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Lovejoy

Universal Joints

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- HD Type
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- NB (Needle Bearing) Type
- LOJ Type
- DD and DDX Type
- Universal Joint Boots



U

D Type

- Standard industrial type universal joint with pin & block design
- The D Type is ideal for applications with angles up to 25° and speeds of up to 1,750 RPM
- Available in your choice of round, hex, splined, or keyway bore
- Boot retaining grooves are standard. See page UJ-11 for selection of on-site replaceable universal joint boots
- Lubrication is required for optimal wear – boots and lubricant extend universal joint life



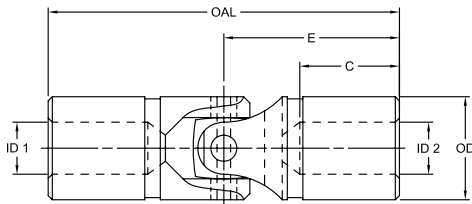
D Type

HD Type

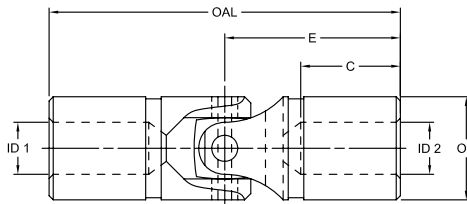
- The HD Type universal joint has induction hardened yoke ears provide longer life than standard D Type
- The hardened yokes are matched fitted with the universal components
- HDD and HDDX drive line assemblies can also be provided to increase life of your drive line or drive shaft
- Available in your choice of round, hex, splined, or keyway bore
- Boot retaining grooves are standard. See page UJ-11 for selection of on-site replaceable universal joint boots
- Lubrication is required for optimal wear – boots and lubricant extend universal joint life



HD Type



D Type



HD Type

D and HD Type Dimensional Data

Size	OAL	E	C	Std Bore	ID1 - ID2						OD	Static*		Weight	
					Main Pin Height	Bore Depth	Max Bore		Max Square/ Hex Hole ³			Breaking Torque	Solid lbs	Bored lbs	
							No Keyway	with Keyway	in	mm					in
D-1	1.75	.88	.56	.19	.25	6	–	–	.19	4	.38	110	12	.05	.04
D-2	2.00	1.00	.62	.25	.38	9	–	–	.25	6	.50	378	42	.10	.08
D-3	2.25	1.12	.68	.31	.50	12	–	–	.31	8	.62	540	61	.17	.15
D-4	2.68	1.34	.88	.38	.62	15	.44	11	.38	9	.75	768	86	.30	.25
D-5	3.00	1.50	.88	.44	.69	17	.50	12	.44	11	.88	1,176	132	.45	.37
D-6	3.38	1.68	1.00	.50	.75	19	.56	13	.50	12	1.00	1,560	176	.65	.55
D-7	3.50	1.75	1.00	.56	.88	22	.62	15	.56	14	1.12	2,880	325	.85	.71
D-8	3.75	1.88	1.06	.62	1.00	25	.75	18	.62	15	1.25	5,220	589	1.11	.94
D-10	4.25	2.12	1.18	.75	1.12	28	.88	21	.75	19	1.50	7,920	895	1.80	1.50
D-11	5.00	2.50	1.38	.88	1.25	31	1.00	25	.88	22	1.75	10,680	1 206	3.00	2.50
D-12	5.44	2.72	1.50	1.00	1.50	38	1.19	30	1.00	25	2.00	15,600	1 762	4.20	3.50
D-13	7.00	3.50	2.00	1.25	1.75	44	1.50	39	1.12	28	2.50	33,120	3 742	8.50	7.20
D-14	9.06	4.53	2.75	1.50	2.00	50	1.81	48	1.38	35	3.00	65,400	7 389	16.00	13.00

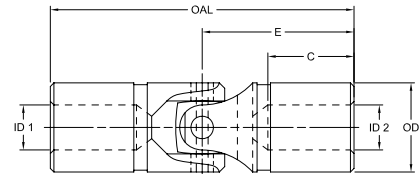
- Notes:
- * indicates: This is not a recommended operating torque.
 - 3 indicates: Square and hex bores are measured across the flats.
 - Operation of all universal joints is determined by the angle/speed combinations of the application. Consult Lovejoy Engineering for specific limitations and recommendations.
 - Applications that fall outside the limitations of these tables should be referred to Lovejoy Engineering for assistance.

D Type 303 Stainless

- Made from 303 stainless steel
- Ideal for applications with exposure to corrosive chemicals, corrosive atmosphere, or sanitation requirements are a factor
- Available in sizes: 4, 6, 8, 10 and 12 (Other sizes are quantity dependent)
- Available in your choice of round, hex, splined, or keyway bore
- Boot retaining grooves are standard. See page UJ-11 for selection of on-site replaceable universal joint boots
- Lubrication is required for optimal wear – boots and lubricant extend universal joint life
- Contact Lovejoy Engineering if you have specific questions or requirements



D-SS Type



D Type 303 Stainless Dimensional Data

Size		OAL in	E Main Pin Height in	C Bore Depth in	Std Bore in	ID1 - ID2						OD in	Static*		Weight	
Solid	Bored					Max Bore No Keyway in mm	Max Bore with Keyway in mm	Max Square/ Hex Hole ³ in mm	in	mm	in		mm	in-lb	Nm	Solid lbs
D-4SS	D-4SSB	2.68	1.34	.88	.38	.62	15	.44	11	.38	9	.75	512	58	.30	.25
D-6SS	D-6SSB	3.38	1.68	1.00	.50	.75	19	.56	13	.50	12	1.00	1,040	117	.62	.55
D-8SS	D-8SSB	3.75	1.88	1.06	.62	1.00	25	.75	18	.62	15	1.25	3,480	393	1.11	.94
D-10SS	D-10SSB	4.25	2.12	1.18	.75	1.12	28	.88	21	.75	19	1.50	5,280	597	1.80	1.50
D-12SS	D-12SSB	5.44	2.72	1.50	1.00	1.50	38	1.19	30	.88	22	2.00	10,400	1 175	4.20	3.50

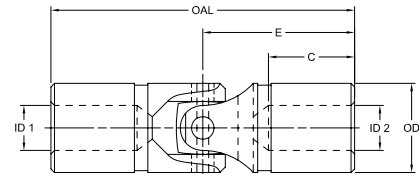
- Notes:
- * indicates: This is not recommended operating torque.
 - 3 indicates: Square and hex bore measured across the flats.
 - Keyways, set screws, pin holes, or bores other than standard available at additional charge.
 - Maximum operating angle for transmission of power is 25°.
 - Applications that fall outside the limitations of these tables should be referred to Lovejoy Engineering for assistance.

Needle Bearing (NB) Type

- Designed with high quality, pre-lubricated, and sealed needle bearings
- Ideal for applications up to 25° of angular misalignment and speeds up to 6,000 RPM
- Available in sizes: 6, 8, 10 and 12 (Other sizes are quantity dependent) with your choice of round, hex, splined, or keyway bores
- Boot retaining grooves are standard. See page UJ-11 for selection of on-site replaceable universal joint boots
- Lubrication is required for optimal wear – boots and lubricant extend universal joint life



NB Type



Needle Bearing Type Dimensional Data

Size		OAL in	E Main Pin Height in	C Bore Depth in	Std Bore in	ID1 - ID2						OD in	Static*		Weight Solid lbs
Solid	Bored					Max Bore No Keyway in mm	Max Bore with Keyway in mm	Max Square/ Hex Hole ³ in mm	in	mm	in		mm	in-lb	
NB-6	NB-6B	3.38	1.68	1.00	.50	.75	19	.56	13	.50	12	1.00	1,150	130	.53
NB-8	NB-8B	3.75	1.88	1.06	.62	1.00	25	.75	18	.62	15	1.25	2,500	282	.91
NB-10	NB-10B	4.25	2.12	1.18	.75	1.12	28	.88	21	.75	19	1.50	4,400	497	1.50
NB-12	NB-12B	5.44	2.72	1.50	1.00	1.50	38	1.19	30	.88	22	2.00	10,500	1 186	3.40

- Notes:
- * indicates: This is not recommended operating torque.
 - 3 indicates: Square and hex bore measured across the flats.
 - Maximum operating angle for transmission of power is 25°.
 - For greater angular operation, use double universal joint. Join two universal joints back to back and connect with a short shaft. Attach universal joints to shaft by drilling and pinning.
 - Swing Diameter is the maximum diameter over bearings, clearance must be allowed.