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GRABS





CRABS

ACCESSORIES FOR MINING AND CONSTRUCTION MACHINERY



ABOUT THE COMPANY

Since its foundation in 1994, DAVON s.r.o. has always been a privately owned Czech company that focuses on the development of its own specialised products for the building and mining industries. First a comprehensive range of hydraulic grabs was developed, followed by a wide range of stationary rockbreaker boom systems, which have gone on to constitute the company's main export today. A comprehensive line of buckets for excavators and loaders was created later. Several single-purpose construction machines were also built according to particular customer requirements. State-of-the-art hardware and software is used for the development of our products. A standardised information system is used for the management of the whole company, from pre-production to dispatch and subsequent warranty and post-warranty servicing.

CERTIFIED PRODUCTION

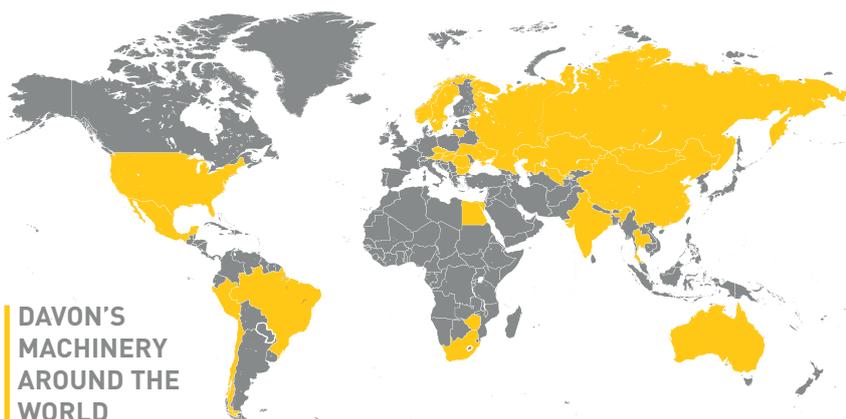
The company deployed a comprehensive quality management system per the ČSN EN ISO 9001 standard in 2003, gaining certification the following year. The company gained the ČSN EN ISO 3834-2 welding certification in 2012. DAVON also implements management systems compliant with the ČSN EN ISO 14001 environmental management, ČSN OHSAS 18001 occupational health and safety management and ČSN ISO 50001 energy management standards.

All with the objective of meeting the ever-growing demands of our customers and to supply quality, reliable and safe products characterised by a combination of excellent performance and ease of operation.



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**DAVON'S
MACHINERY
AROUND THE
WORLD**

COMPANY BRANDS



RK ROCKBREAKER BOOM SYSTEM

For crushing lines in quarries.



GRABS

Grabs in a broad variety of types, variants and sizes.



BUCKETS

Production and sales of all types of buckets for nearly all types of construction machinery.



SPECIAL CONSTRUCTION MACHINERY

One-off and custom special construction and mining machinery.



COOPERATION

Custom-designed machinery produced to meet specific customer needs.

DAVON

DAVON s.r.o. | Šumperská 1353
783 91 Uničov | Czech Republic





ERABS



DAVON

GRABS

NON-ROTATING RIGID MOUNTS AVAILABLE UPON REQUEST (LOWER WEIGHT), ALONG WITH TOOTHLESS JAWS, REPLACEABLE POLYP TIPS, OPTION TO MOUNT ON A SWINGING BRAKE AND A COVER TO PREVENT DAMAGE TO THE GRAB.

- QUALITY STEEL GRAB CARRIER, JAWS AND POLYPS; HARDOX 500 TIPS, TEETH AND BLADES
- FOR CONTINUOUS OPERATION
- ROBUST DESIGN. HIGH DURABILITY
- UNLIMITED GRAB ROTATION THANKS TO THE ROTATOR
- SAFETY ELEMENTS BUILT INTO THE HYDRAULIC LINES AND HYDRAULIC CYLINDERS
- MODEL FOR ARCTIC CONDITIONS AT TEMPERATURES DOWN TO -43°C
- GRAB MOUNTING USING A QUICK CONNECTOR OR YOUR MACHINE
- EASILY LUBRICATED PINS AND BUSHINGS FOR LONG GRAB DURABILITY
- WARRANTY AND POST-WARRANTY GRAB REPAIRS
- RADIO CONTROL AVAILABLE FOR MOTORISED GRABS.

HCD, HCDK, HCU CLAMSHELL GRABS

Models:

HCD 10 | HCD 11 | HCD 12 | HCD 13 | HCD 14 | HCD 17 | HCD 18
HCD 20 | HCDK 13 | HCDK 17 | HCU 15



Standard grabs for hydraulic excavators. Well-proven equipment for the excavation and handling of loose or settled materials (earth, gravel, sand, etc.) Each size series contains the basic parts of the grab with quickly replaceable jaws of various shapes and volumes. Optional delivery with hydraulic or mechanical rotation, fixed mount, teeth, swinging brakes, adapter extensions and more. The fully developed line of clamshell grabs covers a range of loads from 5 to 40 tonnes with grab weights of 4 to 10 tonnes.



HPD ORANGE PEEL GRABS

Models:

HPD 05 | HPD 07 | HPD 08



Its robust design makes it suitable for handling rough scrap metal and for the harsh conditions in scrap yards, waste sites, or in quarries. The independently driven separate jaws and high-quality hydraulic rotator ensure that a load of any shape may be grabbed. Possibility to supply with hydraulic forced swivelling (standard), with mechanical swivelling or with a fixed hinge for the grab.

Newly developed hydraulic cylinders specifically for grab operations are used. Grabs may be covered with various kinds of enclosures depending on the application. Open, half-closed or closed jaw designs may be used depending on the type of material that is handled. The fully developed line of DAVON orange peel grabs covers a range of loads from 5 to 45 tonnes with grab weights of 4 to 10 tonnes.



HDS LOG GRABS

Models:

HDS 03 | HDS 04 | HDK 01

When using these types of grabs, the efficiency of wood handling operations in wood processing plants substantially increases. The excavator operator may reload, sort and load any type of timber without the necessity of support from any additional machinery. Possibility to supply with hydraulic forced swivelling (standard), with mechanical swivelling or with a fixed hinge for the grab.

Depending on the application, grabs may be protected by various types of enclosures and a swinging brake may be integrated into the hinge. The fully developed line of DAVON clamshell grabs covers a range of loads from 10 to 30 tonnes with grab weights of 4 to 5 tonnes.

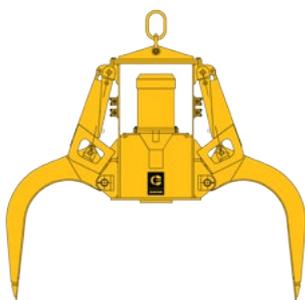


MCD MOTORISED CLAMSHELL GRABS

Models:

MCD

The MCD motorised hydraulic clamshell grab is a universal implement for loose materials. It is specifically intended for use on crane slings or on similar lifting equipment. It is composed of a carrier, a suspended hydraulic drive unit inside the carrier (easily removed) and the jaws themselves. The design of the clamshell grab permits the use of several jaw sizes or a log grab on the same carrier.



MPD MOTORISED ORANGE PEEL GRABS

Models:

MPD

The MPD motorised hydraulic orange peel grab is a universal implement for general handling of materials. The jaw design ensures any shape can be gripped (from bulk materials to large pieces). The jaws are configured in open, half-closed or closed designs. It is specifically intended for use on gantry crane slings or on similar lifting equipment. It is composed of a carrier, a self-contained suspended hydraulic drive unit inside the carrier (easily removed) and the jaws themselves.



MDD MOTORISED LOG GRAB

Models:

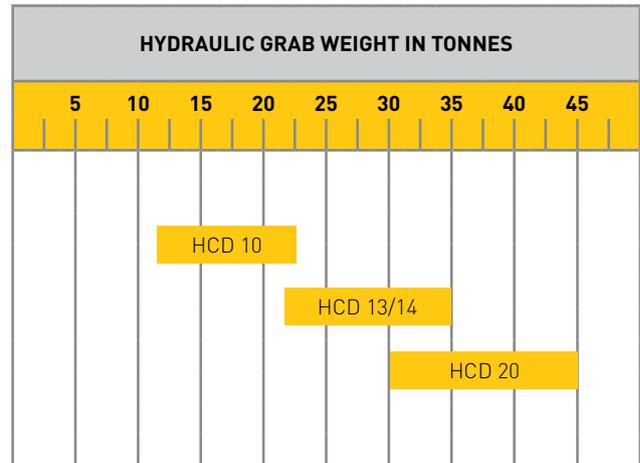
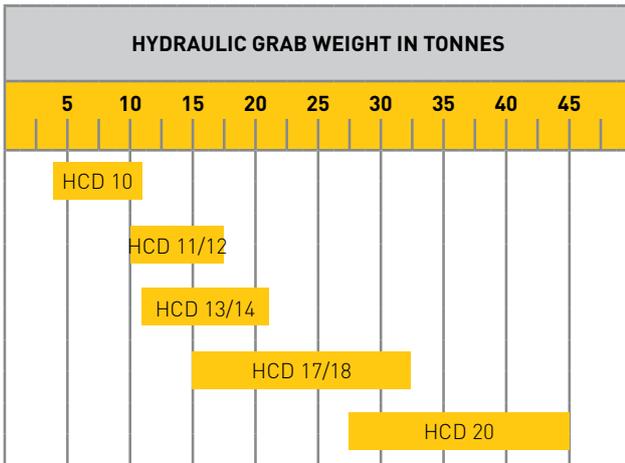
MDD

The MDD motorised log grab is a universal log loading implement. It is specifically designed for transferring individual or bundles of logs, both softwood and hardwood species.

HCD CLAMSHELL GRAB



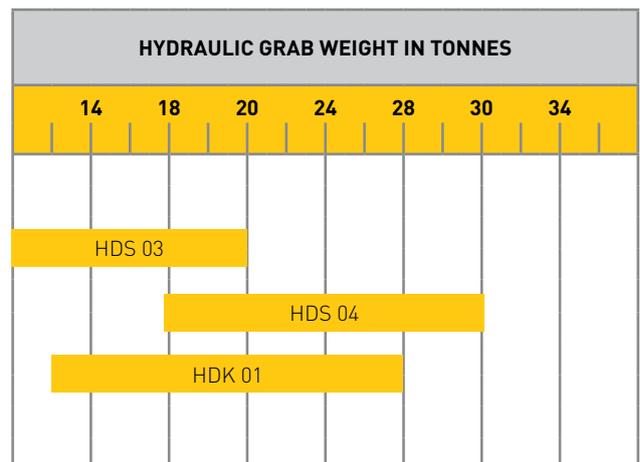
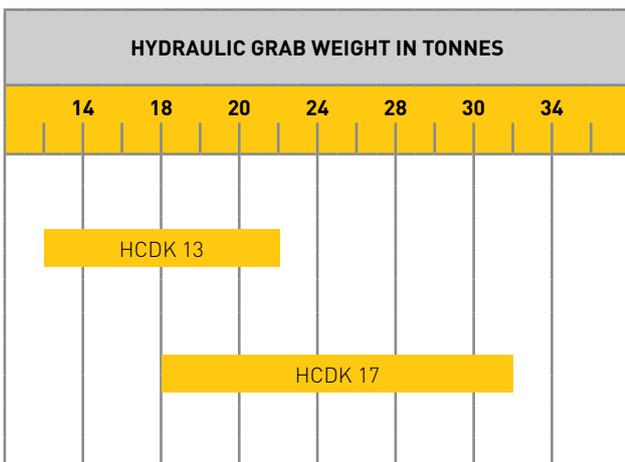
HPD ORANGE PEEL GRAB

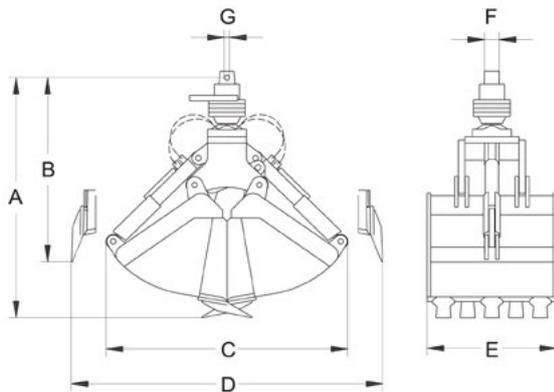


HCDK GRAB WITH CURVED JAWS



KDS/HDK CLAMSHELL LOG GRAB





MODEL DESCRIPTION

The hydraulic clamshell grab with rectangular jaws has an integrated carrier. The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 160 bar)
- HARDOX 400 blades
- replaceable threaded teeth made from the highest quality materials
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods

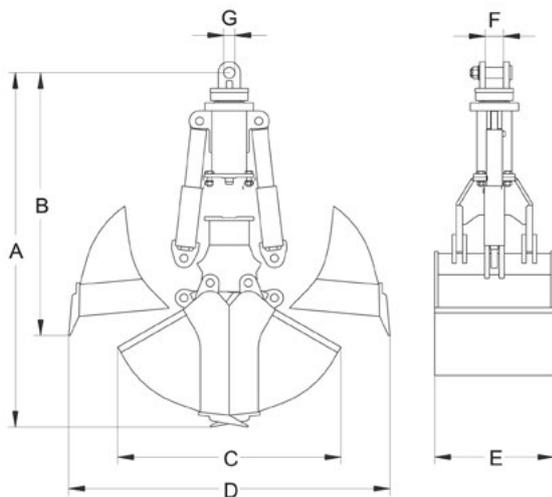
CUSTOM OPTIONS

- fixed mount (not rotating) (20 kg lighter)
- jaw configuration without teeth, or using HARDOX 500 blades
- option to mount on a swinging brake
- mechanical ejector/scrapper
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

Recommended carrier rating	4.0 – 12.0	[t]
Maximum load capacity	3.0	[t]
Maximum density	2.6	[t/m ³]
Maximum working pressure	220	[bar]

Implement model	Volume [dm ³]	Weight [kg]	Number of teeth	Dimensions [mm]						
				A	B	C	D	E	F	G
HCD 10 - 350	115	260	3	1 122	860	1 140	1 443	350	69	25
HCD 10 - 400	130	270	3	1 122	860	1 140	1 443	400	69	25
HCD 10 - 450	150	290	5	1 122	860	1 140	1 443	450	69	25
HCD 10 - 500	170	300	5	1 122	860	1 140	1 443	500	69	25
HCD 10 - 600	210	337	5	1 122	860	1 140	1 443	600	69	25

Weights in the table are inclusive of the hydraulic rotator and connecting pin.



MODEL DESCRIPTION

Hydraulic clamshell grab with rectangular jaws with a screwed split carrier. This configuration permits the use of various jaw models with different capacities while using a single grab carrier assembly. Combine different rectangular jaw assemblies of different capacities per this parameter sheet.

The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier. The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 blades
- replaceable threaded teeth made from the highest quality materials
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods

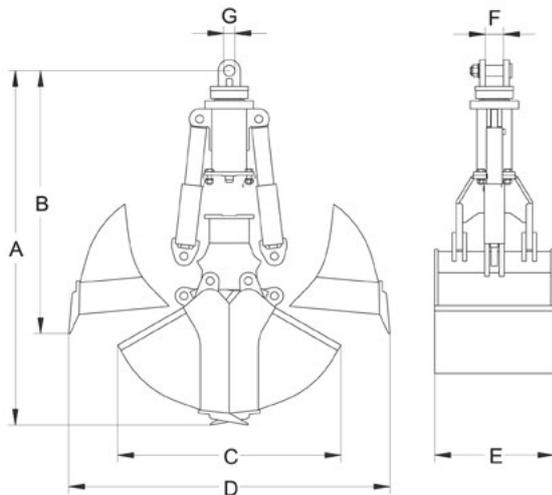
CUSTOM OPTIONS

- fixed mount (not rotating) (62 kg lighter)
- jaw configuration without teeth, or using HARDOX 500 blades
- option to mount on a swinging brake
- mechanical ejector/scrapper
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

Recommended carrier rating	10.0 – 16.0	[t]
Maximum load capacity	4.0	[t]
Maximum density	2.6	[t/m ³]
Maximum working pressure	320	[bar]

Implement model	Volume [dm ³]	Weight [kg]	Number of teeth	Dimensions [mm]						
				A	B	C	D	E	F	G
HCD 11 - 350	170	528	3	1 835	1 319	1 389	1 738	350	115	70
HCD 11 - 400	220	549	3	1 835	1 319	1 389	1 738	400	115	70
HCD 11 - 500	275	590	5	1 835	1 319	1 389	1 738	500	115	70
HCD 11 - 600	330	641	5	1 835	1 319	1 389	1 738	600	115	70
HCD 11 - 700	370	691	7	1 835	1 319	1 389	1 738	700	115	70
HCD 11 - 800	440	708	7	1 835	1 319	1 389	1 738	800	115	70
HCD 11 - 900	500	719	9	1 835	1 319	1 389	1 738	900	115	70
HCD 11 - 1100U*	800	645	0	1 835	1 319	1 389	1 738	1 100	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin. *Max. density 1.6 t/m³



MODEL DESCRIPTION

The hydraulic clamshell grab with rectangular jaws has an integrated carrier. The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 blades
- replaceable threaded teeth made from the highest quality materials
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods.

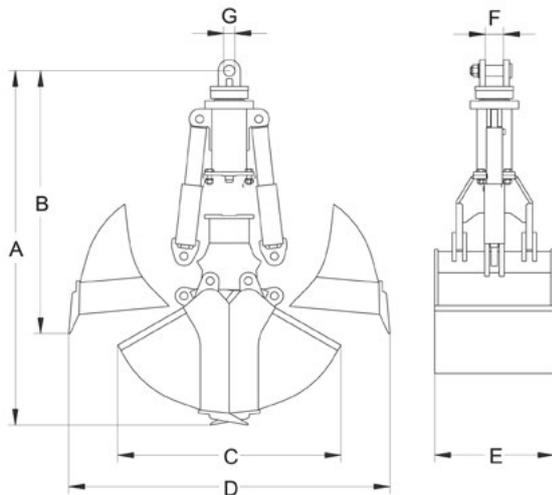
CUSTOM OPTIONS

- fixed mount (not rotating) (62 kg lighter)
- jaw configuration without teeth, or using HARDOX 500 blades
- option to mount on a swinging brake
- mechanical ejector/scrapper
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

Recommended carrier rating	10.0 – 16.0	[t]
Maximum load capacity	4.0	[t]
Maximum density	2.6	[t/m ³]
Maximum working pressure	320	[bar]

Implement model	Volume	Weight	Number of teeth	Dimensions [mm]						
	[dm ³]	[kg]		A	B	C	D	E	F	G
HCD 12 - 280	100	489	3	1 827	1 550	1 170	1 358	280	90	40
HCD 12 - 350	170	545	3	1 835	1 319	1 389	1 738	350	115	70
HCD 12 - 400	220	564	3	1 835	1 319	1 389	1 738	400	115	70
HCD 12 - 500	275	576	5	1 835	1 319	1 389	1 738	500	115	70
HCD 12 - 600	330	628	5	1 835	1 319	1 389	1 738	600	115	70
HCD 12 - 700	370	646	7	1 835	1 319	1 389	1 738	700	115	70
HCD 12 - 800	440	667	7	1 835	1 319	1 389	1 738	800	115	70
HCD 12 - 900	500	696	9	1 835	1 319	1 389	1 738	900	115	70
HCD 12 - 1100U*	800	681	0	1835	1319	1389	1738	1100	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin. *Max. density 1.6 t/m³



MODEL DESCRIPTION

Hydraulic clamshell grab with rectangular jaws with a screwed split carrier. This configuration permits the use of various jaw models with different capacities while using a single grab carrier assembly. Combine different rectangular jaw assemblies of different capacities per this parameter sheet and curved jaws from the HCDK 13 line of all widths and volumes. The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 blades
- replaceable threaded teeth made from the highest quality materials
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods

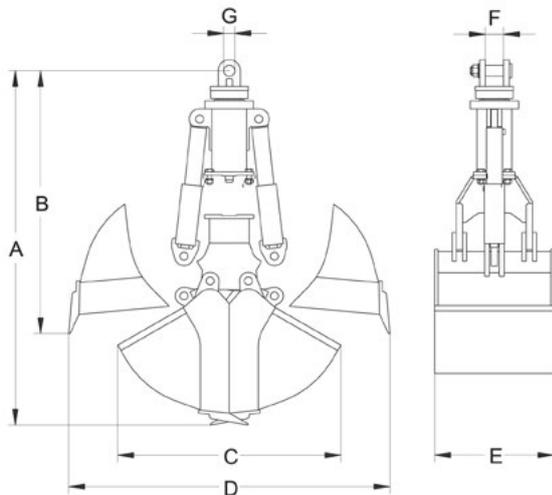
CUSTOM OPTIONS

- fixed mount (not rotating) (62 kg lighter)
- jaw configuration without teeth, or using HARDOX 500 blades
- option to mount on a swinging brake
- mechanical ejector/scrapper
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

Recommended carrier rating	12.0 – 20.0	[t]
Maximum load capacity	4.0	[t]
Maximum density	3.0	[t/m3]
Maximum working pressure	320	[bar]

Implement model	Volume [dm3]	Weight [kg]	Number of teeth	Dimensions [mm]						
				A	B	C	D	E	F	G
HCD 13 - 350	190	709	3	1 869	1 375	1 389	1 770	350	115	70
HCD 13 - 400	220	745	3	1 869	1 375	1 389	1 770	400	115	70
HCD 13 - 500	280	791	5	1 869	1 375	1 389	1 770	500	115	70
HCD 13 - 600	330	801	5	1 869	1 375	1 389	1 770	600	115	70
HCD 13 - 750	400	843	7	1 869	1 375	1 389	1 770	750	115	70
HCD 13 - 800	450	855	7	1 869	1 375	1 389	1 770	800	115	70
HCD 13 - 900	500	884	7	1 869	1 375	1 389	1 770	900	115	70
HCD 13 - 1000	600	887	9	1 869	1 375	1 389	1 770	1 000	115	70
HCD 13 - 1000U*	700	770	0	1890	1275	1470	1825	1000	115	70
HCD 13 - 1200U*	850	850	0	1950	1400	1450	1860	1200	115	70
HCD 13 - 1650R**	1500	1103	0	1979	1278	1551	2008	1650	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin. *Max. density 1.6 t/m3 **Max. density 1.2 t/m3



MODEL DESCRIPTION

The hydraulic clamshell grab with rectangular jaws has an integrated carrier. The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 blades
- replaceable threaded teeth made from the highest quality materials
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods

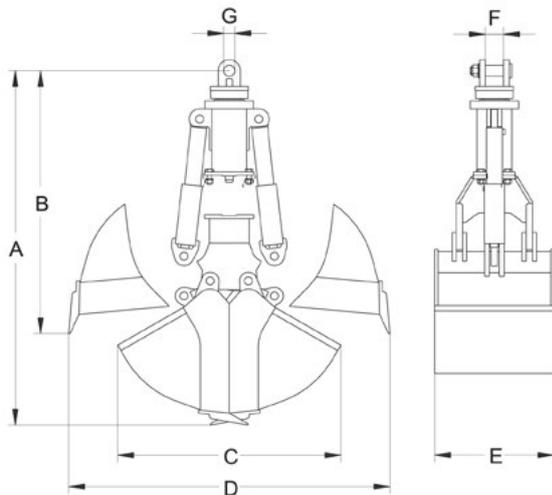
CUSTOM OPTIONS

- fixed mount (not rotating) (62 kg lighter)
- jaw configuration without teeth, or using HARDOX 500 blades
- option to mount on a swinging brake
- mechanical ejector/scrapper
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

Recommended carrier rating	12.0 – 20.0	[t]
Maximum load capacity	4.0	[t]
Maximum density	3.0	[t/m3]
Maximum working pressure	320	[bar]

Implement model	Volume	Weight	Number of teeth	Dimensions [mm]						
	[dm3]	[kg]		A	B	C	D	E	F	G
HCD 14 - 350	190	650	3	1 869	1 375	1 389	1 770	350	115	70
HCD 14 - 400	220	665	3	1 869	1 375	1 389	1 770	400	115	70
HCD 14 - 500	280	705	5	1 869	1 375	1 389	1 770	500	115	70
HCD 14 - 600	330	730	5	1 869	1 375	1 389	1 770	600	115	70
HCD 14 - 750	400	801	7	1 869	1 375	1 389	1 770	750	115	70
HCD 14 - 900	500	848	7	1 869	1 375	1 389	1 770	900	115	70
HCD 14 - 1000	600	869	9	1 869	1 375	1 389	1 770	1 000	115	70
HCD 14 - 1000U*	700	770	0	1 890	1 275	1 470	1 825	1 000	115	70
HCD 14 - 1200U*	850	957	0	1 905	1 271	1 484	1 860	1 200	115	70
HCD 14 - 1650R**	1300	1101	0	1 979	1 278	1 551	2 008	1 650	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin. *Max. density 1.6 t/m3 **Max. density 1.2 t/m3



MODEL DESCRIPTION

Hydraulic clamshell grab with rectangular jaws with a screwed split carrier. This configuration permits the use of various jaw models with different capacities while using a single grab carrier assembly. Combine different rectangular jaw assemblies of different capacities per this parameter sheet and curved jaws from the HCDK 17 line of all widths and volumes.

The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 blades
- replaceable threaded teeth made from the highest quality materials
- special storage cases
- all connecting pins are made from a special high-strength alloy
- and surface hardening
- covers over hydraulic cylinder rods

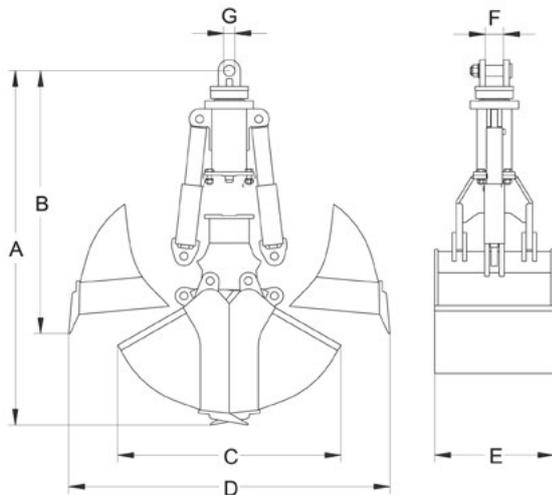
CUSTOM OPTIONS

- fixed mount (not rotating) (100 kg lighter)
- jaw configuration without teeth, or using HARDOX 500 blades
- option to mount on a swinging brake
- mechanical ejector/scrapper
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

Recommended carrier rating	20.0 – 32.0	[t]
Maximum load capacity	6.5	[t]
Maximum density	3.0	[t/m ³]
Maximum working pressure	320	[bar]

Implement model	Volume [dm ³]	Weight [kg]	Number of teeth	Dimensions [mm]						
				A	B	C	D	E	F	G
HCD 17 - 600	400	1 413	5	2 284	1 542	1 574	2 038	600	115	70
HCD 17 - 800	520	1 438	7	2 284	1 542	1 574	2 038	800	115	70
HCD 17 - 1000	660	1 460	9	2 284	1 542	1 574	2 038	1 000	115	70
HCD 17 - 1100	800	1 570	9	2 290	1 620	1 570	2 040	1 100	115	70
HCD 17 - 1300U*	1 200	1 612	0	2 390	1 630	1 785	2 245	1 300	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin. *Max. density 1.6 t/m³



MODEL DESCRIPTION

The hydraulic clamshell grab with rectangular jaws has an integrated carrier. The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 blades
- replaceable threaded teeth made from the highest quality materials
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods

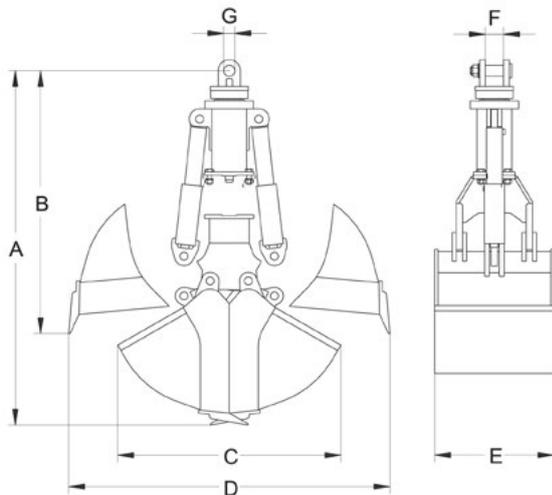
CUSTOM OPTIONS

- fixed mount (not rotating) (100 kg lighter)
- jaw configuration without teeth, or using HARDOX 500 blades
- option to mount on a swinging brake
- mechanical ejector/scrapper
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine.

Recommended carrier rating	20.0 – 32.0	[t]
Maximum load capacity	6.5	[t]
Maximum density	3.0	[t/m ³]
Maximum working pressure	320	[bar]

Implement model	Volume	Weight	Number of teeth	Dimensions [mm]						
	[dm ³]	[kg]		A	B	C	D	E	F	G
HCD 18 - 600	400	1 200	5	2 230	1 580	1 480	1 970	600	115	70
HCD 18 - 800	520	1 308	7	2 230	1 580	1 480	1 970	800	115	70
HCD 18 - 1000	660	1 386	9	2 230	1 580	1 480	1 970	1 000	115	70
HCD 18 - 1100	800	1 465	9	2 290	1 620	1 570	2 040	1 100	115	70
HCD 18 - 1250	1 100	1 628	0	2 290	1 620	1 574	2 038	1 250	115	70
HCD 18 - 1300U*	1 200	1 650	0	2 390	1 630	1 785	2 245	1 300	115	70
HCD 18 - 1400	1 300	1 681	0	2 390	1 630	1 785	2 245	1 300	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin. *Max. density 1.6 t/m³



MODEL DESCRIPTION

The hydraulic clamshell grab with rectangular jaws has an integrated carrier. The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 blades
- jaw model without teeth, reinforced scraper blades
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods

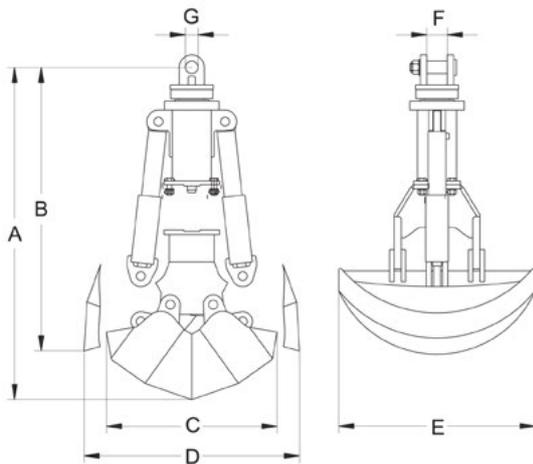
CUSTOM OPTIONS

- fixed mount (not rotating) (155 kg lighter)
- jaw configuration with replaceable grab teeth, or using HARDOX 500 blades
- option to mount on a swinging brake
- mechanical ejector/scraper
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

Recommended carrier rating	30.0 – 45.0	[t]
Maximum load capacity	10.0	[t]
Maximum density	2.6	[t/m ³]
Maximum working pressure	320	[bar]

Implement model	Volume [dm ³]	Weight [kg]	Number of teeth	Dimensions [mm]						
				A	B	C	D	E	F	G
HCD 20 - 1000	1 000	1 970	0	2 560	1 720	1 880	2 340	1 000	150	80
HCD 20 - 1200	1 250	2 060	0	2 560	1 720	1 880	2 340	1 200	150	80
HCD 20 - 1400	1 600	2 140	0	2 600	1 720	1 955	2 445	1 400	150	80
HCD 20 - 1500	2 000	2 270	0	2 715	1 750	2 115	2 645	1 500	150	80
HCD 20 - 1600*	2 500	2 420	0	2 770	1 750	2 300	2 760	1 600	150	80
HCD 20 - 1800*	3000	2560	0	2830	1780	2400	2860	1800	150	80

Weights in the table are inclusive of the hydraulic rotator and connecting pin. *Max. density 1.8 t/m³



MODEL DESCRIPTION

Hydraulic clamshell grab with curved jaws with a screwed split carrier. This configuration permits the use of various jaw models with different capacities while using a single grab carrier assembly. Combine different curved jaw assemblies of different capacities per this parameter sheet and rectangular jaws from the HCD 13 line of all widths and volumes.

The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- welded HARDOX 400 grab teeth
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods

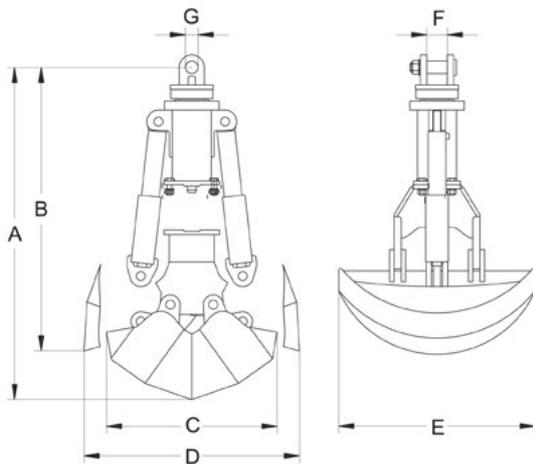
CUSTOM OPTIONS

- fixed mount (not rotating) (62 kg lighter)
- jaw configuration without teeth, or using HARDOX 500 teeth or replaceable teeth
- option to mount on a swinging brake
- mechanical ejector/scrapper
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

Recommended carrier rating	12.0 – 22.0	[t]
Maximum load capacity	4.0	[t]
Maximum density	3.0	[t/m3]
Maximum working pressure	320	[bar]

Implement model	Volume	Weight	Number of teeth	Dimensions [mm]						
	[dm3]	[kg]		A	B	C	D	E	F	G
HCDK 13 - 900	40	643	3	1487	1339	743	900	813	115	70
HCDK 13 - 950	45	655	3	1504	1337	760	950	811	115	70
HCDK 13 - 1000	70	696	5	1535	1356	808	1000	912	115	70
HCDK 13 - 1100	105	719	5	1565	1340	841	1100	1025	115	70
HCDK 13 - 1200	150	785	7	1616	1341	954	1200	1117	115	70
HCDK 13 - 1250	170	791	7	1634	1331	973	1250	1154	115	70
HCDK 13 - 1300	210	843	7	1666	1355	1011	1300	1199	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin.



MODEL DESCRIPTION

Hydraulic clamshell grab with curved jaws with a screwed split carrier. This configuration permits the use of various jaw models with different capacities while using a single grab carrier assembly. Combine different curved jaw assemblies of different capacities per this parameter sheet and rectangular jaws from the HCD 17 line of all widths and volumes.

The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 blades
- jaw model without teeth, reinforced scraper blades
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods

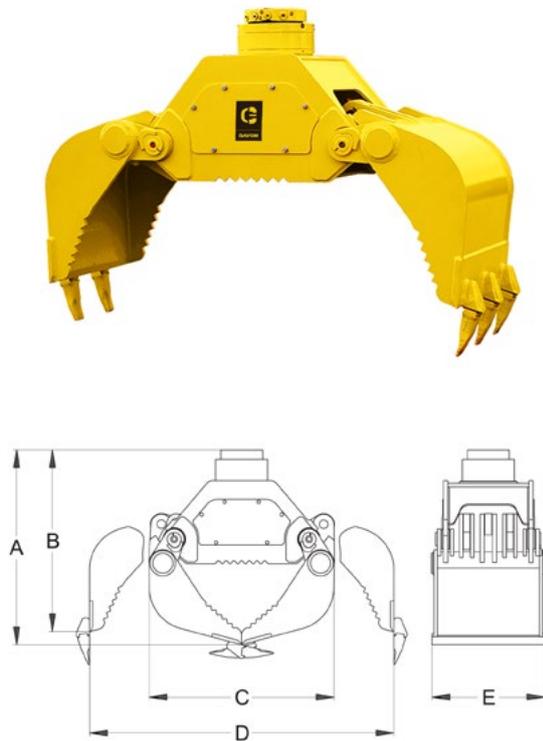
CUSTOM OPTIONS

- fixed mount (not rotating) (100 kg lighter)
- jaw configuration without teeth, or using HARDOX 500 teeth or replaceable teeth
- option to mount on a swinging brake
- mechanical ejector/scraper
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

Recommended carrier rating	18.0 – 32.0	[t]
Maximum load capacity	6.5	[t]
Maximum density	3.0	[t/m ³]
Maximum working pressure	320	[bar]

Implement model	Volume [dm ³]	Weight [kg]	Number of teeth	Dimensions [mm]						
				A	B	C	D	E	F	G
HCDK 17 - 1000	70	1100	5	2050	1870	790	1000	910	115	70
HCDK 17 - 1200	150	1220	7	2080	1900	950	1200	1110	115	70
HCDK 17 - 1400	230	1300	7	2110	1920	1010	1400	1300	115	70
HCDK 17 - 1600	380	1410	9	2140	1950	1250	1600	1500	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin.



MODEL DESCRIPTION

This universal hydraulic clamshell grab with rectangular jaws has an integrated carrier. The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 jaws and blades
- replaceable teeth made from the highest quality material (ESCO)
- special storage cases
- all connecting pins are made from a special high-strength alloy
- and surface hardening
- integrated safety valves for the rotating function

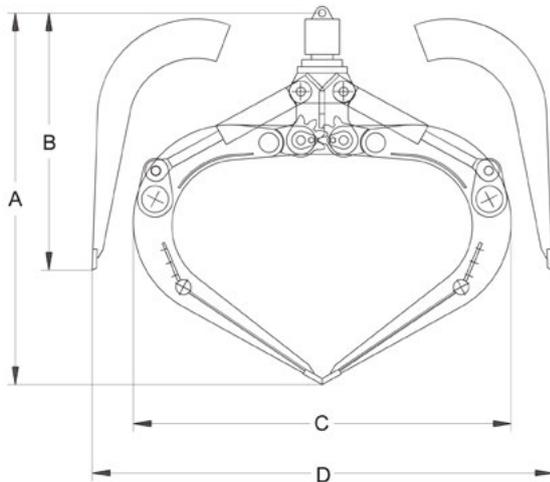
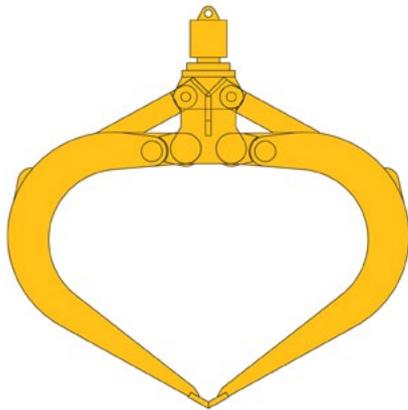
CUSTOM OPTIONS

- adapter for connecting to a specific carrier
- toothless jaw configuration
- HARDOX 500 jaws and blades
- replaceable screwed blades
- hinged mount optional
- additional hydraulic locks on the hydraulic cylinder

HCU 15 - width of the jaws	500	660	800
Weight of the carrier [t]	5-9	9-16	16-28
Max. load capacity [t]	2.5	4.5	6.5
Max. working pressure [bar]	350	350	350
Max. rotating pressure [bar]	200	200	200
Max. clamping force [kN]	35	43	70

Implement model	Volume [dm3]	Weight [kg]	Number of teeth	Dimensions [mm]				
				A	B	C	D	E
HCU 15 - 500	125	460	3	910	860	900	1400	500
HCU 15 - 660	272	844	5	1150	1070	1080	1800	660
HCU 15 - 800	467	1360	5	1320	1250	1400	2184	800

Weights in the table are inclusive of the hydraulic rotator and connecting pin.



MODEL DESCRIPTION

Hydraulic log grab in a claw design. The grab mechanism does not permit the elements to cross themselves and a two-row chain is used to provide clamping pressure when picking up smaller quantities of wood.

The basic model grab is delivered with a reliable hydraulic rotator.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 blades
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods
- two-row clamping chain

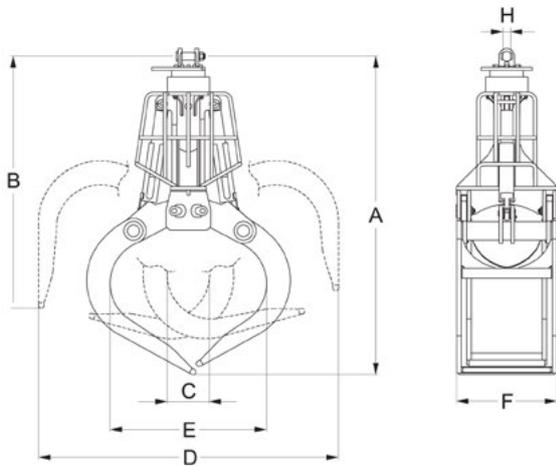
CUSTOM OPTIONS

- fixed mount (not rotating) (100 kg lighter)
- HARDOX 500 jaws with blades
- option to mount on a swinging brake
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

Recommended carrier rating	12.0 – 28.0	[t]
Maximum load capacity	8.0	[t]
Maximum working pressure	3.0	[bar]

Implement model	Capacity [m2]	Weight [kg]	Number of teeth	Dimensions [mm]						
				A	B	C	D	E	F	G
HDK 01 - 1000	1.0	1190	8.0	1700	1330	1850	1850	750	80	40
HDK 01 - 1200	1.2	1290	8.0	1850	1360	1940	2180	750	80	40
HDK 01 - 1400	1.4	1410	8.0	2040	1400	2120	2580	750	80	40

Weights in the table are inclusive of the hydraulic rotator and connecting pin.



MODEL DESCRIPTION

Hydraulic log grab in a claw design. This design allows logs to be gripped precisely along their axis. There is no need to take a full grab as the claw mechanism design permits overlapping as shown in the technical drawing at the bottom of this parameter sheet.

The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 jaws,
- HARDOX 500 blades
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods
- jaw design ensuring proper gripping along the axis

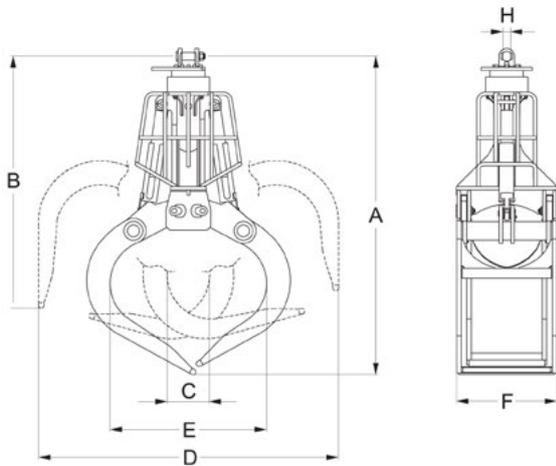
CUSTOM OPTIONS

- fixed mount (not rotating) (72 kg lighter)
- option to mount on a swinging brake
- special covers to prevent mechanical damage
- HARDOX 400 blade tip spars to protect the underlying material (wagon beds)
- delivery with universal carrier to mount to any machine

Recommended carrier rating	10.0 – 20.0	[t]
Maximum load capacity	4.0	[t]
Maximum working pressure	320	[bar]

Implement model	Capacity [m2]	Weight [kg]	Number of teeth	Dimensions [mm]							
				A	B	C	D	E	F	G	H
HDS 03 - 500	0.5	770	6.0	2 280	1 870	280	2 030	800	650	115	70
HDS 03 - 650	0.65	800	6.0	2 395	1 920	310	2 220	950	650	115	70
HDS 03 - 800	0.8	890	5.0	2 465	1 890	380	2 440	1 060	800	115	70
HDS 03 - 1000	1.0	1038	5.0	2 550	2 020	380	2 440	1 160	900	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin.



MODEL DESCRIPTION

Hydraulic log grab in a claw design. This design allows logs to be gripped precisely along their axis. There is no need to take a full grab as the claw mechanism design permits overlapping as shown in the technical drawing at the bottom of this parameter sheet.

The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the right grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 jaws and HARDOX 500 blades
- HARDOX 400 blade tip spars to protect the underlying material (wagon beds)
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods
- jaw design ensuring proper gripping along the axis

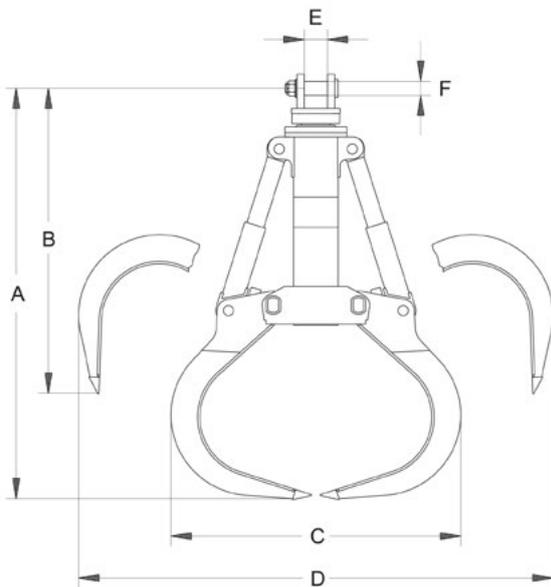
CUSTOM OPTIONS

- fixed mount (not rotating) (100 kg lighter)
- option to mount on a swinging brake
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

Recommended carrier rating	18.0 – 30.0	[t]
Maximum load capacity	5.0	[t]
Maximum working pressure	320	[bar]

Implement model	Capacity	Weight	Number of teeth	Dimensions [mm]							
	[m2]	[kg]		A	B	C	D	E	F	G	H
HDS 04 - 800	0.8	1 360	8.0	2 705	2 145	330	2 440	1 090	900	115	70
HDS 04 - 1000	1.0	1 410	8.0	2 820	2 145	370	2 700	1 275	900	115	70
HDS 04 - 1300	1.3	1 437	6.0	2 920	2 325	370	2 700	1 410	900	115	70
HDS 04 - 1500	1.5	1 695	5.0	3 065	2 545	370	2 700	1 570	900	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin.



MODEL DESCRIPTION

Hydraulic orange peel grab with open, half-closed or closed jaws. The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 tips
- the jaw design ensures any shape can be gripped (from bulk materials to large pieces)
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods

CUSTOM OPTIONS

- fixed mount (not rotating) (54 kg lighter)
- replaceable teeth made of a wear-resistant material
- option to mount on a swinging brake
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

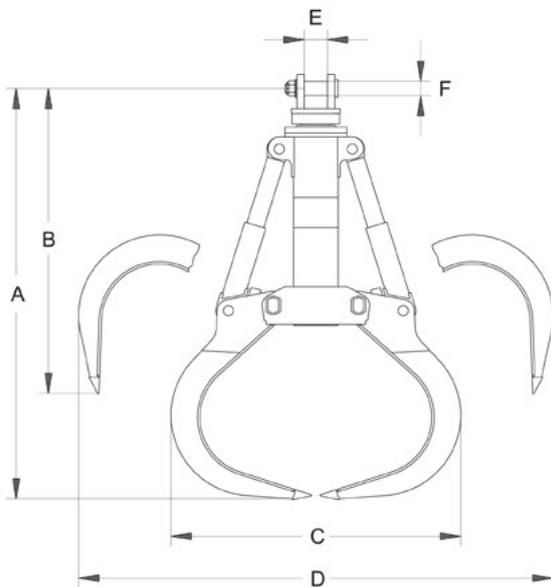
JAW SHAPE

- open (indicated by an additional "1" code)
- half-closed (indicated by an additional "2" code)
- closed (indicated by an additional "3" code)
- e.g., HPD 05 – 400.1 indicates a 400 litre grab in open configuration

Recommended carrier rating	12.0 – 24.0	[t]
Maximum load capacity	4.0	[t]
Maximum density	3.0	[t/m3]
Maximum working pressure	320	[bar]

Implement model	Volume [dm3]	Weight [kg]			Number of jaws	Dimensions [mm]					
		otevřené	polouza-vřené	uza-vřené		A	B	C	D	E	F
HPD 05 - 400	400	972	1020	1095	5	1933	1488	1328	2121	115	70
HPD 05 - 500	500	974	1055	1120	5	2004	1508	1373	2255	115	70
HPD 05 - 600	600	937	1013	1193	5	2038	1517	1428	2327	115	70
HPD 05 - 800	800	958	1253	1145	5	2170	1553	1593	2610	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin.



MODEL DESCRIPTION

Hydraulic orange peel grab with open, half-closed or closed jaws. The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 tips
- the jaw design ensures any shape can be gripped (from bulk materials to large pieces)
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods

CUSTOM OPTIONS

- fixed mount (not rotating) (100 kg lighter)
- replaceable teeth made of a wear-resistant material
- option to mount on a swinging brake
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

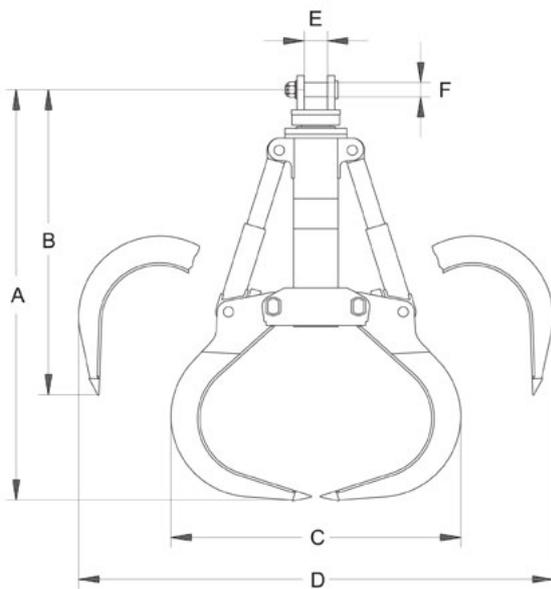
JAW SHAPE

- open (indicated by an additional "1" code)
- half-closed (indicated by an additional "2" code)
- closed (indicated by an additional "3" code)
- e.g., HPD 07 – 600.1 indicates a 600 litre grab in open configuration

Recommended carrier rating	22.0 – 35.0	[t]
Maximum load capacity	6.5	[t]
Maximum density	3.0	[t/m3]
Maximum working pressure	320	[bar]

Implement model	Volume [dm3]	Weight [kg]			Number of jaws	Dimensions [mm]					
		otevřené	polouza-vřené	uza-vřené		A	B	C	D	E	F
HPD 07 - 400	400	1440	1510	1540	5	2130	1700	1420	2360	115	70
HPD 07 - 500	500	1490	1555	1596	5	2180	1730	1470	2450	115	70
HPD 07 - 600	600	1536	1569	1642	5	2223	1763	1546	2537	115	70
HPD 07 - 800	800	1667	1725	1765	5	2430	1850	1730	2630	115	70
HPD 07 - 1000	1000	1795	1846	1880	5	2540	1930	1880	2770	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin.



MODEL DESCRIPTION

Hydraulic orange peel grab with open, half-closed or closed jaws. The basic model grab is delivered with a reliable hydraulic rotator, which is integrated into the upper part of the carrier.

The load rating of the excavator in all working directions using this implement is key in selecting the grab and carrier assembly.

STANDARD CONFIGURATION

- with 360° hydraulic rotation (max. 200 bar)
- HARDOX 400 tips
- the jaw design ensures any shape can be gripped (from bulk materials to large pieces)
- special storage cases
- all connecting pins are made from a special high-strength alloy with surface hardening
- covers over hydraulic cylinder rods

CUSTOM OPTIONS

- fixed mount (not rotating) (150 kg lighter)
- replaceable teeth made of a wear-resistant material
- option to mount on a swinging brake
- special covers to prevent mechanical damage
- delivery with universal carrier to mount to any machine

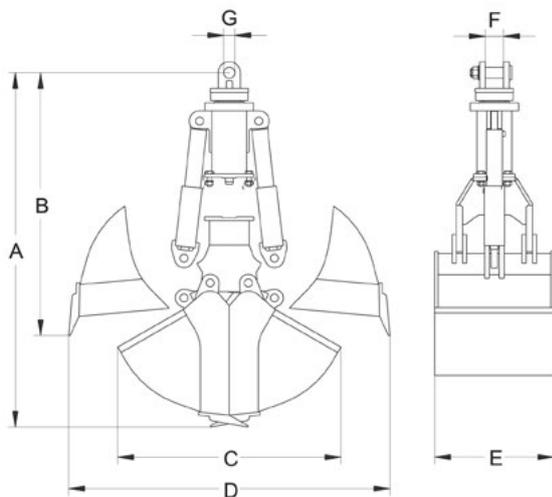
JAW SHAPE

- open (indicated by an additional "1" code)
- half-closed (indicated by an additional "2" code)
- closed (indicated by an additional "3" code)
- e.g., HPD 08 - 1250.1 indicates a 1250 litre grab in open configuration

Recommended carrier rating	30.0 – 45.0	[t]
Maximum load capacity	10.0	[t]
Maximum density	3.0	[t/m3]
Maximum working pressure	320	[bar]

Implement model	Volume [dm3]	Weight [kg]			Number of jaws	Dimensions [mm]					
		otevřené	polouza-vřené	uza-vřené		A	B	C	D	E	F
HPD 08 - 1250	1250	3080	3280	3480	5	2900	2150	2000	3200	115	70
HPD 08 - 1500	1500	3380	3580	3780	5	3050	2300	2200	3500	115	70
HPD 08 - 2000	2000	3880	4070	4280	5	3200	2450	2400	3800	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin.



MODEL DESCRIPTION

The MCD motorised hydraulic clamshell grab is a universal implement for loose materials. It is specifically intended for use on gantry crane slings or on similar lifting equipment.

It is composed of a carrier, a self-contained suspended hydraulic drive unit inside the carrier (easily removed), and the jaws themselves.

The design of the clamshell grab permits the use of several jaw sizes or a log grab on the same carrier.

STANDARD CONFIGURATION

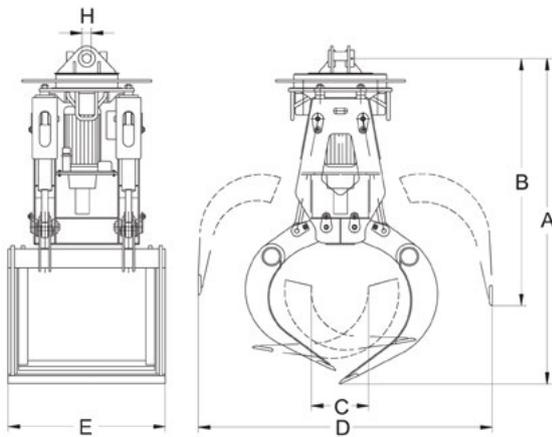
- sling mounted
- 3×230/400 V, 50 Hz electric motor
- hydraulic drive unit with the highest quality hydraulic components
- electromagnetic switchboards in 24 V, 48 V or 220 V control voltage configurations
- IP 54 rated enclosure
- covers over hydraulic cylinder rods

CUSTOM OPTIONS

- hydraulic cylinder locks, special rotating mount

Implement model	Volume	Load capacity	Weight	Power rating	Pressure	Time [s]		Dimensions [mm]				
	[m ³]	[t]	[kg]	[kW]	[bar]	oteví- vírání	zavírání	A	B	C	D	E
MCD 10 - 600	0.18	2	400	3.0	160	3.0	5.0	1 450	1 050	1 000	1 190	600
MCD 10 - 700	0.3	2	550	3.0	160	4.0	6.5	1 550	1 180	1 240	1 450	700
MCD 10 - 800	0.4	3	558	4.0	160	4.0	6.5	1 863	1 332	1 444	1 819	800
MCD 11 - 900	0.5	3	1158	7.5	180	6.2	10.2	1 863	1 332	1 444	1 819	900
MCD 11 - 1000	0.6	3	1201	7.5	180	6.2	10.2	1 863	1 332	1 444	1 819	1 000
MCD 11 - 1050	0.8	5	1277	11.0	200	6.7	11.0	1 905	1 375	1 580	1 970	1 050
MCD 11 - 1100	1.0	5	1460	11.0	200	7.8	12.8	2 054	1 523	1 444	1 819	1 100
MCD 11 - 1250	1.2	7	2527	15.0	200	7.8	12.8	2 438	1 727	1 832	2 358	1 250
MCD 11 - 1600	1.4	8.5	4407	18.5	200	7.8	12.8	2 555	1 844	1 837	2 358	1 600
MCD 11 - 1800	1.6	10	4874	30.0	200	7.8	12.8	3 193	2 345	2 198	2 817	1 800

MCD 10 – max. density 1.8 t/m³, MCD 11 – max. density 2.6 t/m³



MODEL DESCRIPTION

The MDD motorised log grab is a universal log loading implement. It is specifically designed for transferring individual and bundles of logs, both softwood and hardwood species.

STANDARD CONFIGURATION

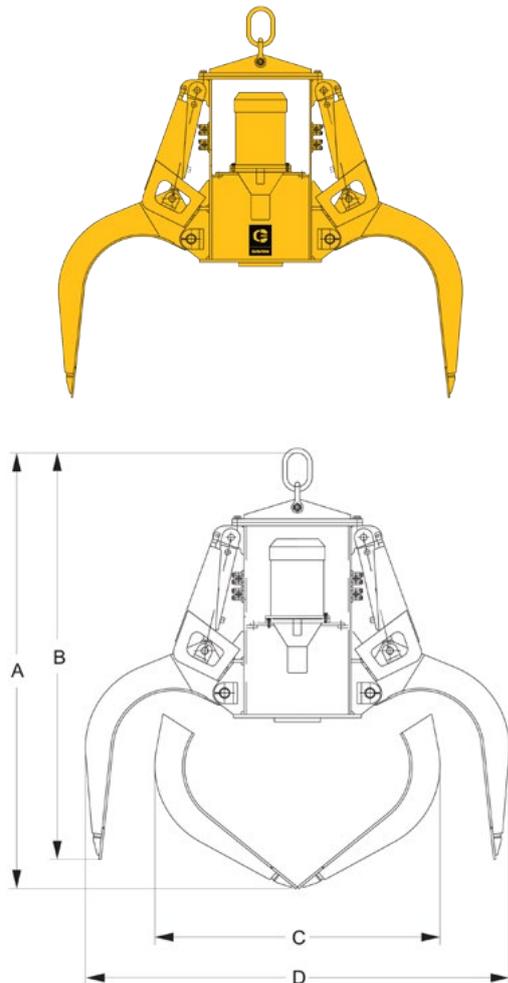
- sling mounted
- 3×230/400 V, 50 Hz electric motor
- reliable hydraulic rotation of 220° in both directions with automatic stops at limit positions
- two-circuit hydraulic drive unit with the highest quality hydraulic components
- electromagnetic switchboards in 24 V, 48 V or 220 V control voltage configurations
- IP 54 rated enclosure
- covers over hydraulic cylinder rods
- hydraulic cylinder safety locks on every cylinder

CUSTOM OPTIONS

- without hydraulic rotation, mounted directly on the crane hook

Implement model	Capacity	Load capacity	Weight	Power rating	Pressure	Time [s]		Dimensions [mm]						
	[m ²]	[t]	[kg]	[kW]	[bar]	oteví- vívání	za- vívání	A	B	C	D	E	G	H
MDD 01 - 800	0.8	6.3	2 012	11.0	200	9	13	2 883	2 110	380	2 407	1 390	115	70
MDD 02 - 1200	1.2	10.0	2 420	15.0	220	12	18	2 896	2 110	505	2 600	1 390	115	70

Weights in the table are inclusive of the hydraulic rotator and connecting pin.



MODEL DESCRIPTION

The MPD motorised hydraulic orange peel grab is a universal implement for general handling of materials.

The jaw design ensures any shape can be gripped (from bulk materials to large pieces). The jaws are configured in open, half-closed or closed designs.

It is specifically intended for use on gantry crane slings or on similar lifting equipment. It is composed of a carrier, a self-contained suspended hydraulic drive unit inside the carrier (easily removed), and the jaws themselves.

STANDARD CONFIGURATION

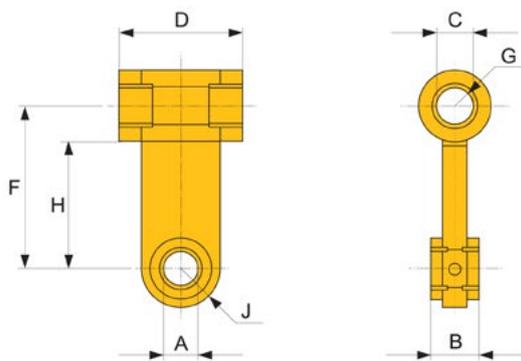
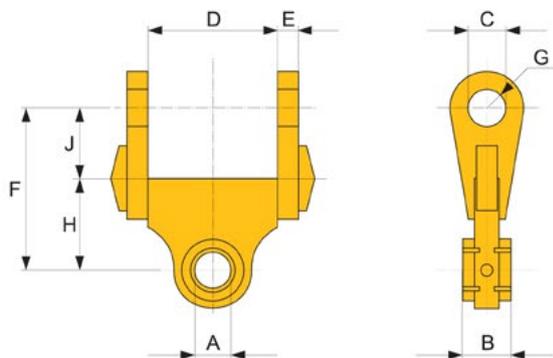
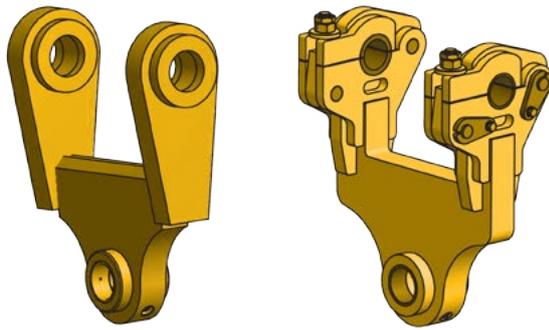
- sling mounted
- 3×230/400 V, 50 Hz electric motor
- hydraulic drive unit with the highest quality hydraulic components
- electromagnetic switchboards in 24 V, 48 V or 220 V control voltage configurations
- IP 54 rated enclosure
- covers over hydraulic cylinder rods

CUSTOM OPTIONS

- open (indicated by an additional "1" code)
- half-closed (indicated by an additional "2" code)
- closed (indicated by an additional "3" code)
- example: MPD 06-800.1

Implement model	Volume	Load capacity	Weight	Power rating	Pressure	Time [s]		Number of jaws	Dimensions [mm]			
	[m3]	[t]	[kg]	[kW]	[bar]	oteví-vírání	za-vírání		A	B	C	D
MPD 06 - 420	0.42	2.0	920/950/1041	7.5	160	7	6		1752	1608	1350	1980
MPD 06 - 630	0.63	5.0	1310/1410/1470	15	180	7	6	5	2180	1900	1530	2490
MPD 06 - 800	0.80	6.3	2420/2470/2680	22	180	11	9	6	2400	2170	1730	2660
MPD 06 - 1000	1.00	6.3	2530/2630/2840	22	180	11	9	6	2590	2250	1860	3010
MPD 06 - 1250	1.25	8.0	3520/3620/3800	30	200	13	11	6	2810	2460	1960	3290
MPD 06 - 1600	1.60	8.0	3680/3830/4080	30	200	13	11	6	2860	2470	2050	3390

Density max. 3 t/m3.



MODEL DESCRIPTION

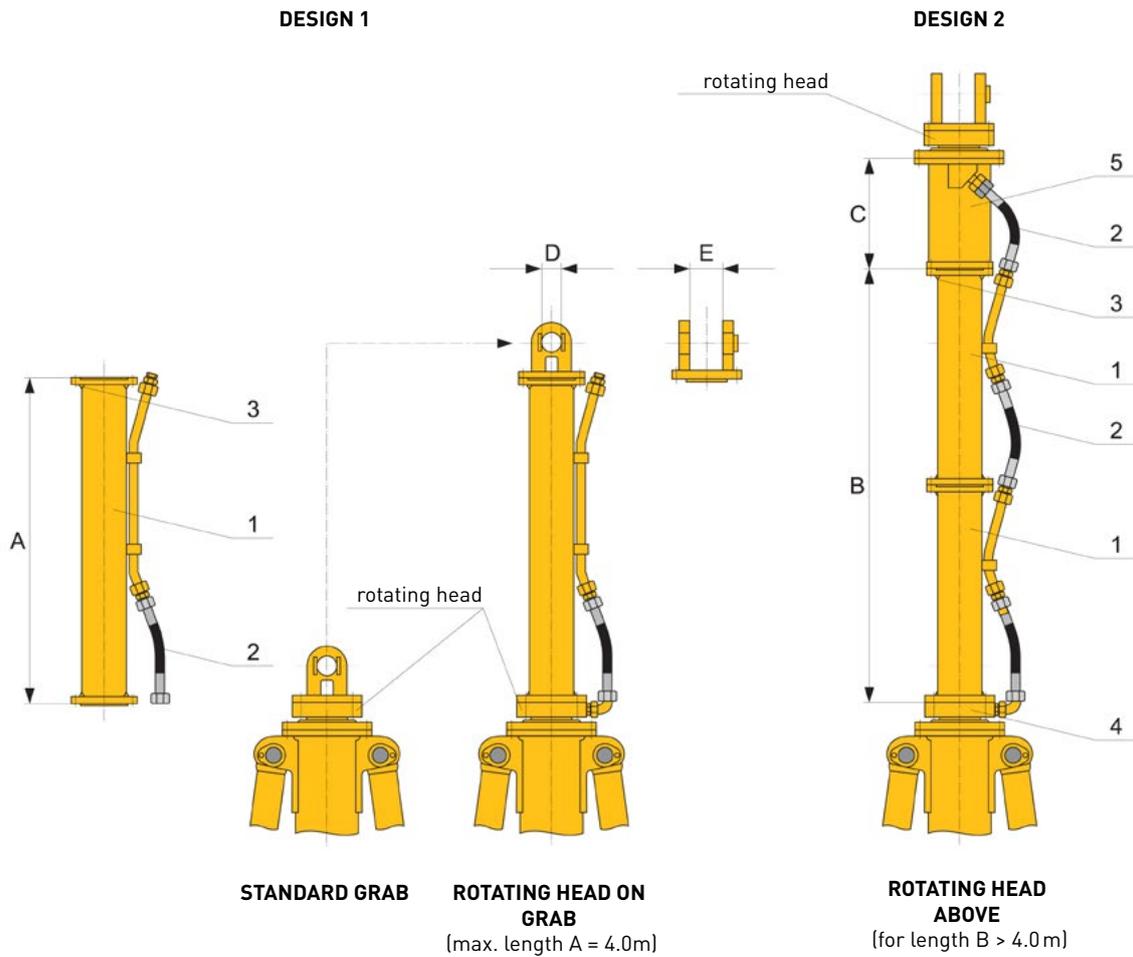
Hydraulic grab mounts are manufactured from St52 steel and the grab pin is mounted in two special sliding sleeves.

Mounts for grabs from other manufacturers may be delivered as well.

PARAMETERS

- For standard type grabs with load capacities of over 8 tonnes dimension A = 80 mm, B = 150 mm.
- Dimensions C to H depend on the specific type of excavator.
- If your excavator model is not in the database of manufacturers, please use a copy of this parameter sheet as a fax form. Select the specific type of mount based on the given type of implement, measure dimensions C to H, either at the end of the implement, or better still on the released ends of the bucket, enter them into the table and send them to the manufacturer.
- Machines in the database of manufacturers: **CAT, KOMATSU, VOLVO, ATLAS, O&K, LIEBHERR, HITACHI** and others.

Implement model	Volume [dm ³]	Weight [kg]	Dimensions [mm]							
			A	B	C	D	E	F	G	H
ZR 01	Depends on type of carrier	70	115	Depends on carrier						
ZR 02	Depends on type of carrier	70	115							



Extension model	Grab model	Dimensions A [mm]			Dimensions [mm]			
		1 000	2 000	3 000	B	C	D	E
PN 04	HCD řada 11 až 14	63 kg	115 kg	170 kg	Max. 6000	500	70	115
PN 08	HCD řada 15 až 18	110 kg	180 kg	250 kg	Max. 8000	500	70	115
PN 12	HCD řada 20	140 kg	210 kg	280 kg	Max. 8000	600	80	150

DAVON

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