

FIRST QUALITY BRAND

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SUGGESTIONS FOR TECHNICAL AND PURCHASE DEPARTMENTS

A quick choice of the tools suggested on board for both new ships and the ones already in service

DRY CARGO BOATS:

<u>DECK DEPARTMENT</u> (not equipped with air line on the deck)

- -electric chipping hammer
- -electric deck scaling machine for large surfaces
- -electric derrick for provisions and stores from 500 to 2.000 kgs
- electric fans several types

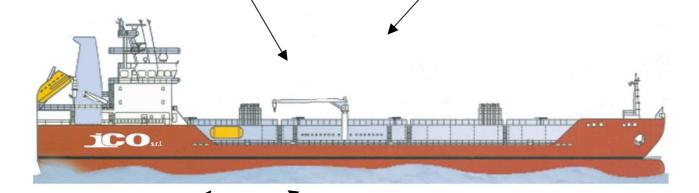
<u>DECK DEPARTMENT</u> (equipped with air line on deck)

- -pneumatic 1,3,5-piston hammer
- -pneumatic deck scaling machine for large surfaces
- -pneumatic angle, vertical, horizontal grinding machine
- -pneumatic sump pump turbine type
- -pneumatic diaphragm pump several types
- -pneumatic sandblasting machine
- -pneumatic needle chisel
- -pneumatic chisel
- -pneumatic or electric winch
- -pneumatic fans several types
- -high pressure cleaning device
- garbage compactor

TANKER SHIP

DECK DEPARTMENT

- -pneumatic 1,3,5-piston hammer
- -pneumatic deck scaling machine for large surfaces
- -pneumatic mucking winch from 80 to 300 kgs
- -pneumatic spark-proof lamp
- -pneumatic sandblasting machine
- -pneumatic sump pump turbine type
- -pneumatic angle, vertical, horizontal grinding machine
- -pneumatic crane for provisions
- -fans several types
- -high pressure cleaning device
- garbage compactor



ENGINE DEPARTMENT

- -pneumatic transfer pump
- -pneumatic diaphragm pump several types
- -pneumatic pipe-cleaning equipment
- -pneumatic bolt driver for different kinds of nuts and bolts
- -pneumatic angle, vertical, horizontal grinding machine
- -pneumatic drill

ENGINE DEPARTMENT

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- -pneumatic angle, vertical, horizontal grinding machine
- -pneumatic drill
- -pneumatic universal chisel

SCALING PISTON HAMMER

These hammers can be equipped with pistons in hardened steel, spark-proof bronze or tungsten carbide.

1 PISTON HAMMER

IMPA CODE 59.03.82 I.CO. CODE 800-0 X2 NEW TYPE

3 PISTON HAMMER

IMPA CODE 59.03.83 I.CO. CODE 797-0 NEW TYPE







7 PISTON HAMMER

IMPA CODE: 59.03.- - I.CO. CODE: 16100-7

IMPA CODE		59.03.82	59.03.83	59.03
ICO CODE		800-0 X2 N.T.	797-0 N.T.	16000-
Pistons	N.	1	3	7
Head Width	mm	96	98	215
Scaling Width	mm	25	80	170
Strikes per min	N.	5700	7000	2000
Feeding pressure	Bar	5	5	6-8
Air consumption	l/min	350	700	1400
Air inlet connecter	Diam	1/2"	1/2"	3/4"
Air hose	Diam	13mm	13mm	19mm
Weight	Kg	2,5	3,7	48,0

FOR 1 PISTON HAMMER

IMPA CODE 59.03.87 I.CO. CODE 800-2 N.T.



FOR 3 PISTON HAMMER

IMPA CODE 59.03.88 I.CO. CODE 797-2 WIDIA



FOR 7 PISTON HAMMER

IMPA CODE 59.03.8-I.CO. CODE 16000-39



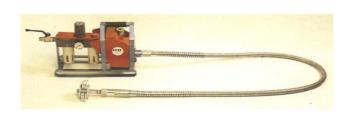
CHIPPING HAMMER "ICOFLEX"

The main feature of this machine is scraping rust and paints from any metal surface. It can also be transformed into a versatile tool able to perforate, cut and grind. There are many kinds of tools, according to the type of work, all interchangeable on the flexible shaft.

ELECTRIC type CHIPPING HAMMER
IMPA CODE: 59.12.43-44-11-12
I.CO. CODE 2240-S1 / 2100-S1 / 2240-TRF-S1



PNEUMATIC CHIPPING HAMMER IMPA CODE: 59.12.82 I.CO. CODE 12550



ТҮРЕ	PNEUMATIC	ELECTRIC AC Single phase	ELECTRIC AC Three phase	ELECTRIC DC	Technical Features:
IMPA CODE	59.12.82	59.12.44	59.12.43	59.12	COMPLETE CHIPPING HAMMER - TYPE 'S1' EITHER
ICO CODE	12550	2240-S1	2240-TRF-S1	2100-S1	ELECTRIC OR PNEUMATIC - IS COMPOSED OF:
Power [hp]	1,5	1,0	1,0	0,8	- N.1 ELECTRIC/PNEUMATIC MOTOR
Speed [g/min]	3000	2800	2800	2700	- N.1 FLEXIBLE SHAFT - N.1 THREE-CUTTER CHIPPING HEAD
Voltage [V]	-	110/220	24/48/110/ 220/380/440	110/220	- N.1 NINE-HAMMER CHIPPING HEAD - N.6 PINS FOR ABOVE
Feeding Pressure [Bar]	7	-	-	-	 N.1 SAFETY GUARD NOTE: Different types of tools, adaptors for flexible s
Frequency [Hz]	-	50/60	50/60	-	and spare parts for JAPANESE, ENGLISH, GERMAN and
Weight [Kg]	28	15	14	23	AMERICAN chipping hammers are available.

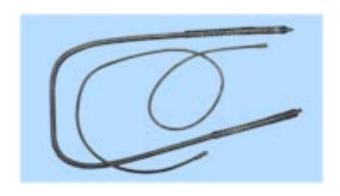
FLEXIBLE SHAFT AND SPARE PARTS

Flexible shaft made of either galvanized steel or rubber coated sheath, standard length 2,5 m - tool connection 5/8" W - special lengths and connections on request.

COMPLETE FLEXIBLE SHAFT:

IMPA CODE I.CO. CODE

59.19.21 2220-ZN WITH GALVANIZED STEEL SHEATHING



HANDLE SPINDLE

IMPA CODE 59.19.23 I.CO. CODE 2220-3 HANDLE IMPA CODE 59.19.24 I.CO. CODE 2220MN



CHIPPING HAMMER "ICOFLEX" - ACCESSORIES

SIX HAMMER HEAD IMPA CODE 59.19.31 I.CO. CODE 2000-5M



THREE CUTTERS HEAD IMPA CODE 59.19.34 I.CO. CODE 2000-5F



3 HOLE FLANGEIMPA CODE 59.19.37
I.CO. CODE 2000-23



PIVOT FOR HAMMERS IMPA CODE 59.19.40 I.CO. CODE 2000-26



SPINDLE FOR THREE CUTTER HEAD
IMPA CODE 59.19.43
I.CO. CODE 2000-21



NINE HAMMER HEAD ISSA CODE 59.19.32 I.CO. CODE 2000-2M



SIX CUTTERS HEAD IMPA CODE 59.19.35 I.CO. CODE 2000-4F



6 HOLE FLANGE IMPA CODE 59.19.38 I.CO. CODE 2000-28



PIVOT FOR CUTTERS IMPA CODE 59.19.41 I.CO. CODE 2000-22



SPINDLE FOR NINE HAMMER HEAD
IMPA CODE 59.19.44
I.CO. CODE 2000-25



TWELVE HAMMER HEAD IMPA CODE 59.19.33 I.CO. CODE 2000-1M



I.CO. STEEL HAMMER IMPA CODE 59.19.36 I.CO. CODE 2000-19



I.CO. STEEL CUTTER IMPA CODE 59.19.39 I.CO. CODE 2000-24



SPINDLE FOR WIRE BRUSH AND CUP WIRE BRUSH IMPA CODE 59.19.42 I.CO. CODE 2000-29-C / T



DOUBLE SPINDLE CENTRE PIN FOR 12 HAMMER & DOUBLE WHEEL

IMPA CODE 59.19.45 I.CO. CODE 2000-27



CHIPPING HAMMER "ICOFLEX" - ACCESSORIES

DOUBLE WIRE BRUSH
IMPA CODE 59.19.46
IMPA CODE 59.19.47
I.CO. CODE 2000-62R or S
2000-6/2R: TWISTED WIRE or





SAFETY GUARD IMPA CODE 59.19.54 I.CO. CODE 2000-11



WIRE CUP BRUSH
IMPA CODE 59.19.48
IMPA CODE 59.19.49
I.CO. CODE 2000-7R or S
2000-7R: TWISTED WIRE or
2000-7S: SINGLE WIRE





CIRCULAR SAW IMPA CODE 59.19.55 I.CO. CODE 2000-10



WIRE WHEEL BRUSH
IMPA CODE 59.19.50 (R)
IMPA CODE 59.19.51 (S)
I.CO. CODE 2000-6R or S
2000-6R: TWISTED WIRE or
2000-6S: SINGLE WIRE





SPINDLE WITH CONNECTION ISSA CODE 55.100.40 I.CO. CODE 2000-8



EMERY WHEEL ISSA CODE 55.100.41 I.CO. CODE 2000-9



LARGE SURFACES RUST REMOVAL MACHINES

This machine is designed for efficient removal of rust, paint and old covering from large surfaces. It's easy to control by the operator, thus improving quality and quantity of work. According to the need, there are many different types of completely interchangeable tools that can be applied to the standard drum. It's also possible to apply steel-wire, brass or nylon brushes etc.

ELECTRICIMPA CODE 59.19.65-66-68-69
I.CO. CODE 11500-0-200MM or 0-300MM

PNEUMATIC IMPA CODE 59.19.61-63 I.CO. CODE 11400-0-200 or 0-300MM



ТҮРЕ		IMPA CODE	I.CO. CODE	IMPA CODE	I.CO. CODE
Pneumatic		59.19.61	11400-0-200	59.19.62	11400-0-300
Electric		59.19.65	11500-0-200M	59.19.66	11500-0-300
CHARACTERISTICS:					
Scaling width	mm	2	200	30	00
min. drum/wall distance	mm		45	4	5
Efficiency	m²/h		70	10	00
drum speed	rpm	1	700	17	00
connection for dust suction diam.	mm		40	4	.0
CHARACTERISTCS OF THE MOTOR:					
- PNEUMATIC MOTOR					
Air feeding press.	Bar		6	(3
Consumption abt 120cbm/hr	HP		5	!	5
- ELECTRIC MOTOR KW 2.2					
A.C Single phase or threephase—Hz 50/60					
V. 110/220/380/440 *	HP		3	;	3
- Pneumatic	Kg		65	7	0
- Electric	Kg		43	4	.8
Overall dimensions	mm	355 x 1	200 h.950	455 x 12	00 h.950
* different voltages on request.					

RUST REMOVAL MACHINES - ACCESSORIES

HOW TO ORDER:

IMPA CODE	I.CO. CODE	
59.19.61	11400-0-200	PNEUMATIC VERSION 200 mm
59.19.62	11400-0-300	PNEUMATIC VERSION 300 mm
59.19.64	11500-0-200M	ELECTRIC VERSION 200 mm (specify power supply)
59.19.65	11500-0-300M	ELECTRIC VERSION 300 mm (specify power supply)

SPARE PARTS FOR LARGE SURFACE RUST REMOVER

STAR CUTTER DRUM

IMPA CODE I.CO. CODE

59.19.71 11700-0-S-200 200mm DRUM 59.19.72 11750-0-S-300 300mm DRUM



STAR CUTTER



TUNGSTEN CARBIDE DRUM

IMPA CODE I.CO. CODE

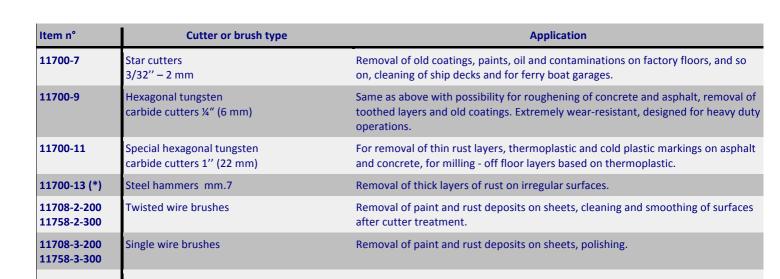
59.19.73 11700-0-W-200 200mm DRUM 59.19.74 11750-0-W-300 300mm DRUM



T.CARBIDE CUTTER



IMPA CODE	I.CO. CODE	STEEL WIRE BRUSH
59.19.77	11708-2-200	200mmBRUSH - TWISTED WIRE
59.19.78	11708-3-200	200mm BRUSH - SIMPLE WIRE
59.19.79	11758-2-300	300mm BRUSH - TWISTED WIRE
50 10 80	11758_3_300	300mm RDIISH - SIMDLE WIDE



(*) Use the centering bushes

These are indicative suggestions: the best choice is done with testes.

RUST REMOVAL MACHINES - ACCESSORIES

SPECIFICATION OF SPARE PARTS

DRUM BODY IMPA CODE: 59.19.81-82 I.CO. CODE: 117001 & 11750-1



Flange IMPA CODE: 59.19.83 I.CO. CODE 11700-2



Star cutter IMPA CODE: 59.19.89 I.CO. CODE 11700-7



Tungsten carbide cutter **IMPA CODE:** 59.19.90 I.CO. CODE 11700-9



Washer IMPA CODE: 59.19.88 I.CO. CODE 11700-6



Steel Cutters IMPA CODE: 59.19.92 I.CO. CODE 2000-24



Steel hammer IMPA CODE: 59.19.91 I.CO. CODE 11700-13



Bush for hammer IMPA CODE: 59.19.93 I.CO. CODE 11700-13B



IMPA CODE	I.CO. CODE	PART NAME
59.19.81	11700-1	Drum body 200 mm
59.19.82	11750-1	Drum body 300 mm
59.19.83	11700-2	Flange
59.19.84	11700-3	Cutter shaft (for 200 mm)
59.19.85	11750-3	Cutter shaft (for 300 mm)
59.19.86	11700-4	Screw for flange
59.19.87	11700-5	Elastic washer
59.19.88	11700-6	Washer
59.19.89	11700-7	Star cutter
59.19.90	11700-9	Tungsten carbide cutter
59.19	11700-11	Tungsten carbide widia cutter (on request)
59.19.91	11700-13	Steel hammer



DESCRIPTION	IMPA CODE	I.CO. CODE	Number for drum 200 mm		Nu	ımber for drum 300 mm
			cutters	washers	cutters	washers
Star cutters	59.19.89	11700-7	280	24	450	32
Carbide cutters	59.19.90	11700-9	68	80	108	148
Steel cutters	59.19.92	2000-24	38	10	60	32
Hammers	59.19.91	11120-13	56	//	104	//
Bushes for hammers	59.19.93	11700-13B	//	12	//	16

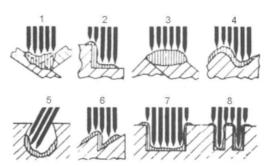
PNEUMATIC RATTLING NEEDLE CHISEL

Equipment suitable for chipping rust, old paints, welding, casting scales and various foulings from irregular, angular or bent surfaces. Each needle is independent from the other, thus permitting a perfect adherence to all irregular surfaces, with guarantee of very accurate cleaning. Due to the possibility of using spark proof needles, the machine is suitable for use in environments with risk of explosion.

PNEUMATIC RATTLING NEEDLE CHISEL IMPA CODE: 59.05- - ICO CODE 12200-0 Type 'A'/24







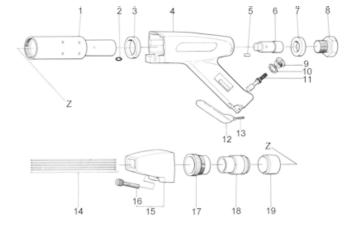
I.CO. CODE		12200-23E	12200-28E	12200-L
Handle type		Pistol	Pistol	Straight
Blows per minute	Rpm	3500	3500	4600
Air consumption	m³/min	0,22	0,25	0,25
Air pressure	Bar	6	6	6
Connection	Inch	3/8"gas	3/8" gas	¾" gas
N° of Needles	mm	Diam 2 x 53 pcs Diam 3 x 23 pcs	Diam 2 x 66 pcs Diam 3 x 28 pcs Diam 4 x 14 pcs	Diam 3 x 19 pcs
Needles Length	mm	180	180	180
Overall Length	mm	348	360	457
Weight	Kg	2,70	3,50	2,80

TECHNICAL DIAGRAM WITH SPECIFICATION OF SPARE PARTS:

IMPA CODE	I.CO. CODE	N°	Part Name	Q'ty
TP02241	12200-48	1	Cylinder	1
TP11992	12200-43	2	O Ring KS-9	1
TP02250	12200-50	3	Front Washer	1
TA90904	12200-01	4	Housing Sub Ass'y	1 set
TP01478	12200-23	5	Cylinder Lock Pin	1
TP02242	12200-24	6	Piston	1
TP02249	12200-22	7	Rear Washer	1
TA93278	12200-13	8	Rear Plug Ass'y	1
TP00389	12200-19	9	Valve Cap	1
TP00388	12200-4B	10	Valve Packing	1
TA90037	12200-4 and 18	11	Throttle Valve Ass'y	1 set
TP01557	12200-2	12	Throttle Lever	1
TQ00563	12200-6	13	Spring Pin 3x 20	1
59.04.68	12200-41	14	Needle Ø 3×180 mm	23
TA93189	12200-49	15	Needle Guide Ass'y	1 set
TQ01484	12200-39	16	Hexagon Socket Head Bolt 8×35	1
TP02246	12200-51	17	Lock Ring	1
59.04.76	12200-29 and 31	18	Needle Supporter Ø 3	1
TP02243	12200-28	19	Throttle Anvil	1

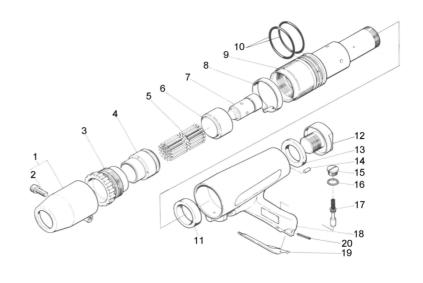
"JEX 24"

IMPA CODE: 59.05.36 I.CO. CODE 12200-23E



N°	Part Name	Q'ty
1	Round Needle Guide Ass'y	1 set
2	Hexagon Socket Head Bolt 8 x 25	1
3	Stop Ring	1
4	Needle Supporter diam 3	1
5	Needle Ø 3×180 mm	28
6	Throttle Anvil	1
7	Piston	1
8	Safety Band	1
9	Cylinder	1
10	O Ring W-4	2
11	Front Washer	1
12	Rear Bolt Ass'y	1 set
13	Rear Washer	1
14	Cylinder Lock Pin	1
15	Valve Cap	1
16	Valve Packing	1
17	Throttle Valve Ass'y	1 set
18	Housing Sub Ass'y	1 set
19	Throttle Lever	1
20	Spring Pin 3×20	1
	Hex. Wrench Key	1
	Needle Ø 4×180 mm	14
	Reducer M16 × NPT 3/8	1
	Needle Supporter Ø 4	1
	Hose Nipple NPT 3/8 x 3/8	1
	Needle Ø 2×180 mm	66
	Needle Supporter Ø 2	1

"JEX 28"
IMPA CODE:
I.CO. CODE: 12200-28E



ELECTRIC NEEDLE CHISEL

CODICE IMPA: 59.12.- - CODICE ICO: ICO-32A



Technical features:

-power source (single phase) 220 V. / 240 V. – 50/60 Hz.

-rated power consumption: 200 W.

-rated time: 30 min

-stroke speed: 3,000 min / 1'

-needle: 32 (2x 180 mm) or 15 (3x180 mm) + n. 30 needles 3 x 180

mm + n. 1 needle holder for needles Ø 2

-mass (weight): 4.5 kg

-sound pressure level: no load 84.6 dB(A) / load 84.9 dB(A)

-sound power level: no load 95.6 dB(A) / load 95.9 dB(A)

-vibration emission value: motor 32.7 m/s2 – handle 25.2 m/s2

UNIVERSAL PNEUMATIC CHISEL AND CHIPPER

Powerful hammers for general chipping and calking weld line, paint and rust removing in limited space. Compact chippers in light weight pistol handle or straight handle, supplied with flat chisel.



IMPA CODE		59.24.22	59.24.23
I.CO. CODE		850-00	850-L
Blows per min	N°	2000	2100
Piston Stroke	mm	30	89
Piston size	mm	Ø 24,5×69,5	Ø 19×60
Hose Connection	Inch	½" gas	½" gas
Air Hose Ø	mm	13	13
Air Pressure	Bar	6	6
Air Consumption	l/min	300	200
Overall length	mm	400	350
Weight	Kg	2,5	2,0
Spring retainer	mm	Ø 14	Ø 10

INTERCHANGEABLE TOOLS:

IMPA CODE	I.CO. CODE	Drawing	Description & Use
59.24.26	850-26		Normal chisel mm. 50: suitable to eliminate foundry & welding burrs, devel edges & light jobs.
59.24.27	850-27A		Sheet shearing chisel: suitable for cutting rolled sheets mm. 1,5 - 2 thick.
59.24.28	850-27B		Triangle cross cut chisel: suitable to eliminate fusion & welding blowholes & to prepare triangle grooves for welding.
59.24.29	850-27C		Mason's point: suitable for drilling concrete or brick walls.
59.24.30	850-27E		Nail punch: suitable to punch flat head nails against the plate to obtain better tightness.
59.24.31	850-27D		Rammer: suitable to caulk plates.
59.24.32	850-27F		Wails: suitable for rivetting

Special tools will be made on request.

ICO PNEUMATIC GRINDING AND BRUSHING MACHINE Mod. 4", 7" and 9"

The pneumatic grinding/brushing machine is suitable for sanding, rust removing, rough grinding and cutting. A wide range of models and tools is available for the various needs and applications. It's particularly suitable for heavy duty work in difficult conditions and can be equipped with grinding wheels, brushes, abrasive and cutting disks, polishing wheels and flexible fiber-pads for application of sandpaper, sand-cloth, felt polishing skin, etc.

IMPA CODE 59.03.01 I.CO. CODE 3602-00-E-4 **VERTICAL TYOE - MOD. 4"**



IMPA CODE 59.03.02 I.CO. CODE 3602-00-E-7 VERTICAL TYPE - MOD. 7"



IMPA CODE 59.03.03 I.CO. CODE 3602-00-E-9 VERTICAL TYPE - MOD. 9"



I.CO. CODE		3602-00-E-4	3602-00-E-7	3602-00-E-9
Model		4"	7"	9"
Disk capacity	mm	22x125	22x180	230
Speed	RPM/min	12.000	7.000	6.000
Recommended air pressure	bar	6,2	6,2	6,2
Air connection		3/8"	1/2"	1/2"
Inner diameter air tube	mm	10	13	13
Average air consumption	l/sec	9	18	33,3
Weight	Kg	1,8	3,5	5,1
Lenght	mm	225	338	185
Sonorous pressure (PNEUROP8N-1)	DbA	84	97,8	95
Vibrations (ISO 8662-1)	m/sec2	2,5	3,56	8,7



PNEUMATIC GRINDING AND BRUSHING MACHINE - HORIZONTAL TYPE

Suitable for grinding and brushing using grinding stones and cylindrical brushes with overall max. diam mm 150.

IMPA CODE 59.03.33 I.CO. CODE 200-0



IMPA CODE		59.03.33
I.CO. CODE		200-0
Version		BRUSH/ GRINDER
Wheel max Ø	mm	100/150
Speed	RPM	5000
Tool spindle Ø	mm	Ø 12 / 16
Hose connection	Inch	1/2"
Normal working pressure	Atm	6/7
Overall length	mm	510
Weight	Kg	3,5

HIGH PRESSURE CLEANING SYSTEMS

A complete range of multipurpose high quality systems. Hot and Cold water system available together with a complete range of accessories.

IMPA CODE: 59.07.--/08.--I.CO. CODE: HYDRO 70 & UP

Power	HJ24	HJ22	HJ53	HJ100
Water System	COLD	НОТ	COLD	COLD
Motor	3-phase	3-phase	3-phase	3-phase
Voltage	400 V.	400 V.	400 V.	400 V.
Power Comsumption	9,0 Kw.	7,0 Kw.	23,0 Kw.	30 Kw.
Capacity	1.400 l/h	950 l/h	1.500 l/h	1.000 l/m
Sizes L x W x H	700x600x720	1020x620x850	960x780x860	1275x580x1090
Working Pressure	230 BAR	210 BAR	500 BAR	1.000 BAR
Weight	95	150	260	450

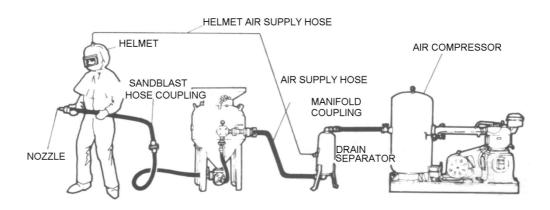


PNEUMATIC SANDBLASTER

Suitable for removal of rust, dirt, corrosion, old paint etc. from metal, plastic, concrete, stone, brick and glass surfaces. Ideal for efficient and continuous work - cleaning any hard surface quickly and preparing it perfectly for repainting without further preparation.

Available in a wide variety of models.

Versions listed below are standard, with usual accessories. Special equipments on request. Air compressors are to be ordered separately.



"SUPERBABY" PORTABLE TYPE
IMPA CODE 59.08.94
I.CO. CODE 300-00



IMPA CODE 59.08.___ I.CO. CODE 300-PA

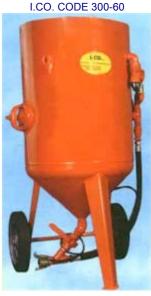


Special spray gun designed for neutralising the dust and the sparks produced by sanding operation.

The equipment is supplied with standard operative and protective accessories.

Special accessories on request.

60 LT. SANDBLASTER IMPA CODE 59.08.95



Technical Features

IMPA CODE		59.08.94	59.08.95
I.CO. CODE		300-00	300-60
Capacity	-1	25	60
Rated pressure	bar	6	8
Overall height	mm	850	980
Overall Ø	mm	300	450
Weight	Kg	46	72

Specifications of air consumption and efficiency:

Diameter of nozzle	mm	5-6	6-8	6-12
Air consumption	m³/min	1,0-2,4	2,4-5,0	2,4-12,0
Working surface	m²/hr	6,5-10	10-20	10-35

DRILLING MACHINE

Suitable for use on light and medium duty drilling. An air regulator located on the grip handle controls the power, adjusting it to different drilling surfaces.

Technical Features:

IMPA CODE		59.03.42	59.03.47	59.03.48	59.03.51
I.CO. CODE		AR-X10	AR-X13	AR-X16	AR-X22
bit capacity – Ø	mm	10	13	16	22
Speed no-load	rpm	2000	1500	900	600
Recommended air pressure	Kgf/cm ²	6,0	6,0	6,0	6,0
Air connection		3/8"	3/8"	1/2"	3/4"
Internal air pipe Ø	mm	10	10	13	19
Air Consumption	m ³ /min	0,55	0,65	1,1	1,1
Power	kW	0,44	0,53	0,96	0,96
Length	mm	156	187	433	433
Weight	Kg	1,1	2,6	5,5	5,5

1/2" Reversible Air Drill
with rack chuck of 13 mm
IMPA CODE: 59.03- I.CO. CODE: ARX-10, ARX-13, ARX-16 & ARX-22



PNEUMATIC IMPACT WRENCH / PNEUMATIC BOLT DRIVER

Designed for fast and efficient removal or fastening of nuts. Reversible action. Powerful, solid, compact and extremely durable.







I.CO. produces, as well as the indicated special Impact Wrenches for marine engine bolts, also the entire range of Pneumatic Impact Wrenches, with tightening torque from Kgm 20 to Kgm 2400 - with bush connections from 1/2" to 2½".

Special pneumatic impact wrenches for marine engine bolts technical features:

IMPA CODE		59.01.01	59.01.05	59.01.06	59.01.07	59.01.08	59.01.09	59.01.10
I.CO. CODE		A2	А3	A4	A5	A6-0	A6-1	A6-2
Bolt shank Ø	mm	10-16	12-22	16-28	20-36	27-45	30-80	50-110
Tightening torque	Kgm	20-40	50-120	102-230	150-330	540	210-815	550-2400
Square bush connect		1/2"	3/4"	1"	1"	1 ½"	1 ½" - 2"	2 ½"
Air inlet		3/8"	1/2"	1/2"	1/2"	3/4"	3/4"	1"
handle type		gun	gun/ rear closed	gun/ rear closed	gun/ rear closed	rear closed	two handles	two handles
Weight	Kg	2,5	4,8	7,9	11	16	32	69

AIRLESS VARNISH SPRAYING—HIGH PRESSURE

The spray-paint system K30 is an airless piston pump with high delivery pneumatic motor which, generating high pressure, atomizes perfectly any kind of varnish with no air.

- Paint atomization adjustable from 0 to 240 bar
- Smoke lessness
- Direct suction from tank
- 5 Lt. overhead tank for small amounts
- Nozzle have dimension from 0.007" to 0.026"
- Hard metal valves with stainless seats and balls
- First-class packings
- Pneumatic motor with mechanical exchanger
- Low cost of maintenance and long duration
- Easy to use

IMPA CODE	I.CO. CODE	Delivery	Ratio	Max Pressure	Feeding Pressure	Weight
27.03	1000-R30-1	61	30:1	240 bar	8 bar	24 Kg

The high pressure pneumatic pump permits to make use of points at lowthinner content reducing a lot the work place pollution and helping the drying of the points.



LONG SPRAY GUN



IMPA CODE

27.03.- -

27.03.- -

27.03. - -

I.CO. CODE

1002-L/I Long spray gun m 0,9 1002-L/15 Long spray gun m 1,5

1002-L/20 Long spray gun m 2,4

PNEUMATIC DOUBLE DIAPHRAGM PUMP



The pneumatic diaphragm pump is flame proof, with adjustable capacity, equipped with exhaust mufflers and built-lubricating device. Suitable for work: in suction, immersed, self-priming. It can be portable or fixed. It does not requiauxiliary components. Resistant and reliable for heavy duty work.

It pumps liquids with high percentage of solid particles in suspension and is suitable for all kinds of products, such as c chemicals, dirty water, etc. The pump has a very low maintenance cost thanks to its simple construction and few movi parts that can be easily detached and re-fitted.

The pump's parts in contact with the fluid can be in polypropylene, aluminium, cast iron or stainless steel; and the diaphragms can be made of Neoprene, Buna-N, Viton

Technical Features:

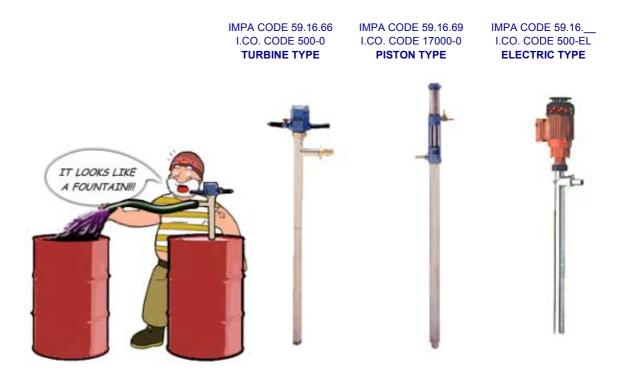
recillical realures.					
IMPA CODE		59.16.01	59.16.02	59.16.03	59.16.04
I.CO. CODE	_	12450-T2	12450-T4	12450-T8	12450-T15
Overall dimensions	mm	180x270x270h	300x 360x 460h	340x 400x 670h	460x 510x 820h
Weight	Kg	10	16	30	55
Head	m		65	65	65
Suction Lift Dry	Sec	18	22	20	20
Wet	Sec	25	27	25	25
Feeding	Atm	7	7	7	7
Standard diaphragms					
Air inlet	Ø	1/4"	3/8"	1/2"	1/2"
Liquid outlet	Ø	3/4"	1 ¼"	2"	3"
Liquid suction	Ø	1"	1 ½"	2"	3"
Delivery mt. 10	I/min		abt 230	abt 450	abt 680
Delivery mt. 30	I/min		abt 150	abt 300	abt 580
Delivery mt. 60	I/min		abt 65	abt 80	abt 340
Max. Ø solid particles	mm	3	5	8	10

A STANDARD LINE WITH SPECIAL ECONOMY PRICES IS AVAILABLE

PNEUMATIC PORTABLE TRANSFER PUMP

The TURBINE TYPE are strongly built equipments. Engine body in light alloy, tube set in steel or stainless steel. Suitable rapid transfer of oil, acid, solvent, fluids in general, from drum or other containers.

The PISTON TYPE are strongly built equipments. Engine body in light alloy, pistons in steel or stainless steel, seals in teflon, tube set in steel or stainless steel. Suitable for rapid transfer - even in aspiration - of oil, acid, solvent and other liquids, every thick. The pump can be supplied in special versions - silenced according to EEC regulations or in electric version.



Technical Features:

IMPA CODE		59.16.66	59.16.67	59.16.68	59.16.69	59.16
I.CO. CODE		500-0	500-00	17000-0	17000-00	500-EL
TYPE		TUF	RBINE	PI	STON	ELECTRIC
Tubset material		STEEL	STAINLESS STEEL	STEEL	STAINLESS STEEL	STAINLESS STEEL
Tubset Ø	mm	40	or 48		54	50
Tubset Legth	mm	1000	1000	1000	1000	1000
Max. head	m	10-15	10-15	60	60	21
Max delivery water	l/min	240	240	35	35	160
Max delivery oil *	l/min	135	135	25	25	50
Feeding pressure	Bar	7	7	7	7	=
Air Consumption	l/min	1200	1200	75	75	=
RPM	Nr	6000	6000	=	=	=
Strokes per min	Nr	=	=	180	180	=
Power	kW	0,75	0,75	=	=	0,75
Volts	V	=	=	=	=	230/400
Frequency	Hz	=	=	=	=	50
Air inlet	Ø	½" X	13 mm	½" x	(13 mm	=
Liquid Outlet	Ø	1 1/4"	x 48/60	3/4	" x 25	1 1/4" x 25
Weight	Kg	8	7	8,5	8	12

^{*} The oil max delivery depends on its viscosity.

PNEUMATIC SUMP PUMP

I.CO. pneumatic sump pump is a highly resistant centrifugal pump, built in nodular cast iron or bronze (spark-proof version) and has a remarkable shock resistance. The engine is sealed to avoid water leakage or penetration of sand or other particles. The impeller is in bronze and the transmission shafts are sleeved in bushings and special bearings. Equipped with lifting handle and suction filter.

ACCESSORIES:- Connections and pipes for air and water- Air filters and nebulizer- Mufflers conforming to EEC Regulations.

Technical Features:

IMPA CODE		59.16.31	59.16.32	59.16.33
I.CO. CODE		900-0-BN30 New Type	900-0-BN60 New Type	900-BZ
Туре		А	В	С
Body		Cast Iron	Cast Iron	Bronze
Overall Dimensions	mm 260 x 230 x 517 h. all types			types
Weight	Kg	13,5	13	20
Feeding Press.	Bar	6-7	6-7	6-8
Air Consumption	m³/hr	50	50	
Head	m	25	30	40
Delivery at mt.3	l/min	600	670	
Delivery at mt.25	l/min	320	350	
Delivery at mt.30	l/min	=	180	
Air inlet connect & Hose Ø			all types 3/4"	
Liquid outlet connect & Hose Ø	all types 2 1/2"			
Air outlet connect & Hose Ø		al	II types 1" x 32 n	nm

PNEUMATIC SUMP PUMP IMPA CODE 59.16.31 I.CO. CODE 900-0-BN 30/60 NEW TYPE



ELECTRIC SUMP PUMP IMPA CODE 59.16.47 I.CO. CODE 900-0-EL

ELECTRIC SUMP PUMP

Suitable for permanent or portable application and ideal for loading anywhere there is an accumulation of water.

Technical Features:

- Power Supply furnished for a 110 Volt Single Phase or 220 Volt Three Phase.
- Lifting Capacity available for 7,5 mt with 0,25 CBM/min up to 40,0 mt with 1,3 m³/min.
- Discharge diameter available in 40 mm up to 80 mm

I.CO. can furnish different models of electric sump pump, contact us to have other details and technical specifications.



GREASE LUBRICATOR PUMP

The air operated pumps are suitable for high pressure lubrication while using all types of grease, fluid or thick and with short or long distribution. The use of first quality materials and an accurate assembly with rigorous final test guarantee reliability and endurance.

The Grease Kit with trolley is offered with:

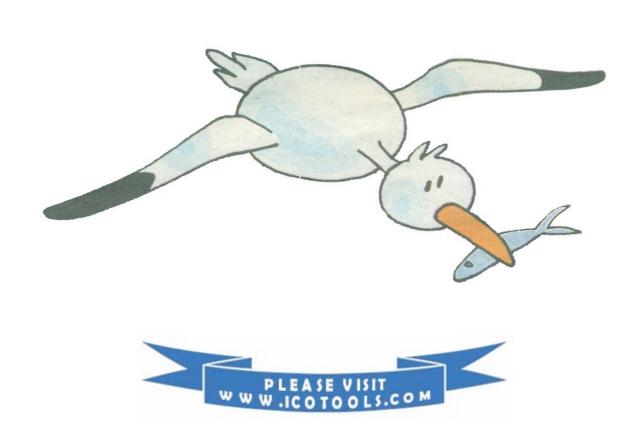
- 25 Kg drum air operated pump R=60:1
- 2 wheels trolley for 25 Kg. drums
- R2 1/4" distributor hose 3 m length
- Grease gun with flexible pipe and 4 jaw fitting
- Follower plate for drums internal Ø 375 mm
- Drum cover Ø 400 mm

The follower plate is indispensable when high viscosity greases (NLGI 2-3) is used.

It assures the compression of the grease and eludes the forming of pocket air and the suction of grease that otherwise would remain on drum walls. Available in other models for 50Kg –100Kg drum capacity.

IMPA CODE 61.71.-I.CO. CODE DA11C





PNEUMATIC SAFETY LAMP

I.CO Pneumatic Safety Lamp for ships, refineries and chemical instustrises is a special explosion proof lamp. It's made of sparkproof materials.

The compressed air activates a low tension (V.12-24) generator connected directly to the turbine by a differential pressure switch which keeps the power on a constant level, avoiding irregular rotation and consequent light oscillation.

The air circuit is designed in order to guarantee complete safety, preventing infiltration of hazardous gases and maintaining the lamp constantly cooled, thus preventing all risks of combustion and explosion. I.CO pneumatic safety lamp can be immersed and used for underwater inspections, equipped with proper air discharge conveyors.

It's also available a diffused lighting version of the pneumatic Safety Lamp.

IMPA CODE 33.06.37 I.CO. CODE 3110-W45



IMPA CODE 33.06.38 I.CO. CODE 3110-W44



CONSTRUCTION of I.CO. pneumatic Safety Lamp:

The lamp is exceptionally resistant and its casing is in sparkproof metal. The inner part is divided into: generator, switch and lamp chamber.

The lamp chamber comprises a hardened glass globe (12mm thick) and is further protected by a brass guard.

Technical Features:

IMPA CODE		33.06.37	33.06.38
I.CO. CODE		3110-W45	3110-W44
Working Pressure	Bar	5 - 7	5 - 8
Halogen bulb	Watt	250	250
Single-phase generator	V	24	24
Power	Watt	250	250
Air Consumption	m³/min	0,75	0,75
Light flux	Lumen	6000-9000	6000-9000
Approval code		Eex p II T5	Eex II 2GD II T4 / Eex I M2
Protection level		IP56	IP66
Length excluding handle	mm	290	280
Weight	Kg	13	9,5



AIR / STEAM or WATER TURBINE DRIVE SUPPLY AND EXHAUST

Type 'C' portable marine ventilators are rugged, dependable tube axial units that operate on steam, compressed air, or water. These ventilators offer maximum performance for wide range of on-board applications, for example: gas freeing, drying and ventilating operations on oil tankers and similar vessels, refineries and chemical industries. Models have flanged design in order to be mounted directly on tank opening; adapters are available to allow use of flexible duct to fit other openings.

AIR / STEAM TURBINE DRIVE SUPPLY AND EXHAUST MODELS 4.600 to 8.400 cfm



IMPA CODE: 59.14.40-41 I.CO. CODE:C-12AW/15AWC

WATER TURBINE DRIVE SUPPLY AND EXHAUST MODELS 4.70 to 7.400 cfm



IMPA CODE: 59.14.49-48

STEAM/COMPRESSED A	IR TURBINE DRIVEN	WATER TURBINE DRIVE				
C-12A	C-15A	C-12AWC	C-15AWC			
Supply model 5.350 cfm (9.090 m ³ /hr) Exhaust model 4.600 cfm (7.815 m ³ /hr)	Supply model 8.400 cfm (14.275 m³/hr) Exhaust model 6.500 cfm (11.044 m³/hr)	Supply model 5.000 cfm (8.495 m³/hr) Supply model 7.400 cfm (12.573 m³/hr) Exhaust model 4.700 cfm (7.985 m³/hr) Exhaust model 5.750 cfm (9.769 m³/hr)				
Features: Cast iron turbine housing with Bronze turbine wheel. Cast aluminium fan and fan cas Stainless steel fasteners, moun screen.	sing.	Features: Cast aluminium turbine ho Cast aluminium impeller. Cast aluminium inlet and o Grease sealed stainless ste Cast aluminium fan and fa Stainless steel fasteners an	outlet water connections. eel ball bearings. n casing.			

Model	C-12A	C-15A	C-12AWC	C-15AWC
Ref. A	12,6 (321)	21,0 (533)	14,8 (376)	16,5 (419)
Ref. B	14,2 (362)	14,2 (362)	14,2 (362)	14,2 (362)
Ref. C	20,5 (521)	22,2 (565)	22,5 (572)	24,5 (622)
Ref. D	12,5 (318)	15,3 (389)	12,5 (318)	15,2 (387)
Ref. E	15,3 (389)	20,5 (521)	15,3 (389)	20,5 (521)
Ref. F	16,8 (427)	21,5 (546)	16,8 (427)	21,5 (546)
Bolt Slots:				
Size	0,93 (24)	1,12 (28)	0,93 (24)	1,12 (28)
N°	10	8	10	8
Net * Weight	100 lbs 45 Kg	120 lbs 54 Kg	40 lbs 18 Kg	53 lbs 24 Kg

DIMENSIONS - Inches (mm)

Ref. A – Max Height

Ref. B – Height from the Base up to the Handles top

Ref. C – Max Ø

Ref. D – Rated Ø

Ref. E – Base Bolt Circe

Ref. F – Base External Ø

ACCESSORIES

Vaned aluminium adapters to mate C-15A and C-15AWC ventilators to standard "Butterworth" deck opening. Aluminium adapters for flexible duct attachment. Flexible duct in various diameters and lengths. Bonding Cable.

AIR TURBINE DRIVE SUPPLY



AIR TURBINE DRIVE SUPPLY



AIR TURBINE DRIVEN	AIR TURBINE DRIVEN
I.CO. CODE 75	I.CO. CODE 12P
Supply model 3.470 m ³ /hr EX PROOF	Supply model 3.500 m ³ /hr
Dimensions: max height: 410 mm height: 410 mm max Ø: 430 mm rated Ø: 430 mm net weight: 14 kg	Dimensions: max height: 533 mm height: 533 mm max Ø: 533 mm rated Ø: 533 mm net weight: 16 kg

AIR TURBINE DRIVE SUPPLY / EXAUST



ELECTRIC SUPPLY / EXAUST



PNEUMATIC	ELECTRIC
IMPA CODE: 59.14 I.CO. CODE: 8S1611S & 8S1020S	IMPA CODE: 59.14.17-19 I.CO. CODE: 200MM & 300MM
Technical Features: case Ø: 300 mm Total Dimension: 3850x350x440 mm Weight: 13,5 Kg Max Pressure: 100PSI (7BAR) RPM: 3000	Technical Features: Ø: 300 mm Voltage: 220V Phase: Single RPM: 3000/3600 Air Volume: 77m3/min Pressure: 30mm/Aq Weight: 25 Kg

AUTOMATIC EXPANDER FOR PIPES

TYPE A

Used to expand and flare the pipes at the same time. It's composed of a cage pin and 5 rolls, of which 2 flaring and 2 expanding. One of the expanding rolls is elongated in order to flatten the protuberance which usually forms inside the pipe, at the junction between expanding and flaring rolls.

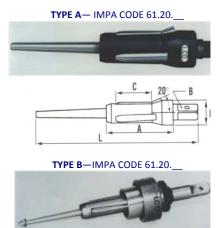
TYPE B

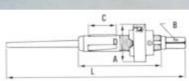
Equipped with thrust bearing pawl which rotates on ball bearings. The pawl is adjustable in order to vary depth of expansion. The pawl rests against the pipe head and is equipped with chamber spacer to allow lengthening of the pipe externally. Also available with rotating pawl and increased expansion depth.

TYPE C

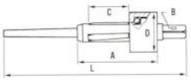
Suitable in all cases where only expansion is required and not flaring. Equipped with rotating pawl.

	IMPA CODE				61.20 TypeC	-		61.20 Type A	-		61.20 Type B	
Size	Expansion	С	Frame	Α	D	L	Α	D	L	Α	D	L
01	8-9,25				21			13			31	
1	8,5-10				21			14			31	
2	9-10,5				22			14			31	
03	9,5-11				22			15			32	
3	10-11,5				23	130		15	130		32	165
04	10,5-12				23			16			33	
4	11-12,5				24			16			33	
05	11,5-13	25		60	24		62	17		90	34	
5	12-13,5				25			17			34	
06	12,5-14		9		25			18			35	
6	13-15				26			18			36	
7	13,5-15,5				26			19			37	
08	14-16				27	145		19	145	38	175	
8	14,5-16,5				27			20			38	
09	15-17				28			20			39	
9	15,5-17,5				28			21			39	
10	16-18,5				35			21			40	
011	17-20				37			22			45	
11	18-21	30		70	38		67	23		95	46	
12	19-22				39			24			47	
13	20-23				40	160		25	160		48	195
14	21-24,5				41			27			52	









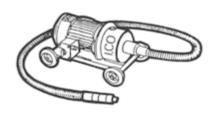
PNEUMATIC AND ELECTRIC PIPE CLEANING EQUIPMENT

Equipment designed for proper maintenance and internal cleaning of pipes of boilers, exchangers, refrigerators, condens well as pipes from chemical and food plants, and various other uses.

PNEUMATIC TURBINE IMPA CODE 59.23.35 I.CO. CODE 4000-TYPE ELECTRIC - TYPE 'A' IMPA CODE 59.23.31 I.CO. CODE 1660-00-2F **ELECTRIC - TYPE 'B'**IMPA CODE 59.23.33
I.CO. CODE 1600-00-2F







CLEANING TOOLS FOR PNEUMATIC OR ELECTRIC PIPE CLEANING EQUIPMENT

ISSA CODE	I.CO. CODE	Tool	ISSA CODE	I.CO. CODE	Tool
55.129.10	21	Spindle type cutter	55.129.17	28	Oscillating cutter head
55.129.11	22	Conical cutter	55.129.18	29	Twin spiral cylindric brush
55.129.12	23	Expanding blade cleaner	55.129.19	30	Wheel cutter scaler
55.129.13	24	Eccentric cutter	55.129.20	31	Twin blade tungsten carbide cutter
55.129.14	25	Expanding brush cleaner	55.129.21	32	Three blade tungsten carbide cutter
55.129.15	26	Single spiral cylindric brush	55.129.22	33	Four blade tungsten carbide cutter
55.129.16	27	Expanding cutter head			

ROD TYPE PNEUMATIC SCALING EQUIPMENT

For cleaning the clogged condenser pipes. The rods are perforated to allow the passage of water, air or chemicals in or facilitate cooling of the equipment and elimination of residue.

Normally Tungsten Carbide cutters with holes for liquid passage are fitted on the equipment.



Technical Features:

IMPA CODE		59.23.61	59.23.62
I.CO. CODE		3800	12100
Scaling range inside Ø	mm	8-25	26-45
Power	HP	1	1,2
Rod Ø (length mt l)	mm	6-16	20-25
Max. scaling length	m	5-10	10-12
Weight	Kg	6	8

ELECTRIC PIPE CLEANER TECHNICAL SPECIFICATIONS

Choice and use of the equipment: The type of tool to be employed is chosen and selected according to:

- Inner Ø of pipe to be cleaned
- Structure of pipe: straight or with elbows
- Type and nature of scaling

ТҮРЕ	'A'	'B'			
IMPA Code n.	59.23.32	59.23.33			
I.CO. Code	1660-00-2F	1600-00-2F			
With speed variator	from RPM 300 to 2800	-			
Internal Ø of pipes to be cleaned	From 10 mm to 50 mm	From 50 mm to 160 mm or over			
Single speed	-	Either RPM 1400 or 2800			
Motors available:	D.C.: V. 110/220 - A.C.: V. 24/48/110/220/38 or 3 Phase)				

TECHNICAL TABLE FOR CHOICE OF TOOLS

• Applicable tool **x** Not applicable tool

When ordering, always specify type of equipment needed and inside diam. of pipe to be cleaned (For example: N. 1 Turbine type '5' for pipe inside Ø mm 30).

Internal diam. of pipes to be cleaned [mm]	9 14	10 15	15 18	18 21	21 25	24 29	29 33	34 45	44 55	55 65	66 85	85 115	115 160	Over 160
Turbine Type		0	1	2	3	4/4R	5/5R	6	7	8	9	10	11	12
Turbine Ø [mm]		13,2	14,5	17,3	19,5	22,5	27,5	34	40	50	63	80	100	100
Threaded coupling	M4	M5	M6	M6	M6	M8	M10	M10	M12	M14	M16	M22	M22	M22
Pneum. Flexible Shaft-Type C	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Air consumption [I/min]	500/900	300	300	450	450	500	600	700	950	950	1600	1800	1800	1800
Electric-Type A	•	•	•	•	•	•	•	x	x	x	x	x	x	x
Electric-Type B	х	x	x	x	x	x	x	•	•	•	•	•	•	•
Flexible shaft' Ø [mm]	8	8	12	14	17	17	17	23	28	28	35	35	35	35
TOOLS TYPE:														
21	•	•	•	•	•	•	•	•	•	•	•	•	•	•
22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
23	х	x	х	x	•	•	•	•	•	•	•	•	•	•
24	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25	х	x	х	•	•	•	•	•	•	•	•	•	•	•
26	•	•	•	•	•	•	•	•	•	•	•	•	•	•
27	х	x	х	x	x	x	x	•	•	•	•	•	•	•
28	х	x	x	•	•	•	•	•	•	•	•	•	•	•
29	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30	х	X	x	x	х	X	x	х	•	•	•	x	x	x
31	•	•	•	•	•	•	•	•	•	•	•	•	•	•
32	•	•	•	•	•	•	•	•	•	•	•	•	•	•
33	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardan joint	00	0	1-3	1-3	1-3	4/4R	5-6	5-6	7	8	9	10-12	10-12	10-12
Flexible joint	00	0	1-3	1-3	1-3	4/4R	5-6	5-6	7	8	9	10-12	10-12	10-12

PNEUMATIC MUCKING WINCH

IMPA CODE 59.06.07 IMPA CODE 59.06.02 I.CO. CODE 1450-MW6 I.CO. CODE 1300-MW1



Machines of strong and reliable construction and equipped with wheel/screw endless reducer irreversible under load. Suitable for any lifting operation, also in areas where there is explosion danger.

Single motor/reducer group with cable, as well as winches with special structures for different applications can be supplied. The standard version is equipped with steel no-revolving cable. On request, it's possible to supply with Stainless Steel cables or with different length for longer depth.

Technical Features:

IMPA CODE		59.06.02	59.06.03	59.06.04	59.06.05	59.06.06	59.06.07
I.CO. CODE		1300-MW1	1350-MW2	1350-MW3	1400-MW4	1400-MW5	1450-MW6
model		Fixed	Directional	Directional	Directional	Directional	Directional
Lifting capacity	Kg	+70 -100	+100-120	+120-160	+160-200	+200-250	+250-300 /+
Lifting speed	m/ min	37	18	12	15	14	14
Steel rope Ø	mm mm	5	5	5	5	5	5
Length	m	35	35	35	35	35	35
Air hose	Ø	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Weight	Kg	50	85	85	95	100	100

Note: Standard rope length is indicated - different lengths available on request.

NEOPRENE RUBBER BUCKET

Special spark-proof bucket for tank cleaning. Made in hard neoprene rubber. While ordering please specify capacity.

IMPA CODE	I.CO. CODE	Capacity	Height	Top Ø	
59.06.11	1300-BN-10	l 10	335 mm	260 mm	
59.06.12	1300-BN-20	I 20	350 mm	360 mm	

PNEUMATIC CASUALTY WINCH

Built in galvanised steel. Frame equipped with winding wheel and handles to allow quick and easy removal. Tested by the most important Classification International Registers.

Areas of use: TANKERS AND FREIGHTERS - FOR HOISTING INJURED MEN AND VARIOUS MATERIALS FROM TANKS, HOLDS, ETC.

IMPA CODE 59.06.09 I.CO. CODE 1500-MW7

Power	HP	1
Speed	m/min	20
Air pressure	atm	6-7
Air consumption	m³/min	1,2
Lifting capacity	Kg	250
Air inlet	Ø	3⁄4" x 19 mm
Lift from deck level	m	15-20
Ø of sparkless steel rope	Mm	5
Steel rope breaking point	Kg	1500
Overall dimensions	mm	500x500x4000
Weight	Kg	60





PNEUMATIC AND ELECTRIC I.CO. PORTABLE DERRICK

The I.CO. PORTABLE DERRICK is a versatile, safe and durable equipment that can be used on board of almost any kind of vessel or rig.

The I.CO. DERRICK is extremely resistant, functional and it's painted for being corrosion-free. It's easy to carry, and to erect and it requires a very simple maintenance.

It has a wide range of applications, such as manouvering of ship stores, machinery spares, provisions, boats, hoses, gangways, ladders, cleaning of cargo holds etc. I.CO. DERRICK can be PNEUMATIC or ELECTRIC, and all versions are equipped with emergency manual control system.



Technical Features:

max. lift. Capacity (Kg)	Lifting speed m/min	Standard lift depth m	Max. reach m	
500	20	50	2,5-6,0	
750	15	50	2,5-6,0	
1000	12	50	2,5-6,0	

PNEUMATIC CHAIN HOIST

The pneumatic chain hoist offers a very good performance in any use condition, also in an heavy environment, without changing its characteristics, capacity and security. Standard equipments:

- 3 meters lifting height;
- the commands: manual or push-button control at 2 meters;
- revolving suspension hook.

On request: rigid adaptors for the hook and different lifting height for each model can be supply.

Common characteristics:

- Air connector: 3/8 NPT 3/4"
- Internal diameter for the advice feed pipe mm. 10-19

IMPA CODE 59.13.52-54-55-56-57-58-59-61 I.CO. CODE PP200 & UP



Versions with direct control or push-button control.

I.CO. Code	I.CO. Code	Lifting	Max speed: meter/minute			ninute	Air Consumption T	Weight Kg	
manual version	push-button version	power	Full load		Empty			manual	push-button
			up	down	up	down		version	version
PM200	PP200	200	30	60	60	40	1100	19	21
PM250	PP250	250	30	60	60	40	1100	19	21
PM500	PP500	500	12	20	20	17	1100	19	21
PM1000	PP1000	1000	6	17	13	9	1200	21.5	23.5
PM2000	PP2000	2000	3,5	8	7	5	1200	29	31

These values were obtained with a feed pressure of 6.2 bar

ELECTRIC CHAIN HOIST

The rugged dynamic body provide maximum protection for moving exceedingly heavy loads.

A wide range of models are available for 110 or 220 volt single phase power supply and 220/380/440 three-phase.

Lifting capacity from 0,125 tons up to 10 tons.





MANUAL CHAIN HOIST

The Manual Chain Hoist is available with lifting capacity from **0,5 tons up to 20 tons**.

IMPA CODE 59.13.__ I.CO. CODE M200 & UP



PNEUMATIC MOTORS / COMPRESSED AIR LINES

REVERSIBLE PNEUMATIC MOTOR FOR DIFFERENT APPLICATION

Casing in nodular cast iron and internal gear in high resistance steel alloys.

Suitable for naval and industry use. Available with a worm reduction unit or gears suitable to the request necessity.

Available with power from 0,5 up to 7 CV.

IMPA CODE 59.06.__
I.CO. CODE MTPN



4/5/6-WAY AIR DISTRIBUTOR

The distributor allows the connection of 4, 5 or 6 pneumatic tools at the same time to a single air-line, and keep feeding constant pressure in each line. The distributor is equipped with handle for easy carrying, support skids, safety valve and pressure gauge. Air inlet and outlet are fitted with bronze ball valves and 'quick connections'.

A filter / nebulizer unit can also be provided on request, together with a pressure reducer to reduce pressure from Atm. 30 to 6.Construction in special steel.

IMPA CODE 59.08.9-I.CO. CODE 170-0/170-0SP/170-00SP



GARBAGE COMPACTING PRESS

Equipment designed for naval, industrial and civil fields. For the naval field, the machine is in conformity with IMO-MARPOL anti sea-pollution Regulations in force and is designed in full conformity with safety rules. It can be installed on board of any kind of vessel or drilling platform. Available in different versions.

IMPA CODE		17.55.85
I.CO. CODE		15500-T3 New Type
TYPE		Т3
Dimensions of base	mm	620x670
Pressing capacity	Ton	3
Power	HP	2,2
Diam. containing cylinder	mm	550
Overall Height:		
- open	mm	1740
- closed	mm	1740
3 Phase voltage	V	*220/380/440
Net Weight	Kg	220





There are other outlets with higher flow rates up to 10 Tons.