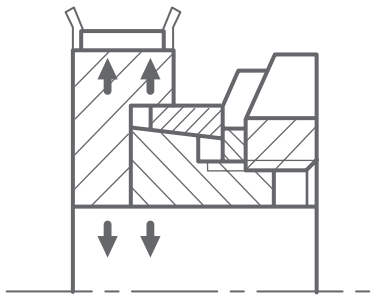
CAPT POWER TRANSMISSION 凯普特传动

NSPT New Standard Power Transmission

NSPT-LOCKS



Suitable of Shaft Diameters

Metric:ϕ14～ϕ70(mm)

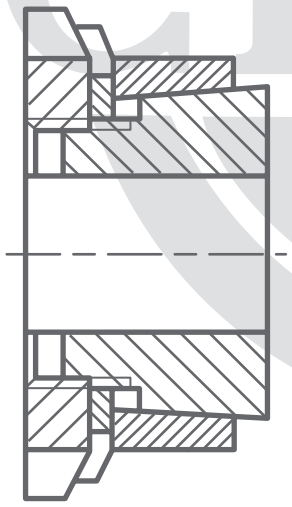
Inch:5/8"-23/4"

HL NSPT-LOCKS is designed for connections between small or medium diameter shafts and hubs. It has high concentricity, low production and operating costs and is easy for self-installation. The straight-line-design for the shafts and hub bores makes the machining process much less complicated.

The installation of HL NSPT-LOCKS is as followed:
Twist the round nut on the inner hub with outer taper surface. Make the nut move axially to press the outer ring with taper bore. The pressures and the frictional forces can then be created. The shaft and the hub can then be connected without keys or clearance.

HL type NSPT-LOCKS can be installed with only one round nut. Simply twist the nut to tighten the shaft and the hub, lock the round nut by relevant washier in order to prevent the lock from moving axially and to ensure the torque transmitting efficiency and effectiveness.

Please notice that HL NSPT-LOCKS can only be installed and used when the dimension B is larger than the axial length of the inner bore of the hub.



Expression of NSPT-LOCKS HL

NL 5 X 16 HL

- HL — NSPT-LOCKS HL
- 16 — Outside Diameter D
- 5 — Shaft Diameter d
- NL — NSPT-LOCKS Code

Conversion:1 inch=25.40mm

HL NSPT-LOCKS

Conversion

1 ft-lbs. = 0.1382 kgf.m = 1.3550 N.m

1 Psi = 0.0007 kgf/mm^2 = 0.0069 Mpa

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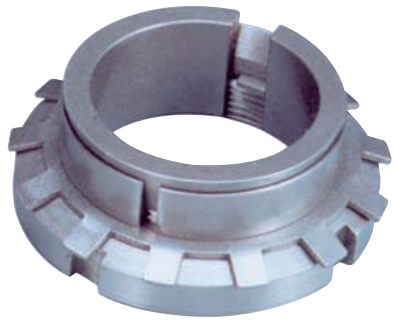
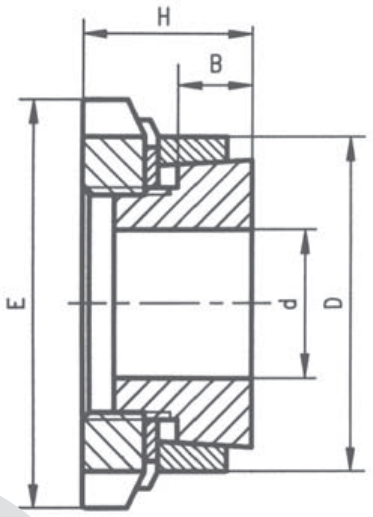
Inches





HL NSPT-LOCKS

METRIC SIZES INCHES			TOLERANCE INCHES		INCHES			Mt	Axial	pw	pn	LOCKING SCREW	
Size	d	D	Shaft	Hub	H	B	E	ft-lb	force lb	psi	psi	Type	Ms ft-lb
14x25	0.551	0.984			0.650	0.256	1.260	28	1125	29000	15950	KM4	70
15X25	0.591	0.984			0.650	0.256	1.260	30	1125	26825	15950	KM4	70
16x25	0.630	0.984	+0/-.001	-0/+.0013	0.650	0.256	1.260	32	1125	25230	15950	KM4	70
17x30	0.669	1.181			0.709	0.256	1.496	41	1350	28565	16240	KM5	118
18x30	0.709	1.181			0.709	0.256	1.496	43	1350	26970	16240	KM5	118
19x30	0.748	1.181	+0/-.0013	-0/+.0013	0.709	0.256	1.496	46	1575	25520	16240	KM5	118
20x30	0.787	1.181			0.709	0.256	1.496	49	1575	24215	16095	KM5	118
22x35	0.866	1.378			0.709	0.256	1.772	71	1800	29290	18415	KM6	163
24x35	0.945	1.378			0.709	0.256	1.772	78	2025	26825	18415	KM6	163
25x35	0.984	1.378	+0/-.0013	-0/+.0016	0.709	0.256	1.772	81	2025	25810	18415	KM6	163
28x40	1.102	1.575			0.768	0.276	2.047	111	2250	25520	17835	KM7	252
30x40	1.181	1.575			0.768	0.276	2.048	118	2475	23780	17835	KM7	252
32x45	1.260	1.772			0.846	0.315	2.283	155	2700	24215	17400	KM8	355
35x45	1.378	1.772	+0/-.0016	-0/+.0016	0.846	0.315	2.283	170	2925	22185	17400	KM8	355
36x45	1.417	1.772			0.846	0.315	2.283	178	2925	21605	17400	KM8	355
38x52	1.496	2.047			0.965	0.394	2.559	215	3150	18270	13485	KM9	503
40x52	1.575	2.047			0.965	0.394	2.559	229	3375	17400	13485	KM9	503
42x57	1.654	2.244	+0/-.0016	-0/+.0018	1.004	0.394	2.756	274	3825	18995	13920	KM10	644
45x57	1.772	2.244			1.004	0.394	2.756	296	4050	17690	13920	KM10	644
48x62	1.890	2.441			1.004	0.394	2.953	370	4725	19575	15225	KM11	718
50x62	1.969	2.441			1.004	0.394	2.953	385	4725	18850	15225	KM11	718
55x68	2.165	2.677			1.083	0.472	3.150	451	4950	14935	12180	KM12	814
56x68	2.205	2.677			1.083	0.472	3.150	459	4950	14645	11890	KM12	814
60x73	2.362	2.874	+0/-.0018	-0/-.0018	1.122	0.472	3.346	592	6075	16385	13485	KM13	962
63x79	2.480	3.110			1.201	0.551	3.622	725	6975	15515	12470	KM14	1184
65x79	2.559	3.110			1.201	0.551	3.622	747	6975	15280	12470	KM14	1184
70x84	2.756	3.307	+0/-.0018	-0/+.0022	1.240	0.551	3.858	918	7875	15950	13340	KM15	1480

Conversion: 1 inch= 25.40mm

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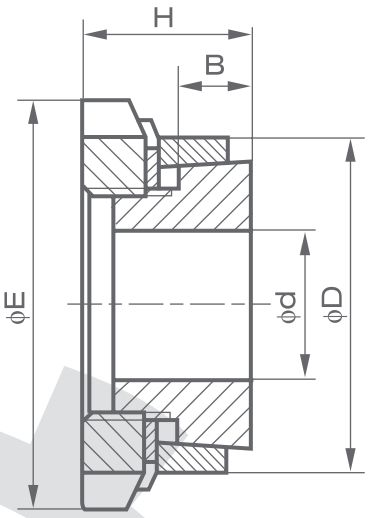
Metric



HL NSPT-LOCKS

Catalog dxD	Fundamental dimensions H	B	E	Locking nut Sizes	Ma(N.m)	Rated load Ft(Kn)	Mt(Kn.m)	Ps Mpa	Ph Mpa	G Kg
CL14x25HL	16.5	6.5	32	M20x1.0	95	5.1	0.038	200	110	0.06
CL15x25HL	16.5	6.5	32	M20x1.0	95	5.5	0.041	185	110	0.06
CL16x25HL	16.5	6.5	32	M20x1.0	95	5.45	0.043	174	110	0.06
CL17x26HL	16.5	6.5	32	M20x1.0	95	5.5	0.047	164	107	0.07
CL18x26HL	16.5	6.5	32	M22x1.0	95	5.4	0.049	155	107	0.07
CL18x30HL	18	6.5	38	M25x1.5	160	6.6	0.058	185	112	0.07
CL19x30HL	18	6.5	38	M25x1.5	160	6.6	0.062	176	112	0.08
CL20x30HL	18	6.5	38	M25x1.5	160	6.6	0.066	167	111	0.08
CL22x32HL	18	6.5	38	M25x1.5	160	6.6	0.073	152	105	0.09
CL24x35HL	18	6.5	45	M30x1.5	220	8.75	0.105	185	127	0.09
CL25x35HL	18	6.5	45	M30x1.5	220	8.8	0.11	178	127	0.09
CL28x36HL	18	6.5	48	M32x1.5	220	8.55	0.12	159	124	0.14
CL28x40HL	19.5	7	52	M35x1.5	340	10.6	0.149	188	141	0.15
CL30x40HL	19.5	7	52	M35x1.5	340	10.6	0.16	164	123	0.14
CL32x42HL	21.5	8	55	M36x1.5	340	10.6	0.17	154	117	0.16
CL35x45HL	21.5	8	58	M40x1.5	480	13.1	0.23	153	120	0.17
CL36x45HL	21.5	8	58	M40x1.5	480	13.3	0.24	149	120	0.16
CL38x48HL	21.5	8	62	M42x1.5	480	13.1	0.25	141	112	0.27
CL38x50HL	21.5	8	62	M42x1.5	480	13.1	0.25	141	112	0.28
CL40x50HL	24.5	10	65	M45x1.5	680	15.5	0.31	124	93	0.24
CL40x52HL	24.5	10	65	M45x1.5	680	15.5	0.31	120	93	0.26
CL42x55HL	24.5	10	68	M48x1.5	680	15.2	0.32	114	87	0.28
CL45x55HL	25.5	10	70	M50x1.5	870	17.7	0.4	122	96	0.30
CL45x57HL	25.5	10	70	M50x1.5	870	17.7	0.4	122	96	0.30
CL48x60HL	25.5	10	75	M55x2.0	970	20.8	0.5	135	105	0.36
CL50x60HL	25.5	10	75	M55x2.0	970	20.8	0.52	130	105	0.32
CL50x62HL	25.5	10	75	M55x2.0	970	20.8	0.52	130	105	0.32
CL55x65HL	27.5	12	80	M60x2.0	1100	22	0.61	103	84	0.38
CL55x68HL	27.5	12	80	M60x2.0	1100	22	0.61	103	84	0.38
CL56x68HL	27.5	12	80	M60x2.0	1100	22	0.62	101	82	0.39
CL60x70HL	28.5	12	85	M65x2.0	1300	26.6	0.8	113	93	0.43
CL60x73HL	28.5	12	85	M65x2.0	1300	26.6	0.8	113	93	0.43
CL63x79HL	30.5	14	92	M70x2.0	1600	31.1	0.98	107	86	0.47
CL65x79HL	30.5	14	92	M70x2.0	1600	31.1	1.01	104	86	0.50
CL70x84HL	31.5	14	98	M75x2.0	2000	35.4	1.24	110	92	0.65

Conversion:1 inch=25.40mm