

## SFSF clamshells motors

### PNEUMATIC MOTORS

B50-100X



B50-xxx-RA



HM-xxx



K7x-LT-xxx



PDx48U



MOTOR	RIGHT-ANGLE	SPEED	POWER	TORQUE	AIR CONSUMPTION		AIR PRESSURE	
		RPM	HP	NM	LT/MIN	CFM	BAR	PSI
B50-100X	-	200	1,3	70	1300	55	6,2	90
B50-115-RA	YES	115	1,3	186	1300	55	6,2	90
B50-210-RA	YES	210	1,3	102	1300	55	6,2	90
B50-290-RA	YES	290	1,3	74	1300	55	6,2	90
HM-198	-	198	2,2	186	2200	75	6,2	90
HM-252	-	252	2,2	150	2200	75	6,2	90
HM-379	-	379	2,2	105	2200	75	6,2	90
HM-498	-	498	2,2	83	2200	75	6,2	90
K72-LT-90	YES	90	2,2	405	2200	75	6,2	90
K73-LT-190	YES	190	2,2	200	2200	75	6,2	90
PD248U	-	185	3,5	416	2800	95	6,2	90
PD348U	-	60	3,5	1250	2800	95	6,2	90

### RECOMMENDATIONS

Only proposal and subject to change upon customer requirement and application

### PNEUMATIC MOTORS

UNIT	MOTOR*	POWER	WEIGHT
		HP	KG
SF-4	B50-100X	1,3	11
SF-6	HM-252	2,2	17
SF-8	HM-252	2,2	20
SF-10	HM-252	2,2	27
SF-12	HM-252	2,2	23
SF-14	HM-198	2,2	28
SF-16	HM-198	2,2	32
SF-18	K72-LT-90	2,2	36
SF-20	K72-LT-90	2,2	39
SF-24	PD248U	3,5	52
SF-28	PD248U	3,5	95
SF-32	PD248U	3,5	107
SF-36	PD248U	3,5	118
SF-42	PD248U	3,5	137
SF-48	PD248U	3,5	153

### HYDRAULIC MOTOR



MOTOR	SPEED	POWER	TORQUE	OIL PRESSURE		MIN. OIL FLOW RATE	
	RPM	HP	NM	BAR	PSI	LT/MIN	GPM
HTB-165	343	16,7	273	190	2750	57	15

### HYDRAULIC MOTORS

UNIT	MOTOR*	POWER	WEIGHT
		HP	KG
SF-16	HTB-165	16,7	32
SF-18	HTB-165	16,7	36
SF-20	HTB-165	16,7	39
SF-24	HTB-165	16,7	52
SF-28	HTB-165	16,7	95
SF-32	HTB-165	16,7	107
SF-36	HTB-165	16,7	118
SF-42	HTB-165	16,7	137
SF-48	HTB-165	16,7	153

### ELECTRIC MOTORS



PDEC-3200



DUDE 2000



K90Exxx

MOTOR	REVERSIBLE	RIGHTANGLE	MOTOR SPEED	POWER	TORQUE	VOLTAGE
			RPM	WATT	OUT	VOLT
PDEC-3200/100	-	-	100	3200	800 Nm	110/230
PDEC-3200/145	-	-	145	3200	540 Nm	110/230
PDEC-3200/185	-	-	185	3200	420 Nm	110/230
DUDE-2000-4-speed	YES	-	120, 210, 380, 650	2000	240 Nm	110/230
K90E90	-	YES	90	1150	510 Nm	110/230
K90E190	-	YES	190	1150	260 Nm	110/230
K90E280	-	YES	280	1150	190 Nm	110/230

### RECOMMENDATION - ELECTRIC MOTORS

**First choice electric drive:** PDEC-3200 - high-torque motor with built-in controller for precise speed control. Similar to servo motors, this drive does not slow down and does not tighten under load, but generates up to 5 times more torque than a servo motor which translates into high machining stability. Offers additionally a bunch of indicators: for overload, overheating and brush worn.

### HIGH-END ELECTRIC SERVO DRIVE WITH CONTROL BOX (3 PHASE)



	POWER [WATT]	VOLTAGE [V]
Drive option 1	2300	390 – 440
Drive option 2	4300	390 – 440

UNIT	MOTOR*	POWER	WEIGHT
		WATT	KG
SF-4	PDEC	3200	11
SF-6	PDEC	3200	17
SF-8	PDEC	3200	20
SF-10	PDEC	3200	27
SF-12	PDEC	3200	23
SF-14	PDEC	3200	28
SF-16	PDEC	3200	32

## Other Clamshell K70 Drives

The KRAIS 70 series pneumatic drive motors are the perfect option for all your clamshell needs. They have undergone more than 20 years of rigorous field testing that guarantee's quality and maximum tool life.

The KRAIS 70 series motors and associated spare parts have been designed to be compatible with Cleco 75 series Nutrunners. This allows convenient parts interchangeability of existing motors as used by E.H.Wachs, D.L.Ricci / Hydratight, H&S and other popular clamshell manufacturers.

Both right angle and inline versions are available.

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DL Ricci® and Hydratight® are a registered trademark of Enerpac  
E.H. Wachs® is a registered trademark of ITW, Inc.  
H&S® is a registered trademark of Climax*



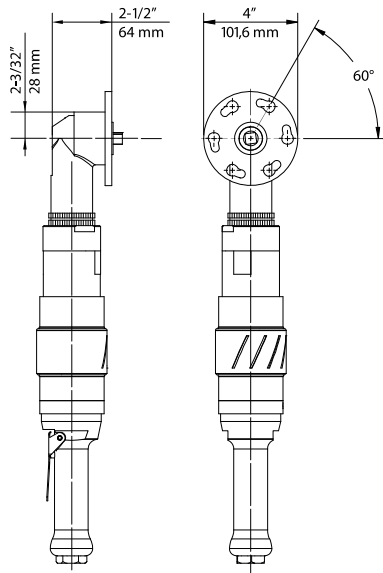
MODEL NUMBER	REVERSIBLE	SQUARE DRIVE	TORQUE		FREE SPEED	LENGTH		WEIGHT		HEAD HEIGHT		ANGLE HEAD SIZE
			FT.LBS.	NM	RPM	IN	MM	LBS	KG	IN	MM	
<b>RIGHT ANGLE VERSION</b>												
K75-RL-3V-375	Yes	1/2"	82	111	375	19,35	491	12,7	5,8	2,5	64	V
K75-RL-3V-280	Yes	1/2"	104	141	280	19,35	491	12,7	5,8	2,5	64	V
K75-RL-3V-190	Yes	1/2"	140	190	190	19,35	491	12,7	5,8	2,5	64	V
K75-RL-3V-152	Yes	1/2"	180	244	152	19,35	491	12,7	5,8	2,5	64	V
K75-RL-3V-100	Yes	1/2"	283	384	101	20,10	511	16,5	6,4	2,5	64	V
K75-RL-3V-50	Yes	1/2"	544	738	50	20,10	511	16,5	6,4	2,5	64	V
K75-NL-3V-190	No	1/2"	165	225	190	19,35	491	12,7	5,8	2,5	64	V
<b>IN LINE VERSION</b>												
L75-RL-488	Yes	1/2"	63	86	488	11,00	279	8,8	4,0	2,5	64	-
L75-RL-364	Yes	1/2"	80	108	364	11,00	279	8,8	4,0	2,5	64	-
L75-RL-247	Yes	1/2"	108	146	247	11,00	279	8,8	4,0	2,5	64	-
L75-RL-198	Yes	1/2"	138	188	198	11,00	279	8,8	4,0	2,5	64	-
L75-RL-131	Yes	1/2"	218	295	131	13,40	340	10,0	4,6	2,5	64	-
L75-RL-65	Yes	1/2"	418	567	65	13,40	340	10,0	4,6	2,5	64	-
L75-NL-247	No	1/2"	127	225	247	11,00	279	8,8	4,0	2,5	64	-

**Air use:** air inlet NPT: 1/2"; minimal hose ID: 1/2", 70 scfm

### MOUNTING FLANGE



Our mounting flange is manufactured to align with popular E.H.Wachs or D.L.Ricci/Hydratight machines. Custom mounting flanges can be manufactured upon request.



### FLEXIBLE CONFIG

KRAIS 70 Series Drives are available in both right angle and inline configurations. Electric and Hydraulic options are also available. Please consult factory.

