

# Mulching Heads

IMH Series





# Mulching Heads

## IMH

Indeco's IMH series of hydraulically-driven, boom-mounted mulching heads has been designed to turn excavators and miniloaders into powerful land-clearing tools, facilitating the felling and clearing of vegetation, greatly reducing costs and time. Available for a wide range of machines from 3 to 45 tons, the IMH mulchers are made with HARDOX® components that ensure excellent durability and efficiency. Powerful and easy to handle, they let you work quickly and precisely, guaranteeing the best results with the minimum use of personnel in the most diverse applications. IMH mulchers are perfect tools for the cleaning and periodic maintenance of areas invaded by spontaneous vegetation such as pipelines, railway lines, ski slopes, electricity pylons, roadways and motorways, residential and commercial green areas. Very useful in all operations for the maintenance of green areas, elimination of undergrowth, creation and maintenance of paths and firebreaks, clearing of trees, vegetation, and branches, the IMH mulchers and IMH SG stump grinders are also ideal tools in special applications that require natural landscape reshaping such as the creation and maintenance of golf courses, hedgerow rejuvenation, and the removal of stumps, roots, and wood residues of various kinds. In addition to carrying out their work quickly and effectively, an aid to protect and naturally fertilize the soils, reintroducing unwanted vegetation into the ecosystem in the form of mulch. This way, the soil is protected from wind and rain erosion and at the same time nourished with fertilising microorganisms.





# Characteristics of Indeco's Mulching Heads

The multiple V-belt drive **[1]** guarantees maximum reliability, power and ease of maintenance. Direct drive models are also available.

The hydraulic motor **[2]** can have fixed or variable displacement depending on the models. The high performance FD fixed displacement motor (gear on some models, piston on others) has special high pressure resistant seals and is capable of accepting back pressures. The VD variable displacement piston motor, only currently in use on some versions, adapts more to the various hydraulic specifications of the machines, minimises overheating by improving pick-up, optimises torque and rotor speed and maximises productivity.

The particular design of the teeth, of different types, their number and position on the teeth holder **[3]** have been designed to offer the best possible grinding of the material, increasing the productivity and stability of the tool. In addition, special **[4]** "bite limiter" wear-resistant steel profiles, welded on the drum in correspondence of the teeth, make it possible to make the cutting depth more efficient and the rotation speed more constant, ensuring greater continuity in work and better performance. The body and components in HARDOX® **[5]** ensure maximum sturdiness and long service life, even when used in particularly heavy-duty applications. The Heavy Duty rotor **[6]** ensures prolonged efficiency over time, in any type of application.

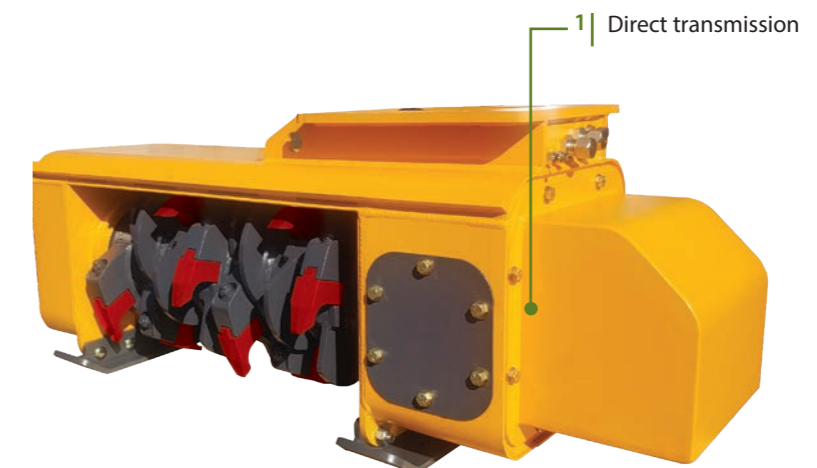
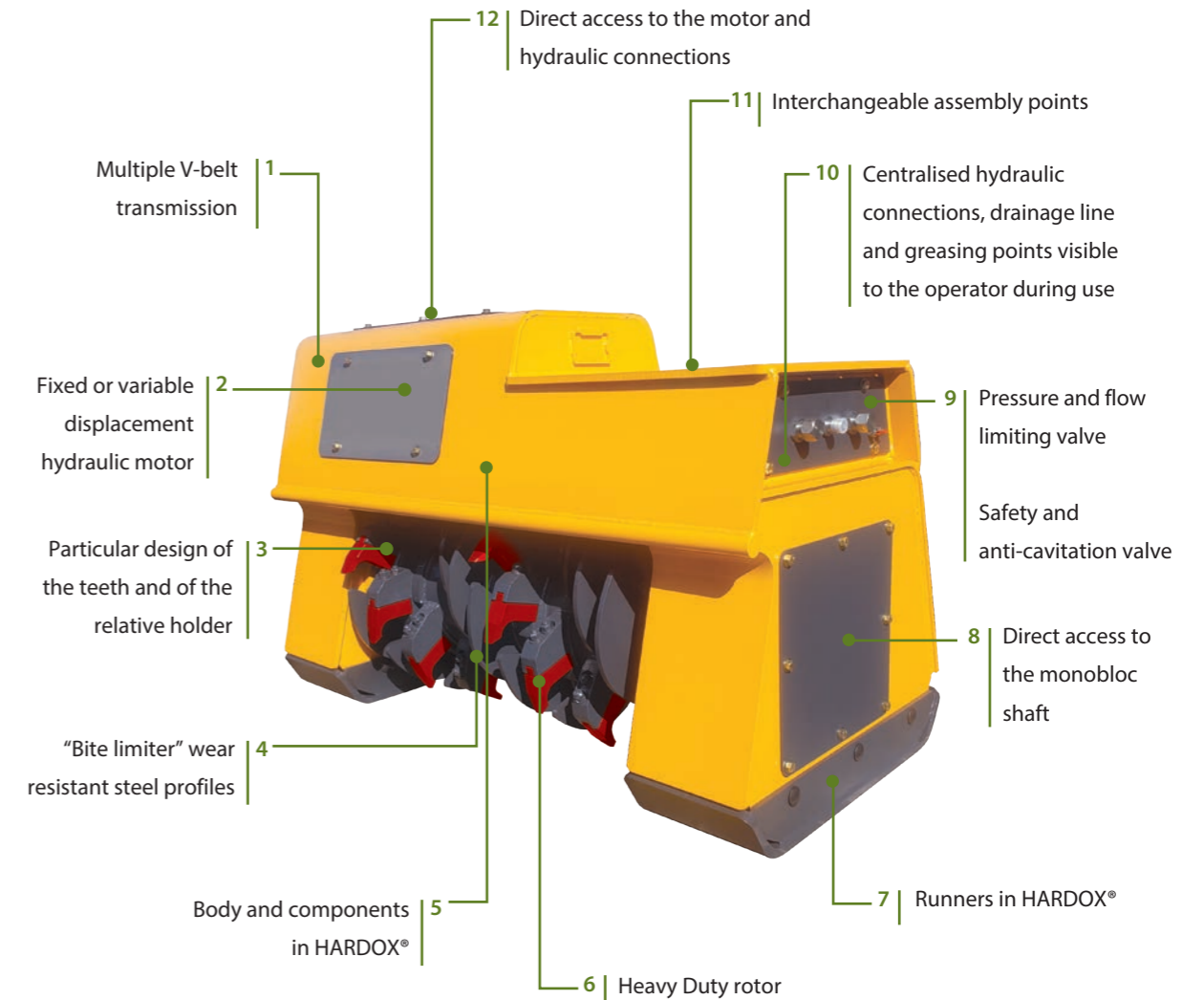
The runners in HARDOX® **[7]** offer effective protection for those parts subject to wear.

Direct access to the monobloc shaft **[8]** helps to keep the mulching head perfectly efficient, facilitating maintenance operations on the bearings and components of the shaft itself.

The pressure and flow limiting valve **[9]** allows safe and fast installation, preventing incorrect set-ups from compromising productivity and the life of the mulching head. The safety and anti-cavitation valve protects the motor from possible incorrect connection of the pipes and therefore from unexpected flow reversals, extending the life of the seals.

The centralised hydraulic connections, the drainage line and the greasing points **[10]** are visible to the operator during use thereby allowing constant checking of correct functioning of the tool.

The interchangeable assembly points **[11]** allow maximum flexibility of use with any excavator. Direct access to the motor and hydraulic connections **[12]** facilitates maintenance interventions.



# IMH

## for compact excavators



Technical Data	IMH 3	IMH 5	IMH 6
Type of carrier	1 3 4	1 3 4	1 3 4
Cutting width	610 mm	765 mm	765 mm
GPM range	45 ÷ 68 l/min	45 ÷ 68 l/min	60 ÷ 90 l/min
Optimal oil supply	50 l/min	65 l/min	85 l/min
Number of teeth	12	22	22
Drum diameter	205 mm	205 mm	205 mm
Fixed FD / variable VD displacement motor specifications	Gears FD	Gears FD	Gears FD
Transmission	Direct	Direct	Direct
Working pressure	170 ÷ 205 bars	170 ÷ 205 bars	170 ÷ 205 bars
Attachment operating weight*	295 Kg	535 Kg	555 Kg
Mounting bracket compatibility	HP 400	HP 900	HP 900

\*The attachment operating weight includes mounting bracket compatible with Indeco construction standards. Any differences in weight may be due to a different mounting bracket configuration.

Technical Data	IMH 8	IMH 10	IMH 14
Type of carrier	1 3 4	1 3 4	1 3 4
Cutting width	765 mm	915 mm	1015 mm
GPM range	65 ÷ 105 l/min	65 ÷ 105 l/min	95 ÷ 145 l/min
Optimal oil supply	90 l/min	90 l/min	115 l/min
Number of teeth	22	26	38
Drum diameter	205 mm	205 mm	205 mm
Fixed FD / variable VD displacement motor specifications	Piston FD	Piston FD	Piston FD
Transmission	Direct	Direct	Direct
Working pressure	205 ÷ 275 bars	240 ÷ 340 bars	240 ÷ 340 bars
Attachment operating weight*	595 Kg	735 Kg	1045 Kg
Mounting bracket compatibility	HP 900	HP 900	HP 1200

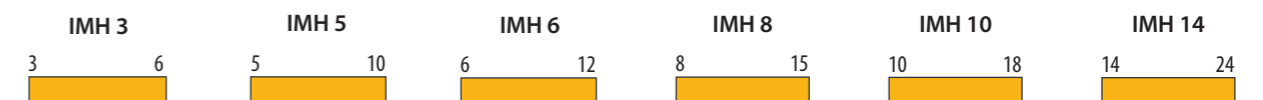
N.B. All illustrations and numerical data in this catalog are purely indicative and subject to change at our discretion and without notice. We therefore reserve the right to modify them with a view to improving and continuously developing our product.

### Carrier key



### Compatibility

Suggested uses on machines with an overall weight (in tons):



# IMH for excavators



Technical Data	IMH 20
Type of carrier	<b>4</b> <b>5</b>
Cutting width	1070 mm
GPM range	130 ÷ 200 l/min
Optimal oil supply	170 l/min
Number of teeth	42
Drum diameter	305 mm
Fixed FD / variable VD displacement motor specifications	Piston VD
Transmission	Belt
Working pressure	240 ÷ 340 bars
Attachment operating weight*	1495 Kg
Mounting bracket compatibility	HP 2000 - HP 2500

\*The attachment operating weight includes mounting bracket compatible with Indeco construction standards. Any differences in weight may be due to a different mounting bracket configuration.



Technical Data	IMH 28
Type of carrier	<b>5</b>
Cutting width	1070 mm
GPM range	190 ÷ 260 l/min
Optimal oil supply	235 l/min
Number of teeth	42
Drum diameter	305 mm
Fixed FD / variable VD displacement motor specifications	Piston VD
Transmission	Belt
Working pressure	240 ÷ 340 bars
Attachment operating weight*	1540 Kg
Mounting bracket compatibility	HP 2000 - HP 2500

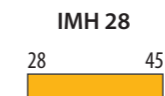
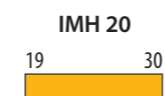
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## Carrier key



## Compatibility

Suggested uses on machines with an overall weight (in tons):





# IMH for Skid Steers



## Technical Data

### IMH 4.2 SS

Type of carrier	<b>2</b>
Cutting width	1525 mm
GPM range	130 ÷ 200 l/min
Optimal oil supply	170 l/min
Number of teeth	46
Drum diameter	205 mm
Fixed FD / variable VD displacement motor specifications	Piston VD
Transmission	Belt
Working pressure	240 ÷ 340 bars
Attachment operating weight*	1400 Kg
Mounting bracket compatibility	SS Standard

\*The attachment operating weight includes mounting bracket compatible with Indeco construction standards. Any differences in weight may be due to a different mounting bracket configuration.

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## Carrier key



Compact excavator



Miniloader



Backhoe loader



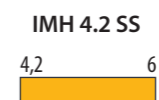
Wheeled excavator



Tracked excavator

## Compatibility

Suggested uses on machines with an overall weight (in tons):





# IMH SG

## Stump Grinders

When the going gets tough, it's time for the tough to enter the field. The IMH SG stump grinders are ideal tools to complete deforestation operations after cutting down tall trees. In fact, after the felling of a tree it may be necessary to remove the stump of plants that has remained in the ground for reasons of aesthetics or safety, in particular to counteract the phenomenon of soil erosion. With use of the stump grinder, both the costs associated with this removal and the relative price for disposal are reduced as well as feeding the deforested land with the shavings of the milled stump. Available in two different models for machines from 16 to 45 tons, they guarantee ease of use and maximum effectiveness in mulching operations.



### Technical Data

	IMH SG16	IMH SG20
Type of carrier	4 5	4 5
GPM range	90 ÷ 155 l/min	150 ÷ 230 l/min
Number of teeth	12	12
Fixed FD / variable VD displacement motor specifications	Piston FD	Piston FD
Transmissions	Belt	Belt
Working pressure	240 ÷ 340 bars	205 ÷ 340 bars
Attachment operating weight*	840 Kg	840 Kg

\*The attachment operating weight includes mounting bracket compatible with Indeco construction standards. Any differences in weight may be due to a different mounting bracket configuration.

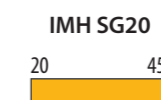
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### Carrier key



### Compatibility

Suggested uses on machines with an overall weight (in tons):





# Appetite guide

The Indeco IMH hydraulic mulching heads allow the quick and lasting removal of unwanted vegetation of all types, including bushes, shrubs, trunks, roots and tree stumps after cutting. The data below refer to the maximum mulching diameter for each model under normal conditions. The data may vary in relation to


factors such as the hardness of the wood, the type and state of the cutters on the machine cylinder, the characteristics of the excavator and the competence of the operator. Correct maintenance is also essential for optimal performance of the mulching head.

## IMH for compact excavators


	IMH 3	IMH 5	IMH 6
 Maximum mulching diameter	50-75 mm	100-155 mm	100-155 mm

	IMH 8	IMH 10	IMH 14
 Maximum mulching diameter	100-155 mm	130-180 mm	255-380 mm

## IMH for excavators

	IMH 20	IMH 28
 Maximum mulching diameter	305-380 mm	305-380 mm

## IMH for Skid Steers

	IMH 4.2 SS
 Maximum mulching diameter	205-255 mm

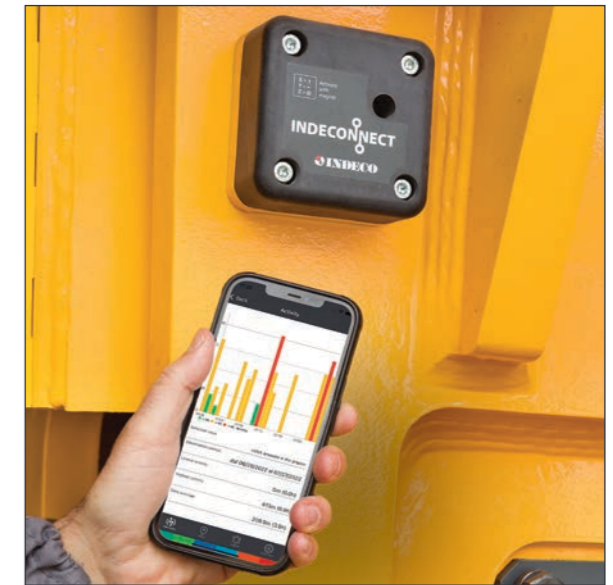
# Accessories

## Indeconnect system

New remote monitoring system, based on the principles of the Internet of Things, to prevent equipment obsolescence and keep high performance. The 'Indeconnect' system consists of a **device** equipped with 4G technology for a wireless connection to the network, to be mounted on the equipment, and a cloud-based **web platform** you can access from mobile devices (with an app) or from PC, that lets you view the data transmitted in real time by each installed device: working hours, working position in space, hydraulic oil temperature, ambient temperature, GPS position, and more.

Through Indeconnect you can:

- **Monitor productivity**, making sure each Indeco tool is working as intended
- **Check operations**, verifying in real time the various internal and external parameters of the equipment to make sure that it is used in optimal conditions and correctly
- **Increase security**, by remotely checking the position of the equipment through GPS
- **Plan maintenance**, monitoring the health of each Indeco tool in real time, also through the automatic alert and messaging system that lets you order spare parts and reduce machine downtime to a minimum
- **Optimise rental**, by supervising and monitoring the management of rented equipment.





# The cutters

## 1 | Multi-purpose cutter

A heavy duty tool recommended for all types of mulching applications. It is highly productive for the mulching of shrubs, small-diameter tree trunks, bushes and branches. The operator is ensured an excellent combination of productivity and longevity of the high-performance cutter.

1 |



## 2 | Cobra cutter

A forest mulching tool for extremely heavy duty use, recommended for work in more demanding applications in the case of the prevalent presence of harder long-fibre woods, stumps external to the ground and larger diameter tree trunks. The initial surface of the smaller cutter facilitates deeper penetration, while the various lateral profiles of the tool facilitate yielding of the wood fibres and contribute to preventing possible slowing in mulching thicker logs.

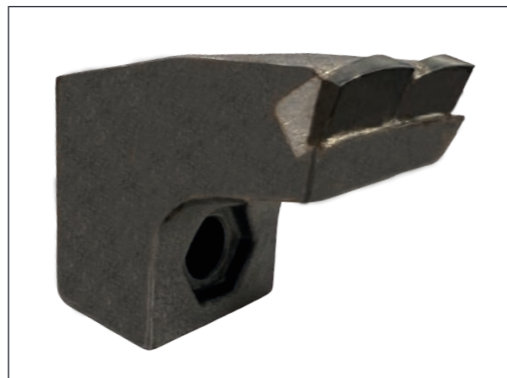
2 |



## 3 | Cutter with Tungsten Carbide



Tool with apical insert in Tungsten Carbide for use in special applications, where there is a greater presence of buried stumps, uneven ground, sand, debris or other hard and abrasive materials that could cause the premature wear of traditional steel tools. The Tungsten Carbide cutter is also recommended in applications where a finer mulch is required.

3 |





# Application areas

		IMH	SG	
 <p>Land Clearing</p>	Land clearing	• Right of way clearance and maintenance	<input type="radio"/>	
		• Power transmission/distribution line and substation clearance	<input type="radio"/>	
		• Railway maintenance	<input type="radio"/>	
		• Residential and farm clearing	<input type="radio"/>	
		• Highway maintenance	<input type="radio"/>	
		• Pipeline clearance	<input type="radio"/>	
		• Ski resorts and other speciality field maintenance	<input type="radio"/>	
		• Roadside maintenance	<input type="radio"/>	
 <p>Agriculture and Forestry</p>	Gardening & landscaping	• Fencing		
		• Ground excavation		
		• Rock breaking		
		• Pit planting		
		• Stump splitting		
		• Golf course maintenance	<input type="radio"/>	
		• Root and stump grinding		<input type="radio"/>
		• Hedgerow clearance and rejuvenation	<input type="radio"/>	
• Grinding of logging residues	<input type="radio"/>			
Forestry	• Timber log handling			
	• Maintenance of green area, small trees and brush	<input type="radio"/>		
	• Creation and upkeep of woodland corridors and firebreaks	<input type="radio"/>		
	• Tree clearing	<input type="radio"/>		
	• Vegetation clearing	<input type="radio"/>		
	• Branch clearing	<input type="radio"/>		





## The full range of other Indeco products

Products		Weight		Products		Weight		Products		Weight	
IFP	8 X	750	Kg	IHC	70	445	Kg	ISS***	20/30	3650	Kg
IFP	13 X	1300	Kg	IHC	75	485	Kg	ISS***	25/40	4800	Kg
IFP	19 X	1800	Kg	IHC	150	970	Kg	ISS***	30/50	6100	Kg
IFP	28 X	2800	Kg	IHC	250	1280	Kg	ISS***	35/60	7600	Kg
IFP	35 X	3450	Kg	IHC R	50	425	Kg	ISS***	45/90	10400	Kg
IFP	45 X	4550	Kg	IHC R	70	630	Kg	IRC***	20	2800	Kg
IRP	5 X	570	Kg	IHC R	75	670	Kg	IRC***	30	4200	Kg
IRP	11 X	1150	Kg	IHC R	150	1185	Kg	IMH	3	295	Kg
IRP	18 X	1700	Kg	IHC R	250	1520	Kg	IMH	5	535	Kg
IRP	23 X	2300	Kg	IMG S**	300	285	Kg	IMH	6	555	Kg
IRP	29 X	2950	Kg	IMG S**	400	380	Kg	IMH	8	595	Kg
IRP	36 X	3600	Kg	IMG S**	600	570	Kg	IMH	10	735	Kg
IRP	45 X	4500	Kg	IMG S**	1200	1140	Kg	IMH	14	1045	Kg
IMP*	15	1500	Kg	IMG S**	1700	1610	Kg	IMH	20	1495	Kg
IMP*	20	2080	Kg	IMG S**	2300	2180	Kg	IMH	28	1540	Kg
IMP*	25	2400	Kg	IMG S**	2800	2650	Kg	IMH	4.2 SS	1400	Kg
IMP*	35	3500	Kg	ISS***	5/7	570	Kg	IMH	SG16	840	Kg
IMP*	45	4500	Kg	ISS***	8/13	1250	Kg	IMH	SG20	840	Kg
IHC	50	200	Kg	ISS***	10/20	2400	Kg				

\*Crusher configuration - \*\*Sorter configuration - \*\*\*Third-member configuration



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