

SOLUTIONS AT HAND



GRIPPING TECHNOLOGY
AT A GLANCE

www.iprrobotics.com
ISO 9001:2008

DIN/ISO PRODUCT LINE



Built in Fail-Safe Spring for internal/external Gripping (optional)

2-Jaw-Parallel Gripper — IRP Series

Model	Grip Force*		Stroke		Weight		Height		Width		Length	
	N	[lbs.]	mm	[in.]	kg	[lbs.]	mm	[in.]	mm	[in.]	mm	[in.]
IRP-13-ISO 31.5	150	[34]	4.2	[0.17]	0.15	[0.3]	43.5	[1.713]	40.0	[1.575]	40.0	[1.575]
IRP-14-ISO 40	170	[38]	6.3	[0.25]	0.20	[0.4]	45.8	[1.803]	50.0	[1.970]	50.0	[1.970]
IRP-15-ISO 50	300	[67]	12.7	[0.50]	0.70	[1.5]	77.7	[3.060]	65.0	[2.560]	68.3	[2.690]
IRP-16-ISO 50	300	[67]	20.0	[0.79]	1.25	[2.8]	90.0	[3.543]	65.0	[2.560]	90.0	[3.543]
IRP-17-ISO 80	930	[209]	30.0	[1.18]	2.80	[6.2]	92.0	[3.622]	100.0	[3.937]	120.0	[4.724]
IRP-18-ISO 100	1800	[405]	30.0	[1.18]	3.20	[7.1]	92.5	[3.642]	120.0	[4.724]	124.0	[4.882]
IRP-19/20-ISO 125	4700	[1057]	20.0	[0.79]	6.80	[15.0]	112.0	[4.410]	144.0	[5.670]	166.0	[6.535]
IRP-19/40-ISO 125	2600	[585]	40.0	[1.57]	6.80	[15.0]	112.0	[4.410]	144.0	[5.670]	166.0	[6.535]
IRP-20-ISO 160	7200	[1619]	38.0	[1.50]	18.30	[40.3]	156.5	[6.160]	198.0	[7.795]	208.0	[8.190]
IRP-21/37-ISO 250	15400	[3462]	37.0	[1.46]	37.00	[81.6]	170.0	[6.693]	290.0	[11.417]	308.0	[12.126]
IRP-21/64-ISO 250	8900	[2001]	64.0	[2.52]	37.00	[81.6]	170.0	[6.693]	290.0	[11.417]	308.0	[12.126]



2-Jaw-Angular Gripper — WG Series

Model	Grip Force*		Stroke per Jaw	Weight		Height		Diameter	
	N	[lbs.]		kg	[lbs.]	mm	[in.]	mm	[in.]
WG-125-ISO	3100	[697]	15°	2.80	[6.2]	109.0	[4.290]	144.0	[5.670]
WG-160-ISO	6100	[1371]	15°	5.90	[13.0]	133.0	[5.236]	198.0	[7.795]

3-Jaw-Angular Gripper — WGC Series

Model	Grip Force*		Stroke per Jaw	Weight		Height		Diameter	
	N	[lbs.]		kg	[lbs.]	mm	[in.]	mm	[in.]
WGC-125-ISO	4500	[1012]	15°	3.10	[6.8]	109.0	[4.290]	144.0	[5.670]
WGC-160-ISO	9150	[2057]	15°	6.45	[14.2]	133.0	[5.236]	198.0	[7.795]

*p=6 bar [87 psi]

GRIPPERS



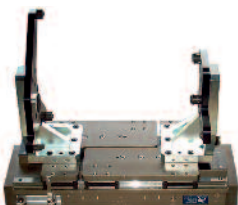
2-Jaw-Parallel Gripper — RP Series

Model	Grip Force*		Stroke		Weight		Height		Width		Length	
	N	[lbs.]	mm	[in.]	kg	[lbs.]	mm	[in.]	mm	[in.]	mm	[in.]
RP-5	156	[35]	4.1	[0.16]	0.08	[0.18]	36.5	[1.437]	25.4	[1.000]	28.6	[1.125]
RP-10	178	[40]	6.4	[0.25]	0.12	[0.26]	37.3	[1.470]	31.7	[1.250]	38.1	[1.500]
RP-12	178	[40]	9.5	[0.38]	0.25	[0.56]	35.6	[1.402]	38.1	[1.500]	50.8	[2.000]
RP-15	310	[70]	12.7	[0.50]	0.57	[1.25]	47.3	[1.864]	41.3	[1.625]	70.4	[2.771]
RP-17	979	[220]	19.1	[0.75]	1.00	[2.2]	61.9	[2.438]	54.0	[2.125]	89.6	[3.529]



2-Jaw-Precision Parallel Gripper — RP Series

Model	Grip Force*		Stroke		Weight		Height		Width		Length	
	N	[lbs.]	mm	[in.]	kg	[lbs.]	mm	[in.]	mm	[in.]	mm	[in.]
RP-50	90	[20]	12.7	[0.50]	0.14	[0.31]	59.4	[2.34]	25.4	[1.00]	69.8	[2.75]
RP-100	140	[31]	25.4	[1.00]	0.196	[0.43]	59.4	[2.34]	25.4	[1.00]	85.7	[3.37]
RP-25	245	[55]	28.5	[1.12]	0.453	[1.00]	81.0	[3.19]	31.7	[1.25]	789.4	[3.13]
RP-35	720	[162]	25.4	[1.00]	1.59	[3.50]	103.2	[4.06]	50.8	[2.00]	117.5	[4.63]
RP-40	850	[191]	50.6	[1.99]	2.72	[5.98]	125.4	[4.94]	57.1	[2.25]	127.2	[5.01]
RP-43	1750	[393]	6.2	[0.24]	7.24	[15.93]	175.0	[6.89]	74.7	[2.94]	215.9	[8.50]



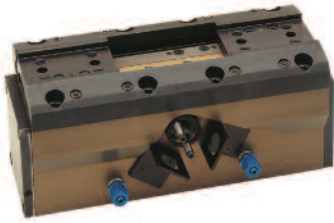
2-Jaw-Parallel Gripper — LPG Series

Model	Grip Force*		Stroke		Weight		Height		Width		Length	
	N	[lbs.]	mm	[in.]	kg	[lbs.]	mm	[in.]	mm	[in.]	mm	[in.]
LPG-160	5950	[1338]	160.0	[6.30]	53.00	[116.8]	140.0	[5.512]	270.0	[10.630]	604.0	[23.780]

Built-in Fail-Safe Spring for internal/external Gripping (optional)

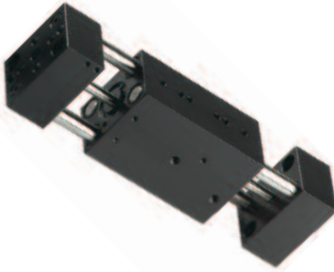
*p=6 bar [87 psi]

GRIPPERS



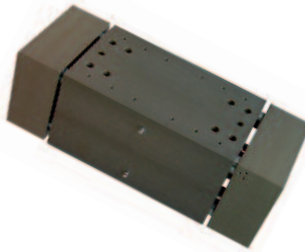
2-Jaw-Parallel Gripper — RPG Series

Model	Grip Force*		Stroke		Weight		Height		Width		Length	
	N	[lbs.]	mm	[in.]	kg	[lbs.]	mm	[in.]	mm	[in.]	mm	[in.]
RPG-80-P	1000	[225]	80.0	[3.15]	8.50	[18.7]	103.0	[4.055]	95.0	[3.740]	237.0	[9.330]
RPG-120-P	1000	[225]	120.0	[4.72]	9.00	[19.8]	103.0	[4.055]	95.0	[3.740]	312.0	[12.283]



2-Jaw-Parallel Gripper — RPW Series

Model	Grip Force*		Stroke		Weight		Height		Width		Length	
	N	[lbs.]	mm	[in.]	kg	[lbs.]	mm	[in.]	mm	[in.]	mm	[in.]
RPW-250	155	[35]	19.0	[0.75]	0.30	[0.7]	31.8	[1.250]	41.3	[1.625]	73.3	[2.900]
RPW-375-1	330	[74]	25.4	[1.00]	0.59	[1.3]	38.1	[1.500]	50.8	[2.000]	95.0	[3.740]
RPW-375-2	330	[74]	50.8	[2.00]	0.91	[2.0]	38.1	[1.500]	50.8	[2.000]	136.7	[5.380]
RPW-500-1	690	[155]	38.1	[1.50]	1.60	[3.5]	57.2	[2.250]	66.7	[2.625]	132.8	[5.228]
RPW-500-2	690	[155]	63.5	[2.50]	2.00	[4.4]	57.2	[2.250]	66.7	[2.625]	170.9	[6.728]
RPW-625-1	1040	[234]	50.8	[2.00]	2.90	[6.4]	82.6	[3.250]	66.7	[2.625]	168.4	[6.630]
RPW-625-2	1040	[234]	88.9	[3.50]	3.50	[7.7]	82.6	[3.250]	66.7	[2.625]	231.9	[9.130]



2-Jaw-Parallel Gripper — IPW Series

Model	Grip Force*		Stroke		Weight		Height		Width		Length	
	N	[lbs.]	mm	[in.]	kg	[lbs.]	mm	[in.]	mm	[in.]	mm	[in.]
IPW-80	3600	[809]	80.0	[3.15]	17.50	[38.6]	150.0	[5.905]	178.0	[7.007]	314.0	[12.362]
IPW-120	4000	[889]	120.0	[4.72]	45.00	[99.2]	150.0	[5.905]	180.0	[7.087]	454.0	[17.874]
IPW-160	3600	[809]	160.0	[6.30]	45.00	[99.2]	150.0	[5.905]	180.0	[7.087]	454.0	[17.874]
IPW-200	8000	[1798]	198.0	[7.80]	70.00	[154.3]	175.0	[6.890]	205.0	[8.070]	694.0	[27.323]



3-Jaw-Parallel Gripper — RPC Series

Model	Grip Force*		Stroke		Weight		Height		Width	
	N	[lbs.]	mm	[in.]	kg	[lbs.]	mm	[in.]	mm	[in.]
RPC-320-I	1332	[299]	10	[0.39]	0.95	[2.09]	68.85	[2.71]	50.8	[2.00]
RPC-344-I	3996	[898]	22	[0.87]	3.4	[7.48]	112.3	[4.42]	82.6	[3.25]
RPC-368-I	10656	[2395]	34.9	[1.37]	9.7	[21.34]	163.8	[4.25]	107.95	[4.25]
RPC-468-I	10800	[2427]	40	[1.57]	45	[99.00]	276	[10.87]	273	[10.75]

*p=6 bar [87 psi]

TOOL CHANGER

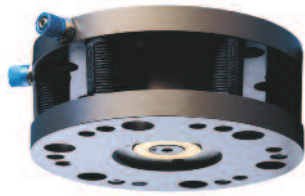


Tool Changer — TK Series

Model	Payload		Weight		Height		Diameter		Fz max*		Fx max*	
	kg	[lbs.]	kg	[lbs.]	mm	[in.]	mm	[in.]	N	[lbs.]	Nm	[in.-lbs.]
TK-40	3	[6.6]	0.28	[0.6]	38.0	[1.496]	60.0	[2.362]	900	[202]	29	[257]
TK-50	12	[26.5]	0.77	[1.7]	56.0	[2.205]	85.0	[3.346]	3340	[750]	136	[1204]
TK-63	30	[66.1]	1.68	[3.7]	65.0	[2.560]	110.0	[4.330]	4600	[1034]	740	[6550]
TK-80	60	[132.3]	3.06	[6.7]	76.0	[2.992]	140.0	[5.512]	8900	[2000]	1000	[8850]
TK-125	150	[330.7]	6.10	[13.4]	115.0	[4.528]	158.0	[6.220]	30000	[6744]	2000	[17702]
TK-160	250	[551.2]	9.45	[20.8]	115.0	[4.528]	200.0	[7.874]	35500	[7980]	2000	[17702]
TK-160-SW	300	[661.4]	21.00	[46.3]	14.0	[.550]	380.0	[14.960]	10000	[2248]	2825	[25005]
TK-300-AL	450	[992.1]	21.50	[47.4]	110.0	[4.330]	290.0	[11.417]	106500	[23942]	2000	[17702]
TK-300-ST	800	[1763.7]	42.50	[93.7]	110.0	[4.330]	290.0	[11.417]	106500	[23942]	2000	[17702]

*p=6 bar [87 psi]

FUNCTIONAL MODULES



Compliance Wrist — FM Series

Model	Payload		Misalignment Compatability X/Y		Weight		Height		Diameter	
	kg	[lbs.]	-mm	[-in.]	kg	[lbs.]	mm	[in.]	mm	[in.]
FM-50	1.1	[2.4]	3.0	[0.12]	0.15	[0.3]	40.0	[1.575]	50.0	[1.970]
FM-80	2.4	[5.3]	3.0	[0.12]	0.26	[0.6]	42.0	[1.654]	79.0	[3.110]
FM-100	3.5	[7.7]	3.0	[0.12]	0.47	[1.0]	42.0	[1.654]	99.0	[3.898]
FM-125	7.0	[15.4]	2.0	[0.08]	1.20	[2.6]	50.0	[1.970]	125.0	[4.920]
FM-160	12.0	[26.5]	2.0	[0.08]	1.85	[4.1]	50.0	[1.970]	159.0	[6.260]
FM-200	52.0	[114.6]	3.0	[0.12]	8.00	[17.6]	56.0	[2.205]	198.0	[7.795]
FM-250	90.0	[198.4]	3.0	[0.12]	9.80	[21.6]	62.0	[2.440]	248.0	[9.764]
FM-300	90.0	[198.4]	2.5	[0.10]	5.60	[12.3]	50.0	[1.970]	298.0	[11.732]



Lateral Alignment Device — KA Series

Model	Payload		Misalignment Compatability X/Y		Weight		Height		Diameter	
	kg	[lbs.]	-mm	[-in.]	kg	[lbs.]	mm	[in.]	mm	[in.]
KA-65	0.5	[1.1]	1.5	[0.06]	0.40	[0.9]	42.0	[1.654]	65.0	[2.560]
KA-80	1.0	[2.2]	2.0	[0.08]	0.55	[1.2]	42.0	[1.654]	79.0	[3.110]
KA-100	2.0	[4.4]	2.0	[0.08]	1.10	[2.4]	42.0	[1.654]	99.0	[3.898]
KA-125	5.0	[11.0]	3.0	[0.12]	2.20	[4.9]	50.0	[1.970]	125.0	[4.920]
KA-160	10.0	[22.0]	4.0	[0.16]	3.45	[7.6]	50.0	[1.970]	159.0	[6.260]
KA-200	40.0	[88.2]	12.0	[0.47]	8.40	[18.5]	65.0	[2.560]	198.0	[7.795]
KA-250	80.0	[176.4]	14.0	[0.55]	17.00	[37.5]	72.0	[2.835]	248.0	[9.803]
KA-300-light	180.0	[396.8]	25.0	[0.98]	36.00	[79.4]	96.0	[3.780]	300x300	[11.8x11.8]
KA-300	250.0	[551.2]	25.0	[0.98]	48.00	[105.8]	96.0	[3.780]	300x300	[11.8x11.8]



Z-Axis Compliance Device — ZN Series

Model	Payload		Misalignment Compatability Z		Spring Force		Pnuematic Force*		Weight	
	kg	[lbs.]	-mm	[-in.]	N	[lbs.]	N	[lbs.]	kg	[lbs.]
ZN-50	1.0	[2.2]	8.0	[0.31]	20	[4]	-	-	0.19	[0.4]
ZN-80	2.0	[4.4]	8.0	[0.31]	40	[9]	150	[34]	0.53	[1.2]
ZN-100	3.0	[6.6]	10.0	[0.39]	180	[40]	380	[85]	1.00	[2.2]
ZN-125	8.0	[17.6]	12.0	[0.47]	300	[67]	500	[112]	1.85	[4.1]
ZN-160	20.0	[44.1]	12.0	[0.47]	400	[90]	600	[135]	3.40	[7.5]
ZN-200	40.0	[88.2]	12.0	[0.47]	1000	[225]	1700	[382]	5.75	[12.7]
ZN-250	160.0	[352.7]	12.0	[0.47]	1500	[337]	1950	[438]	12.20	[26.9]
ZN-300	300.0	[661.4]	12.0	[0.47]	2000	[450]	2200	[495]	18.30	[40.3]

*p=6 bar [87 psi]

LOAD LIMITER

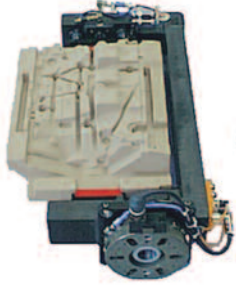


Load Limiter — ULS/ULD Series (without/with manifold)

Model	Payload		Z Deflection		X/Y Deflection	Max. Rotation	Weight	
	kg	[lbs.]	mm	[in.]			kg	[lbs.]
ULS-60	2.0	[4.4]	11.0	[0.43]	8°	360°	0.33	[.7]
ULS-80	4.0	[8.8]	11.9	[0.47]	10°	360°	0.57	[1.3]
ULS-100	8.0	[17.6]	13.6	[0.54]	12°	360°	0.83	[1.8]
ULS-125	12.0	[26.5]	11.9	[0.47]	10°	360°	1.53	[3.4]
ULS-160	20.0	[44.1]	14.5	[0.57]	7°	360°	3.65	[8.0]
ULS-160	20.0	[44.1]	15.0	[0.59]	5°	±20°	3.60	[7.9]
ULS-200	55.0	[121.3]	9.5	[0.37]	4°	360°	7.20	[15.9]
ULS-250	80.0	[176.4]	16.0	[0.63]	5°	360°	16.10	[35.5]
ULS-300	120.0	[264.6]	25.0	[0.98]	6°	360°	25.20	[56.2]

SPECIAL APPLICATIONS

Sand Core Handling



Assembly Gripper



Unload Grippers



7th Axis Robot Transport



Roller Support

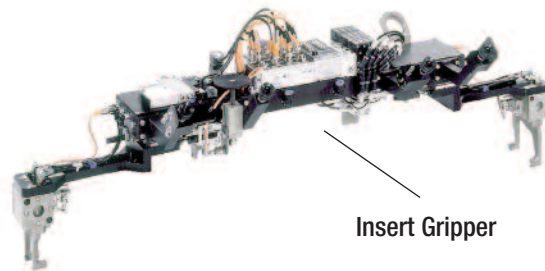


Cable Track

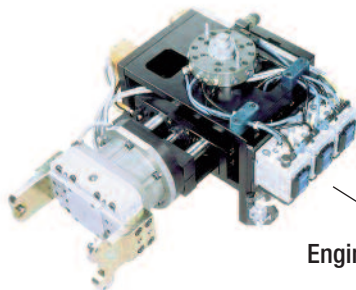
Special Grippers



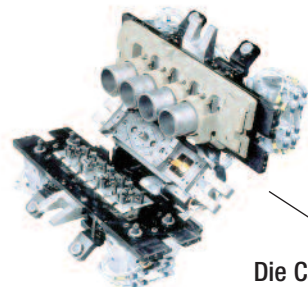
Cylinder Liner Gripper



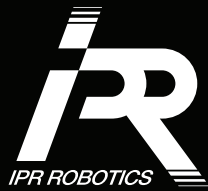
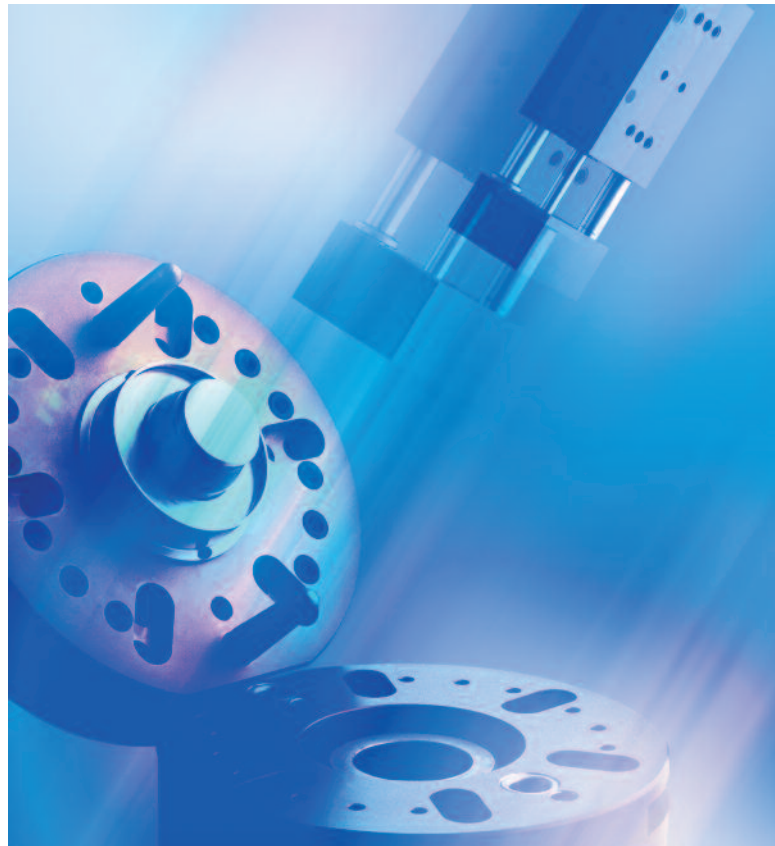
Insert Gripper



Engine Block Gripper



Die Cast Sand Core/
Cylinder-Liner Gripper



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