

DDM Rotary Table

D V - 1 7 0 P

- Table size
- P Pneumatic
- V Vertical application
- DDM direct drive (torque motor)



equipped with optional table with T-slot

- Rotation speed exceeds 250 min-1, excellent speed and efficiency for mass production.
- Low inertia- no gears or belts drive in direct drive system, resulting in lower inertia and greater acceleration / deceleration.
- Equipped with high precision encoder to achieve high precision positioning.
- Backlash-free transmission improves workpiece accuracy and surface roughness.
- Direct drive features reach zero-wear.

SPECIFICATIONS

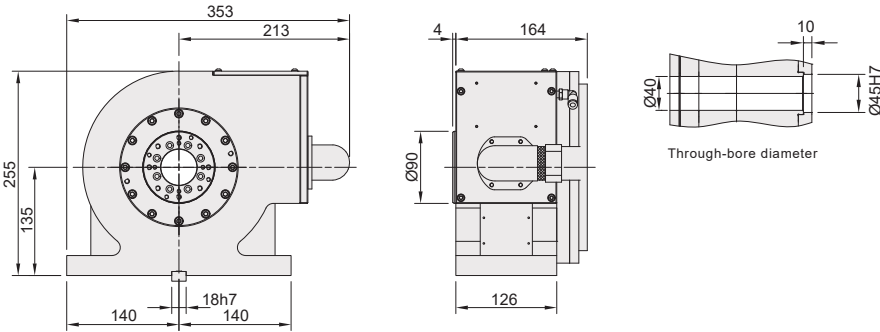
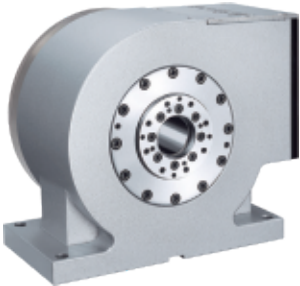
MODEL		Unit	DV-170P	DV-255PII
Worktable diameter		mm / inch	STD : No table OPT : Ø170 / Ø6.69	STD : No table OPT : Ø255 / Ø10.04
Center bore diameter (worktable)		mm / inch	OPT : Ø40H7 / Ø1.57H7	OPT : Ø50H7 / Ø1.96H7
Through-bore diameter		mm / inch	Ø40 / Ø1.57	Ø40 / Ø1.57
Height of center (vertical)		mm / inch	135 / 5.31	160 / 6.3
Width of T-slot		mm / inch	12H7 / 0.47H7	12H7 / 0.47H7
Width of guide block		mm / inch	18 / 0.71	18 / 0.71
Clamping method and pressure		MPa / psi	Pneumatic 0.6 ~ 0.7 / 87 ~ 101.5	Pneumatic 0.5 ~ 0.7 / 72.5 ~ 101.5
Clamping torque		N.m / ft. lbs.	230 / 169.51	400 / 294.8
Transmission Method			Direct Drive	Direct Drive
Max. table speed		min ⁻¹	250	250
Allowable loading capacity	Vertical	kg / lb	30 / 66	75 / 165
	Horizontal	kg / lb	-	-
	Rotary Tailstock applied	kg / lb	70 / 154	150 / 330
FxL When table clamped		N / lbs	12700 / 2849.88	14000 / 3141.6
		N.m / ft. lbs.	740 / 540.2	1020 / 751.74
		N.m / ft. lbs.	230 / 169.51	400 / 294.8
Allowable cutting torque		N.m / ft. lbs.	60 / 44.22	70 / 51.6
Allowable loading inertia $(\frac{W.D^2}{8})$		kg.m ²	0.11	0.61
Resolution		deg.	0.001	0.001
Indexing accuracy		sec.	20	20
Repeatability		sec.	4	4
Net weight (motor incl.)		kg / lb	47 / 104	70 / 154
Cooling system			Air cooling	Air cooling

Remark*:1.Torque motor (Direct Drive motor) can be chosen based on customers' control system.
2.Index accuracy will be different depending on encoder type revised.
3. FxL When table clamped is a reference data, the users should consider proper safety factor or contact detron for details.

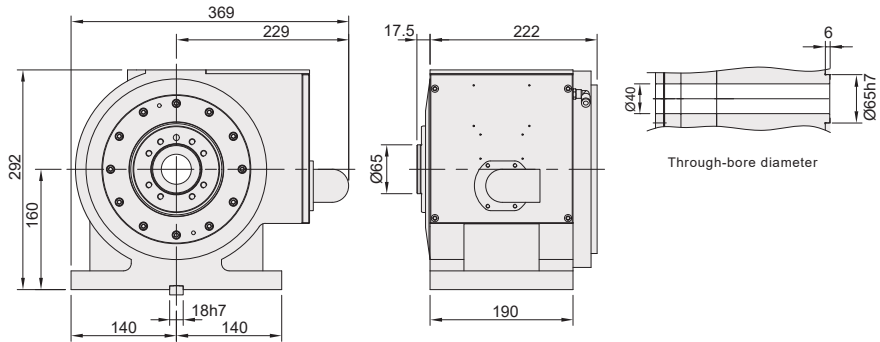
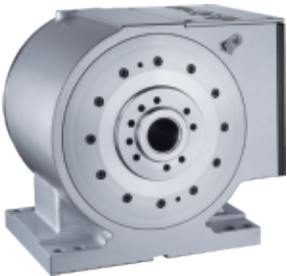
DIMENSIONAL DRAWINGS

Unit : mm

DV-170P



DV-255PII



Application Example



▲ 90° degree dividers



▲ Customized interface of quick change mold ,
EROWA as example