



UNIVERSAL JOINT

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'D' TYPE

A standard industrial type universal joint with pin and block design, the 'D' type is ideal for applications with up to 25° angular misalignment and speeds up to 1750 RPM. It is available unassembled with no bore, or assembled with a std bore. Boot retaining grooves are standard.

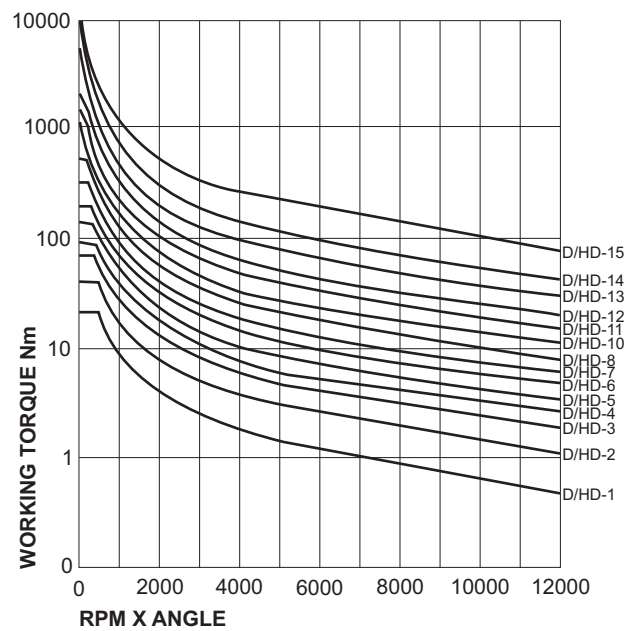
'HD' TYPE

The 'HD' Type is a high quality universal joint made to exacting tolerances, perfect for your toughest high angle, high RPM applications. Precision machining, hardened yokes and matched fitting of all components means that it normally provides at least twice the life of a standard industrial type universal joint. It is available unassembled with no bore, or assembled with a std bore. Boot retaining grooves are standard.

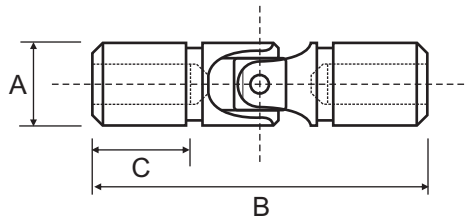
PERFORMANCE DATA



Part No.	Max Bore & Key	Max Bore No Key	Normal Maximum Speed (RPM)
D/HD-1	-	6.4	1750
D/HD-2	-	9.7	1750
D/HD-3	6.4	12.7	1750
D/HD-4	11.2	15.7	1750
D/HD-5	12.7	17.5	1750
D/HD-6	14.2	19.1	1750
D/HD-7	15.7	22.4	1750
D/HD-8	19.1	25.4	1750
D/HD10	22.2	28.4	1750
D/HD11	25.4	31.8	1750
D/HD12	30.2	38.1	1750
D/HD13	39.0	44.5	1750
D/HD14	48.0	50.8	1750
D/HD15	63.5	63.5	1750



DIMENSIONAL DATA



Steps in Selecting a Universal Joint

- Step 1** Multiply RPM by the working angle
- Step 2** Determine the nominal torque of your application in Nm
- Step 3** Multiply the calculated torque by the desired service factor
- Step 4** Refer to the running curves that apply to the desired U-Joint, D and HD. The required universal joint size can be determined by establishing the point of intersection of the RPM X Working angle figure on the horizontal scale and the service factor torque on the vertical scale. Size is stated against the curve

NOTE: These universals are available with no bore (solid) unassembled and std bore assembled.

Part No.	Bore			A	B	C
	Std	Max & Key	Max No Key			
D/HD-1	4.8	-	6.4	9.7	44.5	14.2
D/HD-2	6.4	-	9.7	12.7	50.8	15.7
D/HD-3	7.9	6.4	12.7	15.7	57.2	17.3
D/HD-4	9.7	11.2	15.7	19.1	68.1	22.4
D/HD-5	11.2	12.7	17.5	22.4	76.2	22.4
D/HD-6	12.7	14.2	19.1	25.4	85.9	25.4
D/HD-7	14.2	15.7	22.4	28.4	88.9	25.4
D/HD-8	15.7	19.1	25.4	31.8	95.3	26.9
D/HD10	19.1	22.2	28.4	38.1	108.0	30.0
D/HD11	22.4	25.4	31.8	44.5	127.0	35.1
D/HD12	25.4	30.2	38.1	50.8	138.2	38.1
D/HD13	31.8	39.0	44.5	63.5	177.8	50.8
D/HD14	38.1	48.0	50.8	76.2	230.1	69.9
D/HD15	50.8	63.5	63.5	101.6	269.7	76.2

Standard bore sizes are in inches



UNIVERSAL JOINT NEEDLE BEARING

NEEDLE BEARING TYPE

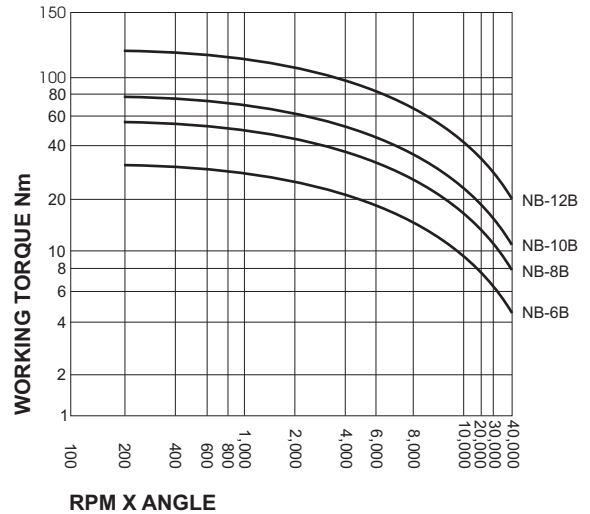
Designed with high quality, pre-lubricated and sealed needle bearings, this universal joint provides the reliability necessary for speeds up to 6000 RPM, and operating angles up to 25°

Needle bearing universal joints also ensure the precision required for robotics, instrumentation, control equipment, and many other demanding applications. It is available assembled with both no bore or with a std bore. Boot retaining grooves are standard.

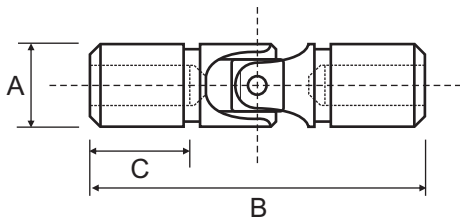
Part No.	Max Bore & Key	Max Bore No Key	Normal Maximum Speed (RPM)
NB-6	14.2	19.1	6000
NB-8	19.1	25.4	6000
NB10	22.4	28.4	6000
NB12	30.2	38.1	6000

NOTE: These universals are available with no bore (solid) assembled and std bore assembled.

PERFORMANCE DATA



DIMENSIONAL DATA



Part No.	Bore			A	B	C
	Std	Max & Key	Max No Key			
NB-6	12.7	14.2	19.1	25.4	85.9	25.4
NB-8	15.7	19.1	25.4	31.8	95.3	26.9
NB10	19.1	22.4	28.4	38.1	108.0	31.8
NB12	25.4	30.2	38.1	50.8	138.2	41.1

Standard bore sizes are in inches

Steps in Selecting a Universal Joint

- Step 1** Multiply RPM by the working angle
- Step 2** Determine the nominal torque of your application in Nm
- Step 3** Multiply the calculated torque by the desired service factor
- Step 4** Refer to the running curves that apply to the desired U-Joint. NB. The required universal joint size can be determined by establishing the point of intersection of the RPM X Working angle figure on the horizontal scale and the service factor torque on the vertical scale. Size is stated against the curve immediately above this point.