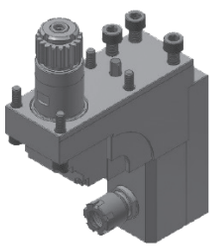
A20-10310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16A |
| CITIZEN CODE | GSC1110 |
| | GSC1310 |
| | CSM4-03 |



A20-23310
Drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 3 |
| RPM(MAX) | 18000 |
| TOOL CLAMPING | ER11A |



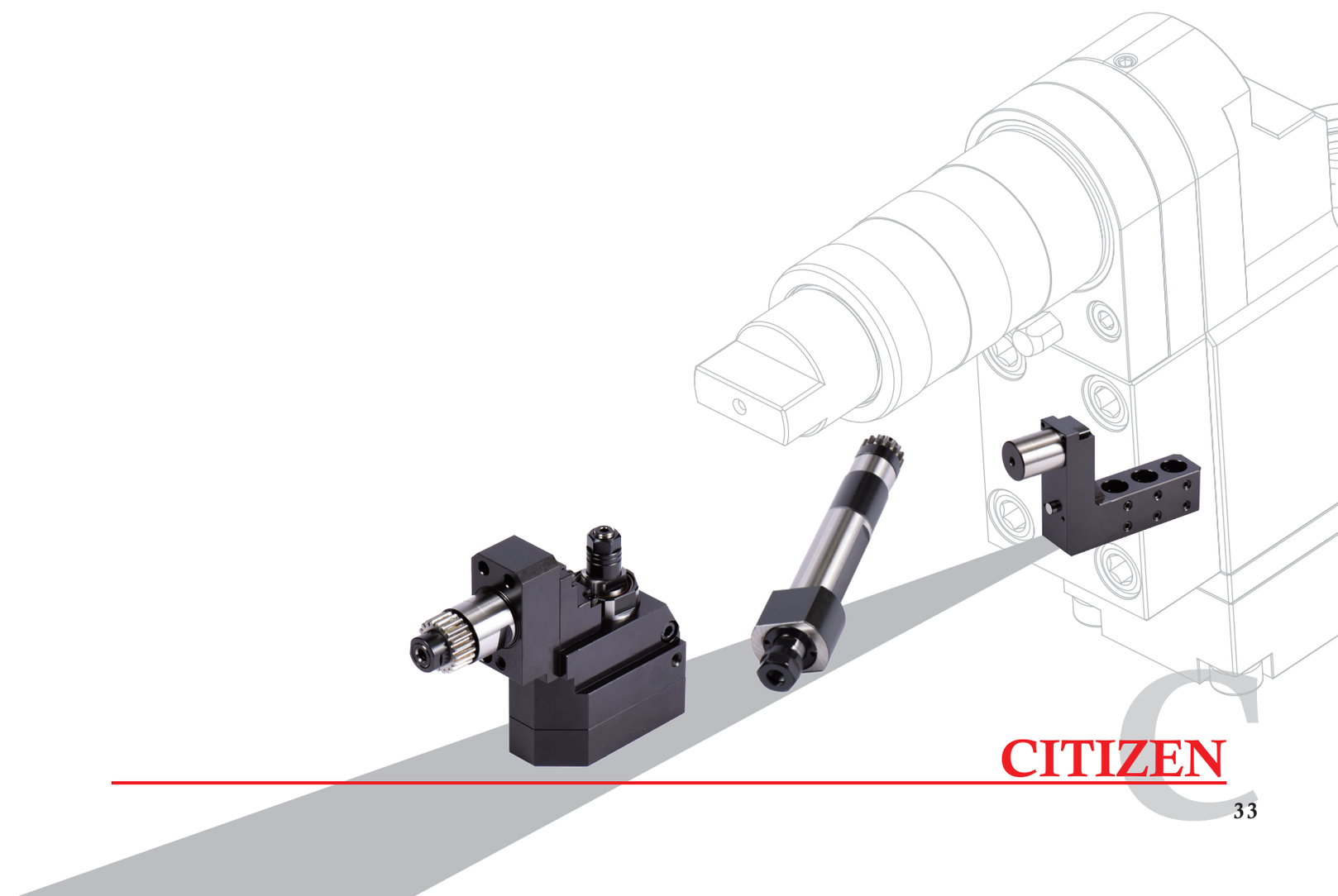
L32-30210
Cross drilling/milling unit

| | |
|---|---|
| RATIO | 1 : 1 |
| RPM(MAX) | 6000 |
| TOOL CLAMPING | ER16M |
| CITIZEN CODE | GSE1910 |

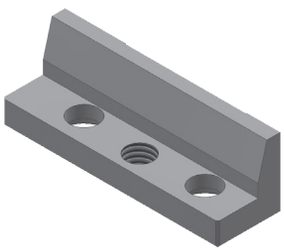


L32-31310
Sleeve adapter

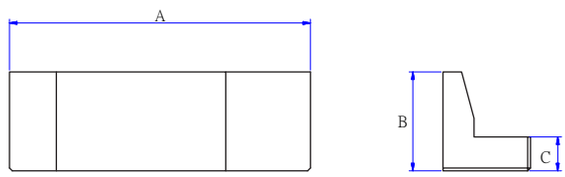
| | |
|---|---|
| TOOL SHANK | Ø31.0mm |
| SLEEVE SHANK | Ø25.4mm |
| CITIZEN CODE | SAU825 |

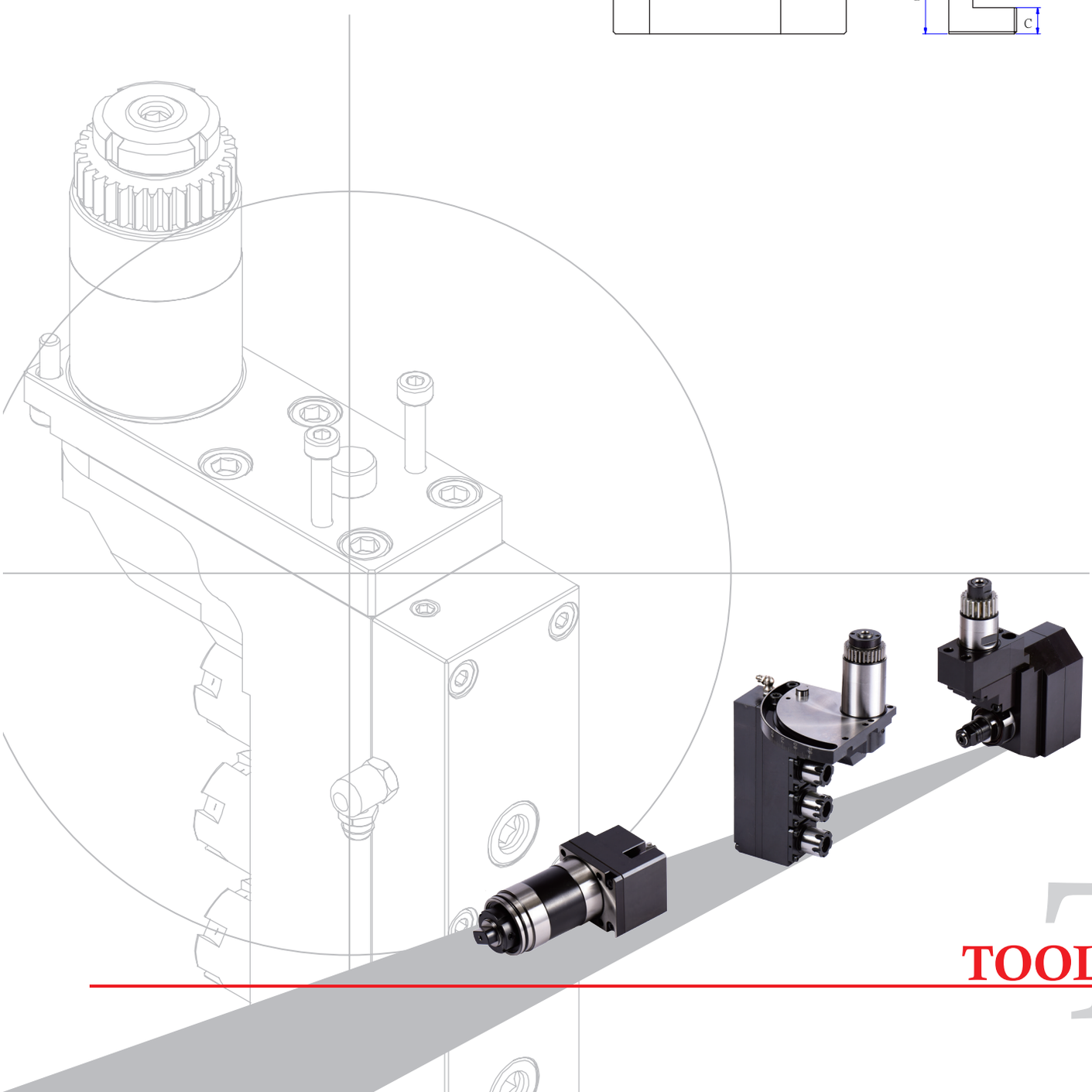


## FIXTURE



| ITEM NO. | LENGTH(A) | HEIGHT(B) | THICKNESS(C) | MACHINE |
|---|---|---|---|---|
| FSR20-14-075 | 75 | 14 | 3.5 | STAR SR20R |
| FSR20-14-065 | 65 | 14 | 3.5 | STAR SR20R |
| FSR20-13-075 | 75 | 13 | 6.5 | STAR SR20JC |
| FSV32-14-070 | 70 | 14 | 3.5 | STAR SV32 |
| FSV32-14-080 | 80 | 14 | 3.5 | STAR SV32 |
| FCL20-11-115 | 115 | 11 | 4.5 | CITIZEN L20 |
| FBO18-18-054 | 53.5 | 17.5 | 6 | TSUGAMI BO18 |



# MEMO









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