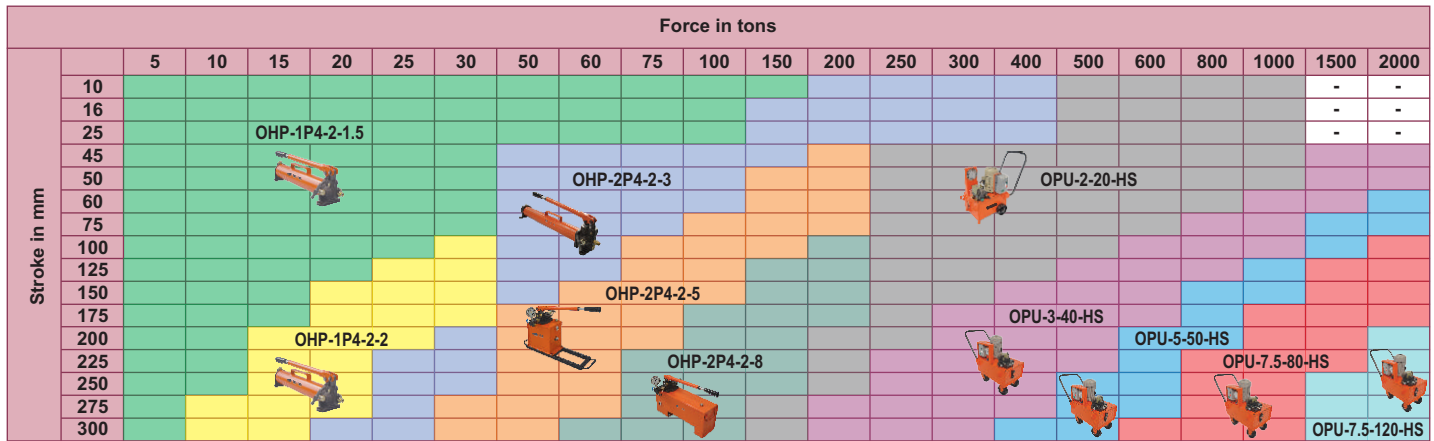# How To Choose Suitable Pump

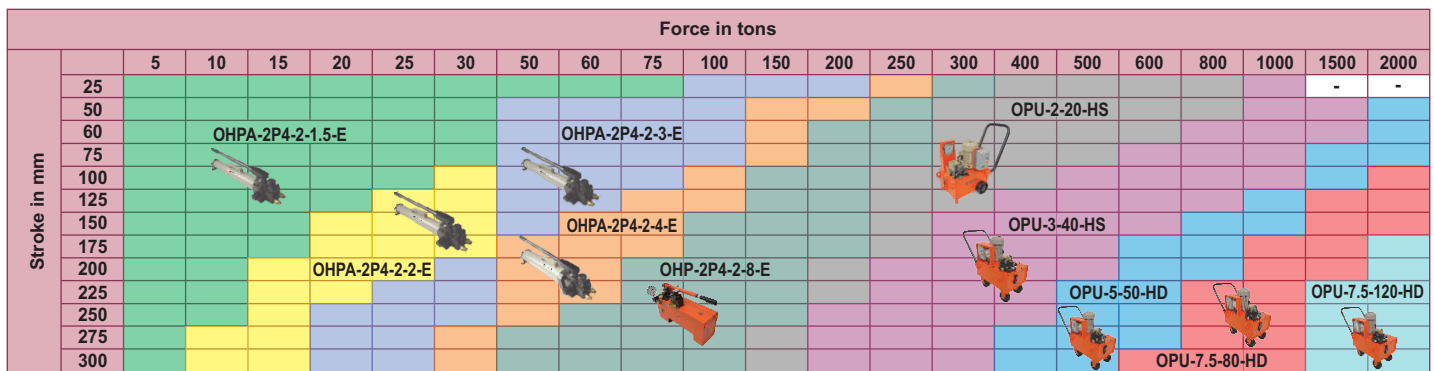Working Pressure 700 bar

Selection of Pump based on its Tank Capacity

Below chart will help identify suitable pump to operate jacks which includes oil volume in hose pipes. Upto 100t, 2m hose and 150t & above, 4m hose is considered. Coloured areas indicate the proposed pump based on jack capacity and stroke.

Single Acting Jack

Chart labels: OHP-1P4-2-1.5, OHP-2P4-2-3, OPU-2-20-HS, OHP-2P4-2-5, OPU-3-40-HS, OPU-5-50-HS, OHP-1P4-2-2, OHP-2P4-2-8, OPU-7.5-80-HS, OPU-7.5-120-HS

(Axes: Force in tons — 5, 10, 15, 20, 25, 30, 50, 60, 75, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1500, 2000; Stroke in mm — 10, 16, 25, 45, 50, 60, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300)

Double Acting Jack

Chart labels: OHPA-2P4-2-1.5-E, OHPA-2P4-2-3-E, OPU-2-20-HS, OHPA-2P4-2-4-E, OPU-3-40-HS, OHPA-2P4-2-2-E, OHP-2P4-2-8-E, OPU-5-50-HD, OPU-7.5-120-HD, OPU-7.5-80-HD

(Axes: Force in tons — 5, 10, 15, 20, 25, 30, 50, 60, 75, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1500, 2000; Stroke in mm — 25, 50, 60, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300)

Selection of Pump based on Jack Speed

Hand Pump

Piston stroke in mm for each pump handle stroke

Pump Type	Pressure Stage	Force in tons											
		5	10	15	20	25	30	50	60	75	100	150	200
OHP-1P4-2	Single	3.5	1.8	1.2	0.9	0.7	0.6	0.4	0.3	0.2	-	-	-
OHPA-2P4-2	1st Stage	18.8	9.4	6.3	4.8	3.9	3.4	1.9	1.7	1.3	1.0	0.7	0.5
OHPA-2P4-2	2nd Stage	3.5	1.8	1.2	0.9	0.7	0.6	0.4	0.3	0.2	0.2	0.1	0.1
OHP-2P4-2	1st Stage	61.3	30.8	20.6	15.7	12.7	11.1	6.2	5.7	4.3	3.2	2.2	1.6
OHP-2P4-2	2nd Stage	3.5	1.8	1.2	0.9	0.7	0.6	0.4	0.3	0.2	0.2	0.1	0.1

Power Pack Unit

Piston speed in mm per second

Pump Type	Pressure Stage	Force in tons													
		50	60	75	100	150	200	250	300	400	500	600	800	1000	1500	2000
OPU-2-HS	Single	2.1	1.9	1.5	1.1	0.7	0.5	0.4	0.4	0.3	0.2	0.2	-	-	-	-
OPU-3-HS	Single	3.2	2.9	2.2	1.6	1.1	0.8	0.7	0.6	0.4	0.4	0.3	-	-	-	-
OPU-5-HS	Single	5.5	5.0	3.8	2.8	1.9	1.4	1.1	1.0	0.8	0.6	0.5	-	-	-	-
OPU-2-HD	1st Stage	10.2	9.3	7.1	5.2	3.5	2.5	2.1	1.8	1.4	1.1	0.9	-	-	-	-
OPU-2-HD	2nd Stage	2.1	1.9	1.5	1.1	0.7	0.5	0.4	0.4	0.3	0.2	0.2	-	-	-	-
OPU-3-HD	1st Stage	15.5	14.1	10.8	7.9	5.4	3.9	3.2	2.7	2.1	1.7	1.4	1.1	0.9	-	-
OPU-3-HD	2nd Stage	3.2	2.9	2.2	1.6	1.1	0.8	0.7	0.6	0.4	0.4	0.3	0.2	0.2	-	-
OPU-5-HD	1st Stage	-	-	18.1	13.3	9.0	6.5	5.4	4.5	3.6	2.9	2.4	1.8	1.4	0.9	0.7
OPU-5-HD	2nd Stage	-	-	3.7	2.7	1.8	1.3	1.1	0.9	0.7	0.6	0.5	0.4	0.3	0.2	0.1
OPU-7.5-HD	1st Stage	-	-	-	18.7	12.7	9.2	7.6	6.4	5.0	4.1	3.4	2.5	2.0	1.3	1.0
OPU-7.5-HD	2nd Stage	-	-	-	4.0	2.7	2.0	1.6	1.4	1.1	0.9	0.7	0.5	0.4	0.3	0.2