



IDROBENNE®

The grab expert.



Product Catalogue

Edition n. 16

Profilo aziendale

La Idrobenne progetta, produce e commercializza accessori idraulici di presa per gru da camion ed escavatori idraulici. Presente sul mercato col proprio marchio dai primi anni '90, l'impresa oggi collabora con i più prestigiosi marchi di gru idrauliche e di escavatori, forte della sua indipendenza e dell'esperienza maturata nella propria nicchia di mercato. La Idrobenne può essere considerata un vero "Grab expert", capace di suggerire la migliore risposta alle più diverse esigenze di movimentazione.

La Sede

L'azienda è situata a Isorella, in provincia di Brescia, in un distretto industriale tra i più famosi d'Europa per la produzione metalmeccanica e siderurgica. La Idrobenne ha operato una precisa scelta di qualità e di radicamento nel tessuto produttivo italiano. Per questo non delocalizza la produzione di nessun componente. Tutte le lavorazioni sono effettuate all'interno del proprio stabilimento, al fine di avere un controllo di qualità immediato e costante.

I clienti

La Idrobenne esporta direttamente i propri prodotti in più di 40 Paesi. La missione aziendale è di fornire prodotti tecnologicamente avanzati e affidabili ad una clientela professionale. Per questo il nome Idrobenne è riconosciuto come un marchio di qualità.

I fornitori

I maggiori fornitori della Idrobenne sono selezionatissimi e legati da un rapporto di collaborazione aperto e costruttivo che dura da oltre un decennio. E' infatti innegabile che sia necessario investire nelle fonti di approvvigionamento per offrire un prodotto di alta qualità. I fornitori Idrobenne sono considerati i primi *partners* dell'azienda. I più importanti hanno sede in Italia settentrionale, in Germania e in Svezia.

Company profile

Idrobenne has been manufacturing quality hydraulic grapples for truck cranes and excavators since the early Nineties. Company's own experienced staff carries out all design, engineering, production and final testing. The Company is totally independent from any crane and excavator manufacturer. These factors have helped Idrobenne gain recognition as a leading "Grab expert" throughout the truck crane and excavator attachment industry.

The headquarters.

The Company is located in Northern Italy, near Brescia, where some of the most important European steel companies were born. To ensure highest quality standards, Idrobenne manufactures every component internally, where trained personnel monitor each process. State-of-the-art computer engineering software combines with the most advanced processing machinery for precision parts, in a clean and friendly working environment.

Customers.

Idrobenne deals directly with more than 40 Countries all over the world. Company mission is to supply good quality products to professional and demanding clients. Idrobenne cares about the reliability of its products even in the worst working conditions.

Supplier's policy.

Idrobenne believes suppliers are key partners to its production of quality and innovative products. All main suppliers have been through a long selection process, but now they work as a team with the Company and share the same mission. Some raw materials and components are imported from Germany and Sweden.



Qualità

Per ottenere un prodotto di elevata qualità, l'intero processo costruttivo deve lavorare al meglio. In altre parole, la qualità finale di un prodotto è funzione del livello di qualità di ogni singolo processo che porta al risultato finale.

I nostri punti di forza:

- Software di progettazione e disegno tridimensionale di ultima generazione, costantemente aggiornato
- Sistema di prototipazione virtuale con analisi degli stress e dei fenomeni di fatica
- Materiali di costruzione selezionati e certificati all'origine
- Componentistica di qualità superiore, di produzione esclusivamente europea
- Sistemi oleodinamici provenienti esclusivamente da fornitori certificati ISO 9001
- Personale di grande esperienza qualificato secondo gli standard professionali AWS per le lavorazioni speciali
- Moderne isole di saldatura robotizzata Kawasaki e FANUC
- Consulenti commerciali disponibili e tecnicamente preparati
- Accurato controllo dei processi
- Documentazione di prodotto completa e aggiornata
- Sistemi ed attrezzature progettati per la sostenibilità ambientale secondo ISO 14001
- Severo collaudo di tutti i prodotti prima della spedizione
- Controllo di gestione e monitoraggio continuo della soddisfazione dei clienti

ISO 9001:2000

Il sistema di qualità Idrobenne è certificato ai sensi della normativa ISO 9001:2000 per la progettazione, costruzione, commercializzazione, assistenza di polipi ed attrezzature idrauliche per escavatori e gru da camion.

Il processo industriale è quindi organizzato, condotto e controllato in ogni sua fase: dall'ideazione del prodotto alla realizzazione dei diversi componenti che lo costituiscono fino alla verifica della sua perfetta funzionalità.

Quality

It is widely acknowledged that proper quality management improves business, often having a positive effect on investment, market share, sales growth, sales margins, competitive advantage, and avoidance of litigation.

Strengths

- *State of the art, constantly updated 3D drawing software*
- *3D virtual prototype system, to simulate the reactions of new equipment to the most various working conditions*
- *Carefully selected and certified materials*
- *High quality components, all strictly made in Europe.*
- *Top quality hydraulic components, coming from certified suppliers only*
- *Highly trained workers, kept constantly updated by welding and mechanics courses, AWS certified for metal assembly and constructions*
- *State of the art robot welding facilities, by KAWASAKI and FANUC*
- *Customer oriented, very professional commercial staff*
- *Step by step process controlling*
- *Accurate product documentation and user friendly operating manuals*
- *Environmental policy (ISO 14.000 Certified)*
- *Severe product testing before shipping*
- *Constantly updated customers' satisfaction reports*

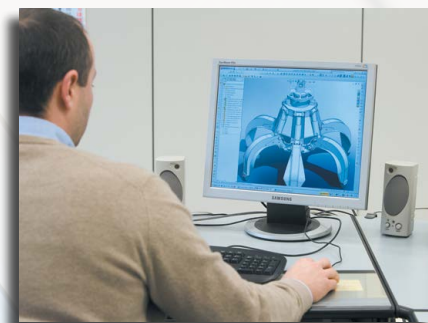
ISO 9001:2000

Idrobenne is ISO 9001:2000 certified in design, construction, commercialisation, servicing of hydraulic grabs and equipment for excavators and truck cranes.

Industrial process is organized, managed and verified at any stage: from product design, to component assembly, to the severe performance testing

Together with manufacturing process we care and constantly improve customer servicing, technical support, up to date technical documentation and immediate spare parts supply.

Our qualified workers are regularly trained to the newest welding, assembly and testing techniques. Incoming materials and components are regularly checked.



Sono inoltre attivate e costantemente migliorate le funzioni di supporto come l'assistenza al cliente, la redazione e l'aggiornamento della documentazione tecnica, la puntuale fornitura dei pezzi di ricambio.

Le maestranze qualificate partecipano regolarmente a corsi di aggiornamento sulle tecniche di saldatura, assemblaggio e collaudo, sulle lavorazioni meccaniche di precisione, sul controllo della qualità in ingresso ed in uscita dal proprio reparto. È stato avviato, strutturato e incoraggiato il sistema per il miglioramento continuo di processo e prodotto.

ISO 14001:2004

La Idrobenne, unica azienda del settore in Italia, ha ottenuto la certificazione ISO 14001:2004 per avere implementato un sistema di gestione teso a minimizzare l'impatto ambientale dei processi e dei prodotti e per avere investito cospicue risorse in favore dell'eco-sostenibilità.

Il Sole primo fornitore di energia

L'azienda, tra le prime in Italia, si è dotata di un impianto fotovoltaico da 150 Kw, integrato nell'edificio della Sede di Isorella, che contribuisce a circa la metà del fabbisogno energetico interno. Anche per questo siamo orgogliosi di affermare che le nostre attrezzature sono veramente ecologiche!

Impegno costante e concreto

L'attenzione della Idrobenne per le problematiche ambientali deriva dal settore principale di attività in cui l'azienda opera, che consiste nella raccolta differenziata di rottami e rifiuti solidi urbani. Lo sforzo della Idrobenne verso uno sviluppo sostenibile non si ferma tuttavia al dato formale, ma coinvolge la sostanza della *Company Mission*.

Certificarsi ISO 14000:2004 significa:

- Aggiornare e mantenere costantemente macchinari ed impianti in modo da diminuire l'utilizzo delle risorse naturali quali aria, acqua, energia
- Attivare uno stretto controllo sui processi potenzialmente dannosi per l'ambiente
- Ridurre al minimo indispensabile gli scarti di lavorazione, l'utilizzo di prodotti tossici e le emissioni in atmosfera, nei corpi idrici, l'inquinamento acustico
- Eliminare dal ciclo produttivo le lavorazioni fortemente inquinanti mediante l'uso di procedimenti alternativi a ridotto impatto ambientale
- Prepararsi a gestire le situazioni di pericolo ed emergenza mediante il continuo addestramento degli operatori.



Step by step process improvement is promoted and rewarded at any level.

ISO 14001

Idrobenne is the first Italian Company to achieve ISO 14000:2004 certification in its field, having set up a management system to reduce environmental impact of products and manufacturing processes and invested a relevant amount of money to reduce carbon pollution.

Solar power

The most important element confirming Idrobenne's commitment on environmental policy has been the installation of a 150 Kw solar PowerStation on the top of its headquarters in Isorella. So, nearly a half of the energy used for the production comes from the cleanest and most renewable of the power sources. This allows Idrobenne to say that its products are really environmental-oriented!

Constant commitment

Idrobenne's attention and commitment for the natural environment is part of the Company mission. In fact, orange peel grapples and sorting grabs are used in the recycling sites, where the attention for the re-use of parts and materials is essential.

ISO 14000 registration means:

- Constantly maintain machinery and production facility to reduce dissipation of natural resources as air, water, energy
- Carefully monitor potentially environment-harming processes
- Reduce to the lowest production residue, the use of toxic substances and any pollution to air, ground, water
- Eliminate from manufacturing cycle any polluting process, by adopting less-impact methods
- Train personnel to face environmental emergencies like air, ground or water pollution, fire, poisonous leakages.



Orange peel grabs

- Compact 6-7
- Heavy duty compact 8-9
- With vertical cylinders 10
- Heavy duty with vertical cylinders 11



Sorting and demolition grapples 12-13



Clamshell buckets

- With horizontal cylinders 14-17
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Pallet forks 26



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Railway equipment

- Grabs for sleepers 28
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Orange peel grapples for rocks 31

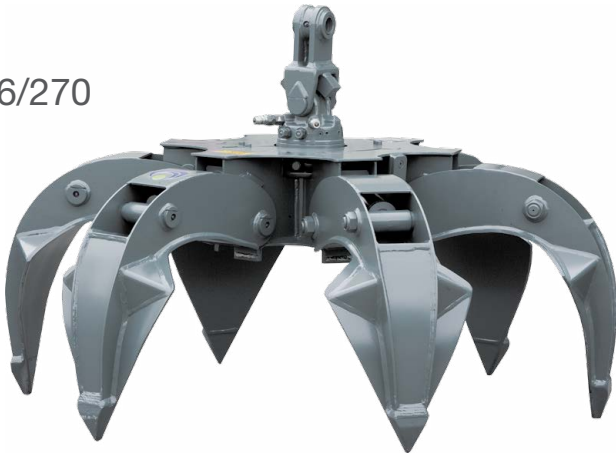


Hydraulic rotators 32

Cross-reference listing grapple / operating machine 34

Compact orange peel grab for metal scrap and loose materials.

PFO-6/270

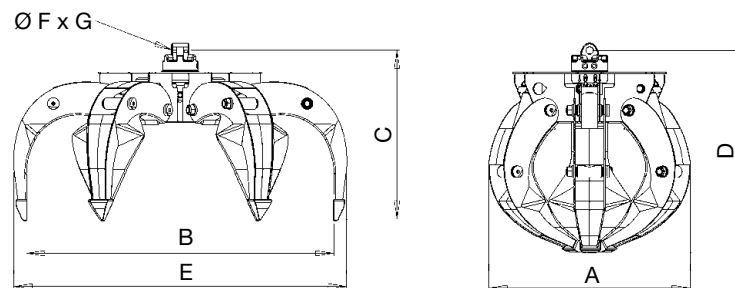


PFO-4/300



Model	Jaws n.	Cap. l.	Weight Kg.	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm	Ø F x G mm
PFO - 4/100	4	100	125	1000	220	750	1070	580	750	1200	25x30
PFO - 5/100	5	100	140	1500	220	750	1070	580	750	1200	25x30
PFO - 4/120	4	120	220	1500	220	850	1170	690	850	1350	30x60
PFO - 4/180	4	180	250	1500	220	920	1400	760	990	1570	30x60
PFO - 5/220	5	220	280	2000	220	970	1450	780	990	1600	30x60
PFO - 5/250	5	250	330	2500	220	1000	1430	750	920	1620	32x80
PFO - 6/270	6	270	400	3000	220	1020	1500	750	920	1650	32x80
PFO - 4/300	4	300	360	2500	220	1110	1600	850	1010	1750	32x80
PFO - 5/300	5	300	430	3000	220	1160	1600	850	1010	1750	32x80
PFO - 6/320	6	320	470	3000	220	1160	1720	950	1010	1870	32x80
PFO - 5/400	5	400	540	3000	220	1250	1860	870	1050	2010	35x80
PFO - 6/400	6	400	590	3000	220	1250	1860	870	1050	2010	35x80

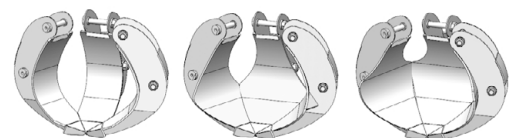
Technical Data



Accessories

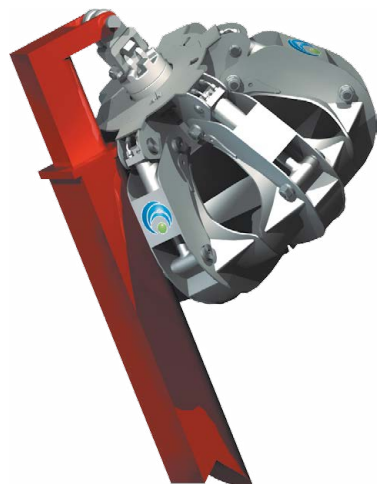
GRM 4 T	Mechanical, free 250° rotation (without hydraulic supply)
GRI 4 T/S	Hydraulic rotator from PFO 5/100 until PFO 4/180
GRI 5 T/S	Hydraulic rotator for mod. PFO 5/220
GRI 5 T/SF	Hydraulic rotator from mod. PFO 5/250 until PFO 6/320
GRI 11 T/SF	Hydraulic rotator for mod. PFO 5/400 and PFO 6/400
Top link for crane	Cardan suspension link for truck crane
Top link for excavator	Cardan suspension link for excavator
-SR	Heavy-duty, reinforced version available on demand.

3 different tine shapes available: open, semi-closed (standard), closed.



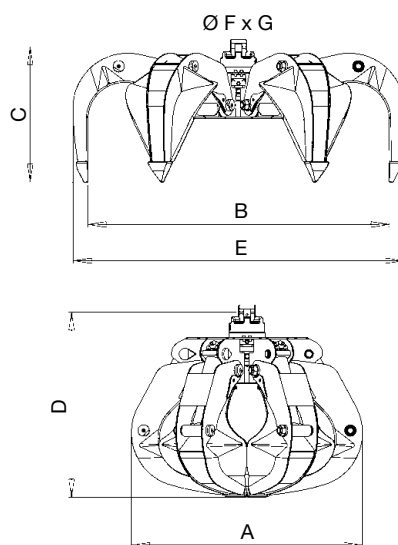
Orange peel grab for foldable truck cranes

- Compact and sturdy design, generous load capacity.
- The hydraulic circuit is perfectly protected into the structure.
- Incorporated hydraulic or mechanical rotation.
- Jaws are made of HB 400 anti-wear steel, tips are forged.



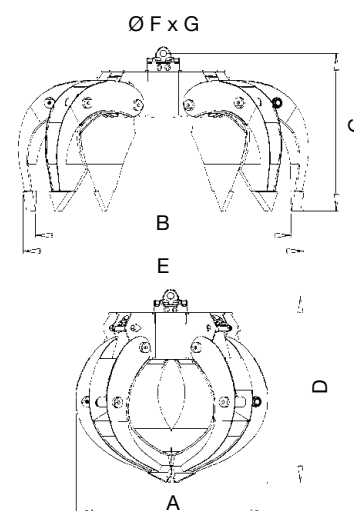
PFO-6/280

Technical Data



Model	Jaws n.	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm	Ø F x G mm
PFO - 6/250	6	250	410	3000	220	1045	1430	715	920	1570	32x80
PFO - 6/280	6	280	430	3000	220	1120	1470	680	850	1590	32x80
PFO - 6/310	6	310	450	3000	220	1200	1620	645	945	1760	32x80

PFO-6/290



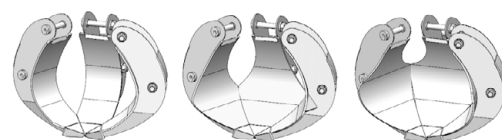
Asymmetric version for "Z" cranes:

Model	Jaws n.	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm	Ø F x G mm
PFO - 6/290	6	290	410	3000	220	1050	1500	750	920	1650	32x80

Accessories

GRM 4 T	Mechanical, free 250° rotation (without hydraulic supply)
GRI 5 T/SF	Hydraulic rotator
Top link for crane	Cardan suspension link for truck crane
-SR	Heavy-duty, reinforced version available on demand.

3 different tine shapes available: open, semi-closed (standard), closed.



Compact polyp grab for excavators up to 18 Ton

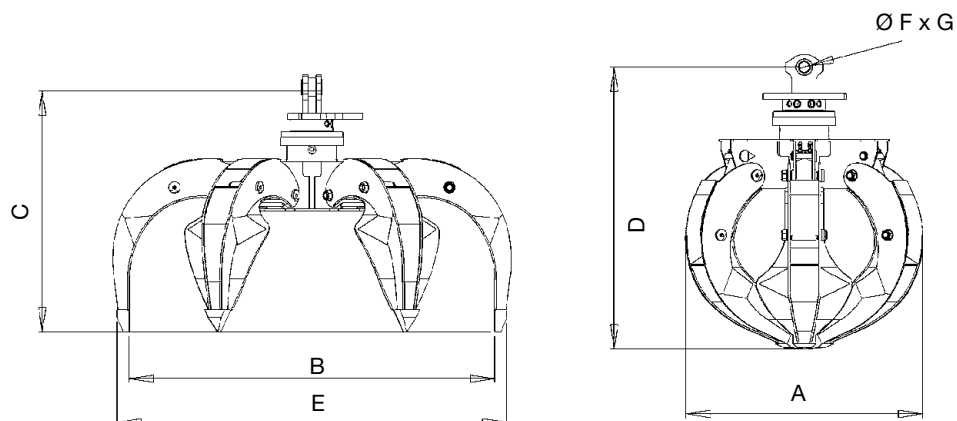
- Reduced overall dimensions to operate in confined spaces
- Jaws and tips are made of HB 400 anti-wear steel.
- Hydraulic circuit is fully protected into the structure.
- Solid tine stops protect cylinders from shock loads.

PFO-5/400 SR



Model	Jaws n.	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm	Ø F x G mm
PFO - 5/400-SR	5	400	600	3000	300	1250	1860	1150	1350	2010	50x100
PFO - 6/400-SR	6	400	650	3000	300	1250	1860	1150	1350	2010	50x100

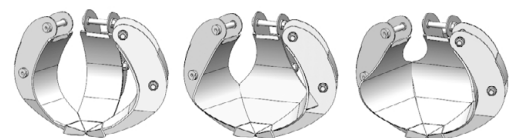
Technical Data



Accessories

GRM 6 T	Mechanical, free 250° rotation (without hydraulic supply)
GRI 10 T/P	Hydraulic rotator
Top link for excavator	Cardan suspension link for excavator

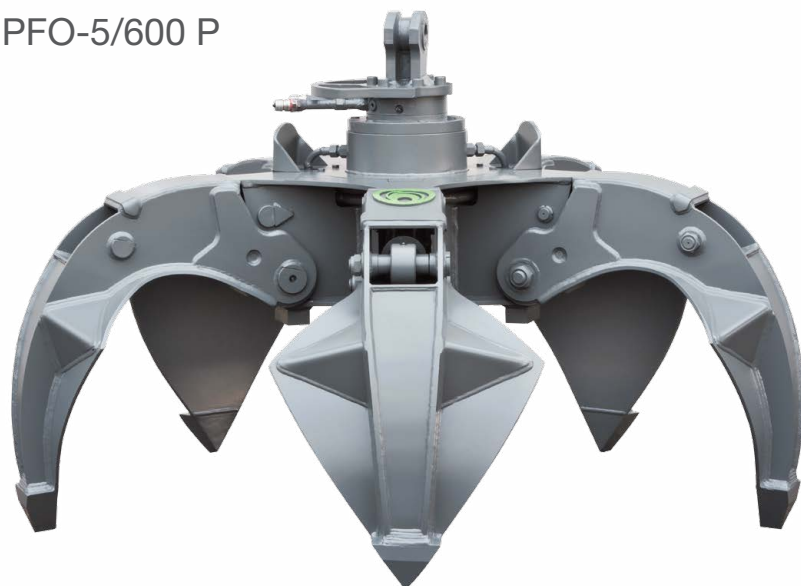
3 different tine shapes available: open, semi-closed (standard), closed.



Compact orange peel grapple for midi-excavators

- The best solution to work indoors or to operate in confined spaces.
- Long tested in the hardest working conditions on site.
- Jaws and tips are made of HB 400 anti-wear steel.
- Very interesting value for money.

PFO-5/600 P



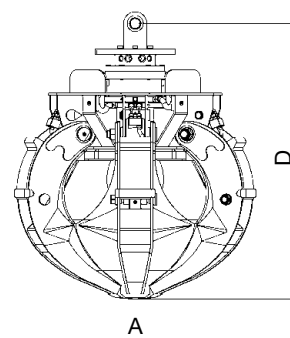
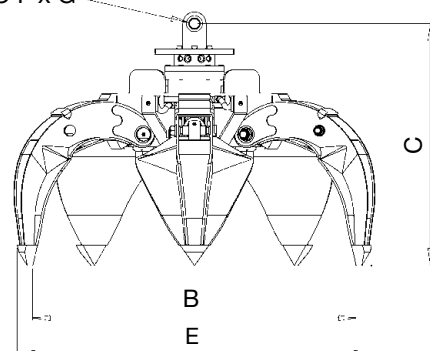
PFO-6/600 P



Model	Jaws n.	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm	Ø F x G mm
PFO - 5/400-P	5	400	800	5000	300	1250	1750	1200	1400	1900	50x100
PFO - 6/400-P	6	400	850	5000	300	1250	1750	1200	1400	1900	50x100
PFO - 5/600-P	5	600	900	5000	300	1380	1920	1200	1420	2080	50x100
PFO - 6/600-P	6	600	950	5000	300	1380	1920	1200	1420	2080	50x100

Technical Data

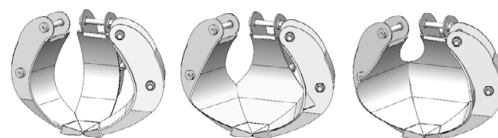
Ø F x G



Accessori

GRM 10 T	Mechanical, free 250° rotation (without hydraulic supply)
GRI 10 T/P	Hydraulic rotator
Top link for excavator	Cardan suspension link for excavator
Cylinder protection	Protections for hydraulic cylinder

3 different tine shapes available: open, semi-closed (standard), closed.



Orange peel grab with vertical cylinders

- Traditional and very reliable design, made of 420 DOMEX steel.
- Easy maintenance operations.
- The best solution for the job in tanneries
- Jaws are made of HB 400 anti-wear steel, tips are forged.

PFV-6/360

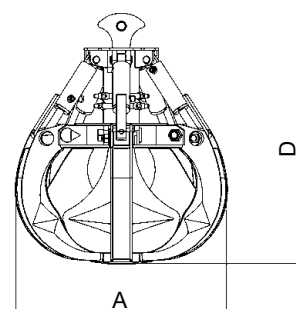
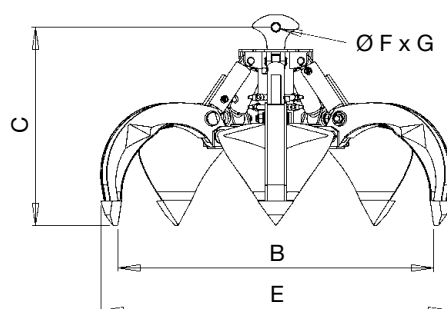


PFV-6/250



Model	Jaws n.	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm	Ø F x G mm
PFV - 5/150	5	150	230	1500	220	830	1300	770	940	1420	30x60
PFV - 6/250	6	250	390	2500	220	1000	1500	940	1150	1560	32x80
PFV - 6/360	6	380	550	3000	220	1120	1530	1030	1200	1710	32x80

Technical Data



Accessories

GRM 4 T	Mechanical, free 250° rotation (without hydraulic supply)
GRI 4 T/S	Hydraulic rotator for mod. PFV 5/150
GRI 5 T/SF	Hydraulic rotator
Top link for crane	Cardan suspension link for truck crane
Tannery kit	Spherical tips and round jaw edges to protect leather from cuts

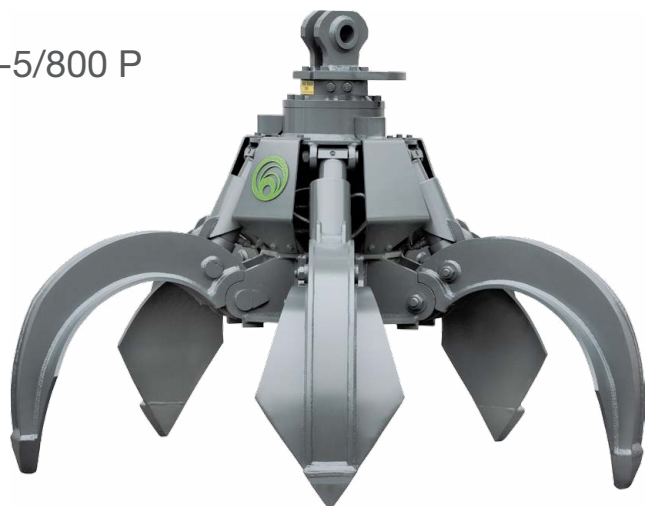
3 different tine shapes available: open, semi-closed (standard), closed.



Orange peel grapple with vertical cylinders for excavators.

- Very sturdy structure, made of high strength fine grain steel.
- 5 or 6 tine version available for each capacity.
- Very powerful cylinders with ball-joints and solid ends-of run
- Tips and jaws are entirely made of HB 400 anti-wear steel.

PFV-5/800 P

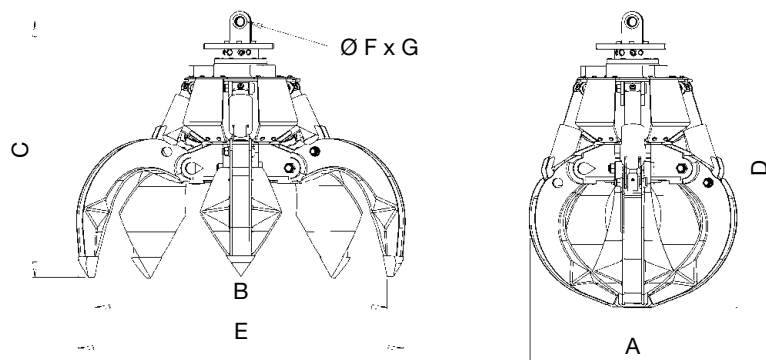


PFV-5/800 P



Model	Jaws n.	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm	Ø F x G mm
PFV - 5/500-P	5	500	1100	5000	300	1210	1840	1500	1690	2000	50x100
PFV - 6/500-P	6	500	1250	5000	300	1250	1840	1500	1690	2000	50x100
PFV - 5/650-P	5	650	1200	5000	300	1300	1960	1610	1830	2130	50x120
PFV - 6/650-P	6	650	1350	6000	300	1360	1960	1610	1830	2130	50x120
PFV - 5/800-P	5	800	1350	7000	300	1400	2250	1640	1940	2430	70x150
PFV - 6/800-P	6	800	1550	7000	300	1480	2250	1640	1940	2430	70x150
PFV - 5/1000-P	5	1000	1500	7000	300	1510	2420	1680	2120	2580	70x150
PFV - 6/1000-P	6	1000	1700	7000	300	1510	2420	1680	2120	2580	70x150

Technical Data



Accessories

GRM 10 T	Mechanical, free 250° rotation (without hydraulic supply)
GRI 10 T/P	Hydraulic rotator for excavators up to 23 Ton
GRI 20 T/P	Hydraulic rotator for excavator of 24 Ton and over
Attacco per escavatore	Cardan suspension link for excavator

3 different tine shapes available: open, semi-closed (standard), closed.



Sorting grab (universalgrab)

- Compact and simple design makes servicing very easy.
- Rigid mounting is allowed by the flat top rotator.
- Replaceable cutting edges made of HB 400 steel grant maximum durability.
- Safety valve, fitted as standard, guarantees secure retention of load

SG 25

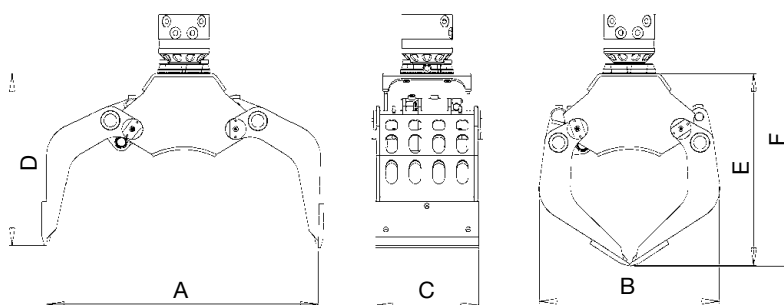


SG 50



Model	Exc weight Ton.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm	F mm	Closing force (200 bar) kN
SG 25	2,5	115	500	220	933	580	345	610	650	850	7,5
SG 35	2,5 - 3,5	265	900	220	1230	740	460	800	830	1100	9
SG 50	3,5 - 5	285	900	220	1230	740	460	800	830	1100	9
SG 80	5 - 8	385	1500	220	1500	975	550	875	1100	1195	12

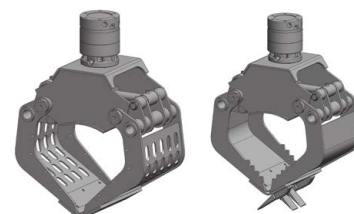
Technical Data



Accessories

Adapter Bolted adapter for rigid mounting

2 versions available: "Sorting", with perforated shells, and "Universal", with closed shells and teeth



Demolition and sorting grapples

- High closing force is granted by the generously dimensioned hydraulic cylinder.
- Compact and simple design, easy servicing.
- Over-dimensioned ends-of-run transfer shocks to the solid main frame and preserve cylinder
- Replaceable cutting edges made of HB 400 steel grant maximum durability.

DG 200

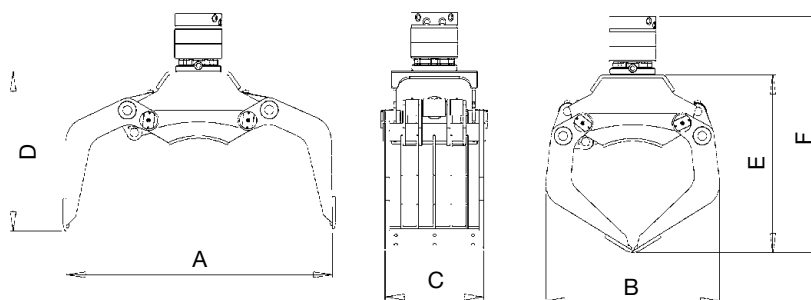


DG 200



Model	Exc weight Ton.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm	F mm	Closing force (300 bar) kN
DG 25	2,5	155	500	300	930	580	350	610	650	850	25
DG 35	2,5 - 3,5	230	900	300	1070	630	400	670	710	980	25
DG 50	3,5 - 5	335	900	300	1260	740	450	800	830	1100	25
DG 80	5 - 8	470	1500	300	1500	975	550	875	1100	1195	25
DG 120	8 - 12	650	2500	300	1700	1075	700	1100	1200	1400	25
DG 200	16 - 22	1150	5000	300	1850	1260	820	1310	1380	1680	40
DG 250	18 - 27	1450	5000	300	2010	1310	1020	1310	1440	1740	40

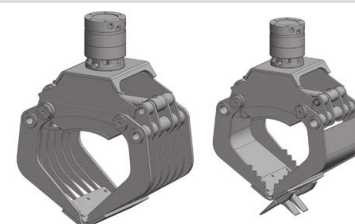
Technical Data



Accessories

Adapter Bolted adapter for rigid mounting

2 versions available: “Demolition”, with metal ribs, and “Universal”, with closed shells and teeth



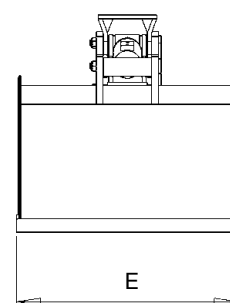
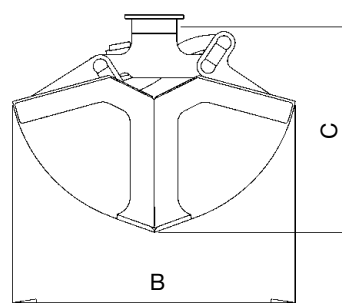
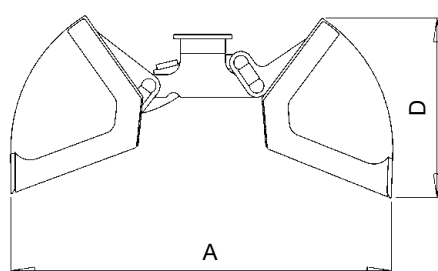
Clamshell bucket for agriculture and light duties

- Horizontal cylinder design grants reduced height
- Safety valve fitted as standard
- Alloy steel pins and hardened bushings are used in all junction points
- Cutting edges made of ITAR 7 anti-wear steel



Model	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm
BL - 250	250	220	600	220	1420	1060	750	675	700
BL - 350	350	250	700	220	1420	1060	750	675	850
BL - 450	450	270	800	220	1420	1060	750	675	1000

Technical Data

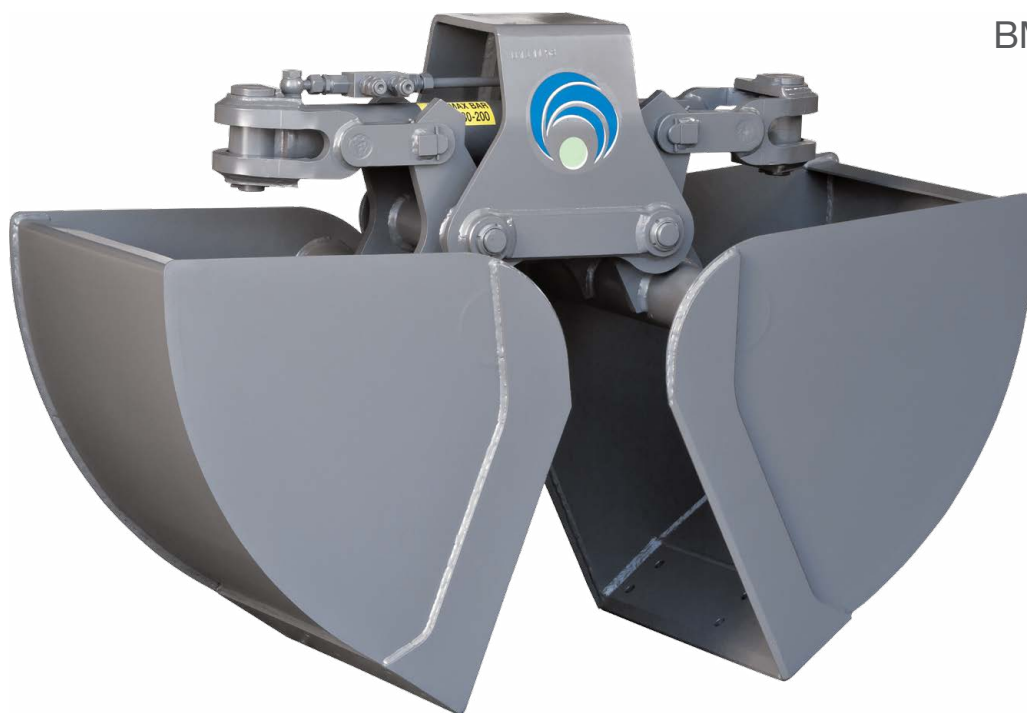


Accessories

Fixed head	Bolted head (without rotation)
GRM 4 T/F	Mechanical, free 250° rotation (without hydraulic supply)
GRI 4 T/SF	Hydraulic rotator
Teeth	Digging teeth, bolted
Top link for crane	Cardan suspension link for truck crane
Top link for excavator	Cardan suspension link for excavator

Clamshell bucket with horizontal cylinder

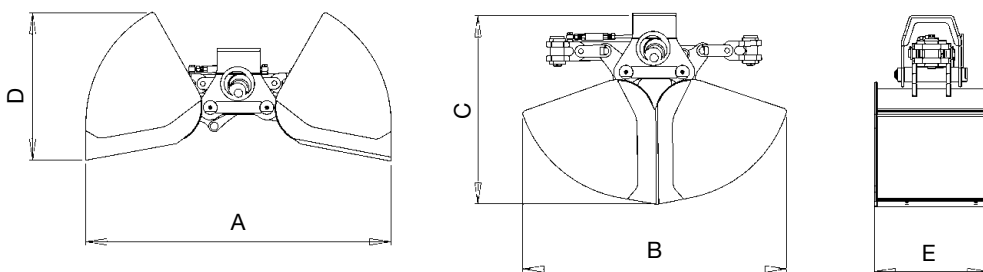
- Sturdy, reliable and compact design.
- Suitable for light digging.
- Hydraulic or mechanical rotation available on demand.
- Cutting edges made of ITAR 7 anti-wear steel.



BMO-300/S

Model	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm
BMO - 250/S	250	320	1000	220	1500	1340	920	500	500
BMO - 300/S	300	330	1500	220	1500	1340	920	500	600
BMO - 400/S	400	345	1500	220	1500	1340	920	500	700
BMO - 500/S	500	365	1500	220	1500	1340	920	500	800

Technical Data



Accessories

Fixed head	Bolted head (without rotation)
GRM 4 T/F	Mechanical, free 250° rotation (without hydraulic supply)
GRI 4 T/SF	Hydraulic rotator
GRI 5 T/SF	Hydraulic rotator
Teeth	Digging teeth, bolted
Top link for crane	Cardan suspension link for truck crane
Top link for excavator	Cardan suspension link for excavator

Clamshell bucket with horizontal cylinder for loading

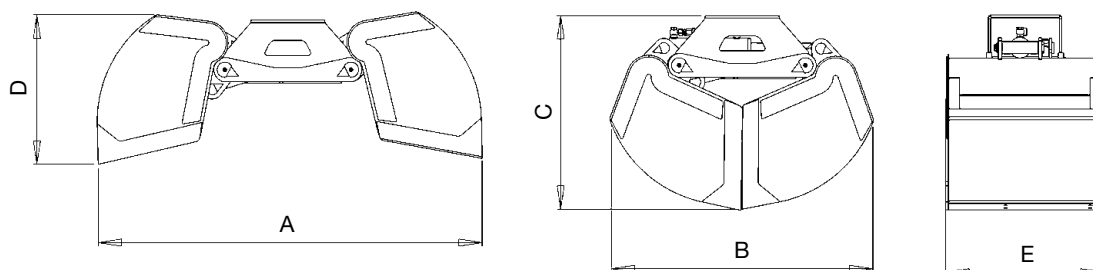
- Sturdy, reliable and compact design.
- Very good loading intake.
- Hydraulic or mechanical rotation available on demand.
- Cutting edges made of ITAR 7 anti-wear steel



BMO - 400/L

Model	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm
BMO - 200/L	200	308	1000	220	1800	1210	870	640	430
BMO - 300/L	300	314	1500	220	1800	1210	870	640	600
BMO - 400/L	400	322	1500	220	1800	1210	870	640	700
BMO - 500/L	500	330	1500	220	1800	1210	870	640	800
BMO - 600/L	600	340	1500	220	1800	1210	870	640	1000

Technical Data



Accessories

Fixed head	Bolted head (without rotation)
GRM 4 T/F	Mechanical, free 250° rotation (without hydraulic supply)
GRI 4 T/SF	Hydraulic rotator
GRI 5 T/SF	Hydraulic rotator
Teeth	Digging teeth, bolted
Top link for crane	Cardan suspension link for truck crane
Top link for excavator	Cardan suspension link for excavator

Clamshell bucket with two horizontal cylinders for loading

- Sturdy, reliable and compact design.
- Shape of the shells and high penetration force grant excellent loading capacity.
- Suitable for excavator up to 26 Ton.
- Cutting edges made of anti-wear steel, teeth available on demand.

BMO-1200/P2

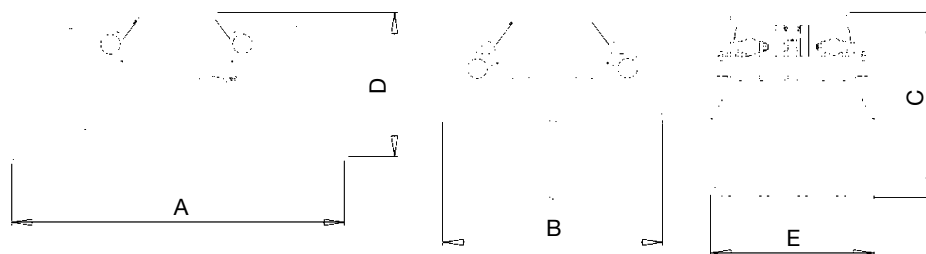


BMO-1000/P2



Model	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm
BMO - 500/P2	500	550	2500	300	1650	1160	950	750	1030
BMO - 700/P2	700	710	2500	300	2160	1450	1250	1030	800
BMO - 1000/P2	1000	850	3000	300	2160	1450	1250	1030	1050
BMO - 1200/P2	1200	1050	3500	300	2160	1450	1250	1030	1200
BMO - 1500/P2	1500	1150	3500	300	2160	1450	1250	1030	1500
BMO - 2000/P2	2000	1450	5000	300	2160	1450	1250	1030	2000

Technical Data



Accessories

Fixed head	Bolted head (without rotation)
GRM 10 T/F	Mechanical, free 250° rotation (without hydraulic supply)
GRI 10 T/P	Hydraulic rotator for excavators up to 23 Ton
GRI 20 T/P	Hydraulic rotator for excavator of 24 Ton and over
Teeth	Digging teeth, bolted
Extension	Extensions up to 3 metres of length
Top link for excavator	Cardan suspension link for excavator

Clamshell bucket with two vertical cylinders, suitable for digging

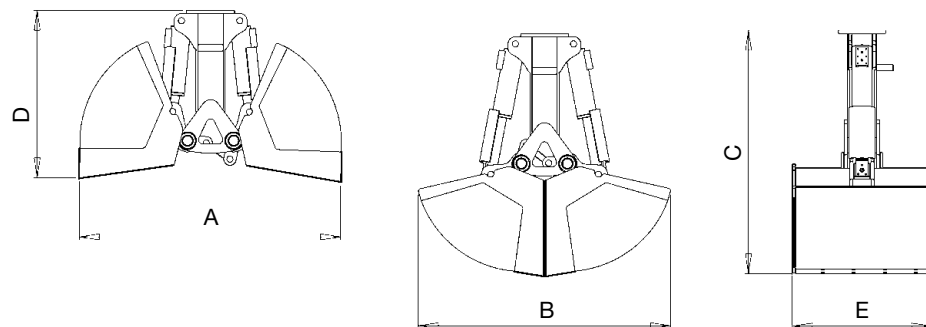
- Cylinders geometry grants very good digging capabilities.
- Sturdy and reliable design.
- Hydraulic or mechanical rotation available on demand.
- Cutting edges made of ITAR 7 anti-wear steel.



BMV-2/350

Model	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm
BMV - 2/200-S	175	240	1500	250	1340	1230	1170	940	270
BMV - 2/250	250	260	1500	250	1340	1230	1170	940	520
BMV - 2/350	350	280	1500	250	1340	1230	1170	940	670
BMV - 2/500	500	300	1500	250	1340	1230	1170	940	800

Technical Data



Accessories

Fixed head	Bolted head (without rotation)
GRM 4 T/F	Mechanical, free 250° rotation (without hydraulic supply)
GRI 4 T/SF	Hydraulic rotator
GRI 5 T/SF	Hydraulic rotator
Teeth	Digging teeth, bolted
Top link for crane	Cardan suspension link for truck crane
Top link for excavator	Cardan suspension link for excavator

Clamshell bucket with two vertical cylinders, suitable for loading and digging

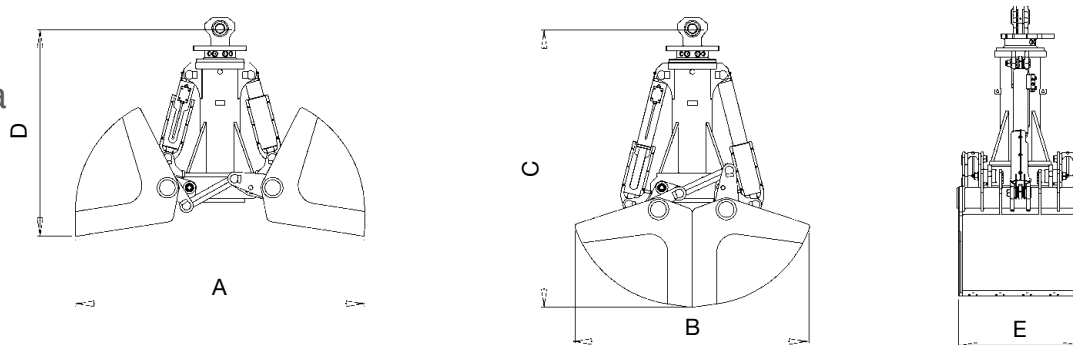
- Geometry of the 2 powerful cylinders grants huge penetration force.
- Robust construction makes it suitable for the most demanding applications.
- Suggested for excavator up to 32 Ton.
- Buckets made of HB 400 anti-wear steel, teeth available on demand.

BMV-2/1300 P



Model	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm
BMV - 2/350-P	350	550	3000	300	1620	1480	1780	1280	600
BMV - 2/400-P	400	580	3000	300	1620	1480	1780	1280	700
BMV - 2/450-P	460	610	3000	300	1620	1480	1780	1280	800
BMV - 2/500-P	520	640	3000	300	1620	1480	1780	1280	900
BMV - 2/1000-P	1050	1500	5000	300	2400	1950	2000	1400	1000
BMV - 2/1300-P	1350	1700	5000	300	2400	1950	2000	1400	1300
BMV - 2/1500-P	1600	1900	5000	300	2400	1950	2000	1400	1500

Technical Data



Accessories

Fixed head	Bolted head (without rotation)
GRM 10 T/F	Mechanical, free 250° rotation (without hydraulic supply)
GRI 10 T/P	Hydraulic rotator per mod. fino a 500 lt.
GRI 20 T/P	Hydraulic rotator per mod. da 1000 lt. e oltre
Teeth	Digging teeth, bolted
Extension	Extensions up to 3 metres of length
Top link for excavator	Cardan suspension link for excavator

Light-type log grapple

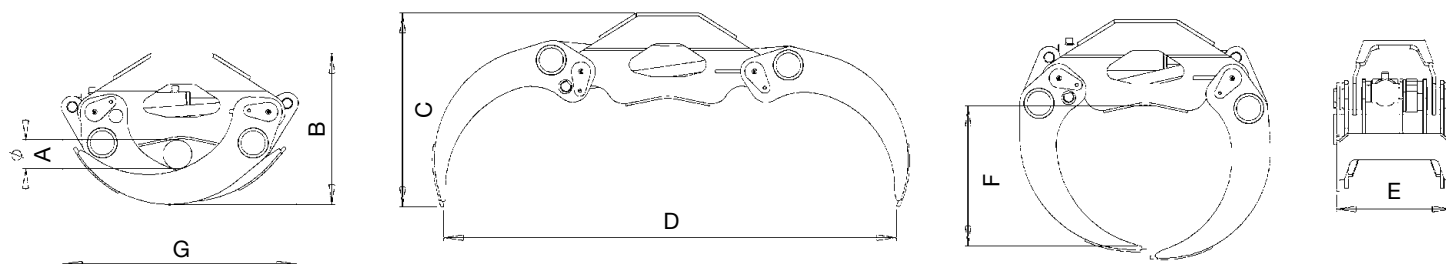
- Light grapple, suitable for not intense applications.
- Wide opening and very small gripping diameter when closed
- Safety valve is fitted as standard.
- Alloy steel pins and hardened bushings in all junctions.
- Entirely made of anti-yeld DOMEX 420 steel.



PTO 150

Model	Cap. m ²	Weight Kg	Max load DaN	Max BAR	Ø A mm	B mm	C mm	D mm	E mm	F mm	G mm
PTO - 150	0,15	80	700	220	80	420	530	1250	320	400	660
PTO - 200	0,2	95	1000	220	90	470	595	1390	360	450	730
PTO - 300	0,3	155	1500	220	105	550	700	1640	420	500	860

Technical Data

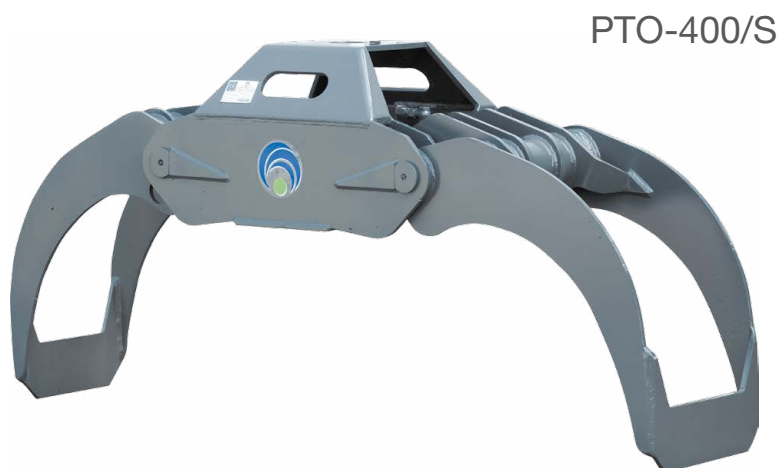
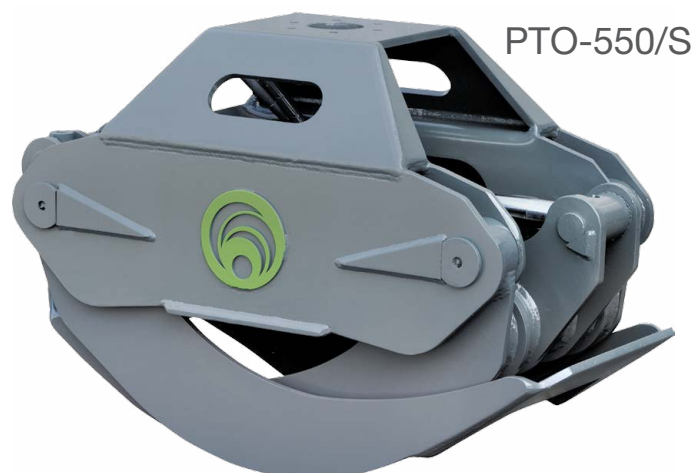


Accessories

Fixed head	Bolted head (without rotation)
GRM 4 T/F	Mechanical, free 250° rotation (without hydraulic supply)
GRI 4 T/SF	Hydraulic rotator
Top link for crane	Cardan suspension link for truck crane
Top link for excavator	Cardan suspension link for excavator

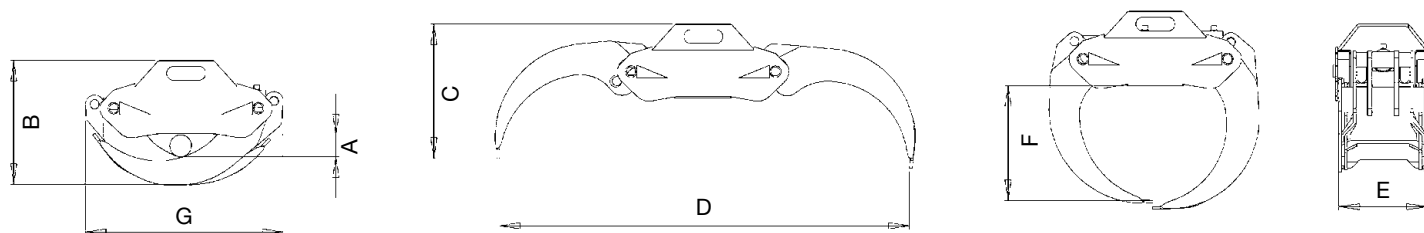
Professional log grapple

- Suitable for intense and industrial forestry applications.
- Wide opening with reduced overall dimensions when closed.
- Central cylinder and double compensation bar design gives a perfect balancing.
- Entirely made of DOMEX 420 and HB 400 steel.



Model	Cap. m ²	Weight Kg	Max load DaN	Max BAR	Ø A mm	B mm	C mm	D mm	E mm	F mm	G mm
PTO - 200/S	0,2	115	1500	220	75	520	650	1395	350	435	730
PTO - 300/S	0,3	165	2000	220	85	590	775	1590	425	510	850
PTO - 400/S	0,4	275	2500	220	110	630	830	1880	520	710	985
PTO - 550/S	0,55	420	4500	300	115	780	1050	2150	600	840	1120
PTO - 700/S	0,7	650	7000	300	145	975	1310	2700	750	1050	1400

Technical Data



Accessories

Fixed head	Bolted head (without rotation)
GRM 4 T/F	Mechanical, free 250° rotation (without hydraulic supply)
GRI 4 T/SF	Hydraulic rotator
GRI 5 T/SF	Hydraulic rotator
GRI 6 T/SF	Hydraulic rotator
GRI 11 T/SF	Hydraulic rotator
GRI 17 T/SF	Hydraulic rotator
Top link for crane	Cardan suspension link for truck crane
Top link for excavator	Cardan suspension link for excavator

Waste and forestry grapple

- Suitable for handling recycling materials.
- Wide opening with reduced overall dimensions when closed.
- Central cylinder, double connecting-rod design for a perfect balancing.
- Entirely made of DOMEX 420 and HB 400 steel.

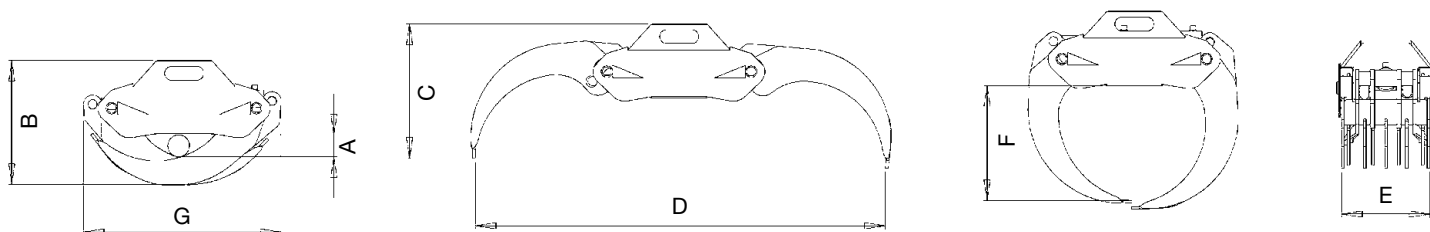


PTO-400/SC



Model	Cap. m ²	Weight Kg	Max load DaN	Max BAR	Ø A mm	B mm	C mm	D mm	E mm	F mm	G mm
PTO - 300/SC	0,3	200	2000	220	85	590	775	1590	425	510	850
PTO - 400/SC	0,4	350	2500	220	110	630	830	1880	520	710	985
PTO - 550/SC	0,55	550	4500	300	115	780	1050	2150	600	840	1120

Technical Data



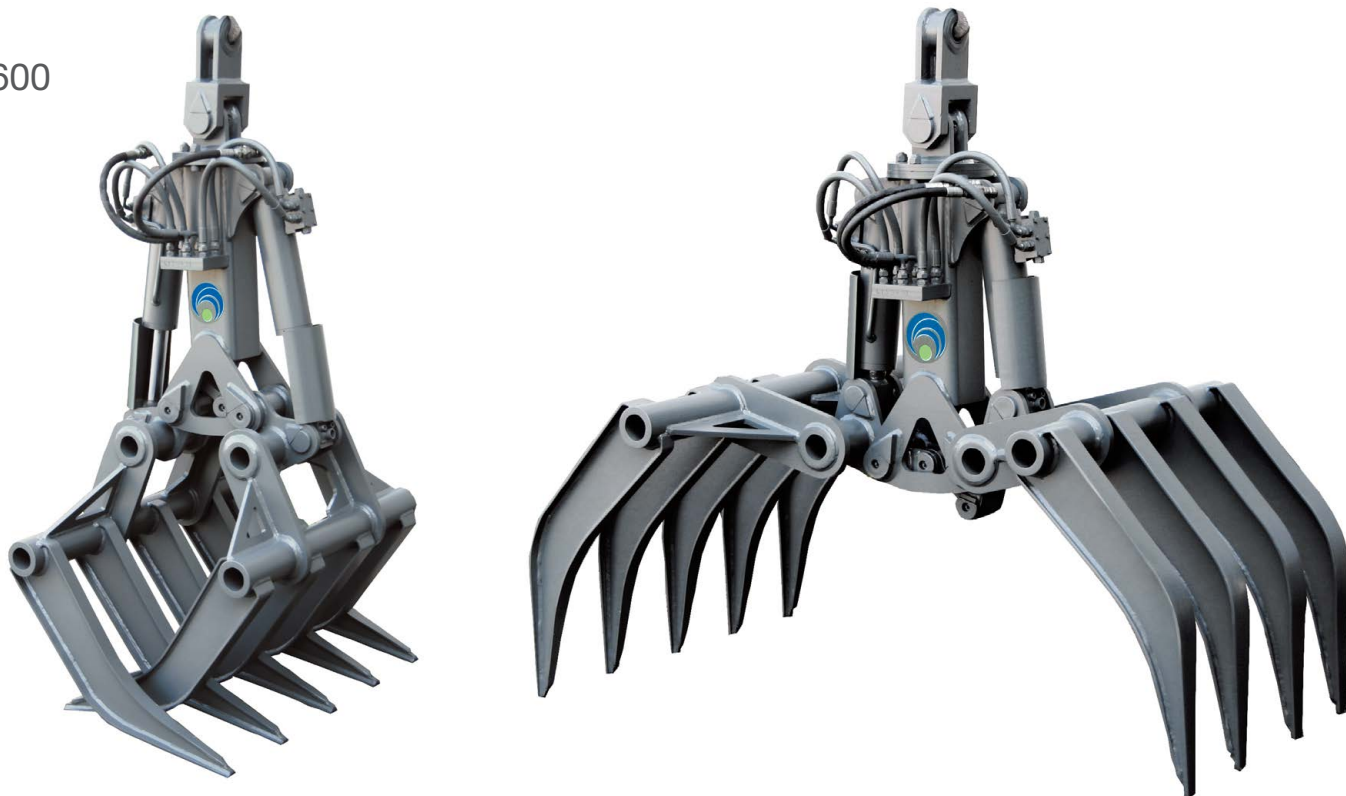
Accessories

Fixed head	Bolted head (without rotation)
GRM 4 T/F	Mechanical, free 250° rotation (without hydraulic supply)
GRI 5 T/SF	Hydraulic rotator
GRI 6 T/SF	Hydraulic rotator
GRI 11 T/SF	Hydraulic rotator
Top link for crane	Cardan suspension link for truck crane
Top link for excavator	Cardan suspension link for excavator

Multi purpose and forestry grab

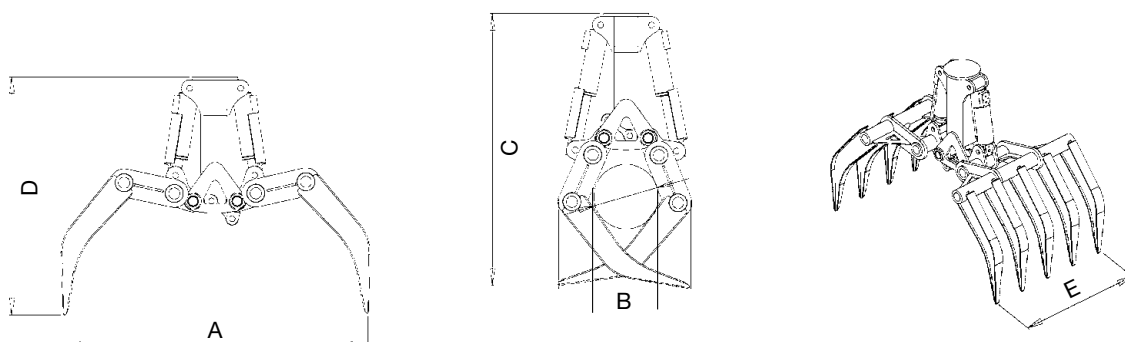
- Very versatile grab with interlocking jaws.
- Vertical - double - cylinders geometry grants high gripping force.
- Sturdy and well-tested main frame, suitable for heavy-duty applications.
- Arms made in HARDOX 400 steel.

FMV-600



Model	Cap. l.	Weight Kg	Max load DaN	Max BAR	A mm	Ø B mm	C mm	D mm	E mm
FMV - 600	600	360	1500	220	1560	325	1360	1200	1000
FMV - 700	700	390	1500	220	1560	325	1360	1200	1250

Technical Data



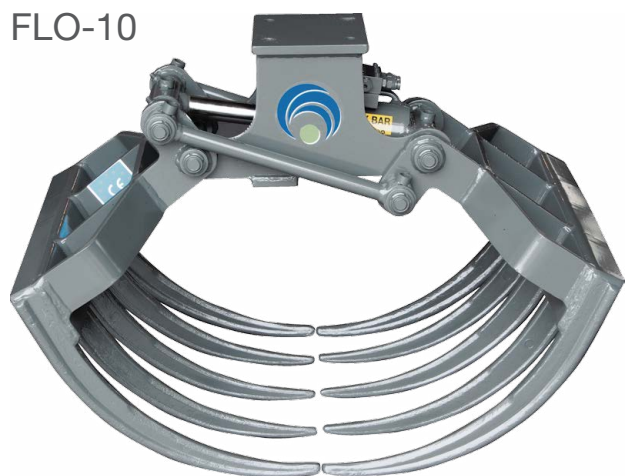
Accessories

Fixed head	Bolted head (without rotation)
GRM 4 T/F	Mechanical, free 250° rotation (without hydraulic supply)
GRI 5 T/SF	Hydraulic rotator
Top link for crane	Cardan suspension link for truck crane
Top link for excavator	Cardan suspension link for excavator

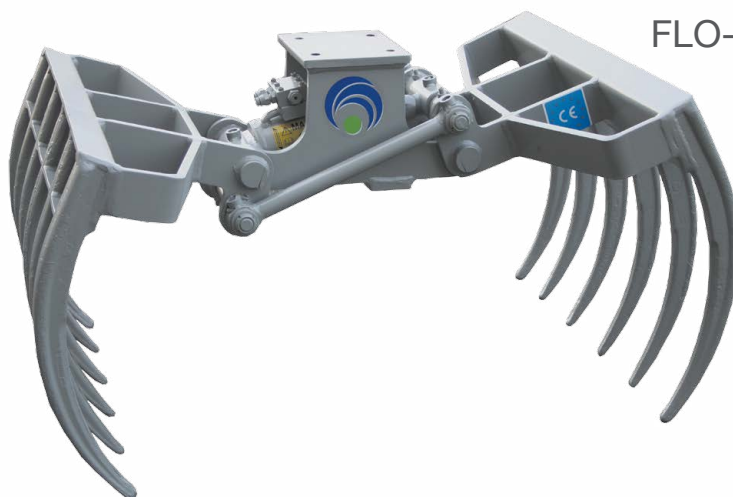
Grapple for forestry and agricultural applications

- Horizontal cylinder design grants reduced overall dimensions.
- Safety valve fitted as standard.
- Alloy steel pins and hardened bushings are used in all junction points.
- Forged tips for longer durability.

FLO-10

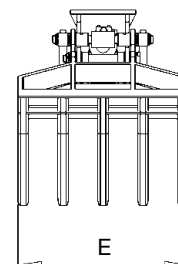
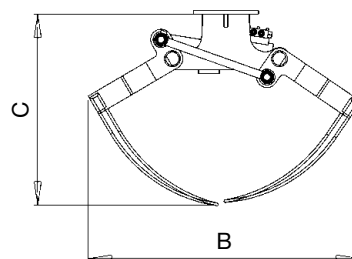
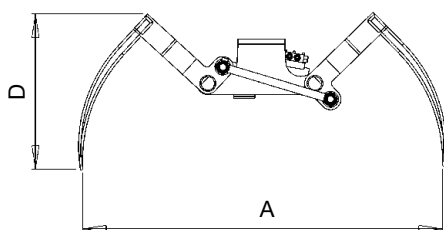


FLO-12



Model	Tips n.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm
FLO - 10	10	155	600	220	1250	1020	680	580	650
FLO - 12	12	175	700	220	1250	1020	680	580	800
FLO - 14	14	195	800	220	1250	1020	680	580	950

Technical Data



Accessories

Fixed head	Bolted head (without rotation)
GRM 4 T/F	Mechanical, free 250° rotation (without hydraulic supply)
GRI 4 T/SF	Hydraulic rotator
Top link for crane	Cardan suspension link for truck crane
Top link for excavator	Cardan suspension link for excavator

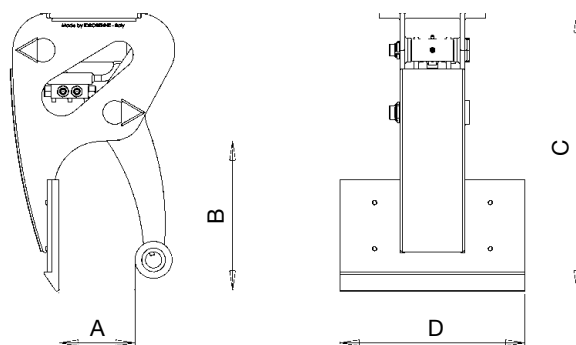
Kerb stone grab

- Handles kerb stones in full security.
- Grabs the kerb directly from the pallet where it is packed.
- Compact, light and very reliable construction.
- Long-lasting nylon pad and plastic bumpers prevent from scratching.
- Kerb stones can be posed at once by the machine operator.



Model	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	Oil flow l./min
KSG - 80	55	80	200	30 - 160	350	600	400	20 - 40
KSG - 400	80	400	200	0 - 400	350	575	400	20 - 50

Technical Data



Accessories

Fixed head	Bolted head (without rotation)
GRM 1 T/F	Mechanical, free 250° rotation with handle-bar (without hydraulic supply)
GRI 4 T/SF	Hydraulic rotator
Top link for crane	Cardan suspension link for truck crane
Top link for excavator	Cardan suspension link for excavator

Pallet forks

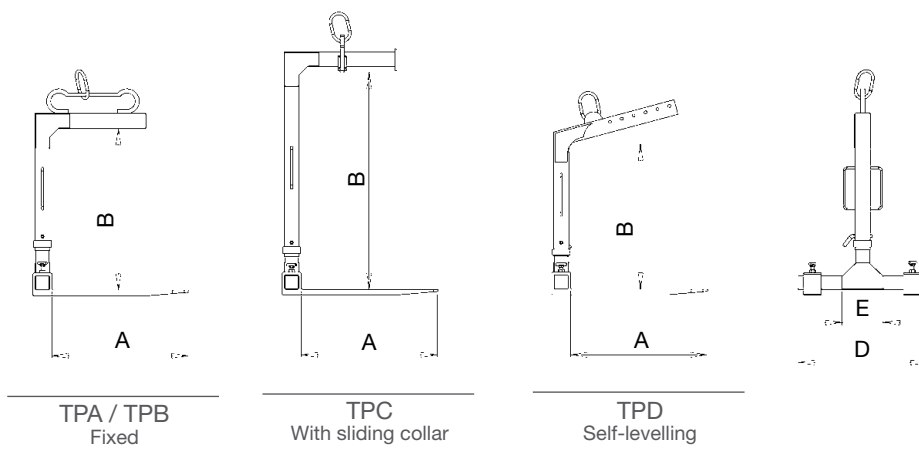
- Different model with 2000 Kgs. max load capacity.
- The sturdy construction grants safe operations.
- Tips made of forged steel.
- Adjustable loading height and width.



TPD-2000

Model	Weight Kg	Max load DaN	A mm	B min mm	B max mm	D mm	E mm
TPA - 2000	155	2000	1020	1150	1600	940	300
TPB - 2000	160	2000	1020	1615	2150	940	300
TPC - 2000	165	2000	1020	1615	2150	940	300
TPD - 2000	165	2000	1020	1150	1650	940	300

Technical Data



Accessories

Third fork Central fork (demountable)

Wallboard fork

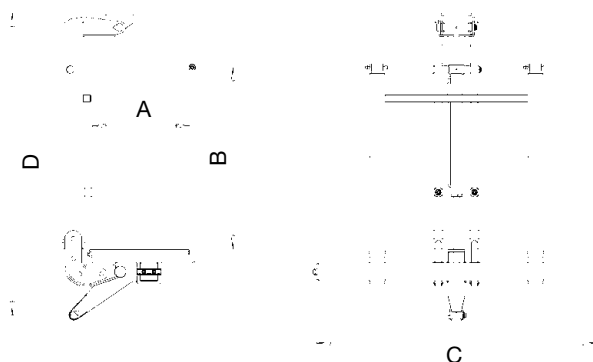
- Main frame's special design grants high resistance and low overall weight.
- Forks made in hardened boron steel.
- 3 nylon pads with improved thickness and polyurethane bumpers.
- Precise, robust and easy-to-use fork locks.

TPW-2000



Model	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm
TPW - 2000	360	2000	200	650 (25")	1220 (48")	1830 (72")	2330 (92")
				457 (18")			
				558 (22")			

Technical Data



Accessories

GRM 4 T/SF	Hydraulic rotator
Top link for crane	Cardan suspension link for truck crane
Supports	Supports for storage

Grab for railway sleepers

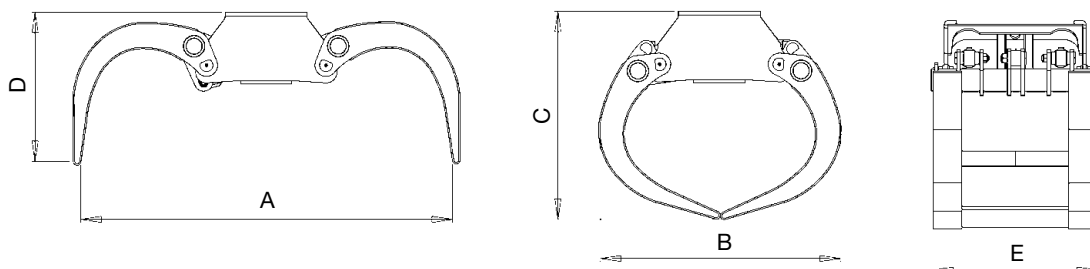
- Sturdy, reliable and compact design.
- 2 versions for wooden and concrete sleepers.
- Double horizontal cylinder for maximum gripping power.
- Made of DOMEX 420 steel. Cutting edges in HB 400.



PFS-55/TL

Model	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm
PFS - 55/TL	700	3000	300	2140	1450	1300	900	950
PFS - 55/TP	990	3000	300	2140	1450	1300	900	950

Technical Data



Accessories

Adapters	Adapters for the most common road-rail excavators
GRI 10 T/P	Hydraulic rotator for railway applications
Top link for excavator	Cardan suspension link for excavator

Grab for rails

- The hydraulic circuit is perfectly protected by the structure.
- 2 versions, with 2 and 4 cylinders.
- The optimised design allows small grab diameters.
- Arms made of HB 400 steel.

PFS-70/R

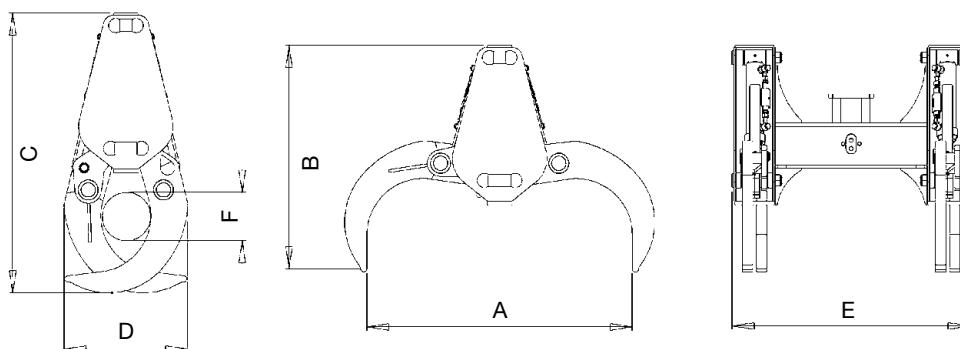


PFS-140/R



Model	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm	Ø F mm
PFS - 70/R	475	3000	300	1020	925	610	845	1240	80
PFS - 140/R	525	5000	300	1300	1100	1365	600	1175	250

Technical Data



Accessories

Adapters	Adapters for the most common road-rail excavators
GRI 10 T/P	Hydraulic rotator for railway applications
Top link for excavator	Cardan suspension link for excavator

Grab for the propping of railways

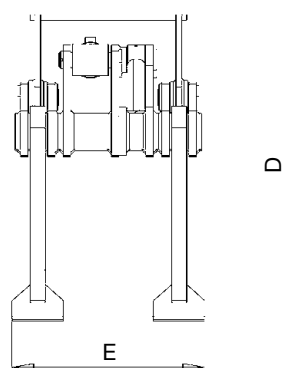
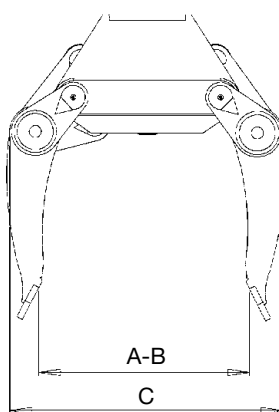
- Generously dimensioned cylinder provides huge tamping force.
- Avoids wearing to the machine caused by vibrating units.
- Sturdy construction.
- Made of DOMEX 420 steel.



PFS-80/C

Model	Weight Kg	Max BAR	A mm	B mm	C mm	D mm	E mm
PFS - 80/C	510	300	40	780	1050	1030	660

Technical Data



Accessories

Adapters	Adapters for the most common road-rail excavators
GRI 10 T/P	Hydraulic rotator for railway applications
Top link for excavator	Cardan suspension link for excavator

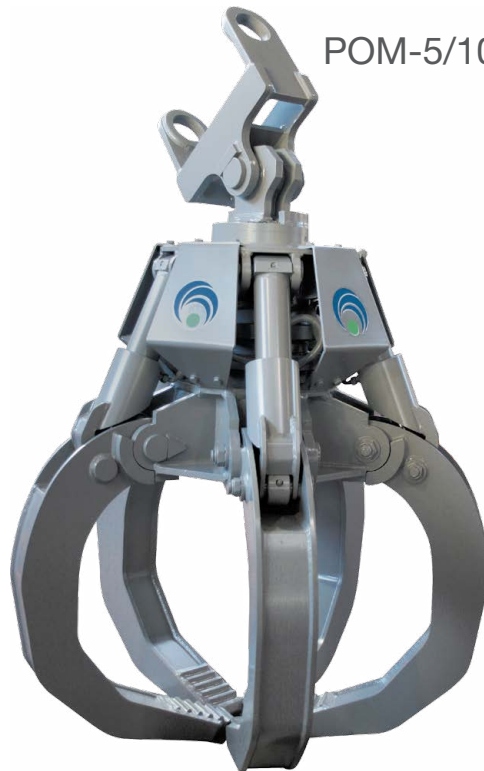
Rock grab

- Special tips grant the maximum grip on boulders and rocks.
- Arms entirely made of HB 400 wear-resistant steel.
- The hydraulic circuit is perfectly protected by the structure
- Arms geometry studied for the specific application.

POM-4/550 P

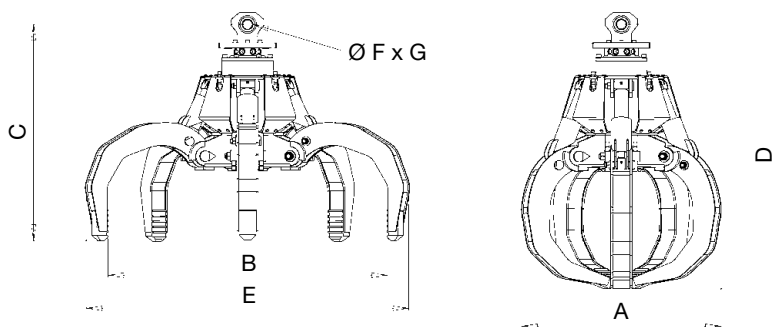


POM-5/1000 P



Model	Jaws n.	Weight Kg	Max load DaN	Max BAR	A mm	B mm	C mm	D mm	E mm	Ø FxG mm
POM - 3/380	3	450	2500	220	1340	1680	1180	1370	2000	32x80
POM - 4/550-P	4	850	5000	300	1300	2050	950	1160	2150	50x100
POM - 5/1000-P	5	1350	8000	300	1400	2250	1640	1940	2453	70x150

Technical Data



Accessories

GRM 4 T	Mechanical, free 250° rotation (without hydraulic supply) for POM 3/380
GRM 10 T	Mechanical, free 250° rotation (without hydraulic supply)
GRI 5 T/SF	Hydraulic rotator for mod. POM - 3/380
GRI 10 T/P	Hydraulic rotator for mod. POM - 4/550-P
GRI 20 T/P	Hydraulic rotator for mod. POM - 5/1000-P
Top link for excavator	Cardan suspension link for excavator

Gear-type hydraulic rotators

- Very compact and powerful.
- Incredible precision control and high breaking ability.
- Integrated pressure relief valve for maximum safety.
- Generously dimensioned roller bearings absorb tension loads and tilting moments.



GRI-5T/SF



GRI-5T/SS

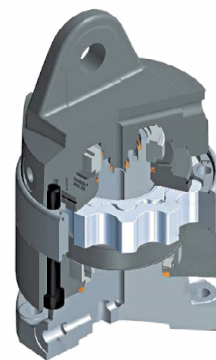


GRI-6T/SFF

GRI-10T/P



GRI-11T/SF



Technical Data

Model	Application	Weight Kg	Max BAR	Load capacity Ton	Torque (150 Bar) Nm.	Rotation
GRI 4 T/S	small truck cranes mini-excavators	25	320	4,5	850	360°
GRI 4 T/SF		27	320	4,5	850	360°
GRI 4,5 T/SFF		26	320	4,5	850	360°
GRI 5 T/S	medium-size truck cranes	26	320	4,5	850	360°
GRI 5 T/SS		28	320	4,5	1000	360°
GRI 5 T/SF		32	320	4,5	1000	360°
GRI 6 T/SF	forest loader cranes medium excavators	37	320	6	1000	360°
GRI 6 T/SFF		34	320	6	1000	360°
GRI 11 T/SF		68	320	10	2000	360°
GRI 10 T/SFF	Excavators and material handlers	60	320	10	2000	360°
GRI 10 T/P		60	320	10	2000	360°
GRI 15 T/P		70	320	15	2000	360°
GRI 17 T/SF		64	250	16	3300	360°
GRI 20 T/P		160	320	15	3000	360°

Kinshofer® Products



Special Products



Orange peel grapple

PFO 4/100; 5/100	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
PFO 4/120																															
PFO 4/180; 5/220																															
PFO 5/250; 6/270																															
PFO 4/300																															
PFO 5/300; 6/320																															
PFO 5/400; 6/400																															
PFV 5/150	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
PFV 6/250																															
PFV 6/360																															
PFO 5/400SR; 6/400SR	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
PFO 5/400P; 6/400P	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
PFO 5/600P; 6/600P																															
PFV 5/500P; 6/500P	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
PFV 5/650P; 6/650P																															
PFV 5/800P; 6/800P																															
PFV 5/1000P; 6/1000P																															

Weight Ton

Rock grapple

POM 3/350	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
POM 4/550 P																															
POM 5/1000 P																															

Sorting grapple and Demolition grapple

SG - DG 25	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
SG - DG 35																															
SG - DG 50																															
SG - DG 80																															
DG 120																															
DG 200																															
DG 250																															

Clamshell bucket

BL all versions	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
BMO/L all versions																															
BMO/S all versions																															
BMV 2/200 S																															
BMV 2/250 - 350 - 500																															
BMO 500 P2																															
BMO 700 P2																															
BMO 1000P2																															
BMO 1200 P2																															
BMO 1500 P2																															
BMO 2000 P2																															
BMV 2/350P; 2/500P																															
BMV 2/1000P; 2/1500P																															

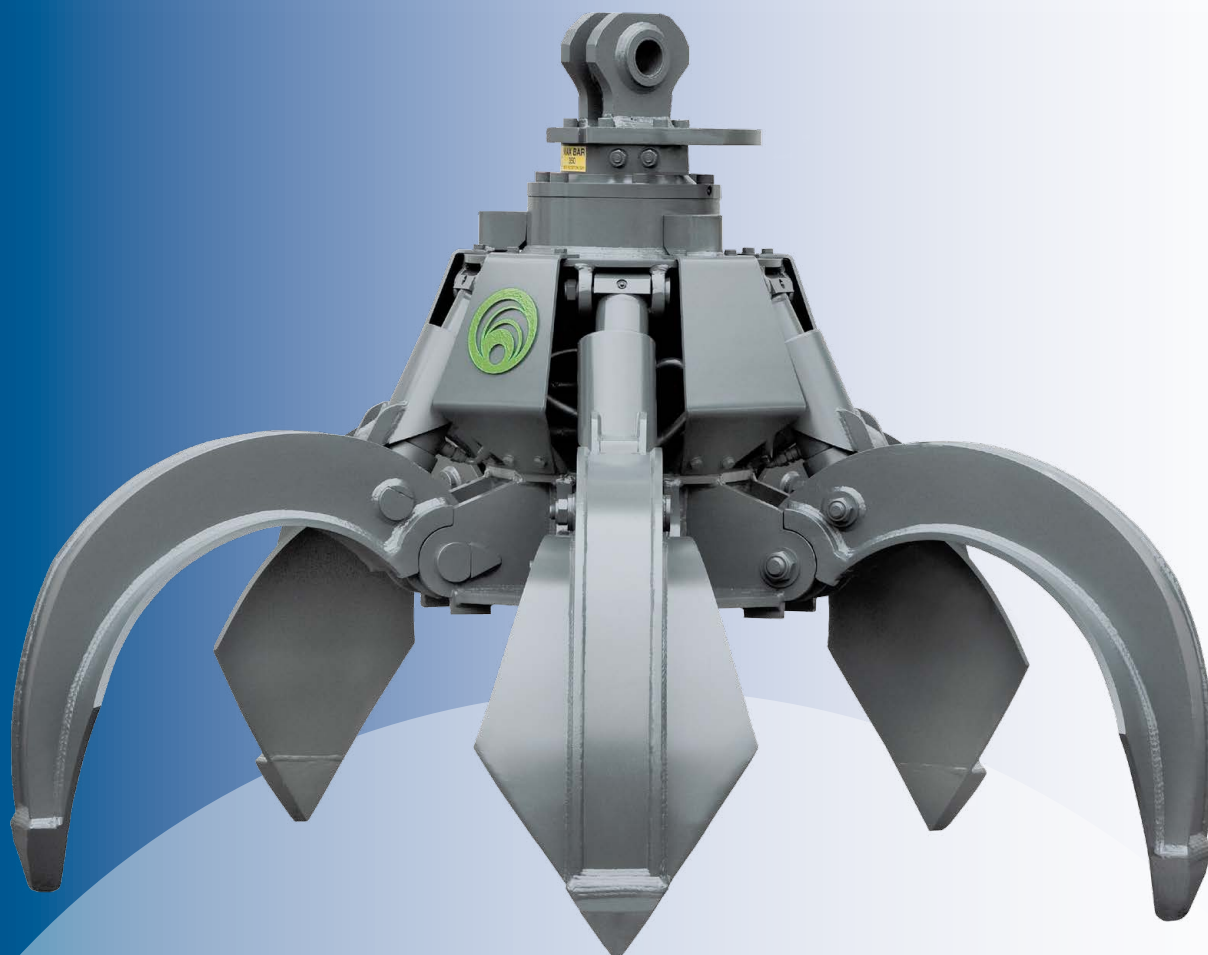
Log grapple

PTO 150	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
PTO 200																															
PTO 300																															
PTO 200 S																															
PTO 300 S																															
PTO 400 S																															
PTO 550 S																															
PTO 700 S																															

Forks

FLO all versions	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
FMV																															





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Certificate Nr. EN 1135



Certificate Nr. 6507

Rivenditore

Distributore

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