

Hydraulic front end chuck Ø 500 - 800 mm

- oil feed through spindle wall
- 3 jaws

HYD-S

Standard stroke
INCH serration

HYDL-S

LONG STROKE
INCH serration

HYDLL-S

EXTRA LONG STROKE
INCH serration



Application/customer benefits

- Machining of bars/shafts
- Complete spindle bore can be used

HYD-S: standard stroke INCH serration 3/32" x 90°

HYDL-S: long stroke INCH serration 3/32" x 90°

HYDLL-S: extra long stroke INCH serration 3/32" x 90° (only diameter 550 and 630)

Technical features

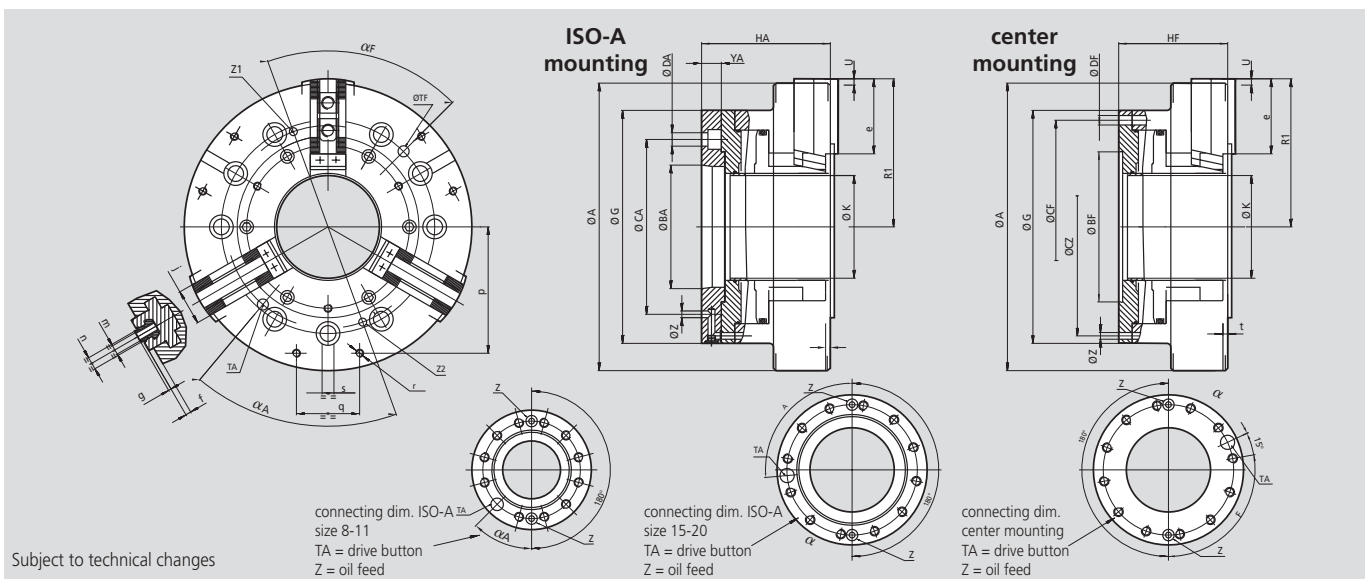
- Power chuck with big through hole, wedge hook design
- Built in cylinder with safty valves
- Chuck body case hardened
- Special mounting dimensions on request

Standard equipment

- 3 jaw chuck
- 1 set T-nuts with bolts
- 1 set of top jaws
- Mounting bolts
- Grease gun

Ordering example

- 3 jaw chuck HYDL-S 500 A11
- 3 jaw chuck HYDLL-S 630 A15



Technical data

SMW-AUTOBLOK Type		HYD-S 400	HYD-S 500	HYDL-S 500	HYDL-S 550	HYDL-S 630	HYDL-S 800	HYDLL-S 550	HYDLL-S 630
Radial jaw stroke	mm	5.5	7.5	11	11.5	13.5	13.5	16	19.5
Max. pressure	bar	25	25	30	25	20	25	30	25
Max. gripping force	kN	210	180	150	200	250	250	150	190
Max. speed	r.p.m.	2500	1600	1600	1400	1300	1000	1400	1300
Moment of inertia	kg·m ²	1.9	5.1	5.1	9	16	48	9	16
Mass (without top jaws)	kg	105	160	160	220	310	580	220	310

Dimensions type HYDL-S

Type	A	G	K	R ₁ open	U stroke	e	f	g	j	m	n	Z
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
HYDL-S 400	400	335	130	202	5.5	116	5	3.5	62	M20	25.5	10
HYDL-S 500	500	400	180	256	11	116	9	3.5	62	M20	25.5	10
HYDL-S 550	550	480	232	283	11.5	116	9	3.5	62	M20	25.5	10
HYDL-S 630	630	540	260	323	13.5	140	9	3.5	62	M20	25.5	10
HYDL-S 800	800	540	250	405	13.5	165	9	3.5	75	M20	25.5	12

HYD-S + HYDLL-S

Type	R ₁ open	U stroke
	mm	mm
HYD-S 500	254	7.5
HYDLL-S 550	286	16
HYDLL-S 630	327	19.5

Dimensions of chucks with center mounting

All types Size	B _F H6	C _F	C _Z	D _F	H _F	Y _F	T _F	α _F
	mm	mm	mm	mm	mm	mm	mm	deg.
Ø 400	200	280	235	17	190	5	20	65°
Ø 500	300	350	330.2	17	185	6	20	65°
Ø 550	380	420	430	21	198	6	24	65°
Ø 630	380	463.6	463.6	27	210	6	24	65°
Ø 800	380	463.6	463.6	27	220	6	24	65°

Dimensions of chucks with ISO-A mounting

All types Size	B _A J4	C _A	D _A	H _A	α _A	Z _A
	mm	mm	mm	mm	deg.	mm
Ø 400 A8	139.719	171.4	17	220	45°	10
Ø 400 A11	196.869	235	21	220	45°	10
Ø 500 A11	196.869	235	21	220	45°	10
Ø A15	285.775	330.2	25	225	85°	12
Ø A15	285.775	330.2	25	235	85°	12
Ø 630 A15	285.775	330.2	25	250	85°	12
Ø 630 A20	412.775	463.6	27	230	85°	12
Ø 800 A20	412.775	463.6	27	240	85°	12