



NISSEI

NISSEI INDUSTRY CORPORATION



PRODUCT INFORMATION

- DOUBLE DISC VERTICAL TYPE
- HORIZONTAL TYPE

-
- SPECIALIZED MACHINES SURFACE GRINDERS
 - SUPER-FINISHERS
 - COMPLEX MACHINES

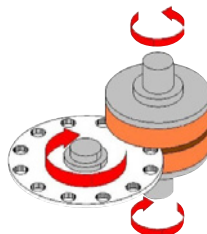
V-2

V-2C



GRINDING METHOD

ROTARY CARRIER



TYPICAL APPLICATION

- VANE
- SNAP RING
- CERAMICS PARTS

MAIN

GW O.D.	Φ 305 mm
GW DRIVE MOTOR	3.7/5.5 Kw
GW RPM	0 - 1,800rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 40 mm
MIN. ACCEPTABLE WORKPIECE THICK	0.6 mm
APPROX. MACHINE DIMENSIONS	W 1,750 mm
	D 1,200 mm
	H 2,150 mm
APPROX. WEIGHT	2,800 Kg

GROUND SAMPLES



VANE



SNAP RING



CERAMICS PARTS

V-2C

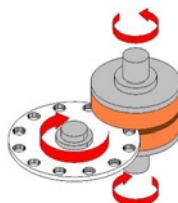
V-3

V-3C



GRINDING METHOD

ROTARY CARRIER



TYPICAL APPLICATION

- CERAMICS PARTS
- SHIM

MAIN

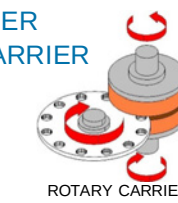
GW O.D.	Φ 355 mm
GW DRIVE MOTOR	3.7/5.5 Kw
GW RPM	0 - 1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 50 mm
MIN. ACCEPTABLE WORKPIECE THICK	0.6 mm
APPROX. MACHINE DIMENSIONS	W 1,750 mm
	D 1,200 mm
	H 2,150 mm
APPROX. WEIGHT	2,800 Kg

V-3P



GRINDING METHOD

- ROTARY CARRIER
- GW INFEEED, CARRIER OSCILLATION



TYPICAL APPLICATION

- IMPELLER
- TIPPED TOOL
- MAGNET

MAIN

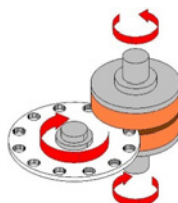
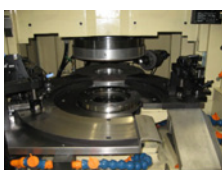
GW O.D.	Φ 355mm
GW DRIVE MOTOR	3.7/5.5 Kw
GW RPM	0 - 1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 50 mm
MIN. ACCEPTABLE WORKPIECE THICK	0.6 mm
APPROX. MACHINE DIMENSIONS	W 1,750 mm
	D 1,200 mm
	H 2,150 mm
APPROX. WEIGHT	2,800 Kg

V-3CN



GRINDING METHOD

ROTARY CARRIER



TYPICAL APPLICATION

- MAGNET
- VANE

MAIN

GW O.D.	Φ 355mm
GW DRIVE MOTOR	7.5/11 Kw
GW RPM	0 - 1,500rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 50 mm
MIN. ACCEPTABLE WORKPIECE THICK	0.8 mm
APPROX. MACHINE DIMENSIONS	W 1,650 mm
	D 1,900 mm
	H 2,450 mm
APPROX. WEIGHT	4,000 Kg

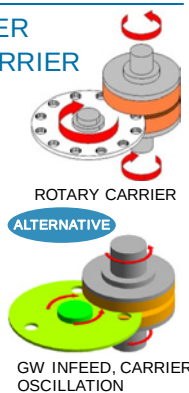
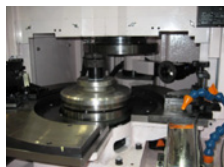
V-3

V-3PN



GRINDING METHOD

- ROTARY CARRIER
- GW INFEEED, CARRIER OSCILLATION



TYPICAL APPLICATION

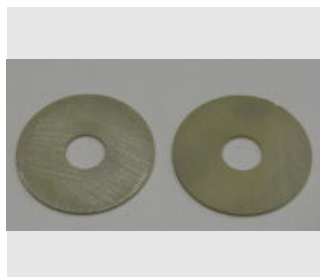
- KEY
- MAGNET

MAIN

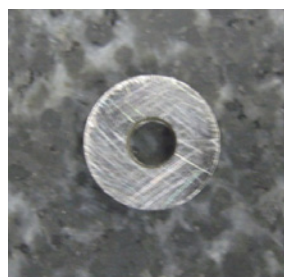
GW O.D.	Φ 355 mm
GW DRIVE MOTOR	7.5/11 Kw
GW RPM	0 - 1,500rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 50 mm
MIN. ACCEPTABLE WORKPIECE THICK	0.8 mm
APPROX. MACHINE DIMENSIONS	W 1,650 mm
	D 1,900 mm
	H 2,450 mm
APPROX. WEIGHT	4,000 Kg

GROUND SAMPLES

V-3C



CERAMICS PARTS

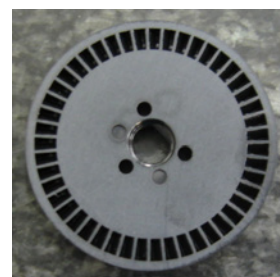


SHIM

V-3P



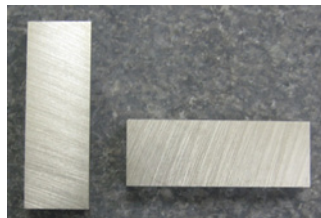
IMPELLER



V-3CN



MAGNET



MAGNET



VANE

V-3PN



KEY

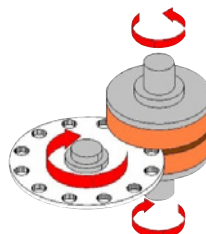
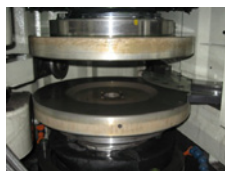
V-4

V-4CN



GRINDING METHOD

ROTARY CARRIER



TYPICAL APPLICATION

- MAGNET
- CERAMICS PARTS

MAIN

GW O.D.	Φ 450 mm
GW DRIVE MOTOR	11/15Kw
GW RPM	0 - 1,200 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 80 mm
MIN. ACCEPTABLE WORKPIECE THICK	0.8 mm
APPROX. MACHINE DIMENSIONS	W 1,650 mm
	D 1,900 mm
	H 2,450 mm
APPROX. WEIGHT	4,000 Kg

V-4PN



GRINDING METHOD

- ROTARY CARRIER
- GW INFEEED, CARRIER OSCILLATION



TYPICAL APPLICATION

- MAGNET
- CONNECTING ROD

MAIN

GW O.D.	Φ 450 mm
GW DRIVE MOTOR	11/15Kw
GW RPM	0 - 1,200 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 80 mm
MIN. ACCEPTABLE WORKPIECE THICK	0.8 mm
APPROX. MACHINE DIMENSIONS	W 1,650 mm
	D 1,900 mm
	H 2,450 mm
APPROX. WEIGHT	4,000 Kg

GROUND SAMPLES

V-4PN



MAGNET



CONNECTING ROD



CERAMICS PARTS

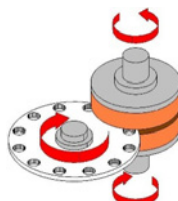
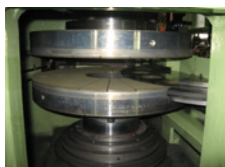
V-5

V-5C



GRINDING METHOD

ROTARY CARRIER



TYPICAL APPLICATION

- PISTON RING
- WASHER
- PLATE
- BEARING
- CONNECTING ROD

MAIN

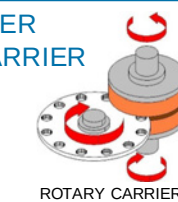
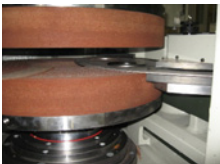
GW O.D.	Φ 585 mm
GW DRIVE MOTOR	22/30Kw
GW RPM	0 - 900rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 135 mm
MIN. ACCEPTABLE WORKPIECE THICK	0.8 mm
APPROX. MACHINE DIMENSIONS	W 2,000 mm
	D 2,050 mm
	H 2,550 mm
APPROX. WEIGHT	8,000 Kg

V-5P



GRINDING METHOD

- ROTARY CARRIER
- GW INFEEED, CARRIER OSCILLATION



TYPICAL APPLICATION

- PISTON RING
- WASHER
- PLATE

MAIN

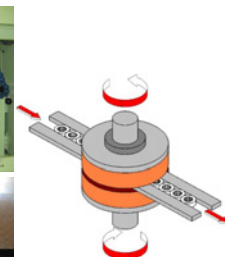
GW O.D.	Φ 585 mm
GW DRIVE MOTOR	22/30Kw
GW RPM	0 - 900rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 135 mm
MIN. ACCEPTABLE WORKPIECE THICK	0.8 mm
APPROX. MACHINE DIMENSIONS	W 2,000 mm
	D 2,050 mm
	H 2,550 mm
APPROX. WEIGHT	8,000 Kg

V-5TH



GRINDING METHOD

THROUGH FEEDING



TYPICAL APPLICATION

- VALVE SEAT
- PISTON RING
- BEARING

MAIN

GW O.D.	Φ 585 mm
GW DRIVE MOTOR	22/30Kw
GW RPM	0 - 900rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 175 mm
MIN. ACCEPTABLE WORKPIECE THICK	0.8 mm
APPROX. MACHINE DIMENSIONS	W 5,000 mm
	D 3,000 mm
	H 3,000 mm
APPROX. WEIGHT	9,000 Kg

V-5

GROUND SAMPLES

V-5C



PISTON RING



PLATE



BEARING



CONNECTING ROD

V-5P



WASHER



PLATE

V-5TH



VALVE SEAT

V-5PD



GRINDING METHOD

GW INFEED, WORK-DRIVE
(TWIN ROLLER DRIVE)



TYPICAL APPLICATION

• BRAKE DISC FOR MOTOR CYCLE

MAIN

GW O.D.	Φ 585 mm
GW DRIVE MOTOR	22 Kw
GW RPM	0 - 900rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	UNAVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 320 mm
MIN. ACCEPTABLE WORKPIECE THICK	3.5 mm
APPROX. MACHINE DIMENSIONS	W 2,000 mm
	D 2,050 mm
	H 2,550 mm
APPROX. WEIGHT	8,500 Kg

V-570PDR



GRINDING METHOD

GW INFEED, WORK-DRIVE



TYPICAL APPLICATION

• DISC ROTOR FOR AUTOMOBILE

MAIN

GW O.D.	Φ 570mm
GW DRIVE MOTOR	30 Kw
GW RPM	0 - 1,200 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 400mm
MIN. ACCEPTABLE WORKPIECE THICK	8.5 mm
APPROX. MACHINE DIMENSIONS	W 7,000 mm
	D 4,500 mm
	H 3,000 mm
APPROX. WEIGHT	8,000 Kg

V-375PDR



GRINDING METHOD

GW INFEED, WORK-DRIVE



TYPICAL APPLICATION

• DISC ROTOR FOR AUTOMOBILE

MAIN

GW O.D.	Φ 375 mm
GW DRIVE MOTOR	11 Kw
GW RPM	0 - 1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 400 mm
MIN. ACCEPTABLE WORKPIECE THICK	8.5 mm
APPROX. MACHINE DIMENSIONS	W 2,500 mm
	D 1,700 mm
	H 3,000 mm
APPROX. WEIGHT	3,200 Kg

GROUND SAMPLES

V-5PD



BRAKE DISC FOR MOTOR CYCLE

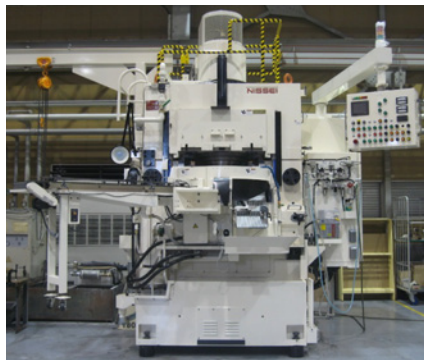
V-570PDR/V-375PDR



DISC ROTOR FOR AUTOMOBILE

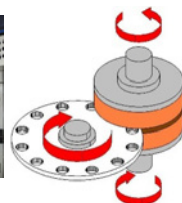
V-7

V-7C



GRINDING METHOD

ROTARY CARRIER



TYPICAL APPLICATION

- PISTON RING
- BEARING

MAIN

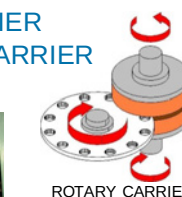
GW O.D.	Φ760 mm
GW DRIVE MOTOR	22/30/37Kw
GW RPM	0 - 700 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ220 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.2 mm
APPROX. MACHINE DIMENSIONS	W 2,000 mm
	D 2,300 mm
	H 3,600 mm
APPROX. WEIGHT	13,000 Kg

V-7P



GRINDING METHOD

- ROTARY CARRIER
- GW INFEEED, CARRIER OSCILLATION



TYPICAL APPLICATION

- CUSHION PLATE
- VALVE PLATE

MAIN

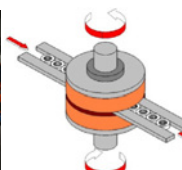
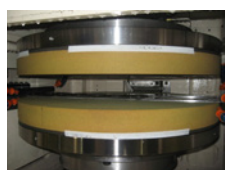
GW O.D.	Φ760 mm
GW DRIVE MOTOR	22/30/37Kw
GW RPM	0 - 700 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ220 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.2 mm
APPROX. MACHINE DIMENSIONS	W 2,000 mm
	D 2,300 mm
	H 3,600 mm
APPROX. WEIGHT	13,000 Kg

V-7TH



GRINDING METHOD

THROUGH FEEDING



TYPICAL APPLICATION

- BEARING
- VALVE PLATE

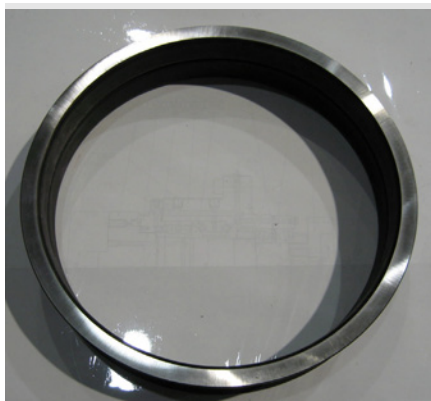
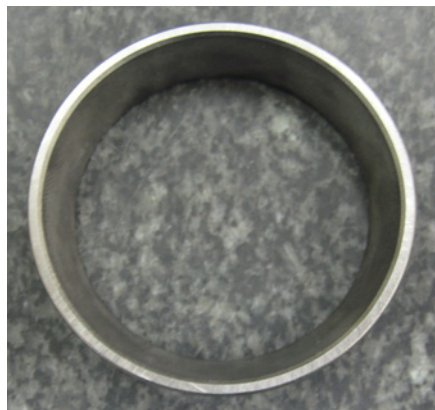
MAIN

GW O.D.	Φ760 mm
GW DRIVE MOTOR	22/30/37Kw
GW RPM	0 - 700 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ220 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.2 mm
APPROX. MACHINE DIMENSIONS	W 4,000 mm
	D 3,000 mm
	H 3,600 mm
APPROX. WEIGHT	15,000 Kg

V-7

GROUND SAMPLES

V-7C



BEARING

V-7P



CUSHION PLATE

V-7TH



BEARING



VALVE PLATE

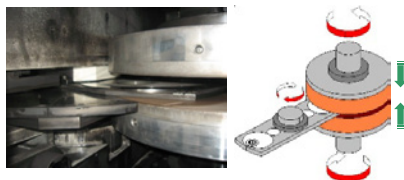
VGM

VGM-585PD



GRINDING METHOD

GW INFEED, WORK-DRIVE



TYPICAL APPLICATION

- OIL PUMP
- ROTOR
- HOUSING
- LARGE SIZE GEAR

MAIN

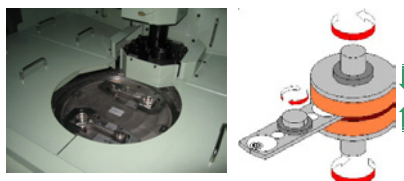
GW O.D.	Φ585 mm
GW DRIVE MOTOR	22 Kw
GW RPM	0 - 900 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ150 mm
MIN. ACCEPTABLE WORKPIECE THICK	6.0 mm
APPROX. MACHINE DIMENSIONS	W 2,850 mm
	D 2,750 mm
	H 2,550 mm
APPROX. WEIGHT	9,000 Kg

VGM-760PD



GRINDING METHOD

GW INFEED, WORK-DRIVE



TYPICAL APPLICATION

- CONNECTING ROD
- LARGE SIZE PISTON RING

MAIN

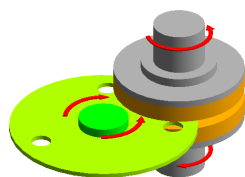
GW O.D.	Φ760 mm
GW DRIVE MOTOR	22/30 Kw
GW RPM	0 - 700 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ200 mm
MIN. ACCEPTABLE WORKPIECE THICK	6.0 mm
APPROX. MACHINE DIMENSIONS	W 3,500 mm
	D 3,100 mm
	H 2,550 mm
APPROX. WEIGHT	9,000 Kg

VGM-760P



GRINDING METHOD

GW INFEED, OSCILLATION



TYPICAL APPLICATION

- CLUTCH PLATE

MAIN

GW O.D.	Φ760 mm
GW DRIVE MOTOR	22/30 Kw
GW RPM	0 - 700 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ200 mm
MIN. ACCEPTABLE WORKPIECE THICK	3.0 mm
APPROX. MACHINE DIMENSIONS	W 4,000 mm
	D 1,800 mm
	H 2,550 mm
APPROX. WEIGHT	9,000 Kg

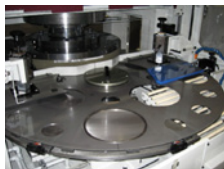
VGM

VGM-915P



GRINDING METHOD

GW INFEEED, OSCILLATION



TYPICAL APPLICATION

- LARGE SIZE PISTON RING

MAIN

GW O.D.	Φ 915 mm
GW DRIVE MOTOR	37 Kw
GW RPM	0 - 600 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 400 mm
MIN. ACCEPTABLE WORKPIECE THICK	3.0 mm
APPROX. MACHINE DIMENSIONS	W 2,650 mm
	D 2,300 mm
	H 3,650 mm
APPROX. WEIGHT	16,000 Kg

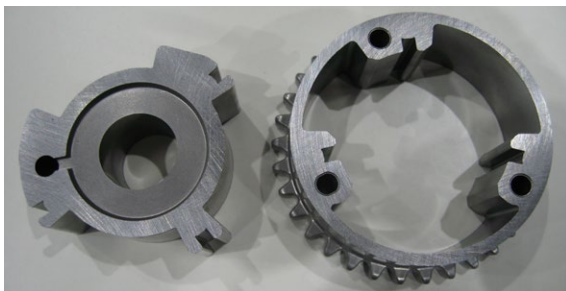
VGM

GROUND SAMPLES

VGM-585PD



CAMSHAFT ADJUSTMENT UNIT



ROTOR

HOUSING



LARGE SIZE GEAR

VGM-760PD



CONNECTING ROD



LARGE SIZE PISTON RING

VGM-760P



CLUTCH PLATE

VGM-915P



LARGE SIZE PISTON RING

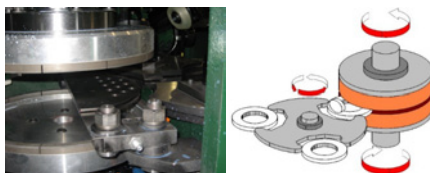
VR

VR-3



GRINDING METHOD

GW INFEEED, WORK-DRIVE



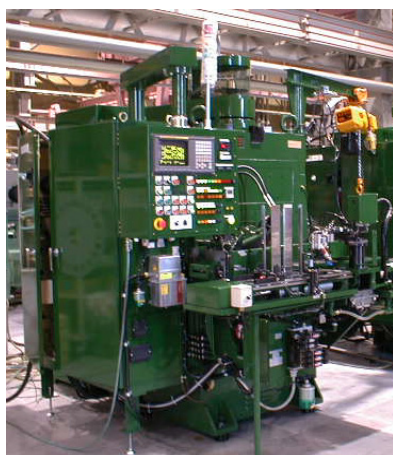
TYPICAL APPLICATION

- BRAKE DISC FOR BICYCLE

MAIN

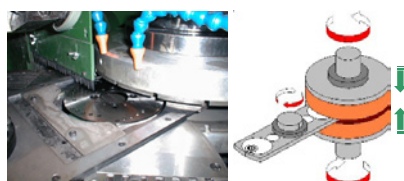
GW O.D.	Φ355 mm
GW DRIVE MOTOR	11 Kw
GW RPM	0 - 1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ180 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.8 mm
APPROX. MACHINE DIMENSIONS	W 1,500 mm
	D 2,100 mm
	H 2,200 mm
APPROX. WEIGHT	3,500 Kg

VR-5



GRINDING METHOD

GW INFEEED, WORK-DRIVE



TYPICAL APPLICATION

- BRAKE DISC FOR MOTOR CYCLE

MAIN

GW O.D.	Φ575 mm
GW DRIVE MOTOR	22 Kw
GW RPM	0 - 900 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	UNAVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ240 mm
MIN. ACCEPTABLE WORKPIECE THICK	3.0 mm
APPROX. MACHINE DIMENSIONS	W 1,845 mm
	D 2,380 mm
	H 2,400 mm
APPROX. WEIGHT	6,200 Kg

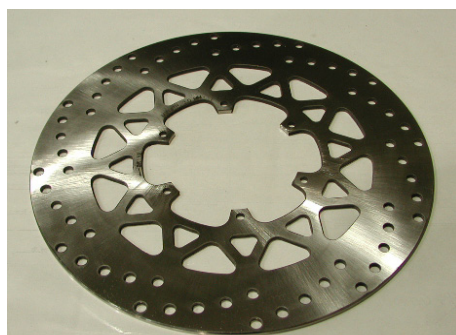
GROUND SAMPLES

VR-3



BRAKE DISC FOR BICYCLE

VR-5



BRAKE DISC FOR MOTOR CYCLE

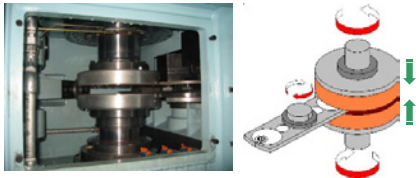
VP-2

VP-2SS



GRINDING METHOD

GW INFEEED, WORK-DRIVE



TYPICAL APPLICATION

- CYLINDER
- ROLLER

MAIN

GW O.D.	Φ305 mm
GW DRIVE MOTOR	11 Kw
GW RPM	0 - 1,800 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 80 mm
MIN. ACCEPTABLE WORKPIECE THICK	6.0 mm
APPROX. MACHINE DIMENSIONS	W 1,500 mm
	D 1,700 mm
	H 2,200 mm
APPROX. WEIGHT	3,500Kg

GROUND SAMPLES

VP-2SS



CYLINDER



ROLLER

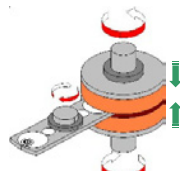
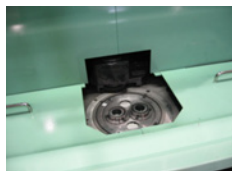
VP-3

VP-3SS



GRINDING METHOD

GW INFED, WORK-DRIVE
(DOUBLE CARRIER TYPE)



TYPICAL APPLICATION

- CYLINDER
- ROLLER

MAIN

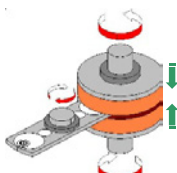
GW O.D.	Φ355 mm
GW DRIVE MOTOR	11/15 Kw
GW RPM	0 - 1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ100 mm
MIN. ACCEPTABLE WORKPIECE THICK	6.0 mm
APPROX. MACHINE DIMENSIONS	W 1,600 mm
	D 1,700 mm
	H 2,450 mm
APPROX. WEIGHT	5,000Kg

VP-3S



GRINDING METHOD

GW INFED, WORK-DRIVE
(SINGLE CARRIER TYPE)



TYPICAL APPLICATION

- CYLINDER
- ROLLER

MAIN

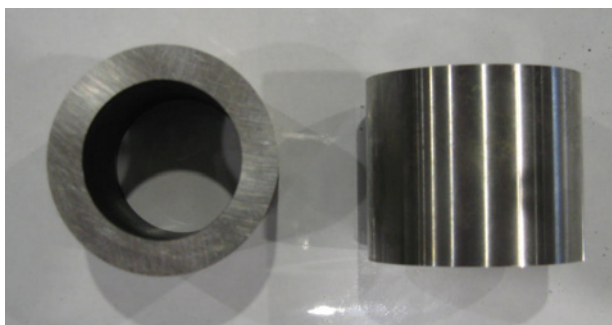
GW O.D.	Φ355 mm
GW DRIVE MOTOR	11/15 Kw
GW RPM	0 - 1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ100 mm
MIN. ACCEPTABLE WORKPIECE THICK	6.0 mm
APPROX. MACHINE DIMENSIONS	W 1,600 mm
	D 1,700 mm
	H 2,450 mm
APPROX. WEIGHT	5,000Kg

GROUND SAMPLES

VP-3SS / VP-3S



CYLINDER



ROLLER

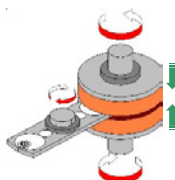
VP-4

VP-4SS



GRINDING METHOD

GW INFED, WORK-DRIVE
(DOUBLE CARRIER TYPE)



TYPICAL APPLICATION

- VANE PUMP
- ROTOR
- CAM RING

MAIN

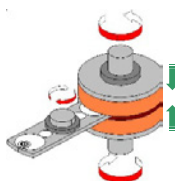
GW O.D.	Φ 450 mm
GW DRIVE MOTOR	15 Kw
GW RPM	0 - 1,200 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ120 mm
MIN. ACCEPTABLE WORKPIECE THICK	6.0 mm
APPROX. MACHINE DIMENSIONS	W 1,600 mm
	D 1,700 mm
	H 2,450 mm
APPROX. WEIGHT	6,000Kg

VP-4S



GRINDING METHOD

GW INFED, WORK-DRIVE
(SINGLE CARRIER TYPE)



TYPICAL APPLICATION

- VANE PUMP
- ROTOR
- CAM RING

MAIN

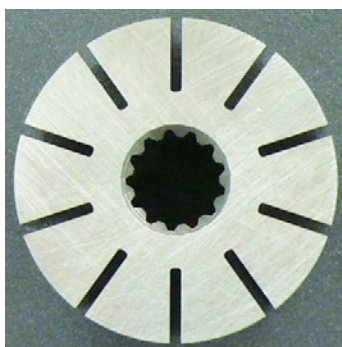
GW O.D.	Φ 450 mm
GW DRIVE MOTOR	15 Kw
GW RPM	0 - 1,200 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ120 mm
MIN. ACCEPTABLE WORKPIECE THICK	6.0 mm
APPROX. MACHINE DIMENSIONS	W 1,600 mm
	D 1,700 mm
	H 2,450 mm
APPROX. WEIGHT	6,000Kg

GROUND SAMPLES

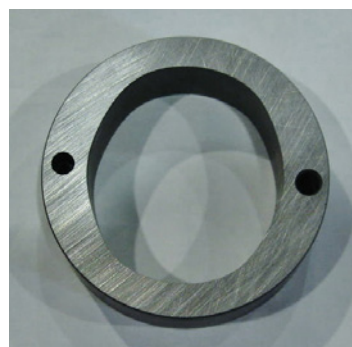
VP-4SS/VP-4S



VANE PUMP



ROTOR



CAM RING

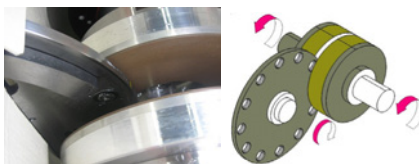
H-3

H-3C



GRINDING METHOD

ROTARY CARRIER



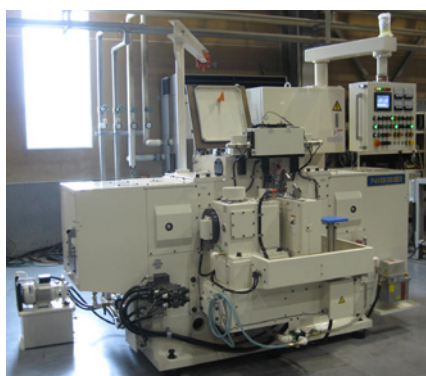
TYPICAL APPLICATION

- PINION GEAR
- ROLLER

MAIN

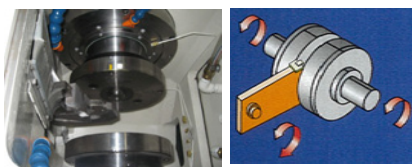
GW O.D.	Φ355 mm
GW DRIVE MOTOR	7.5 Kw
GW RPM	0-1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ50 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.5 mm
APPROX. MACHINE DIMENSIONS	W 2,500 mm
	D 1,900 mm
	H 2,050 mm
APPROX. WEIGHT	5,000 Kg

H-3P



GRINDING METHOD

GW INFEED,
CARRIER OSCILLATION



TYPICAL APPLICATION

- MAGNET
- VANE

MAIN

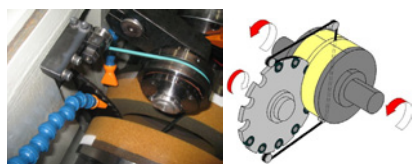
GW O.D.	Φ355 mm
GW DRIVE MOTOR	7.5 Kw
GW RPM	0-1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ50 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.5 mm
APPROX. MACHINE DIMENSIONS	W 2,500 mm
	D 1,900 mm
	H 2,050 mm
APPROX. WEIGHT	5,000 Kg

H-3B



GRINDING METHOD

ROTARY CARRIER BELT CLAMP



TYPICAL APPLICATION

- MAGNET
- VANE

MAIN

GW O.D.	Φ355 mm
GW DRIVE MOTOR	7.5 Kw
GW RPM	0-1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ50 mm
MIN. ACCEPTABLE WORKPIECE THICK	5 mm
APPROX. MACHINE DIMENSIONS	W 2,500 mm
	D 1,900 mm
	H 2,050 mm
APPROX. WEIGHT	5,000 Kg

H-3

GROUND SAMPLES



H-3C



PINION GEAR



ROLLER

H-3P/H-3B



MAGNET



VANE

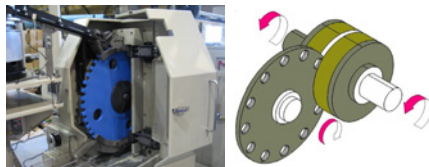
H-5

H-5C



GRINDING METHOD

ROTARY CARRIER



TYPICAL APPLICATION

- CONNECTING ROD
- BEARING
- ROLLER

MAIN

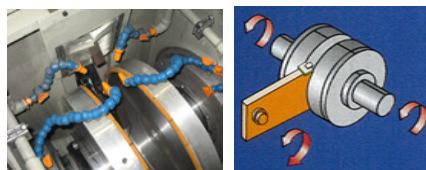
GW O.D.	Φ585 mm
GW DRIVE MOTOR	22 Kw
GW RPM	0 - 900rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ135 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.5 mm
APPROX. MACHINE DIMENSIONS	W 2,900 mm
	D 2,500 mm
	H 2,200 mm
APPROX. WEIGHT	8,500 Kg

H-5P



GRINDING METHOD

GW INFEEED, CARRIER OSCILLATION



TYPICAL APPLICATION

- METALIC MOLD

MAIN

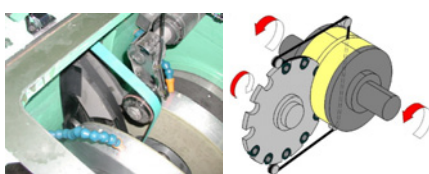
GW O.D.	Φ585 mm
GW DRIVE MOTOR	22 Kw
GW RPM	0 - 900rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ135 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.5 mm
APPROX. MACHINE DIMENSIONS	W 2,900 mm
	D 2,500 mm
	H 2,200 mm
APPROX. WEIGHT	8,500 Kg

H-5B



GRINDING METHOD

ROTARY CARRIER BELT CLAMP



TYPICAL APPLICATION

- MAGNET

MAIN

GW O.D.	Φ585 mm
GW DRIVE MOTOR	22 Kw
GW RPM	0 - 900rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ135 mm
MIN. ACCEPTABLE WORKPIECE THICK	5 mm
APPROX. MACHINE DIMENSIONS	W 2,900 mm
	D 2,500 mm
	H 2,200 mm
APPROX. WEIGHT	8,500 Kg

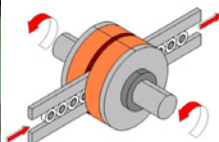
H-5

H-5TH



GRINDING METHOD

THROUGH FEEDING



TYPICAL APPLICATION

- WASHER
- BEARING

MAIN

GW O.D.	Φ585 mm
GW DRIVE MOTOR	22 Kw
GW RPM	0 - 900rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ135 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.5 mm
APPROX. MACHINE DIMENSIONS	W 2,900 mm
	D 2,500 mm
	H 2,200 mm
APPROX. WEIGHT	8,500 Kg

GROUND SAMPLES

H-5C



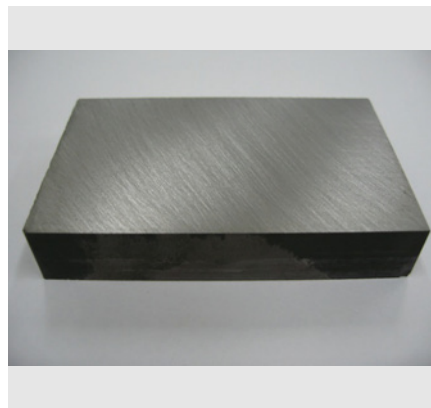
BEARING

H-5P



METALIC MOLD

H-5B



MAGNET

H-5TH



WASHER

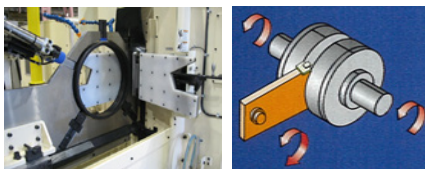
H-7

H-7PD



GRINDING METHOD

GW INFEED,
CARRIER OSCILLATION



TYPICAL APPLICATION

- LARGE SIZE PISTON RING
- LARGE SIZE BEARING

MAIN

GW O.D.	Φ 760 mm
GW DRIVE MOTOR	30/37/45 Kw
GW RPM	0-700 mm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 400mm
MIN. ACCEPTABLE WORKPIECE THICK	2.0 mm
APPROX. MACHINE DIMENSIONS	W 4,600 mm
	D 2,800 mm
	H 1,700 mm
APPROX. WEIGHT	14,500 Kg

H-7TH



GRINDING METHOD

THROUGH FEEDING



TYPICAL APPLICATION

- LARGE SIZE PISTON RING

MAIN

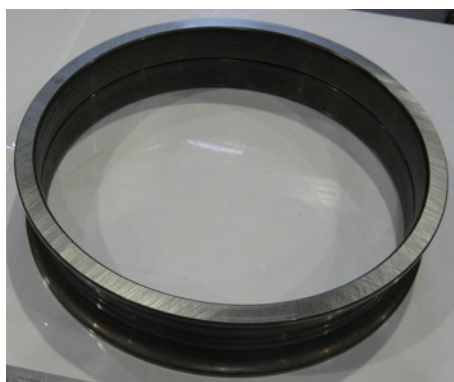
GW O.D.	Φ 760 mm
GW DRIVE MOTOR	30/37/45 Kw
GW RPM	0-700 mm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 200mm
MIN. ACCEPTABLE WORKPIECE THICK	1.5 mm
APPROX. MACHINE DIMENSIONS	W 3,700 mm
	D 3,500 mm
	H 2,600 mm
APPROX. WEIGHT	14,500 Kg

GROUND SAMPLES

H-7PD/H-7TH



LARGE SIZE PISTON RING



LARGE SIZE BEARING

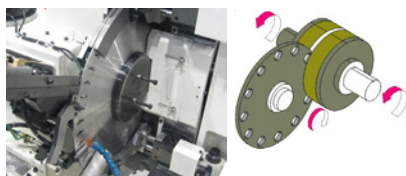
NT-3

NT-3C



GRINDING METHOD

ROTARY CARRIER



TYPICAL APPLICATION

- PINION GEAR
- WOODRUFF KEY

MAIN

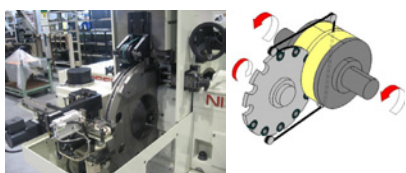
GW O.D.	Φ 355 mm
GW DRIVE MOTOR	7.5 Kw
GW RPM	0 - 1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 50 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.5 mm
APPROX. MACHINE DIMENSIONS	W 2,250 mm
	D 1,400 mm
	H 1,700 mm
APPROX. WEIGHT	3,500 Kg

NT-3B



GRINDING METHOD

ROTARY CARRIER BELT CLAMP



TYPICAL APPLICATION

- MAGNET
- FERRITE CORE
- VANE

MAIN

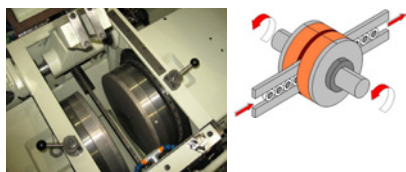
GW O.D.	Φ 355 mm
GW DRIVE MOTOR	7.5 Kw
GW RPM	0 - 1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 50 mm
MIN. ACCEPTABLE WORKPIECE THICK	5 mm
APPROX. MACHINE DIMENSIONS	W 2,250 mm
	D 1,400 mm
	H 1,700 mm
APPROX. WEIGHT	3,500 Kg

NT-3TH



GRINDING METHOD

THROUGH FEEDING



TYPICAL APPLICATION

- SPACER
- FERRITE

MAIN

GW O.D.	Φ 355 mm
GW DRIVE MOTOR	7.5 Kw
GW RPM	0 - 1,500 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 50 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.5 mm
APPROX. MACHINE DIMENSIONS	W 2,250 mm
	D 1,400 mm
	H 1,700 mm
APPROX. WEIGHT	3,500 Kg

NT-3

GROUND SAMPLES

NT-3C



PINION GEAR



WOODRUFF KEY

NT-3B



FERRITE CORE



VANE

NT-3TH



MAGNET



BEARING

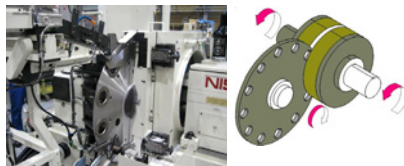
NT-5

NT-5C



GRINDING METHOD

ROTARY CARRIER



TYPICAL APPLICATION

- CAM RING
- SIDE PLATE
- ROTOR

MAIN

GW O.D.	Φ 585 mm
GW DRIVE MOTOR	22 / 30 Kw
GW RPM	0 - 900 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ135 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.5 mm
APPROX. MACHINE DIMENSIONS	W 2,900 mm
	D 1,850 mm
	H 1,700 mm
APPROX. WEIGHT	6,000 Kg

NT-5B



GRINDING METHOD

ROTARY CARRIER BELT CLAMP



TYPICAL APPLICATION

- FERRITE CORE
- VANE

MAIN

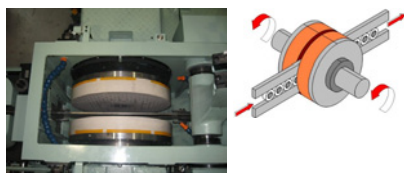
GW O.D.	Φ 585 mm
GW DRIVE MOTOR	22 / 30 Kw
GW RPM	0 - 900 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ135 mm
MIN. ACCEPTABLE WORKPIECE THICK	5 mm
APPROX. MACHINE DIMENSIONS	W 2,900 mm
	D 1,850 mm
	H 1,700 mm
APPROX. WEIGHT	6,000 Kg

NT-5TH



GRINDING METHOD

THROUGH FEEDING



TYPICAL APPLICATION

- BEARING
- VALVE PLATE

MAIN

GW O.D.	Φ 585mm
GW DRIVE MOTOR	22 / 30 Kw
GW RPM	0 - 900 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ135 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.5 mm
APPROX. MACHINE DIMENSIONS	W 2,900 mm
	D 1,850 mm
	H 1,700 mm
APPROX. WEIGHT	6,000 Kg

NT-5

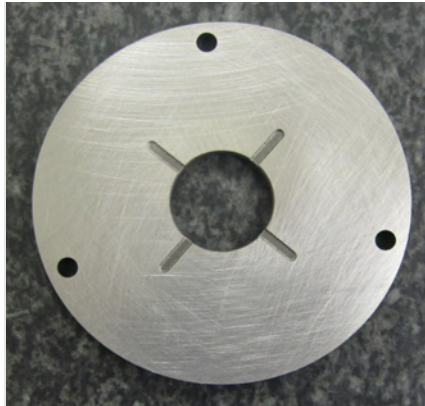
GROUND SAMPLES



NT-5C



CAM RING



SIDE PLATE



ROTOR

NT-5B



FERRITE CORE



VANE

NT-5TH



BEARING



VALVE PLATE

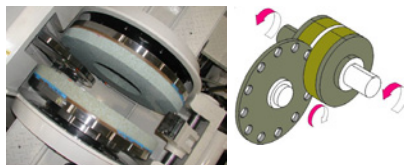
NT-7

NT-7C



GRINDING METHOD

ROTARY CARRIER



TYPICAL APPLICATION

- CONNECTING ROD

MAIN

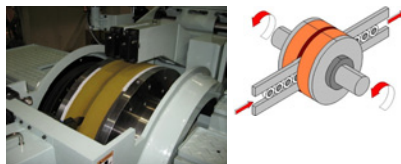
GW O.D.	Φ760mm
GW DRIVE MOTOR	30 / 37 / 45 Kw
GW RPM	0 - 700 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ200 mm
MIN. ACCEPTABLE WORKPIECE THICK	2.0 mm
APPROX. MACHINE DIMENSIONS	W 4,000 mm
	D 2,500 mm
	H 1,850 mm
APPROX. WEIGHT	7,000 Kg

NT-7TH



GRINDING METHOD

THROUGH FEEDING



TYPICAL APPLICATION

- BEARING
- VALVE PLATE

MAIN

GW O.D.	Φ760mm
GW DRIVE MOTOR	30 / 37 / 45 Kw
GW RPM	0 - 700 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ200 mm
MIN. ACCEPTABLE WORKPIECE THICK	1.5 mm
APPROX. MACHINE DIMENSIONS	W 4,000 mm
	D 2,500 mm
	H 1,850 mm
APPROX. WEIGHT	7,000 Kg

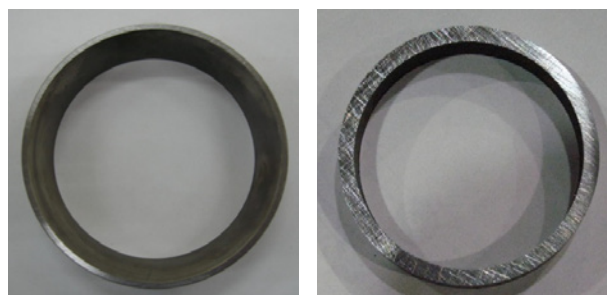
GROUND SAMPLES

NT-7C



CONNECTING ROD

NT-7TH



BEARING

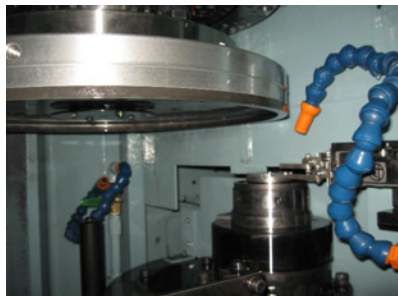
VP

VP-450



GRINDING METHOD

WORK-DRIVE, GW INFED



TYPICAL APPLICATION

• SIDE PLATE

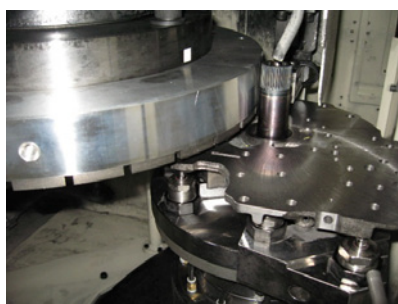
MAIN

GW O.D.	Φ 455 mm
GW DRIVE MOTOR	15Kw
GW RPM	0 - 1,200 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ80 mm
MIN. ACCEPTABLE WORKPIECE THICK	5mm
APPROX. MACHINE DIMENSIONS	W 1,700 mm
	D 1,900 mm
	H 2,700 mm
APPROX. WEIGHT	5,000 Kg

VP-4SG



GRINDING METHOD



TYPICAL APPLICATION

• OIL PUMP COVER

MAIN

GW O.D.	Φ 450 mm
GW DRIVE MOTOR	15 Kw
GW RPM	0 - 1,200 rpm
GW FEED DRIVE	AC SERVOMOTORS
DRESSING DEVICE	AVAILABLE
MAX.ACCEPTABLE WORKPIECE O.D.	Φ 340 mm
MIN. ACCEPTABLE WORKPIECE THICK	10 mm
APPROX. MACHINE DIMENSIONS	W 2,000 mm
	D 2,500 mm
	H 2,560 mm
APPROX. WEIGHT	7,000 Kg

GROUND SAMPLES

VP-450



SIDE PLATE

VP-4SG



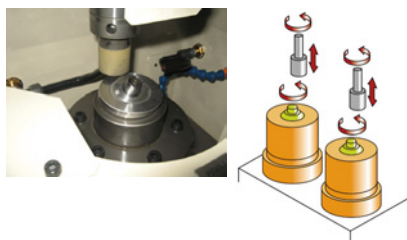
OIL PUMP COVER

MF

MF-2SS



GRINDING METHOD



TYPICAL APPLICATION

- SWASH PLATE
- SPACER
- PSITON BARREL

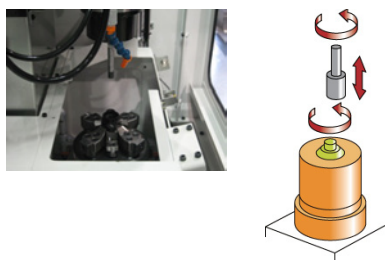
MAIN

GW O.D.	Φ35 mm
GW DRIVE MOTOR	0.75 Kw
GW RPM	0-3500rpm
WORK-HEAD RPM	0-3000rpm
APPROX. MACHINE DIMENSIONS	W 1,600 mm
	D 2,200 mm
	H 2,800 mm
APPROX. WEIGHT	3,000 Kg

MF-15



GRINDING METHOD



TYPICAL APPLICATION

- BARREL

MAIN

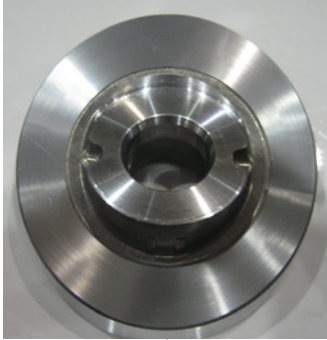
GW O.D.	Φ12 mm
GW DRIVE MOTOR	1.5 Kw
GW RPM	0-3200rpm
WORK-HEAD RPM	0-1500rpm
APPROX. MACHINE DIMENSIONS	W 1,600 mm
	D 1,100 mm
	H 2,300 mm
APPROX. WEIGHT	2,800 Kg

MF

GROUND SAMPLES



MF-2SS



SWASH PLATE



SPACER



PISTON BARREL

MF-15



BARREL

VS

VS-3ISG



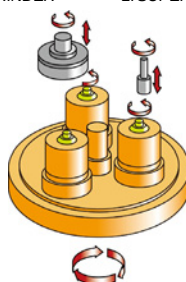
GRINDING METHOD

- 1: SURFACE GRINDER
- 2: SUPER-FINISHER



1: SURFACE GRINDER

2: SUPER-FINISHER



MAIN

	SURFACE GRINDER	SUPER-FINISHER
GW O.D.	Φ200 mm	Φ80 mm
GW DRIVE MOTOR	2.2 Kw	0.75 Kw
GW RPM	0-3,500 rpm	150-1,800rpm
GW FEED DRIVE	AC SERVOMOTORS	
WORK-HEAD RPM	300-1,800rpm	300-1,800rpm
APPROX. MACHINE DIMENSIONS	W 1,650 mm	
	D 2,050 mm	
	H 2,100 mm	
APPROX. WEIGHT	4,500 Kg	

TYPICAL APPLICATION

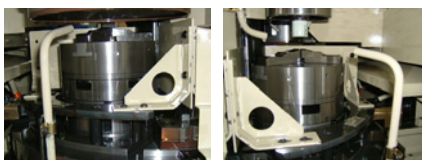
- INJECTION BODY
- LOWER BODY

VS-4ISG



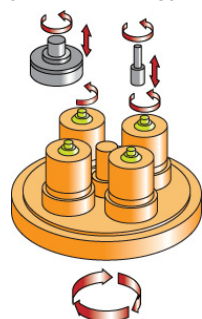
GRINDING METHOD

- 1: SURFACE GRINDER
- 2: SUPER-FINISHER



1: SURFACE GRINDER

2: SUPER-FINISHER



MAIN

	SURFACE GRINDER	SUPER-FINISHER
GW O.D.	Φ200 mm	Φ80 mm
GW DRIVE MOTOR	2.2 Kw	0.75 Kw
GW RPM	0-3,500 rpm	150-1,800rpm
GW FEED DRIVE	AC SERVOMOTORS	
WORK-HEAD RPM	300-1,800rpm	300-1,800rpm
APPROX. MACHINE DIMENSIONS	W 1,800 mm	
	D 2,050 mm	
	H 2,100 mm	
APPROX. WEIGHT	5,000 Kg	

TYPICAL APPLICATION

- NOZZLE BODY
- NOZZLE HOLDER

VS

GROUND SAMPLES



VS-3ISG



INJECTION BODY



LOWER BODY

VS-4ISG



NOZZLE HOLDER



NOZZLE BODY