

NCP[®]

HYDRAULIC INDEX MOTORS



NCP INDIA

Nippon Oil Pump India Private Limited

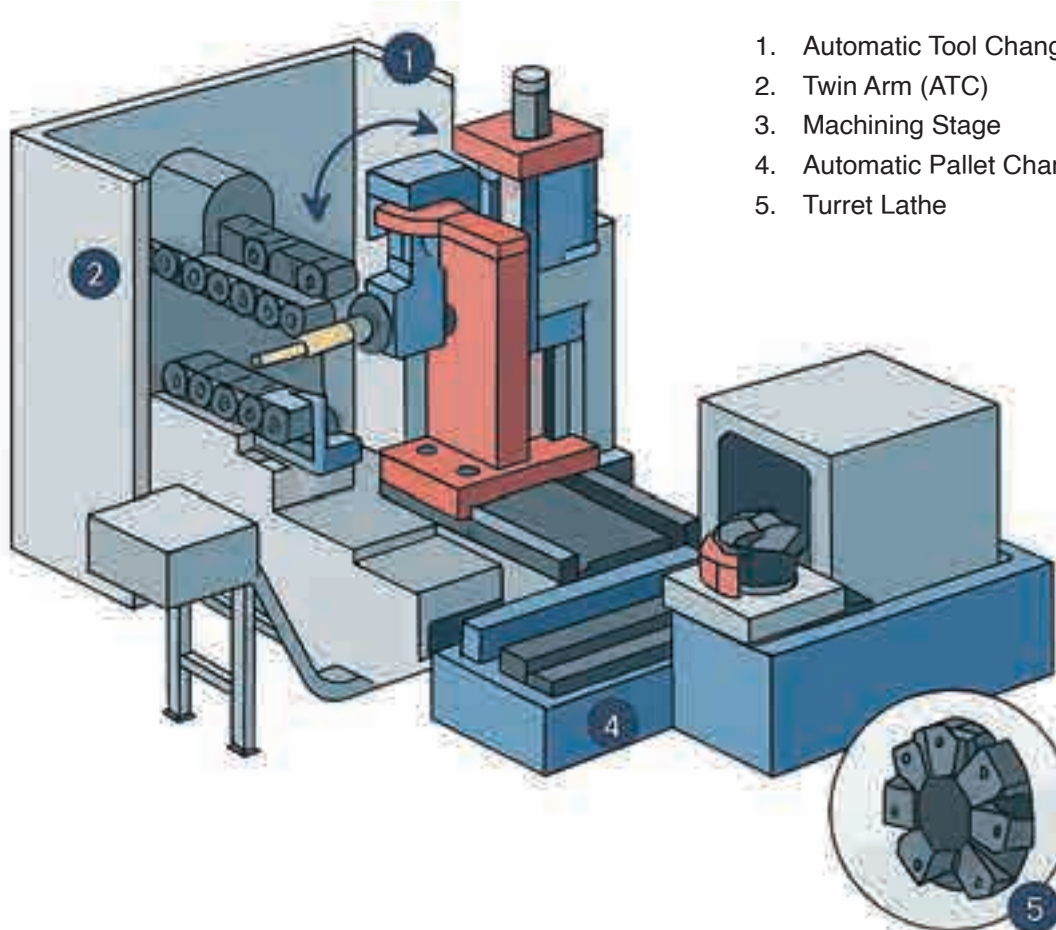
HI Series

Hydraulic Index Motor



- Compact Size & Light Weight
- High Speed
- High Torque
- Precise Positioning & Smooth operations
- Withstand Continuous long use under severe radial and thrust load
- Easy to interface with PLC / PMC
- Reliable operations & Long service life
- Easy adjustment of Rotation Speed, Clamping Speed, Initial & Fixed Gain
- Maintenance Free

Applications



1. Automatic Tool Changer (ATC)
2. Twin Arm (ATC)
3. Machining Stage
4. Automatic Pallet Changer
5. Turret Lathe

Hydraulic Index (HI) Motor Performance Table



Torque (N-m)

46

Motor Shaft Speed (min-1)

123

Motor Output Power (kW)

0.59

When the differential Pressure is 5.0 MPa and the supply flow rate is 24L/min with HI-190

Test Conditions

Oil Temperature : 38°C~42°C

Oil Used : ISO VG32

MPa

MPa is the effective differential pressure

HI 100

MPa L/min	2	3	4	5	6	7
8	15	29	43	58	72	85
	84	81	76	71	68	63
	0.13	0.24	0.34	0.43	0.51	0.56
10	11	26	41	55	69	83
	106	102	97	93	89	85
	0.12	0.27	0.41	0.53	0.64	0.74
12	8	22	37	52	66	80
	125	119	115	111	107	105
	0.10	0.28	0.45	0.60	0.74	0.87
14	4	18	33	48	62	78
	146	141	136	132	129	126
	0.06	0.27	0.47	0.66	0.84	1
16		13	29	44	58	72
		160	156	152	149	146
		0.22	0.47	0.69	0.90	1.10
18		9	24	38	53	67
		179	176	173	169	165
		0.17	0.44	0.69	0.94	1.16
20		4	19	33	48	63
		200	196	193	189	185
		0.09	0.39	0.67	0.95	1.22
22			13	28	43	57
			216	213	210	206
			0.29	0.61	0.93	1.24
24			7	22	36	51
			238	234	231	227
			0.16	0.53	0.87	1.20
26				15	30	45
				245	250	246
				0.40	0.78	1.15

HI 160

MPa L/min	2	3	4	5	6	7
8	28	50	73	96	118	140
	51	50	47	44	41	38
	0.15	0.26	0.36	0.44	0.51	0.56
10	23	45	69	93	115	137
	64	63	59	56	54	51
	0.15	0.30	0.43	0.55	0.65	0.73
12	17	40	64	88	110	134
	77	75	72	69	66	63
	0.14	0.31	0.48	0.63	0.76	0.88
14	10	34	57	82	104	127
	89	87	84	81	78	76
	0.10	0.31	0.50	0.70	0.85	1.01
16		28	51	75	98	121
		97	95	93	90	88
		0.29	0.51	0.73	0.92	1.11
18		21	44	68	92	113
		110	107	105	103	100
		0.24	0.50	0.74	0.98	1.19
20		13	36	59	82	105
		122	120	118	116	113
		0.16	0.44	0.72	0.99	1.24
22			25	49	73	96
			133	131	129	127
			0.35	0.67	0.98	1.27
24			16	40	63	86
			145	143	141	139
			0.24	0.60	0.93	1.25
26				28	52	75
				156	154	151
				0.46	0.83	1.18

HI 190

MPa L/min	2	3	4	5	6	7
8	34	60	86	112	138	164
	45	44	41	38	36	33
	0.16	0.28	0.37	0.45	0.52	0.56
10	28	55	81	108	134	160
	56	54	51	48	46	43
	0.16	0.31	0.43	0.55	0.64	0.73
12	22	48	75	102	129	156
	66	64	62	59	56	54
	0.15	0.32	0.48	0.63	0.76	0.88
14	13	41	68	96	122	149
	77	75	72	69	67	65
	0.11	0.32	0.51	0.69	0.86	1.00
16		33	60	88	114	140
		85	83	80	78	76
		0.29	0.52	0.74	0.93	1.11
18		24	51	79	105	131
		95	92	90	88	86
		0.24	0.49	0.74	0.96	1.18
20		15	42	69	95	121
		105	104	102	100	98
		0.17	0.45	0.73	0.99	1.24
22			31	58	84	111
			115	113	111	109
			0.38	0.69	0.98	1.26
24			19	46	74	99
			125	123	121	120
			0.25	0.59	0.94	1.24
26				33	60	87
				134	133	130
				0.46	0.83	1.18

Trochoid® Pumps

Filtre³

Filter Pumps

Hydraulic Index Motors

Air Oil Cooler

NOP INDIA

Nippon Oil Pump India Private Limited

Building# 3, Plot No. 175-176, 11th Main,
3rd Phase, Industrial Area, Peenya,
Bengaluru (Urban) - 560 058. Karnataka, India.
Tel: +91-80-4123-8431

Web: <https://www.nopindia.com>
e-mail: info@nopindia.com

Regional Contact ►►

• North	9606013950 9606817258
• Punjab	9606817258
• Gujarat	6364833633
• Maharashtra	9606013947
• Karnataka & Telangana	7022093574 9606725948
• Tamil Nadu & Andhra Pradesh	6364833634