Nidec
All for dreams

ABLE REDUCER

Now on Sale

Ultra High-Precision Type


VRB series

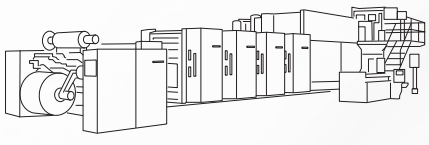

VRS series

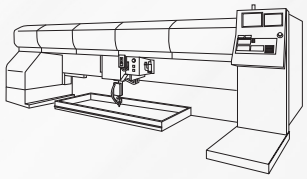

VRT series

Enhanced Gear Accuracy
New lineup of High-Precision ABLE Reducers

Features

1. Less noise and vibration by using precision ground gears
   ※Conventional model VRS-140-4 achieves a reduction of 5dB in noise and a 30% reduction in vibration.
2. The mounting dimensions remain same from standard models
   ※VRT-90 has partial dimensions changed
3. Ideal for machines requiring precise angle transmission and low backlash


■Printing machine


■Laser processing machine

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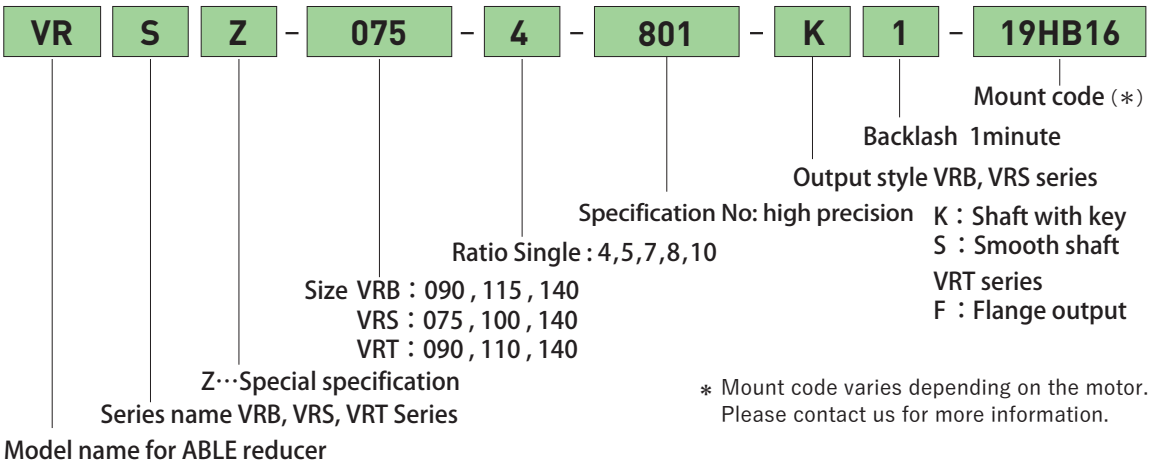
■ Model number



* Mount code varies depending on the motor.
Please contact us for more information.

■ Performance table

Series	Frame size	Ratio	＊1 Nominal output torque [Nm]	＊2 Maximum output torque [Nm]	＊3 Emergency stop torque [Nm]	＊4 Nominal input speed [rpm]	＊5 Maximum input speed [rpm]	＊6 Permitted radial load [N]	＊7 Permitted axial load [N]
VRB	090	4	75	125	250	3,000	6,000	890	1,100
		5	75	125	250	3,000	6,000	960	1,200
		7	75	125	250	3,000	6,000	1,100	1,300
		8	75	125	250	3,000	6,000	1,100	1,400
		10	50	80	200	3,000	6,000	1,200	1,600
	115	4	120	330	625	3,000	6,000	1,500	1,700
		5	180	330	625	3,000	6,000	1,600	1,900
		7	180	330	625	3,000	6,000	1,800	2,100
		8	180	330	625	3,000	6,000	1,900	2,300
		10	120	225	500	3,000	6,000	2,000	2,500
	140	4	240	700	1,250	2,000	4,000	3,500	2,700
		5	360	700	1,250	2,000	4,000	3,800	3,000
		7	360	700	1,250	2,000	4,000	4,200	3,500
		8	360	700	1,250	2,000	4,000	4,400	3,700
		10	240	470	1,000	2,000	4,000	4,700	4,100
VRS	075	4	75	125	250	3,000	6,000	2,500	3,700
		5	75	125	250	3,000	6,000	2,700	3,900
		7	75	125	250	3,000	6,000	3,000	3,900
		8	75	125	250	3,000	6,000	3,100	3,900
		10	50	80	200	3,000	6,000	3,300	3,900
	100	4	120	330	625	3,000	6,000	3,700	5,200
		5	180	330	625	3,000	6,000	4,000	5,600
		7	180	330	625	3,000	6,000	4,400	6,100
		8	180	330	625	3,000	6,000	4,600	6,300
		10	120	225	500	3,000	6,000	4,900	6,300
	140	4	240	700	1,250	2,000	4,000	7,400	9,000
		5	360	700	1,250	2,000	4,000	7,900	9,000
		7	360	700	1,250	2,000	4,000	8,700	9,000
		8	360	700	1,250	2,000	4,000	9,100	9,000
		10	240	470	1,000	2,000	4,000	9,700	9,000
VRT	090	4	75	125	250	3,000	6,000	990	740
		5	75	125	250	3,000	6,000	1,000	790
		7	75	125	250	3,000	6,000	1,200	890
		8	75	125	250	3,000	6,000	1,200	930
		10	50	80	200	3,000	6,000	1,300	1,000
	110	4	120	330	625	3,000	6,000	4,700	3,200
		5	180	330	625	3,000	6,000	5,000	3,400
		7	180	330	625	3,000	6,000	5,600	3,800
		10	120	225	500	3,000	6,000	6,200	4,200
	140	4	240	700	1,250	2,000	4,000	8,000	5,600
		5	360	700	1,250	2,000	4,000	8,500	6,000
		7	360	700	1,250	2,000	4,000	9,400	6,700
		10	240	470	1,000	2,000	4,000	10,000	7,400

＊1 With nominal input speed, service life is 20,000 hours.
＊2 The maximum torque when starting and stopping.
＊3 The maximum torque when it receives shock (up to 1,000 times)
＊4 The maximum average input speed.
＊5 The maximum momentary input speed.
＊6 With this load and nominal input speed, service life will be 20,000 hours. (Applied to the output shaft center, at axial load 0)
＊7 With this load and nominal input speed, service life will be 20,000 hours. (Applied to the output side bearing, at radial load 0)
＊8 The weight may vary slightly model to model.

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